

Gear Products

BALDOR
MOTORS • DRIVES • GENERATORS

CA1600

Effective Date:
August, 2004



BALDOR
MOTORS • DRIVES • GENERATORS

Why Baldor?

For over 80 years, Baldor has strived to provide customers with the best value and reliability in industrial products. To be considered by customers as the best...

Baldor products are available at more locations than any other brand.

Our 35 North America warehouse distribution centers offer immediate availability at any time to Baldor's distributors.



Industry's Shortest Lead Times



Baldor has the industry's shortest lead times on custom products – as fast as 10 days. Our unique Flex-Flow™ manufacturing process allows us to produce any order, in any quantity, quickly and efficiently.

Broad Line of Stock Products

Save valuable time with just one call to Baldor. We offer over 6,000 different stock gear products, electric motors and adjustable frequency drives.

Commitment to Inventory

Baldor's distribution centers and regional warehouses stock over \$75 million of inventory ready to ship 24 hours a day.



Best Information

Only Baldor offers customers such a wide choice of sources for product information. Use our printed catalogs and brochures, CD-Rom electronic catalog, or visit our website at www.baldor.com. Or talk to one of our customer service persons at any Baldor sales office.

Over 5000 Possible Gear Reducer Variations

Single Reduction Worm Gear Reducers



Double Reduction Worm Gear Reducers



Washdown Worm Gear Reducers



In-Line Helical Gear Units



Ratio Multipliers



Gearmotors



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900 Series Features and Benefits

900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

Sealed housing. No breather vent required, preventing contamination from outside environment. All 900 Series reducers are supplied filled with oil. The end user does not have the expense of filling units at the job site. This also reduces the chance of someone forgetting to install oil and damaging the reducer by running it dry.

Cast iron construction provides a rigid housing which reduces noise and vibration. It is also resistant to caustic washdown solutions. Large oil capacity improves heat dissipation and results in cooler operation. Supplied with Klubersynth UHI-6-460 synthetic oil, which provides a wide operating temperature range. This lifetime lubrication results in reduced maintenance costs and improved efficiency. Industry standard mounting.

Oversized, heavy duty bearings allow greater thrust capacity and extended service life.

Plunge ground seal journals provide positive sealing and extended leak free operation.

Rugged fan and guard provide optimum cooling for maximum ratings on 3.25 CD and larger units.

Chill cast bronze gear provides superior wear characteristics and long life. Gear keyed to output shaft for positive, reliable torque transmission.

Worm precision ground after heat treat to reduce noise and increase efficiency.

Spring loaded seals provide positive oil retention.

Symmetrical housing design allows precise gear alignment. Easy field conversion of output shaft position. Double reduction units can be assembled from stock single reduction units with double reduction adapter kit.

All units are pressure tested for leaks prior to shipment. Any leak source is detected and corrected prior to shipment.

900 Series Single Reduction

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900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

900 Series Style Reference Guide

STOCK STYLES

AVAILABLE FROM 35 BALDOR
WAREHOUSES IN THE U.S.
AND CANADA

F900

Flanged Quill Type Input
Standard Shaft



Ratings P. 9-12
Dimensions P. 29

S900

Solid Worm Type (Projecting
Input Shaft)



Ratings P. 9-12
Dimensions P. 32

LF900

Flanged Coupling Type Input



Ratings P. 9-12
Dimensions P. 38

HF900

Flanged Quill Type Input
Hollow Output



Ratings P. 9-12
Dimensions P. 43

MODIFIED STOCK STYLES

THESE UNITS CAN BE ASSEMBLED ON A MAKE-TO-ORDER BASIS, OR STOCK
STYLES CAN BE FIELD MODIFIED USING STOCK BASE AND ACCESSORY KITS.

HORIZONTAL BASE

F900B



Ratings P. 9-12
Dimensions P. 27

S900B



Ratings P. 9-12
Dimensions P. 33

LF900B



Ratings P. 9-12
Dimensions P. 39

HF900B



Ratings P. 9-12
Dimensions P. 44

VERTICAL BASE

F900E/F



Ratings P. 9-12
Dimensions P. 28

S900E/F



Ratings P. 9-12
Dimensions P. 35

LF900E/F



Ratings P. 9-12
Dimensions P. 40

HF900E/F



Ratings P. 9-12
Dimensions P. 45

900 Series Style Reference Guide

MODIFIED STOCK STYLES (continued)

THESE UNITS CAN BE ASSEMBLED ON A MAKE-TO-ORDER BASIS, OR STOCK STYLES CAN BE FIELD MODIFIED USING STOCK BASE AND ACCESSORY KITS.

J MOUNT

OUTPUT FLANGE

F900X



Ratings P. 9-12
Dimensions P. 29

F900R/L



Ratings P. 9-12
Dimensions P. 30

F900BRB



Ratings P. 9-12
Dimensions P. 31

S900X



Ratings P. 9-12
Dimensions P. 36

S900R/L



Ratings P. 9-12
Dimensions P. 37

Bases and Accessories



P. 77-82

LF900X



Ratings P. 9-12
Dimensions P. 41

LF900R/L



Ratings P. 9-12
Dimensions P. 42

Hollow Bore Bushing Kits



P. 82

HF900X



Ratings P. 9-12
Dimensions P. 46

HF900R/L



Ratings P. 9-12
Dimensions P. 47

HF900TA



Ratings P. 9-12
Dimensions P. 48

HF900V/W



* Ratings P. 9-12
Dimensions P. 49

* CANNOT BE FIELD MODIFIED.

900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

Single Reduction 900 Series Numbering System/How to Order

F - 924 - B - 30 - B5 - G 107

WASHDOWN OPTIONS

Blank = Standard Finish
SS = Stainless Steel *
WD = Washdown

* Only available in 918, 921 and 926

OUTPUT SHAFT

Blank = Standard Shaft
H = Hollow Bore

STYLE

Solid Output Shaft
F = Flanged Quill type input
S = Solid worm type (projecting input shaft)
LF = Flanged coupling type input

NEMA INPUT BORE CODES

Bore Code	Input Bore	NEMA Mtg.
B4	.500	42CZ
B5	.625	56C
B7	.875	140TC/180C
B9	1.125	180TC/210C
B11	1.375	210TC/250UC
B13	1.625	250TC

OUTPUT SHAFT ASSEMBLY

G = Left hand
H = Double shaft
J = Right hand

BASE/ASSEMBLY

A = Horizontal base, worm under gear
B = Horizontal base, worm over gear
C = Vertical base, High
D = Vertical base, Low
E = Vertical base, High
F = Vertical base, Low
R/L = Steel output flange
V/W = Cast iron output flange
X = Vertical base, J mount
BRB = Horizontal base with riser block

SIZE
(Center Distance)

910	1.00
913	1.33
915	1.54
918	1.75
921/921G	2.06
924	2.38
926	2.62
930	3.00
932	3.25
938	3.75
952	5.25
960	6.00

RATIO

5:1 THROUGH 60:1
 (see ratio and capacity selection tables for available ratios, p. 10-12.)

HOLLOW OUTPUT SHAFT BORE CODES

FRACTION SIZE	OUTPUT BORE CODE	SIZE								DECIMAL SIZE
		913	918	921	924	926	930	932	938	
1/2	008	O								0.500
5/8	010	S	O							0.625
3/4	012	O	O							0.750
1	100		S	O						1.000
1-1/8	102			S	O					1.125
1-3/16	103			O	O	O				1.188
1-1/4	104			O	S	O	O	O		1.250
1-3/8	106				O	O	O			1.375
1-7/16	107			O	O	S	O	O	O	1.438
1-1/2	108					O	O	O		1.500
1-15/16	115					O	S	S		1.938
2-1/8	202						O	O	O	2.125
2-3/16	203								S	2.188
Max Bore		0.750	1.125	1.625	1.688	2.000	2.125	2.125	2.188	
Keyway		0.188	0.250	0.375	0.375	0.500	0.500	0.500	0.500	

S = Standard Bore O = Optional Bore

HOW TO ORDER

Please specify Style, Size, Base (if required), Ratio, NEMA Input Flange (if flanged reducer), Output shaft assembly.

EXAMPLE

Required size: Quill type input, 924, 30:1 ratio, 56C input flange, left hand output (facing input flange) with a horizontal base. (worm over gear)

- Reducer and base assembly
Order Reducer **F-924-B-30-B5-G**
- Reducer with base ship separately
Order Reducer **F-924-30-B5-G (GF3024AG)** See stock ratings on page 15.
Base **B24H71**. See page 80.

How to Use the Ratio and Capacity Selection Tables

REQUIRED INFORMATION: To select the proper reducer for a given application, several important factors should be taken into consideration. They are: Application, Horsepower, Torque, Ratio and Overhung Load.

Note: See Engineering Information page 192 for detailed information and calculations on horsepower, torque, ratio and overhung load.

The ratio and capacity tables are on pages 9-12. Use these tables or 900 Series Stock Reducer tables on pages 13-23 to select the appropriate reducer.

Example:

A reducer is needed for a uniform load operation 24 hours per day. It will be driven by a 1 HP, 1750 RPM, 56C frame motor. The output speed required is 350.

1

Determine **Service Factor** from Table 1; multiply the HP (or torque required) by the **Service Factor** (uniform load 24 hours per day = 1.25) 1 HP x 1.25 = 1.25 design HP

TABLE 1

SERVICE FACTORS

Prime Mover	Duration of Service Total Operating Time Per Day	Driven Machine Load Classifications		
		Uniform	Moderate Shock	Heavy Shock
Electric Motor	Occasional 1/2 Hour	0.80	0.90	1.00
	Intermittent 2 Hours	0.90	1.00	1.25
	10 Hours	1.00	1.25	1.50
	24 Hours	1.25	1.50	1.75

*See page 206 for complete service factor table.



900 SERIES SINGLE REDUCTION RATIO & CAPACITY SELECTION TABLES

HORSEPOWER & TORQUE RATINGS FOR SERVICE CLASS I (1.0 Service Factor)

RATIO	INPUT RPM	OUTPUT RPM	SIZE 913			SIZE 915			SIZE 918		
			INPUT HP	OUTPUT HP	OUTPUT TORQUE IN. LBS.	INPUT HP	OUTPUT HP	OUTPUT TORQUE IN. LBS.	INPUT HP	OUTPUT HP	OUTPUT TORQUE IN. LBS.
5	2400	480	1.29	1.08	142	1.68	1.50	197	2.25	2.00	269
	1750	350	1.11	0.92	165	1.50	1.28	231	2.00	1.78	320
	1150	230	0.88	0.69	189	1.20	0.99	270	1.62	1.39	380
	850	174	0.69	0.55	202	0.96	0.80	290	1.31	1.14	414
	100	100	0.10	0.08	237	0.15	0.11	346	0.21	0.16	505
7.5	2400	320	—	—	—	1.44	1.17	230	1.88	1.60	315
	1750	230	—	—	—	1.27	1.00	270	1.65	1.36	368
	1150	150	—	—	—	1.01	0.77	317	1.27	1.04	427
	850	100	—	—	—	0.81	0.61	342	1.02	0.82	459
	100	100	—	—	—	0.13	0.08	409	0.16	0.11	544
10	2400	240	—	—	—	1.19	0.93	251	1.50	1.39	366
	1750	175	—	—	—	1.03	0.81	290	1.50	1.19	428
	1150	115	0.68	0.47	255	0.80	0.60	331	1.16	0.89	488
	850	85	0.53	0.35	260	0.63	0.48	353	1.02	0.78	520
	100	100	0.08	0.05	303	0.10	0.07	412	0.14	0.09	586
12.5	2400	192	—	—	—	1.00	—	—	—	—	—
	1750	144	—	—	—	0.87	—	—	—	—	—
	1150	104	—	—	—	0.65	—	—	—	—	—
	850	76	—	—	—	0.52	—	—	—	—	—
	100	100	—	—	—	0.08	—	—	—	—	—
15	2400	160	—	—	—	0.93	—	—	0.97	—	383
	1750	120	—	—	—	0.81	—	—	0.83	—	448
	1150	88	—	—	—	0.63	—	—	0.62	—	507
	850	66	—	—	—	0.52	—	—	0.48	—	531
	100	100	—	—	—	0.08	—	—	0.07	—	612
20	2400	120	0.59	0.39	203	0.71	0.53	277	1.00	0.72	379
	1750	88	0.53	0.33	239	0.62	0.44	317	0.92	0.64	461
	1150	58	0.42	0.24	266	0.47	0.33	360	0.80	0.49	530
	850	43	0.32	0.19	278	0.38	0.26	383	0.65	0.39	572
	100	5	0.05	0.03	328	0.06	0.04	442	0.10	0.05	668
25	2400	96	0.54	0.30	195	0.60	0.42	279	0.91	0.58	378
	1750	70	0.50	0.26	238	0.51	0.35	318	0.80	0.49	444
	1150	46	0.38	0.18	251	0.41	0.26	358	0.65	0.38	520
	850	35	0.30	0.15	265	0.34	0.21	380	0.54	0.31	561
	100	4	0.05	0.02	304	0.05	0.03	435	0.09	0.04	672
30	2400	80	0.47	0.27	213	0.55	0.36	280	0.78	0.49	383
	1750	58	0.42	0.23	248	0.50	0.29	318	0.72	0.43	470
	1150	38	0.35	0.17	275	0.38	0.22	358	0.66	0.33	547
	850	28	0.28	0.13	285	0.31	0.17	380	0.53	0.26	590
	100	3	0.04	0.02	338	0.04	0.02	435	0.09	0.03	720
40	2400	60	0.35	0.18	194	0.44	0.26	277	0.70	0.36	382
	1750	44	0.33	0.16	230	0.38	0.22	317	0.64	0.32	461
	1150	28	0.26	0.12	268	0.31	0.16	359	0.49	0.24	530
	850	21	0.22	0.09	278	0.24	0.13	381	0.43	0.19	570
	100	2.5	0.05	0.01	328	0.04	0.02	440	0.07	0.03	662
50	2400	48	0.38	0.16	212	0.39	0.20	267	0.54	0.28	370
	1750	35	0.33	0.13	234	0.33	0.17	303	0.49	0.24	436
	1150	23	0.26	0.09	250	0.27	0.12	341	0.42	0.18	489
	850	17	0.20	0.07	258	0.22	0.10	361	0.34	0.14	520
	100	2	0.06	0.01	290	0.03	0.01	414	0.05	0.02	611
60	2400	40	0.30	0.11	177	0.38	0.16	253	0.52	0.23	355
	1750	29	0.28	0.09	201	0.33	0.13	288	0.47	0.19	413
	1150	19	0.22	0.07	226	0.24	0.10	325	0.44	0.14	464
	850	14	0.18	0.05	240	0.20	0.08	343	0.37	0.12	560
	100	1.7	0.08	0.01	274	0.03	0.01	393	0.05	0.02	567
★ OVERHUNG LOAD★			INPUT SHAFT 150 LBS. OUTPUT SHAFT 240 LBS.			INPUT SHAFT 175 LBS. OUTPUT SHAFT 300 LBS.			INPUT SHAFT 175 LBS. OUTPUT SHAFT 600 LBS.		
OUTPUT SHAFT THRUST LOAD			300 LBS.			400 LBS.			500 LBS.		
MAXIMUM INPUT SPEED			4500 RPM			3600 RPM			3600 RPM		

*Overhung Load Rating is at center of shaft extension with no thrust load.

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5

If selection is based on torque instead of HP, find the **OUTPUT TORQUE** that is equal to or greater than required.

2

Under the **OUTPUT RPM** heading, find the rpm nearest the requirement.

3

Note corresponding **RATIO** from the left column.

4

In the **INPUT HP** column locate the rating that is greater than or equal to the required design HP

6

When HP (or torque rating) is located, look at the top of the section to find the reducer **SIZE**.

7

*Check **LOAD CAPACITIES**. Do not exceed overhung load rating or thrust load. Calculation for OHL can be found in the Engineering Section on page 192.

8

For this example, 915-05 would be the correct **SIZE & RATIO**. Complete the style number choosing style, base assembly (if required), NEMA input bore code (B5), and output shaft assembly. See page 6.

900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

900 Series Horsepower Quick Select Guide

900 Series
Single Reduction

900 Series
Double Reduction

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Single Reduction

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Engineering

Total Ratio	Output RPMS	Input Horsepower @ 1750 RPMS, (1.00 Service Factor)												
		1/6	1/4	1/3	1/2	3/4	1	1-1/2	2	3	5	7-1/2	10	15
5	350	910	910	910	910	913	913	915	918	921	926	930	932	
7.5	233	913	913	913	913	913	915	918	921	924	930	932	938	
10	175	910	910	910	913	913	915	918	921	926	930	938	952	952
12.5	140	913	913	913	913	915	918	921	924	926	932	938		
15	117	910	910	913	913	915	918	924	924	930	938	952	952	960
20	88	910	913	913	913	918	921	924	926	930	938	952	952	960
25	70	913	913	913	918	921	924	926	930	932				
30	58	913	913	913	915	921	924	926	930	938	952	952	960	
40	44	913	913	913	918	924	924	930	932	938	952	960		
50	35	913	913	913	918	924	926	930	938	952	952	960		
60	29	913	913	915	921	926	930	932	938	952	952			

Total Ratio	Output RPMS	Input Horsepower @ 1750 RPMS, (1.25 Service Factor)												
		1/6	1/4	1/3	1/2	3/4	1	1-1/2	2	3	5	7-1/2	10	15
5	350	910	910	910	913	913	915	918	921	924	930	938	938	
7.5	233	913	913	913	913	915	915	921	921	926	930	938		
10	175	910	910	913	913	915	918	921	924	930	932	952	952	960
12.5	140	913	913	913	915	918	921	924	926	930	938			
15	117	910	913	913	913	918	921	924	926	930	938	952	952	960
20	88	913	913	913	915	921	924	926	930	932	952	952	960	
25	70	913	913	913	918	924	926	930	930	938				
30	58	913	913	913	918	924	926	930	932	938	952	960		
40	44	913	913	918	918	924	926	930	938	952	952			
50	35	913	913	918	924	926	930	932	938	952	960			
60	29	913	915	918	924	930	930	938	952	952	960			

NOTE: Above charts are for reference only. Please see actual ratings pages 9-12.

900 Series Single Reduction Ratio and Capacity Selection Tables

Horsepower & Torque Ratings for Service Class I (1.0 Service Factor)

Ratio	Input RPM	Output RPM	Size 910			Size 913			Size 915		
			Input Hp	Output Hp	Output Torque In. Lbs.	Input Hp	Output Hp	Output Torque In. Lbs.	Input Hp	Output Hp	Output Torque In. Lbs.
5	2400	480	0.82	0.75	99	1.29	1.08	142	1.68	1.50	197
	1750	350	0.60	0.55	99	1.11	0.92	165	1.50	1.28	231
	1150	230	0.39	0.36	98	0.88	0.69	189	1.20	0.99	270
	850	174	0.30	0.27	101	0.69	0.55	202	0.96	0.80	290
	100	20	0.04	0.04	115	0.10	0.08	237	0.15	0.11	346
7.5	2400	320	—	—	—	0.94	0.82	161	1.44	1.17	230
	1750	233	—	—	—	0.77	0.70	188	1.27	1.00	270
	1150	153	—	—	—	0.59	0.52	214	1.01	0.77	317
	850	113	—	—	—	0.47	0.41	227	0.81	0.61	342
	100	13	—	—	—	0.07	0.05	255	0.13	0.08	409
10	2400	240	0.52	0.48	126	0.95	0.69	182	1.19	0.96	251
	1750	175	0.37	0.34	123	0.90	0.62	225	1.03	0.81	290
	1150	115	0.23	0.22	118	0.68	0.47	255	0.80	0.60	331
	850	85	0.19	0.17	124	0.53	0.35	260	0.63	0.48	353
	100	10	0.03	0.02	140	0.08	0.05	303	0.10	0.07	412
12.5	2400	192	—	—	—	0.64	0.80	185	1.00	0.80	262
	1750	140	—	—	—	0.55	0.67	211	0.87	0.67	300
	1150	92	—	—	—	0.42	0.49	238	0.65	0.49	339
	850	68	—	—	—	0.33	0.39	252	0.52	0.39	360
	100	8	—	—	—	0.05	0.05	290	0.08	0.05	415
15	2400	160	0.40	0.34	135	0.76	0.49	194	0.93	0.68	267
	1750	117	0.28	0.24	128	0.66	0.42	225	0.81	0.58	312
	1150	77	0.17	0.15	125	0.47	0.30	248	0.63	0.44	362
	850	57	0.14	0.12	131	0.38	0.24	270	0.52	0.35	388
	100	7	0.02	0.02	147	0.06	0.03	312	0.08	0.05	461
20	2400	120	0.28	0.24	131	0.59	0.39	203	0.71	0.53	277
	1750	88	0.21	0.18	130	0.53	0.33	239	0.62	0.44	317
	1150	58	0.14	0.12	129	0.42	0.24	266	0.47	0.33	360
	850	43	0.11	0.09	133	0.32	0.19	278	0.38	0.26	383
	100	5	0.02	0.01	150	0.05	0.03	328	0.06	0.04	442
25	2400	96	—	—	—	0.54	0.30	195	0.60	0.42	279
	1750	70	—	—	—	0.50	0.26	238	0.51	0.35	318
	1150	46	—	—	—	0.38	0.18	251	0.41	0.26	358
	850	35	—	—	—	0.30	0.15	265	0.34	0.21	380
	100	4	—	—	—	0.05	0.02	304	0.05	0.03	435
30	2400	80	—	—	—	0.47	0.27	213	0.55	0.36	280
	1750	58	0.15	0.12	132	0.42	0.23	248	0.50	0.29	318
	1150	38	0.10	0.08	133	0.35	0.17	275	0.38	0.22	358
	850	28	0.08	0.06	137	0.28	0.13	285	0.31	0.17	380
	100	3	0.01	0.01	155	0.04	0.02	338	0.04	0.02	435
40	2400	60	0.16	0.12	129	0.35	0.18	194	0.44	0.26	277
	1750	44	0.12	0.09	128	0.33	0.16	230	0.38	0.22	317
	1150	28	0.08	0.06	129	0.26	0.12	268	0.31	0.16	359
	850	21	0.06	0.04	129	0.22	0.09	278	0.24	0.13	381
	100	2.5	0.01	0.01	150	0.05	0.01	328	0.04	0.02	440
50	2400	48	0.12	0.09	123	0.38	0.16	212	0.39	0.20	267
	1750	35	0.09	0.07	120	0.33	0.13	234	0.33	0.17	303
	1150	23	0.06	0.04	114	0.26	0.09	250	0.27	0.12	341
	850	17	0.05	0.03	124	0.20	0.07	258	0.22	0.10	361
	100	2	0.01	0.00	140	0.06	0.01	290	0.03	0.01	414
60	2400	40	0.10	0.05	80	0.30	0.11	177	0.38	0.16	253
	1750	29	0.08	0.04	96	0.28	0.09	201	0.33	0.13	288
	1150	19	0.07	0.03	105	0.22	0.07	226	0.24	0.10	324
	850	14	0.05	0.02	110	0.18	0.05	240	0.20	0.08	343
	100	1.7	0.01	0.00	121	0.08	0.01	274	0.03	0.01	393
OVERHUNG LOAD*			INPUT SHAFT 25 LBS. OUTPUT SHAFT 150 LBS.			INPUT SHAFT 150 LBS. OUTPUT SHAFT 240 LBS.			INPUT SHAFT 175 LBS. OUTPUT SHAFT 300 LBS.		
OUTPUT SHAFT THRUST LOAD			200 LBS.			300 LBS.			400 LBS.		
MAXIMUM INPUT SPEED			4500 RPM			4500 RPM			3600 RPM		

*Overhung Load Rating is at center of shaft extension with no thrust load.

 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

 1000 Series
In-Line Helical

 1000 Series
Helical-Worm

Engineering

900 Series Single Reduction Ratio and Capacity Selection Tables

Horsepower & Torque Ratings for Service Class I (1.0 Service Factor)

Ratio	Input RPM	Output RPM	Size 918			Size 921			Size 924		
			Input Hp	Output Hp	Output Torque In. Lbs.	Input Hp	Output Hp	Output Torque In. Lbs.	Input Hp	Output Hp	Output Torque In. Lbs.
5	2400	480	2.25	2.05	269	3.45	3.21	421	4.84	4.40	578
	1750	350	2.00	1.78	320	3.14	2.85	514	4.17	3.92	705
	1150	230	1.62	1.39	380	2.58	2.34	641	3.46	3.21	879
	850	174	1.31	1.14	414	2.18	1.99	721	2.90	2.72	987
	100	20	0.21	0.16	505	0.35	0.30	951	0.48	0.41	1299
7.5	2400	320	1.88	1.60	315	3.00	2.70	532	3.70	3.46	681
	1750	233	1.65	1.36	368	2.70	2.37	640	3.28	3.03	820
	1150	153	1.27	1.04	427	2.19	1.88	774	2.69	2.45	1009
	850	113	1.02	0.82	459	1.83	1.53	853	2.25	2.02	1125
	100	13	0.16	0.11	544	0.30	0.22	1071	0.37	0.30	1450
10	2400	240	1.70	1.39	366	2.27	2.02	530	2.95	2.71	712
	1750	175	1.50	1.19	428	2.02	1.75	630	2.73	2.48	893
	1150	115	1.16	0.89	488	1.63	1.38	756	2.34	2.06	1127
	850	85	1.02	0.70	520	1.37	1.12	830	1.94	1.67	1239
	100	10	0.14	0.09	586	0.22	0.16	1000	0.37	0.25	1550
12.5	2400	192	1.23	1.09	357	1.82	1.64	537	2.60	2.36	775
	1750	140	1.07	0.93	420	1.62	1.43	644	2.45	2.20	989
	1150	92	0.85	0.72	493	1.30	1.12	770	1.98	1.74	1194
	850	68	0.69	0.58	534	1.08	0.91	844	1.64	1.42	1316
	100	8	0.11	0.08	641	0.18	0.13	1043	0.24	0.20	1556
15	2400	160	1.22	0.97	383	1.53	1.43	562	2.29	2.04	802
	1750	117	1.07	0.83	448	1.35	1.23	664	2.11	1.84	992
	1150	77	0.87	0.62	507	1.09	0.97	794	1.78	1.50	1228
	850	57	0.68	0.48	531	0.90	0.78	862	1.52	1.23	1365
	100	7	0.10	0.07	612	0.14	0.11	1035	0.30	0.19	1689
20	2400	120	1.00	0.72	379	1.19	1.11	581	1.87	1.61	844
	1750	88	0.92	0.64	461	1.06	0.96	684	1.72	1.45	1038
	1150	58	0.80	0.49	530	0.85	0.76	826	1.45	1.17	1271
	850	43	0.65	0.39	572	0.70	0.61	888	1.22	0.95	1389
	100	5	0.10	0.05	668	0.12	0.08	1065	0.26	0.14	1705
25	2400	96	0.91	0.58	378	0.96	0.84	551	1.55	1.24	816
	1750	70	0.80	0.49	444	0.89	0.75	675	1.37	1.11	1002
	1150	46	0.65	0.38	520	0.73	0.59	806	1.11	0.87	1196
	850	35	0.54	0.31	561	0.62	0.49	880	0.93	0.73	1308
	100	4	0.09	0.04	672	0.11	0.07	1080	0.16	0.10	1609
30	2400	80	0.78	0.49	383	0.94	0.75	588	1.41	1.14	900
	1750	58	0.72	0.43	470	0.83	0.64	691	1.32	1.02	1111
	1150	38	0.66	0.33	547	0.69	0.50	827	1.11	0.80	1328
	850	28	0.53	0.26	590	0.55	0.39	877	0.95	0.64	1451
	100	3	0.09	0.03	700	0.11	0.05	1057	0.21	0.08	1760
40	2400	60	0.70	0.36	382	0.75	0.55	579	1.05	0.80	840
	1750	44	0.64	0.32	461	0.66	0.47	680	0.99	0.72	1030
	1150	28	0.49	0.24	530	0.57	0.37	822	0.86	0.56	1263
	850	21	0.43	0.19	570	0.50	0.29	881	0.74	0.46	1381
	100	2.5	0.07	0.03	662	0.09	0.04	1060	0.19	0.07	1697
50	2400	48	0.54	0.28	370	0.65	0.42	555	0.88	0.63	833
	1750	35	0.49	0.24	436	0.58	0.36	651	0.83	0.56	1014
	1150	23	0.42	0.18	489	0.50	0.28	766	0.71	0.44	1213
	850	17	0.34	0.14	520	0.43	0.22	828	0.62	0.36	1328
	100	2	0.05	0.02	611	0.08	0.03	996	0.16	0.05	1596
60	2400	40	0.52	0.23	355	0.56	0.34	540	0.75	0.51	803
	1750	29	0.47	0.19	413	0.50	0.29	634	0.69	0.44	958
	1150	19	0.44	0.14	464	0.42	0.22	740	0.61	0.35	1158
	850	14	0.37	0.12	560	0.34	0.18	798	0.53	0.28	1267
	100	1.7	0.05	0.02	567	0.07	0.03	955	0.14	0.04	1534
OVERHUNG LOAD*			INPUT SHAFT 175 LBS. OUTPUT SHAFT 600 LBS.			INPUT SHAFT 220 LBS. OUTPUT SHAFT 750 LBS.			INPUT SHAFT 400 LBS. OUTPUT SHAFT 1000 LBS.		
OUTPUT SHAFT THRUST LOAD			500 LBS.			700 LBS.			800 LBS.		
MAXIMUM INPUT SPEED			3600 RPM			3600 RPM			3600 RPM		

*Overhung Load Rating is at center of shaft extension with no thrust load.

900 Series Single Reduction Ratio and Capacity Selection Tables

Horsepower & Torque Ratings for Service Class I (1.0 Service Factor)

Ratio	Input RPM	Output RPM	Size 926			Size 930			Size 932 (FC)		
			Input Hp	Output Hp	Output Torque In. Lbs.	Input Hp	Output Hp	Output Torque In. Lbs.	Input Hp	Output Hp	Output Torque In. Lbs.
5	2400	480	6.38	5.82	764	8.83	8.29	1088	11.29	10.76	1413
	1750	350	5.43	5.10	919	7.64	7.10	1279	9.76	9.23	1662
	1150	230	4.57	4.24	1163	6.41	5.94	1627	8.22	7.69	2107
	850	174	3.88	3.66	1327	5.60	5.22	1892	7.15	6.78	2457
	100	20	0.67	0.57	1803	1.00	0.88	2775	1.33	1.15	3628
7.5	2400	320	4.85	4.54	895	7.50	6.76	1332	8.74	8.24	1623
	1750	233	4.30	3.99	1079	6.37	5.92	1600	7.58	7.07	1913
	1150	153	3.52	3.22	1325	5.39	4.94	2034	6.40	5.89	2426
	850	113	2.93	2.64	1475	4.61	4.18	2330	5.47	4.98	2775
	100	13	0.48	0.39	1891	.80	.65	3153	0.96	0.79	3824
10	2400	240	4.02	3.74	982	6.03	5.61	1472	7.28	6.77	1779
	1750	175	3.59	3.27	1177	5.48	4.87	1755	6.36	5.85	2106
	1150	115	3.05	2.71	1485	4.65	4.00	2190	5.53	4.97	2725
	850	85	2.50	2.17	1611	4.03	3.32	2465	4.67	4.11	3050
	100	10	0.47	0.32	2000	0.70	0.52	3254	0.94	0.62	3908
12.5	2400	192	3.42	3.13	1026	5.12	4.70	1544	6.10	5.63	1849
	1750	140	3.05	2.75	1239	4.52	4.11	1850	5.36	4.89	2202
	1150	92	2.49	2.20	1510	3.76	3.35	2297	4.48	4.02	2754
	850	68	2.08	1.81	1674	3.16	2.78	2578	3.79	3.36	3110
	100	8	0.34	0.27	2126	0.54	0.43	3383	0.66	0.52	4134
15	2400	160	2.87	2.58	1018	4.64	4.04	1590	5.30	4.82	1898
	1750	117	2.58	2.27	1225	4.14	3.52	1903	4.66	4.16	2241
	1150	77	2.17	1.85	1515	3.48	2.88	2361	4.13	3.57	2918
	850	57	1.80	1.50	1663	3.00	2.39	2645	3.50	2.95	3267
	100	7	0.36	0.23	2056	0.51	0.38	3451	0.73	0.46	4158
20	2400	120	2.38	2.05	1076	3.76	3.10	1632	4.33	3.81	1999
	1750	88	2.15	1.83	1308	3.31	2.71	1955	3.85	3.33	2383
	1150	58	1.85	1.49	1623	2.72	2.23	2419	3.47	2.87	3120
	850	43	1.57	1.22	1790	2.31	1.85	2705	2.93	2.37	3480
	100	5	0.33	0.17	2186	0.43	0.28	3516	0.67	0.35	4359
25	2400	96	1.98	1.63	1068	3.14	2.51	1647	3.58	2.94	1931
	1750	70	1.73	1.45	1307	2.78	2.20	1978	3.13	2.62	2355
	1150	46	1.40	1.14	1561	2.27	1.78	2441	2.65	2.14	2936
	850	35	1.16	0.95	1705	1.89	1.51	2726	2.26	1.84	3305
	100	4	0.20	0.13	2093	0.38	0.22	3538	0.42	0.28	4344
30	2400	80	1.70	1.40	1099	2.75	2.09	1649	3.14	2.64	2078
	1750	58	1.54	1.21	1313	2.47	1.83	1978	2.81	2.28	2482
	1150	38	1.30	0.97	1606	2.09	1.47	2445	2.53	1.93	3200
	850	28	1.12	0.79	1768	1.80	1.21	2732	2.20	1.59	3577
	100	3	0.26	0.10	2120	0.32	0.17	3539	0.55	0.22	4542
40	2400	60	1.34	1.02	1068	2.09	1.55	1630	2.40	1.89	1989
	1750	44	1.23	0.90	1296	1.84	1.36	1960	2.20	1.66	2374
	1150	28	1.08	0.72	1611	1.49	1.07	2419	2.03	1.38	3110
	850	21	0.97	0.60	1803	1.31	0.90	2704	1.74	1.15	3465
	100	2.5	0.25	0.09	2179	0.25	0.14	3497	0.48	0.17	4348
50	2400	48	1.08	0.79	1034	1.84	1.20	1571	1.98	1.51	1977
	1750	35	1.00	0.69	1242	1.67	1.05	1890	1.83	1.31	2366
	1150	23	0.88	0.55	1518	1.45	0.85	2332	1.57	1.05	2885
	850	17	0.76	0.45	1668	1.27	0.70	2604	1.34	0.85	3133
	100	2	0.20	0.07	2052	0.21	0.11	3368	0.36	0.12	3782
60	2400	40	0.89	0.62	977	1.63	0.95	1491	1.66	1.19	1882
	1750	29	0.82	0.54	1166	1.50	0.83	1795	1.54	1.04	2255
	1150	19	0.74	0.44	1458	1.25	0.67	2214	1.34	0.82	2727
	850	14	0.66	0.36	1614	1.07	0.55	2472	1.17	0.67	3021
	100	1.7	0.18	0.05	1933	0.18	0.09	3197	0.33	0.10	3623
OVERHUNG LOAD*			INPUT SHAFT 400 LBS. OUTPUT SHAFT 1100 LBS.			INPUT SHAFT 400 LBS. OUTPUT SHAFT 1300 LBS.			INPUT SHAFT 550 LBS. OUTPUT SHAFT 1500 LBS.		
OUTPUT SHAFT THRUST LOAD			900 LBS.			1000 LBS.			1100 LBS.		
MAXIMUM INPUT SPEED			3600 RPM			3600 RPM			3600 RPM		

*Overhung Load Rating is at center of shaft extension with no thrust load.
(FC) = Fan Cooled

** Sizes 932 & larger are Fan Cooled (FC).
Units must be derated 33% when operated without a fan.

 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

 1000 Series
In-Line Helical

 1000 Series
Helical-Worm

Engineering

900 Series Single Reduction Ratio and Capacity Selection Tables

Horsepower & Torque Ratings for Service Class I (1.0 Service Factor)

Ratio	Input RPM	Output RPM	Size 938 (FC)			Size 952 (FC)			Size 960 (FC)		
			Input Hp	Output Hp	Output Torque In. Lbs.	Input Hp	Output Hp	Output Torque In. Lbs.	Input Hp	Output Hp	Output Torque In. Lbs.
5	2400	480	15.91	14.92	1959	30.26	22.83	6000	33.97	32.75	4300
	1750	350	13.76	12.86	2315	26.51	17.80	6412	30.10	28.66	5198
	1150	230	11.39	10.55	2891	21.81	13.14	7200	24.92	23.70	6495
	850	174	10.16	9.49	3437	19.18	11.16	8037	21.69	20.48	7591
	100	20	1.98	1.71	5401	4.41	1.67	10500	5.37	4.73	14918
7.5	2400	320	12.59	11.60	2284	—	—	—	—	—	—
	1750	233	10.80	9.92	2682	—	—	—	—	—	—
	1150	153	9.06	8.23	3392	—	—	—	—	—	—
	850	113	7.94	7.13	3979	—	—	—	—	—	—
	100	13	1.44	1.24	6016	—	—	—	—	—	—
10	2400	240	10.12	9.41	2472	24.77	22.83	6000	31.90	29.34	7713
	1750	175	9.05	8.07	2905	19.30	17.80	6412	26.13	24.05	8662
	1150	115	7.83	6.72	3685	14.25	13.14	7200	20.78	19.16	10500
	850	85	7.03	5.80	4298	12.40	11.16	8037	18.53	16.86	12144
	100	10	1.37	1.02	6403	1.93	1.67	10500	3.19	2.79	17600
12.5	2400	192	8.99	7.87	2585	—	—	—	—	—	—
	1750	140	7.76	6.76	3043	—	—	—	—	—	—
	1150	92	6.53	5.63	3856	—	—	—	—	—	—
	850	68	5.70	4.85	4495	—	—	—	—	—	—
	100	8	1.05	0.84	6648	—	—	—	—	—	—
15	2400	160	7.74	6.74	2653	17.31	15.37	6054	22.79	20.23	7372
	1750	117	6.64	5.79	3118	13.77	12.26	6605	18.60	16.69	8992
	1150	77	5.87	4.84	3965	10.50	9.41	7700	14.73	13.19	10800
	850	57	5.23	4.17	4614	9.07	8.10	8760	12.67	11.30	12220
	100	7	1.05	0.75	6795	1.56	1.32	11900	2.18	1.89	17000
20	2400	120	6.25	5.17	2715	16.40	14.44	7583	21.53	18.90	9930
	1750	88	5.43	4.46	3193	12.40	10.97	7857	16.54	14.63	10476
	1150	58	4.61	3.73	4058	8.70	7.73	8400	11.93	10.58	11500
	850	43	4.08	3.22	4722	7.20	7.66	9117	10.49	8.92	12850
	100	5	0.84	0.55	6922	1.18	0.92	11585	1.63	1.35	17000
25	2400	96	5.22	4.17	2737	—	—	—	—	—	—
	1750	70	4.50	3.58	3222	—	—	—	—	—	—
	1150	46	3.81	2.99	4097	—	—	—	—	—	—
	850	35	3.30	2.64	4762	—	—	—	—	—	—
	100	4	0.75	0.44	6964	—	—	—	—	—	—
30	2400	80	4.58	3.48	2741	11.22	9.49	7483	14.85	12.66	9976
	1750	58	3.97	2.97	3226	8.66	7.29	7920	11.54	9.72	10560
	1150	38	3.48	2.47	4104	6.29	5.31	8800	8.39	7.08	11750
	850	28	3.10	2.12	4767	5.25	4.46	9637	7.06	6.01	12975
	100	3	0.66	0.33	6964	0.93	0.58	12250	1.24	0.83	17500
40	2400	60	3.48	2.58	2711	8.62	6.98	7341	11.27	9.16	9227
	1750	44	3.00	2.23	3192	6.57	5.36	7682	8.76	7.15	10243
	1150	28	2.53	1.80	4062	4.68	3.73	8400	6.44	5.11	11500
	850	21	2.26	1.57	4715	3.87	3.17	9120	5.47	4.46	12845
	100	2.5	0.60	0.27	6880	0.71	0.46	11585	1.00	0.67	17000
50	2400	48	3.06	1.99	2612	7.47	5.67	7456	10.06	7.63	10025
	1750	35	2.67	1.71	3076	5.63	4.28	7700	7.56	5.74	10432
	1150	23	2.43	1.43	3916	3.93	2.92	8000	5.25	4.01	11000
	850	17	2.22	1.23	4544	3.14	2.36	8480	4.49	3.43	12350
	100	2	0.55	0.21	6627	0.46	0.29	9000	0.80	0.51	16000
60	2400	40	2.71	1.57	2480	6.56	4.60	7244	8.71	6.10	9625
	1750	29	2.33	1.34	2921	4.88	3.40	7392	6.70	4.67	10142
	1150	19	2.08	1.12	3718	3.33	2.32	7700	4.84	3.32	11000
	850	14	1.84	0.96	4314	2.74	1.92	8300	4.12	2.85	12320
	100	1.7	0.43	0.17	6290	0.43	0.24	9000	0.74	0.43	16000
OVERHUNG LOAD*			INPUT SHAFT 600 LBS. OUTPUT SHAFT 2000 LBS.			INPUT SHAFT 175 LBS. OUTPUT SHAFT 2200 LBS.			INPUT SHAFT 400 LBS. OUTPUT SHAFT 2900 LBS.		
OUTPUT SHAFT THRUST LOAD			1300 LBS.			1900 LBS.			2100 LBS.		
MAXIMUM INPUT SPEED			3600 RPM			3600 RPM			3600 RPM		

*Overhung Load Rating is at center of shaft extension with no thrust load.
(FC) = Fan Cooled

** Sizes 932 & larger are Fan Cooled (FC).
Units must be derated 33% when operated without a fan.



900 Series Stock Reducers

Quill Type NEMA C-Face Input

Style F Single and Double Output Shaft

Nominal Output RPM @ 1750 RPM Input	Gear Ratio	Continuous Duty Output Torque (In-Lbs.) Based On 1750 RPM Motor										Max. Hp	Max. Torq.	NEMA Motor Mount	Style Number	Catalog Number	Ap'x. Shpg. Wgt.	
		0.25	0.33	0.5	0.75	1	1.5	2	3	5	7.5							10
350	5			75	112	149							1.11	165	56C	F-913-05-B5-G	GF0513AG	20
				75	112	149							1.11	165	56C	F-913-05-B5-J	GF0513AJ	20
					115	154	231						1.50	231	56C	F-915-05-B5-G	GF0515AG	25
					115	154	231						1.50	231	140TC	F-915-05-B7-G	GF0515BG	25
					115	154	231						1.50	231	56C	F-915-05-B5-H	GF0515AH	25
						160	240	320					2.00	320	56C	F-918-05-B5-G	GF0518AG	30
						160	240	320					2.00	320	140TC	F-918-05-B7-G	GF0518BG	30
							246	327	491				3.14	514	140TC	F-921-05-B7-G	GF0521BG	35
							246	327	491				3.14	514	140TC	F-921-05-B7-J	GF0521BJ	35
							246	327	491				3.14	514	140TC	F-921G-05-B7-G	GF05G21BG	35
								339	507				4.17	705	180TC	F-924-05-B9-G	GF0524CG	40
								339	508	847			5.43	919	180TC	F-926-05-B9-G	GF0526CG	55
233	7.5								502	837	1255		7.64	1279	180TC	F-930-05-B9-G	GF0530CG	68
										837	1255	1674	13.76	2315	210TC	F-938-05-B11-H	GF0538DH	126
				104	156	208							1.27	270	56C	F-915-7.5-B5-H	GF0815AH	25
175	10								754	1257			6.37	1600	180TC	F-930-7.5-B9-G	GF0830CG	68
			82	125	187								0.90	225	56C	F-913-10-B5-G	GF1013AG	20
			82	125	187								0.90	225	56C	F-913-10-B5-J	GF1013AJ	20
			82	125	187								0.90	225	56C	F-913-10-B5-H	GF1013AH	20
				141	211	282							1.03	290	56C	F-915-10-B5-G	GF1015AG	25
				141	211	282							1.03	290	140TC	F-915-10-B7-G	GF1015BG	25
				141	211	282							1.03	290	56C	F-915-10-B5-H	GF1015AH	25
					214	285	428						1.50	428	56C	F-918-10-B5-G	GF1018AG	30
					214	285	428						1.50	428	56C	F-918-10-B5-J	GF1018AJ	30
					214	285	428						1.50	428	56C	F-918-10-B5-H	GF1018AH	30
					214	285	428						1.50	428	140TC	F-918-10-B7-G	GF1018BG	30
						312	468	624					2.02	630	56C	F-921-10-B5-G	GF1021AG	35
						312	468	624					2.02	630	56C	F-921-10-B5-J	GF1021AJ	35
						312	468	624					2.02	630	56C	F-921G-10-B5-G	G10G21AG	35
						312	468	624					2.02	630	56C	F-921-10-B5-H	GF1021AH	35
						312	468	624					2.02	630	140TC	F-921-10-B7-G	GF1021BG	35
						317	475	634					2.73	893	140TC	F-924-10-B7-G	GF1024BG	40
								655	983				3.59	1177	140TC	F-926-10-B7-G	GF1026BG	55
								655	983				3.59	1177	180TC	F-926-10-B9-G	GF1026CG	55
								641	961	1602			5.48	1755	180TC	F-930-10-B9-G	GF1030CG	68
									990	1649			6.36	2106	180TC	F-932-10-B9-G	GF1032CG	87
									963	1604	2407		9.05	2905	210TC	F-938-10-B11-G	GF1038DG	126
									963	1604	2407		9.05	2905	180TC	F-938-10-B9-H	GF1038CH	126
140	12.5							819	1228				4.52	1850	140TC	F-930-12.5-B7-G	GF1230BG	68
								819	1228				4.52	1850	180TC	F930-12.5-B9-G	GF1230CG	68

Catalog number suffix: G = Left Hand Output J = Right Hand Output H = Double Shaft Output (viewed from Input Flange)

See page 18 for color code torque ratings.

 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

 1000 Series
In-Line Helical

 1000 Series
Helical-Worm

Engineering



900 Series Stock Reducers Quill Type NEMA C-Face Input (Cont.)

Style F Single and Double Output Shaft

Nominal Output RPM @ 1750 RPM Input	Gear Ratio	Continuous Duty Output Torque (In-Lbs.) Based On 1750 RPM Motor											Max. Hp	Max. Torq.	NEMA Motor Mount	Style Number	Catalog Number	Ap'x. Shpg. Wgt.	
		0.25	0.33	0.5	0.75	1	1.5	2	3	5	7.5	10							
117	15	89	118	179									0.66	225	56C	F-913-15-B5-G	GF1513AG	20	
		89	118	179									0.66	225	56C	F-913-15-B5-J	GF1513AJ	20	
		89	118	179									0.66	225	56C	F-913-15-B5-H	GF1513AH	20	
			127	193	289								0.81	312	56C	F-915-15-B5-G	GF1515AG	25	
			127	193	289								0.81	312	56C	F-915-15-B5-H	GF1515AH	25	
				209	314	419							1.07	448	56C	F-918-15-B5-G	GF1518AG	30	
				209	314	419							1.07	448	56C	F-918-15-B5-J	GF1518AJ	30	
				209	314	419							1.07	448	56C	F-918-15-B5-H	GF1518AH	30	
				246	369	492							1.35	664	56C	F-921-15-B5-G	GF1521AG	35	
				246	369	492							1.35	664	56C	F-921-15-B5-J	GF1521AJ	35	
				246	369	492							1.35	664	56C	F-921-15-B5-H	GF1521AH	35	
				246	369	492							1.35	664	140TC	F-921-15-B7-G	GF1521BG	35	
						470	705	939					2.11	992	56C	F-924-15-B5-G	GF1524AG	40	
						470	705	939					2.11	992	56C	F-924-15-B5-J	GF1524AJ	40	
						470	705	939					2.11	992	140TC	F-924-15-B7-G	GF1524BG	40	
						473	710	947					2.58	1225	140TC	F-926-15-B7-G	GF1526BG	55	
							686	915	1373				4.14	1903	140TC	F-930-15-B7-G	GF1530BG	68	
							686	915	1373				4.14	1903	180TC	F-930-15-B9-G	GF1530CG	68	
								959	1438				4.66	2241	140TC	F-932-15-B7-G	GF1532BG	87	
								959	1438				4.66	2241	180TC	F-932-15-B9-G	GF1532CG	87	
							1409	2349			6.64	3118	180TC	F-938-15-B9-G	GF1538CG	126			
							1409	2349			6.64	3118	180TC	F-938-15-B9-H	GF1538CH	126			
88	20	113	149	226									0.53	239	56C	F-913-20-B5-G	GF2013AG	20	
		113	149	226									0.53	239	56C	F-913-20-B5-H	GF2013AH	20	
		128	169	256									0.62	317	56C	F-915-20-B5-G	GF2015AG	25	
		128	169	256									0.62	317	56C	F-915-20-B5-H	GF2015AH	25	
			165	251	376								0.92	461	56C	F-918-20-B5-G	GF2018AG	30	
			165	251	376								0.92	461	56C	F-918-20-B5-J	GF2018AJ	30	
			165	251	376								0.92	461	56C	F-918-20-B5-H	GF2018AH	30	
				323	484	645							1.06	684	56C	F-921-20-B5-G	GF2021AG	35	
				323	484	645							1.06	684	56C	F-921-20-B5-J	GF2021AJ	35	
				323	484	645							1.06	684	56C	F-921G-20-B5-G	GF20G21AG	35	
				323	484	645							1.06	684	56C	F-921-20-B5-H	GF2021AH	35	
				323	484	645							1.06	684	140TC	F-921-20-B7-G	GF2021BG	35	
				323	484	645							1.06	684	140TC	F-921G-20-B7-G	GF20G21BG	35	
					451	602	902						1.72	1038	56C	F-924-20-B5-G	GF2024AG	40	
					451	602	902						1.72	1038	140TC	F-924-20-B7-G	GF2024BG	40	
						609	913	1218					2.15	1308	56C	F-926-20-B5-G	GF2026AG	55	
						609	913	1218					2.15	1308	140TC	F-926-20-B7-G	GF2026BG	55	
							880	1174	1761				3.31	1955	140TC	F-930-20-B7-G	GF2030BG	68	
							880	1174	1761				3.31	1955	180TC	F-930-20-B9-G	GF2030CG	68	
							880	1174	1761				3.31	1955	180TC	F-930-20-B9-J	GF2030CJ	68	
							924	1232	1848				3.85	2383	140TC	F-932-20-B7-G	GF2032BG	87	
							924	1232	1848				3.85	2383	180TC	F-932-20-B9-G	GF2032CG	87	
									1176	1764	2940			5.43	3193	180TC	F-938-20-B9-G	GF2038CG	126

Catalog number suffix: G = Left Hand Output J = Right Hand Output H = Double Shaft Output (viewed from Input Flange)

See page 18 for color code torque ratings.



900 Series Stock Reducers

Quill Type NEMA C-Face Input (Cont.)

Style F Single and Double Output Shaft

Nominal Output RPM @ 1750 RPM Input	Gear Ratio	Continuous Duty Output Torque (In-Lbs.) Based On 1750 RPM Motor											Max. Hp	Max. Torq.	NEMA Motor Mount	Style Number	Catalog Number	Ap'x. Shpg. Wgt.
		0.25	0.33	0.5	0.75	1	1.5	2	3	5	7.5	10						
70	25	119	157	238									0.5	238	56C	F-913-25-B5-G	GF2513AG	20
		156	206	312									0.51	318	56C	F-915-25-B5-G	GF2515AG	25
		156	206	312									0.51	318	56C	F-915-25-B5-H	GF2515AH	25
			183	277	416								0.8	444	56C	F-918-25-B5-G	GF2518AG	30
			183	277	416								0.8	444	56C	F-918-25-B5-J	GF2518AJ	30
			250	379	569								0.89	675	56C	F-921-25-B5-G	GF2521AG	35
			250	379	569								0.89	675	56C	F-921-25-B5-J	GF2521AJ	35
			250	379	569								0.89	675	56C	F-921G-25-B5-G	GF25G21AG	35
				365	547	729							1.37	1002	140TC	F-924-25-B7-G	GF2524BG	40
					567	756	1134						1.73	1307	140TC	F-926-25-B7-G	GF2526BG	55
						711	1066	1422					2.78	1978	56C	F-930-25-B5-G	GF2530AG	68
						711	1066	1422					2.78	1978	140TC	F-930-25-B7-G	GF2530BG	68
							1134	1513	2269				3.13	2355	140TC	F-932-25-B7-G	GF2532BG	87
								1440	2160				4.50	3222	180TC	F-938-25-B9-H	GF2538CH	126
58	30	148	195										0.42	248	56C	F-913-30-B5-G	GF3013AG	20
		148	195										0.42	248	56C	F-913-30-B5-H	GF3013AH	20
		159	210	318									0.50	318	56C	F-915-30-B5-G	GF3015AG	25
		159	210	318									0.50	318	56C	F-915-30-B5-H	GF3015AH	25
			216	327									0.72	470	56C	F-918-30-B5-G	GF3018AG	30
			216	327									0.72	470	56C	F-918-30-B5-J	GF3018AJ	30
			216	327									0.72	470	56C	F-918-30-B5-H	GF3018AH	30
			275	416	624								0.83	691	56C	F-921-30-B5-G	GF3021AG	35
			275	416	624								0.83	691	56C	F-921-30-B5-J	GF3021AJ	35
			275	416	624								0.83	691	56C	F-921-30-B5-H	GF3021AH	35
			275	416	624								0.83	691	56C	F-921G-30-B5-G	GF30G21AG	35
				420	630	840							1.32	1111	56C	F-924-30-B5-G	GF3024AG	40
				420	630	840							1.32	1111	56C	F-924-30-B5-J	GF3024AJ	40
				420	630	840							1.32	1111	140TC	F-924-30-B7-G	GF3024BG	40
					641	854	1281						1.54	1313	56C	F-926-30-B5-G	GF3026AG	55
					641	854	1281						1.54	1313	140TC	F-926-30-B7-G	GF3026BG	55
						804	1206	1608					2.47	1978	56C	F-930-30-B5-G	GF3030AG	68
						804	1206	1608					2.47	1978	56C	F-930-30-B5-J	GF3030AJ	68
						804	1206	1608					2.47	1978	140TC	F-930-30-B7-G	GF3030BG	68
						881	1322	1763					2.81	2482	140TC	F-932-30-B7-G	GF3032BG	87
44								1626	2438				3.97	3226	180TC	F-938-30-B9-G	GF3038CG	126
								1626	2438				3.97	3226	180TC	F-938-30-B9-H	GF3038CH	126
		174	230										0.33	230	56C	F-913-40-B5-G	GF4013AG	20
44		174	230										0.33	230	56C	F-913-40-B5-H	GF4013AH	20
		208	275										0.38	317	56C	F-915-40-B5-G	GF4015AG	25

Catalog number suffix:
 G = Left Hand Output
 J = Right Hand Output
 H = Double Shaft Output
 (viewed from Input Flange)

See page 18 for color code torque ratings.

900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

900 Series Stock Reducers

Quill Type NEMA C-Face Input (Cont.)

Style F Single and Double Output Shaft

Nominal Output RPM @ 1750 RPM Input	Gear Ratio	Continuous Duty Output Torque (In-Lbs.) Based On 1750 RPM Motor										Max. Hp	Max. Torq.	NEMA Motor Mount	Style Number	Catalog Number	Ap'x. Shpg. Wgt.	
		0.25	0.33	0.5	0.75	1	1.5	2	3	5	7.5							10
44	40	208	275										0.38	317	56C	F-915-40-B5-H	GF4015AH25	25
		208	275										0.38	317	56C	F-915-40-B5-J	GF4015AJ	25
		180	238	360									0.64	461	56C	F-918-40-B5-G	GF4018AG	30
		180	238	360									0.64	461	56C	F-918-40-B5-J	GF4018AJ	30
			340	515									0.66	680	56C	F-921-40-B5-G	GF4021AG	35
			340	515									0.66	680	56C	F-921-40-B5-J	GF4021AJ	35
			340	515									0.66	680	56C	F-921G-40-B5-G	GF40G21AG	35
				521	781								0.99	1030	56C	F-924-40-B5-G	GF4024AG	40
				521	781								0.99	1030	56C	F-924-40-B5-J	GF4024AJ	40
				521	781								0.99	1030	56C	F-924-40-B5-H	GF4024AH	40
				524	786	1049							1.23	1296	56C	F-926-40-B5-G	GF4026AG	55
				524	786	1049							1.23	1296	56C	F-926-40-B5-J	GF4026AJ	55
				524	786	1049							1.23	1296	140TC	F-926-40-B7-G	GF4026BG	55
					794	1059	1589						1.84	1960	56C	F-930-40-B5-G	GF4030AG	68
					794	1059	1589						1.84	1960	140TC	F-930-40-B7-G	GF4030BG	68
						1074	1611	2148					2.20	2374	140TC	F-932-40-B7-G	GF4032BG	87
							1596	2129	3192				3.00	3192	180TC	F-938-40-B9-G	GF4038CG	126
							1596	2129	3192				3.00	3192	180TC	F-938-40-B9-H	GF4038CH	126
35	50	177	234										0.33	234	56C	F-913-50-B5-G	GF5013AG	20
		177	234										0.33	234	56C	F-913-50-B5-H	GF5013AH	20
		230	303										0.33	303	56C	F-915-50-B5-G	GF5015AG	25
													0.33	303	56C	F-915-50-B5-H	GF5015AH	25
		222	294										0.49	436	56C	F-918-50-B5-G	GF5018AG	30
		222	294										0.49	436	56C	F-918-50-B5-J	GF5018AJ	30
		280	370	561									0.58	651	56C	F-921-50-B5-G	GF5021AG	35
		280	370	561									0.58	651	56C	F-921-50-B5-J	GF5021AJ	35
		280	370	561									0.58	651	56C	F-921-50-B5-H	GF5021AH	35
			401	608	912								0.83	1014	56C	F-924-50-B5-G	GF5024AG	40
				621	932	1242							1.00	1242	56C	F-926-50-B5-G	GF5026AG	55
				621	932	1242							1.00	1242	140TC	F-926-50-B7-G	GF5026BG	55
					850	1134	1701						1.67	1890	56C	F-930-50-B5-G	GF5030AG	68
					850	1134	1701						1.67	1890	140TC	F-930-50-B7-G	GF5030BG	68
					958	1278	1917						1.83	2366	56C	F-932-50-B5-G	GF5032AG	87
					958	1278	1917						1.83	2366	140TC	F-932-50-B7-G	GF5032BG	87
						1152	1729	2305					2.67	3076	140TC	F-938-50-B7-G	GF5038BG	126
						1152	1729	2305					2.67	3076	140TC	F-938-50-B7-H	GF5038BH	126
29	60	218	288										0.33	288	56C	F-915-60-B5-G	GF6015AG	25
		218	288										0.33	288	56C	F-915-60-B5-H	GF6015AH	25
		220	290										0.47	413	56C	F-918-60-B5-G	GF6018AG	30
		220	290										0.47	413	56C	F-918-60-B5-J	GF6018AJ	30
		220	290										0.47	413	56C	F-918-60-B5-H	GF6018AH	30
		317	418	634									0.50	634	56C	F-921-60-B5-G	GF6021AG	35
													0.50	634	56C	F-921-60-B5-H	GF6021AH	35
		317	418	634									0.50	634	56C	F-921-60-B5-J	GF6021AJ	35
		317	418	634									0.50	634	56C	F-921G-60-B5-G	GF60G21AG	35
			458	693									0.69	958	56C	F-924-60-B5-G	GF6024AG	40
			458	693									0.69	958	56C	F-924-60-B5-J	GF6024AJ	40
			473	716	1074								0.82	1166	56C	F-926-60-B5-G	GF6026AG	55
			473	716	1074								0.82	1166	56C	F-926-60-B5-J	GF6026AJ	55
			473	716	1074								0.82	1166	56C	F-926-60-B5-H	GF6026AH	55
					896	1195	1795						1.50	1795	56C	F-930-60-B5-G	GF6030AG	68
					896	1195	1795						1.50	1795	140TC	F-930-60-B7-G	GF6030BG	68
					1100	1467	2200						1.54	2255	56C	F-932-60-B5-G	GF6032AG	87
					1100	1467	2200						1.54	2255	140TC	F-932-60-B7-G	GF6032BG	87
				1254	1881	2508					2.33	2921	140TC	F-938-60-B7-G	GF6038BG	126		
				1254	1881	2508					2.33	2921	140TC	F-938-60-B7-H	GF6038BH	126		

Catalog number suffix
G = Left Hand Output;
J = Right Hand Output,
H = Double Shaft Output (viewed from Input Flange)

See page 18 for color code torque ratings.



900 Series Stock Reducers

Solid Worm Type

Projecting Input Shaft

Style S Single Output Shaft, Left Hand Facing Input Shaft

Nominal Output RPM @ 1750 RPM Input	Gear Ratio	Continuous Duty Output Torque (In-Lbs.) Based On 1750 RPM Motor								Max. Hp	Maximum Output Torque Rating In-Lbs.	Style Number	Catalog Number	Approx. Shpg. Weight
		0.25	0.33	0.5	0.75	1	1.5	2	3					
175	10				214	285	428			1.50	428	S-918-10-G	GS1018G	25
						312	468	624		2.02	630	S-921-10-G	GS1021G	28
							492	655	983	3.59	1177	S-926-10-G	GS1026G	50
117	15		127	193	289					0.81	312	S-915-15-G	GS1515G	21
				209	314	419				1.07	448	S-918-15-G	GS1518G	25
				246	369	492				1.35	664	S-921-15-G	GS1521G	28
88	20	128	169	256						0.62	317	S-915-20-G	GS2015G	21
			165	251	376					0.92	461	S-918-20-G	GS2018G	25
				323	484	645				1.06	684	S-921-20-G	GS2021G	28
					451	602	902			1.72	1038	S-924-20-G	GS2024G	38
						609	913	1218		2.15	1308	S-926-20-G	GS2026G	50
70	25	156	206	312						0.51	318	S-915-25-G	GS2515G	21
58	30	148	195							0.42	248	S-913-30-G	GS3013G	18
		159	210	318						0.50	318	S-915-30-G	GS3015G	21
			216	327						0.72	470	S-918-30-G	GS3018G	25
			275	416	624					0.83	691	S-921-30-G	GS3021G	28
					641	854	1281			1.54	1313	S-926-30-G	GS3026G	50
44	40	208	275							0.38	317	S-915-40-G	GS4015G	21
		180	238	360						0.64	461	S-918-40-G	GS4018G	25
			340	515						0.66	680	S-921-40-G	GS4021G	28
				524	786	1049				1.23	1296	S-926-40-G	GS4026G	50
35	50	177	234							0.33	234	S-913-50-G	GS5013G	18
		222	294							0.49	436	S-918-50-G	GS5018G	25
		280	370	561						0.58	651	S-921-50-G	GS5021G	28
				621	932	1242				1.00	1242	S-926-50-G	GS5026G	50
29	60	179								0.28	201	S-913-60-G	GS6013G	18
		218	288							0.33	288	S-915-60-G	GS6015G	21
		220	290							0.47	413	S-918-60-G	GS6018G	25
		317	418	634						0.50	634	S-921-60-G	GS6021G	28
			458	693						0.69	958	S-924-60-G	GS6024G	38
			473	716	1074					0.82	1166	S-926-60-G	GS6026G	50

See page 18 for color code torque ratings.

900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering



900 Series Flanged Gear Reducers

Coupling Type NEMA C-Face Input

Style LF Single Output Shaft

Nominal Output RPM @ 1750 RPM Input	Gear Ratio	Continuous Duty Output Torque (In-Lbs.) Based On 1750 RPM Motor									Max. Hp	Max. Torq.	NEMA Motor Mount	Style Number	Catalog Number	Approx. Shpg. Wgt.
		0.25	0.33	0.5	0.75	1	1.5	2	3	5						
350	5				115	154	231				1.50	231	56C	LF-915-05-B5-G	GLF0515AG	30
							246	327	491		3.14	514	56C	LF-921-05-B5-G	GLF0521AG	38
233	7.5					237	356	474			2.70	640	56C	LF-921-7.5-B5-G	GLF0821AG	37
						237	356	474			2.70	640	56C	LF-921-7.5-B5-J	GLF0821AJ	37
						237	356	474			2.70	640	140TC	LF-921-7.5-B7-G	GLF0821BG	37
							376	501	752		4.30	1079	140TC	LF-926-7.5-B7-G	GLF0826BG	60
							376	501	752		4.30	1079	180TC	LF-926-7.5-B9-G	GLF0826CG	60
175	10				214	285	428				1.50	428	56C	LF-918-10-B5-G	GLF1018AG	30
						312	468	624			2.20	630	56C	LF-921-10-B5-G	GLF1021AG	37
						312	468	624			2.20	630	140TC	LF-921-10-B7-G	GLF1021BG	37
						312	468	624			2.20	630	140TC	LF-921-10-B7-J	GLF1021BJ	37
						317	475	634			2.73	893	140TC	LF-924-10-B7-G	GLF1024BG	43
								655	983		3.59	1177	140TC	LF-926-10-B7-G	GLF1026BG	60
								655	983		3.59	1177	180TC	LF-926-10-B9-G	GLF1026CG	60
									990	1649	6.36	2106	180TC	LF-932-10-B9-G	GLF1032CG	106
117	15	89	118	179							0.66	225	56C	LF-913-15-B5-G	GLF1513AG	20
				209	314	419					1.07	448	56C	LF-918-15-B5-G	GLF1518AG	30
				246	369	492					1.35	664	56C	LF-921-15-B5-G	GLF1521AG	37
				246	369	492					1.35	664	56C	LF-921-15-B5-J	GLF1521AJ	37
						470	705	939			2.11	992	140TC	LF-924-15-B7-G	GLF1524BG	43
						470	705	939			2.58	1225	140TC	LF-926-15-B7-G	GLF1526BG	60
						470	705	939			2.58	1225	140TC	LF-926-15-B7-J	GLF1526BJ	60
								959	1438		4.66	2241	180TC	LF-932-15-B9-G	GLF1532CG	106
								959	1438		4.66	2241	180TC	LF-932-15-B9-J	GLF1532CJ	106
									1409	2349	6.64	3118	180TC	LF-938-15-B9-G	GLF1538CG	135
88	20	113	149	226							0.53	239	56C	LF-913-20-B5-G	GLF2013AG	20
			165	251	376						0.92	461	56C	LF-918-20-B5-G	GLF2018AG	30
				323	484	645					1.06	684	56C	LF-921-20-B5-G	GLF2021AG	37
				323	484	645					1.06	684	56C	LF-921-20-B5-J	GLF2021AJ	37
						609	913	1218			2.15	1308	140TC	LF-926-20-B7-G	GLF2026BG	60
						609	913	1218			2.15	1308	140TC	LF-926-20-B7-J	GLF2026BJ	60
							924	1232	1848		3.85	2383	180TC	LF-932-20-B9-G	GLF2032CG	106

NOTE:

- Service Class I Torque Ratings (1.0 Service Factor)
- Service Class II Torque Ratings (≥ 1.4 Service Factor)
- Service Class III Torque Ratings (≥ 2.0 Service Factor)

$\geq$ is "Equal to or Greater Than"



900 Series Flanged Gear Reducers

Coupling Type NEMA C-Face Input

Style LF Single Output Shaft

Nominal Output RPM @ 1750 RPM Input	Gear Ratio	Continuous Duty Output Torque (In-Lbs.) Based On 1750 RPM Motor									Max. Hp	Max. Torq.	NEMA Motor Mount	Style Number	Catalog Number	Approx. Shpg. Wgt.
		0.25	0.33	0.5	0.75	1	1.5	2	3	5						
70	25	156	206	312							0.51	318	56C	LF-915-25-B5-G	GLF2515AG	30
			183	277	416						0.80	444	56C	LF-918-25-B5-G	GLF2518AG	30
			250	379	569						0.89	675	56C	LF-921-25-B5-G	GLF2521AG	37
			250	379	569						0.89	675	56C	LF-921-25-B5-J	GLF2521AJ	37
					567	756	1134				1.73	1307	56C	LF-926-25-B5-G	GLF2526AG	60
					567	756	1134				1.73	1307	140TC	LF-926-25-B7-G	GLF2526BG	60
					567	756	1134				1.73	1307	140TC	LF-926-25-B7-J	GLF2526BJ	60
							1134	1513	2269		3.13	2355	140TC	LF-932-25-B7-G	GLF2532BG	100
							1134	1513	2269		3.13	2355	180TC	LF-932-25-B9-G	GLF2532CG	100
							1134	1513	2269		3.13	2355	180TC	LF-932-25-B9-J	GLF2532CJ	100
58	30	148	195								0.42	248	56C	LF-913-30-B5-G	GLF3013AG	20
		159	210	318							0.50	318	56C	LF-915-30-B5-G	GLF3015AG	30
			216	327							0.72	470	56C	LF-918-30-B5-G	GLF3018AG	30
			216	327							0.72	470	56C	LF-918-30-B5-J	GLF3018AJ	30
			275	416	624						0.83	691	56C	LF-921-30-B5-G	GLF3021AG	37
				420	630	840					1.32	1111	56C	LF-924-30-B5-G	GLF3024AG	43
					641	854	1281				1.54	1313	140TC	LF-926-30-B7-G	GLF3026BG	60
					641	854	1281				1.54	1313	140TC	LF-926-30-B7-J	GLF3026BJ	60
						881	1322	1763			2.81	2482	180TC	LF-932-30-B9-G	GLF3032CG	100
								1626	2438		3.97	3226	180TC	LF-938-30-B9-G	GLF3038CG	130
44	40	180	238	360							0.64	461	56C	LF-918-40-B5-G	GLF4018AG	30
			340	515							0.66	680	56C	LF-921-40-B5-G	GLF4021AG	37
				521	781						0.99	1030	56C	LF-924-40-B5-G	GLF4024AG	43
				524	786	1049					1.23	1296	56C	LF-926-40-B5-G	GLF4026AG	60
						1074	1611	2148			2.20	2374	140TC	LF-932-40-B7-G	GLF4032BG	100
							1596	2129	3192		3.00	3192	180TC	LF-938-40-B9-G	GLF4038CG	130
35	50	280	370	561							0.58	651	56C	LF-921-50-B5-G	GLF5021AG	38
				621	932	1242					1.00	1242	56C	LF-926-50-B5-G	GLF5026AG	60
29	60	218	288								0.33	288	56C	LF-915-60-B5-G	GLF6015AG	30
		220	290								0.47	413	56C	LF-918-60-B5-G	GLF6018AG	32
		317	418	634							0.50	634	56C	LF-921-60-B5-G	GLF6021AG	37
			473	716	1074						0.82	1166	56C	LF-926-60-B5-G	GLF6026AG	60
					1100	1467	2200				1.54	2255	56C	LF-932-60-B5-G	GLF6032AG	100
					1100	1467	2200				1.54	2255	140TC	LF-932-60-B7-G	GLF6032BG	100

 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

 1000 Series
In-Line Helical

 1000 Series
Helical-Worm

Engineering



900 Series Stock Gear Reducers

Hollow Output Shaft

Quill Type NEMA C-Face Input

Style HF Double Output Shaft

Nominal Output RPM @ 1750 RPM Input	Gear Ratio	Continuous Duty Output Torque (In-Lbs.) Based On 1750 RPM Motor									Max. Hp	Max. Torq.	NEMA Motor Mount	Style Number	Catalog Number	Bore Size	Approx. Shpg. Wgt.
		0.25	0.33	0.5	0.75	1	1.5	2	3	5							
350	5			75	112	149					1.11	165	56C	HF-913-05-B5-H	GHF0513AH	0.625	20
						160	240	320			2.00	320	56C	HF-918-05-B5-H	GHF0518AG	1.000	30
175	10				214	285	428				1.50	428	56C	HF-918-10-B5-H	GHF1018AH	1.000	30
						312	468	624			2.02	630	56C	HF-921-10-B5-H	GHF1021AH	1.125	35
								641	961	1602	5.48	1755	180TC	HF-930-10-B9-H	GHF1030CH	1.938	75
		89	118	179							0.66	225	56C	HF-913-15-B5-H	GHF1513AH	0.625	20
117	15			209	314	419					1.07	448	56C	HF-918-15-B5-H	GHF1518AH	1.000	30
				246	369	492					1.35	664	56C	HF-921-15-B5-H	GHF1521AH	1.125	35
						470	705	939			2.11	992	56C	HF-924-15-B5-H	GHF1524AH	1.250	45
							686	915	1373		4.14	1903	140TC	HF-930-15-B7-H	GHF1530BH	1.938	75
		113	149	226							0.53	239	56C	HF-913-20-B5-H	GHF2013AH	0.625	20
88	20		165	251	376						0.92	461	56C	HF-918-20-B5-H	GHF2018AH	1.000	30
				323	484	645					1.06	684	56C	HF-921-20-B5-H	GHF2021AH	1.125	35
					451	602	902				1.72	1038	56C	HF-924-20-B5-H	GHF2024AH	1.250	45
						609	913	1218			2.15	1308	56C	HF-926-20-B5-H	GHF2026AH	1.438	56
							880	1174	1761		3.31	1955	140TC	HF-930-20-B7-H	GHF2030BH	1.938	75
		148	195								0.42	248	56C	HF-913-30-B5-H	GHF3013AH	0.625	20
58	30		216	327							0.72	470	56C	HF-918-30-B5-H	GHF3018AH	1.000	30
			275	416	624						0.83	691	56C	HF-921-30-B5-H	GHF3021AH	1.125	35
				420	630	840					1.32	1111	56C	HF-924-30-B5-H	GHF3024AH	1.250	45
					641	854	1281				1.54	1313	56C	HF-926-30-B5-H	GHF3026AH	1.438	56
						804	1206	1608			2.47	1978	140TC	HF-930-30-B7-H	GHF3030BH	1.938	75
						881	1322	1763			2.81	2482	140TC	HF-932-30-B7-H	GHF3032BH	1.938	95
		180	238	360							0.64	461	56C	HF-918-40-B5-H	GHF4018AH	1.000	30
44	40		340	515							0.66	680	56C	HF-921-40-B5-H	GHF4021AH	1.125	35
				521	781						0.99	1030	56C	HF-924-40-B5-H	GHF4024AH	1.250	45
				524	786	1049					1.23	1296	56C	HF-926-40-B5-H	GHF4026AH	1.438	56
				524	786	1049					1.23	1296	140TC	HF-926-40-B7-H	GHF4026BH	1.438	56
					794	1059	1589				1.84	1960	140TC	HF-930-40-B7-H	GHF4030BH	1.938	75
						1180	1620	2160			2.20	2374	140TC	HF-932-40-B7-H	GHF4032BH	1.938	95
		177	234								0.33	234	56C	HF-913-50-B5-H	GHF5013AH	0.625	20
35	50	222	294								0.49	436	56C	HF-918-50-B5-H	GHF5018AH	1.000	30
		280	370	561							0.58	651	56C	HF-921-50-B5-H	GHF5021AH	1.125	35
			401	608	912						0.83	1014	56C	HF-924-50-B5-H	GHF5024AH	1.250	45
					850	1134	1701				1.67	1890	56C	HF-930-50-B5-H	GHF5030AH	1.938	75
					958	1278	1917				1.83	2366	56C	HF-932-50-B5-H	GHF5032AH	1.938	95
		220	290								0.47	413	56C	HF-918-60-B5-H	GHF6018AH	1.000	30
29	60	317	418	634							0.50	634	56C	HF-921-60-B5-H	GHF6021AH	1.125	35
			458	693							0.69	958	56C	HF-924-60-B5-H	GHF6024AH	1.250	45
			473	716	1074						0.82	1166	56C	HF-926-60-B5-H	GHF6026AH	1.438	56
					896	1195	1795				1.50	1795	56C	HF-930-60-B5-H	GHF6030AH	1.938	75
					1100	1467	2200				1.54	2255	56C	HF-932-60-B5-H	GHF6032AH	1.938	95

See page 18 for color code torque ratings.



900 Series Flanged Worm Gear Reducers

“Washdown” Quill Type NEMA C-Face Input

BISSC Certified

Style WDF Single Output Shaft

Nominal Output RPM @ 1750 RPM Input	Gear Ratio	Continuous Duty Output Torque (In-Lbs.) Based On 1750 RPM Motor								Max. Hp	Max. Torq.	NEMA Motor Mount	Style Number	Catalog Number	Approx. Shpg. Wgt.
		0.25	0.33	0.5	0.75	1	1.5	2	3						
350	5					160	240	320		2.00	320	56C	WDF-918-05-B5-G	WDGF0518AG	30
175	10		82	125	187					0.90	225	56C	WDF-913-10-B5-G	WDGF1013AG	20
				141	211	282				1.03	290	56C	WDF-915-10-B5-G	WDGF1015AG	25
				141	211	282				1.03	290	140TC	WDF-915-10-B7-G	WDGF1015BG	25
					214	285	428			1.50	428	56C	WDF-918-10-B5-G	WDGF1018AG	30
						312	468	624		2.02	630	56C	WDF-921-10-B5-G	WDGF1021AG	35
						317	475	634		2.73	893	140TC	WDF-924-10-B7-G	WDGF1024BG	40
117	15	89	118	179						0.66	225	56C	WDF-913-15-B5-G	WDGF1513AG	20
			127	193	289					0.81	312	56C	WDF-915-15-B5-G	WDGF1515AG	25
				209	314	419				1.07	448	56C	WDF-918-15-B5-G	WDGF1518AG	30
				246	369	492				1.35	664	56C	WDF-921-15-B5-G	WDGF1521AG	35
						470	705	939		2.11	992	56C	WDF-924-15-B5-G	WDGF1524AG	40
88	20	113	149	226						0.53	239	56C	WDF-913-20-B5-G	WDGF2013AG	20
		128	169	256						0.62	317	56C	WDF-915-20-B5-G	WDGF2015AG	25
			165	251	376					0.92	461	56C	WDF-918-20-B5-G	WDGF2018AG	30
						609	913	1218		2.15	1308	140TC	WDF-926-20-B7-G	WDGF2026BG	55
						924	1232	1848		3.85	2383	140TC	WDF-932-20-B7-F	WDGF2032BG	87
58	30		216	327						0.72	470	56C	WDF-918-30-B5-G	WDGF3018AG	30
			275	416	624					0.83	691	56C	WDF-921-30-B5-G	WDGF3021AG	35
				420	630	840				1.32	1111	56C	WDF-924-30-B5-G	WDGF3024AG	40
					641	854	1281			1.54	1313	56C	WDF-926-30-B5-G	WDGF3026AG	55
						881	1322	1763		2.81	2482	140TC	WDF-932-30-B7-G	WDGF3032BG	87
44	40	208	275							0.38	317	56C	WDF-915-40-B5-G	WDGF4015AG	25
		180	238	360						0.64	461	56C	WDF-918-40-B5-G	WDGF4018AG	30
			340	515						0.66	680	56C	WDF-921-40-B5-G	WDGF4021AG	35
				521	781					0.99	1030	56C	WDF-924-40-B5-G	WDGF4024AG	40
				524	786	1049				1.23	1296	56C	WDF-926-40-B5-G	WDGF4026AG	55
						1074	1611	2148		2.20	2374	140TC	WDF-932-40-B7-G	WDGF4032BG	87
35	50	177	234							0.33	234	56C	WDF-913-50-B5-G	WDGF5013AG	20
		230	303							0.33	303	56C	WDF-915-50-B5-G	WDGF5015AG	25
		280	370	561						0.58	651	56C	WDF-921-50-B5-G	WDGF5021AG	35
			401	608	912					0.83	1014	56C	WDF-924-50-B5-G	WDGF5024AG	40
				621	932	1242				1.00	1242	56C	WDF-926-50-B5-G	WDGF5026AG	55
					958	1278	1917			1.83	2366	140TC	WDF-932-50-B7-G	WDGF5032BG	87
29	60	218	288							0.33	288	56C	WDF-915-60-B5-G	WDGF6015AG	25
		220	290							0.47	413	56C	WDF-918-60-B5-G	WDGF6018AG	30
		317	418	634						0.50	634	56C	WDF-921-60-B5-G	WDGF6021AG	35
			458	693						0.69	958	56C	WDF-924-60-B5-G	WDGF6024AG	40
			473	716	1074					0.82	1166	56C	WDF-926-60-B5-G	WDGF6026AG	55
					1100	1467	2200			1.54	2255	56C	WDF-932-60-B5-G	WDGF6032AG	87

See page 18 for color code torque ratings.



900 Series Stock Stainless Steel Gear Reducers Quill Type NEMA C-Face Input BISSC Certified

900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

Style SSF Single Output Shaft, Left Hand Facing Input Shaft

Nominal Output RPM @ 1750 RPM Input	Gear Ratio	Continuous Duty Output Torque (In-Lbs.) Based On 1750 RPM Motor									Max. Hp	Max. Torq.	NEMA Motor Mount	Style Number	Catalog Number	Ap'x. Shpg. Wgt.
		0.25	0.33	0.5	0.75	1	1.5	2	3	5						
350	5					160	240	320			2.00	320	56C	SSF-918-05-B5-G	SSGF0518AG	30
						160	240	320			2.00	320	140TC	SSF-918-05-B7-G	SSGF0518BG	30
							246	327	491		3.14	514	140TC	SSF-921-05-B7-G	SSGF0521BG	35
								339	508	847	5.43	919	140TC	SSF-926-05-B7-G	SSGF0526BG	65
175	10				214	285	428				1.50	428	56C	SSF-918-10-B5-G	SSGF1018AG	30
					214	285	428				1.50	428	140TC	SSF-918-10-B7-G	SSGF1018BG	30
						312	468	624			2.02	630	140TC	SSF-921-10-B7-G	SSGF1021BG	35
								655	983		3.59	1177	140TC	SSF-926-10-B7-G	SSGF1026BG	65
117	15			209	314	419					1.07	448	56C	SSF-918-15-B5-G	SSGF1518AG	30
				246	369	492					1.35	664	56C	SSF-921-15-B5-G	SSGF1521AG	35
						473	710	947			2.58	1225	140TC	SSF-926-15-B7-G	SSGF1526BG	65
88	20		165	251	376						0.92	461	56C	SSF-918-20-B5-G	SSGF2018AG	30
				323	484	645					1.06	684	56C	SSF-921-20-B5-G	SSGF2021AG	35
						609	913	1218			2.15	1308	140TC	SSF-926-20-B7-G	SSGF2026BG	65
70	25		183	277	416						0.80	444	56C	SSF-918-25-B5-G	SSGF2518AG	30
			250	379	569						0.89	675	56C	SSF-921-25-B5-G	SSGF2521AG	35
					567	756	1134				1.73	1307	140TC	SSF-926-25-B7-G	SSGF2526BG	65
58	30		216	327							0.72	470	56C	SSF-918-30-B5-G	SSGF3018AG	30
			275	416	624						0.83	691	56C	SSF-921-30-B5-G	SSGF3021AG	35
					641	854	1281				1.54	1313	140TC	SSF-926-30-B7-G	SSGF3026BG	65
44	40	180	238	360							0.64	461	56C	SSF-918-40-B5-G	SSGF4018AG	30
			340	515							0.66	680	56C	SSF-921-40-B5-G	SSGF4021AG	35
				524	786	1049					1.23	1296	140TC	SSF-926-40-B7-G	SSGF4026BG	65
35	50	222	294								0.49	436	56C	SSF-918-50-B5-G	SSGF5018AG	30
		280	370	561							0.58	651	56C	SSF-921-50-B5-G	SSGF5021AG	35
				621	932	1242					1.00	1242	56C	SSF-926-50-B5-G	SSGF5026AG	65
29	60	220	290								0.47	413	56C	SSF-918-60-B5-G	SSGF6018AG	30
		317	418	634							0.50	634	56C	SSF-921-60-B5-G	SSGF6021AG	35
			473	716	1074						0.82	1166	56C	SSF-926-60-B5-G	SSGF6026AG	65

See page 25 dimensions.

See page 23 for color code torque ratings.



900 Series Stock Stainless Steel Gear Reducers

Hollow Output Shaft Quill Type NEMA C-Face Input BISSC Certified

 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

 1000 Series
In-Line Helical

 1000 Series
Helical-Worm

Engineering

Style SSHF Double Output Shaft

Nominal Output RPM @ 1750 RPM Input	Gear Ratio	Continuous Duty Output Torque (In-Lbs.) Based On 1750 RPM Motor							Max. Hp	Max. Torq.	NEMA Motor Mount	Style Number	Catalog Number	Output Bore Size	Ap'x. Shpg. Wgt.
		0.25	0.33	0.5	0.75	1	1.5	2							
350	5					160	240	320	2.00	320	56C	SSHF-918-05-B5-H	SSGHF0518AH	1.000	30
175	10				214	285	428		1.50	428	56C	SSHF-918-10-B5-H	SSGHF1018AH	1.000	30
					312	468	624		2.02	630	56C	SSHF-921-10-B5-H	SSGHF1021AH	1.250	38
117	15			209	314	419			1.07	448	56C	SSHF-918-15-B5-H	SSGHF1518AH	1.000	30
				246	369	492			1.35	664	56C	SSHF-921-15-B5-H	SSGHF1521AH	1.250	38
88	20		165	251	376				0.92	461	56C	SSHF-918-20-B5-H	SSGHF2018AH	1.000	30
				323	484	645			1.06	684	56C	SSHF-921-20-B5-H	SSGHF2021AH	1.250	38
						609	913	1218	2.15	1308	56C	SSHF-926-20-B5-H	SSGHF2026AH	1.438	60
58	30		216	327					0.72	470	56C	SSHF-918-30-B5-H	SSGHF3018AH	1.000	30
			275	416	624				0.83	691	56C	SSHF-921-30-B5-H	SSGHF3021AH	1.250	38
					641	854	1281		1.54	1313	56C	SSHF-926-30-B5-H	SSGHF3026AH	1.438	60
44	40	180	238	360					0.64	461	56C	SSHF-918-40-B5-H	SSGHF4018AH	1.000	30
			340	515					0.66	680	56C	SSHF-921-40-B5-H	SSGHF4021AH	1.250	38
				524	786	1049			1.23	1296	56C	SSHF-926-40-B5-H	SSGHF4026AH	1.438	60
				524	786	1049			1.23	1296	140TC	SSHF-926-40-B7-H	SSGHF4026BH	1.438	60
35	50	222	294						0.49	436	56C	SSHF-918-50-B5-H	SSGHF5018AH	1.000	30
		280	370	561					0.58	651	56C	SSHF-921-50-B5-H	SSGHF5021AH	1.250	38
29	60	220	290						0.47	413	56C	SSHF-918-50-B5-H	SSGHF6018AH	1.000	30
		317	418	634					0.50	634	56C	SSHF-921-60-B5-H	SSGHF6021AH	1.250	38
			473	716	1074				0.82	1166	56C	SSHF-926-60-B5-H	SSGHF6026AH	1.438	60

See page 26 dimensions.

NOTE:

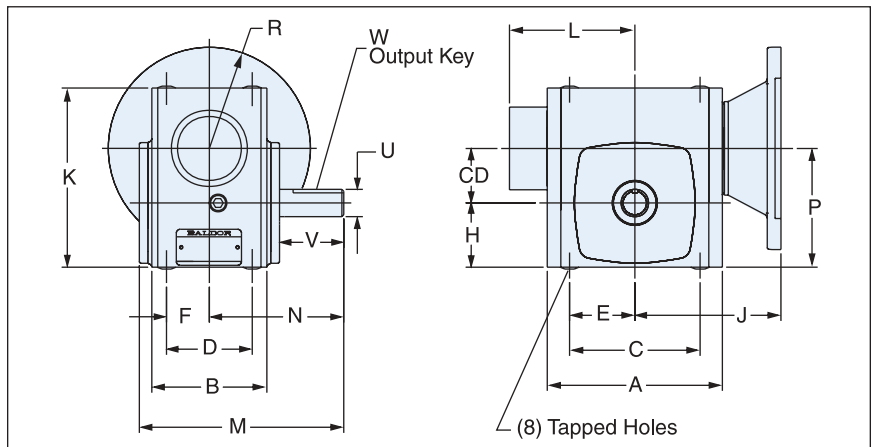
- Service Class I Torque Ratings (1.0 Service Factor)
- Service Class II Torque Ratings (≥ 1.4 Service Factor)
- Service Class III Torque Ratings (≥ 2.0 Service Factor)

$\geq$ is "Equal to or Greater Than"

Style F Basic



900 Series Dimensions Single Reduction Flanged Quill Type



Size	C.D.	A	B	C	D	E	F	H	J			K	L Fan Guard	M	N	P	T	
									42CZ	56C 140TC	180TC						Tap Size	Depth
910	1.00	3.25	2.50	2.63	1.69	1.31	.84	1.31	3.16	8.97	—	3.63	—	4.53	2.88	2.31	0.250-20	0.44
913	1.33	4.25	2.88	3.25	2.00	1.63	1.00	1.72	—	3.94	—	4.65	—	6.03	4.00	3.05	0.312-18	0.62
915	1.54	5.13	3.69	4.19	2.75	2.10	1.38	1.91	—	4.50	—	5.38	—	6.72	4.31	3.45	0.312-18	0.62
918	1.75	5.56	3.69	4.19	2.75	2.09	1.38	2.06	—	4.69	—	5.75	—	6.78	4.31	3.81	0.312-18	0.62
921	2.06	6.06	3.81	5.00	2.88	2.50	1.44	2.28	—	5.07	—	6.38	—	7.22	4.69	4.34	0.375-16	0.75
921G	2.06	5.80	3.81	4.75	3.00	2.38	1.44	2.28	—	4.41	—	6.38	—	7.16	4.69	4.34	0.312-18	0.75
924	2.38	6.44	4.06	5.00	2.88	2.50	1.44	2.50	—	5.25	—	6.94	—	7.75	5.09	4.88	0.375-16	0.75
926	2.62	7.38	4.44	6.38	3.38	3.19	1.69	2.94	—	5.75	6.19	8.00	—	8.50	5.62	5.56	0.375-16	0.75
930	3.00	8.25	5.06	7.00	4.00	3.50	2.00	3.25	—	6.25	6.40	8.88	—	9.87	6.75	6.25	0.375-16	0.75
932	3.25	8.92	5.88	7.50	4.00	3.75	2.00	3.50	—	6.56	7.00	9.38	6.65	10.69	7.06	6.75	0.437-14	0.88
938	3.75	10.00	6.37	8.50	4.75	4.25	2.38	3.88	—	7.07	7.50	10.44	7.34	11.71	7.75	7.63	0.500-13	0.75

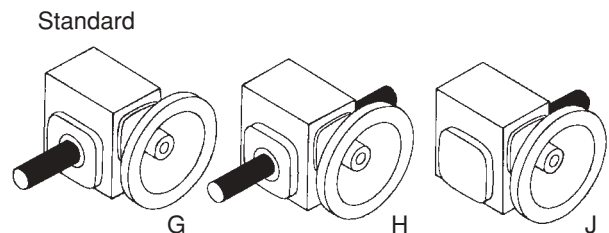
Size	Output Shaft		W-Key		Motor Size Available Per Size Any Ratio	Approximate Weight Lbs.	Approximate Oil Capacity oz.
	U +0.000 -0.001	V	Sq.	Lgth.			
910	.500	1.19	0.125	0.625	B4, B5	6	3.3
913	0.625	2.19	0.188	1.000	B5, B7	13	6.5
915	0.750	2.06	0.188	1.000	B5	21	10.0
918	0.875	2.06	0.188	1.000	B5, B7	28	14.0
921	1.000	2.38	0.250	1.250	B5, B7	34	17.5
921G	1.000	2.38	0.250	1.250	B5, B7	34	17.5
924	1.125	2.66	0.250	1.250	B5, B7, B9	40	26.5
926	1.125	2.78	0.250	2.000	B5, B7, B9	54	32.0
930	1.250	3.64	0.250	2.250	B5, B7, B9	72	65.0
932	1.375	3.44	0.313	2.500	B5, B7, B9	87	67.0
938	1.625	3.81	0.375	2.750	B7, B9, B11	117	88.0

Rating Information Pages 9 - 12

Motor Information				
Worm Bore Size Design.	NEMA Design	Bore +0.002 -0.000	Key Way	R
B4	42CZ *	0.500	0.125 x 0.063	2.16
B5	56C	0.625	0.187 x 0.093	3.31
B7	140TC/180C	0.875	0.187 x 0.093	3.31
B9	180TC/210C	1.125	0.250 x 0.125	4.63
B11	210TC/250UC	1.375	0.312 x 0.156	4.63

* Has Keyway, Standard 42C has Flat

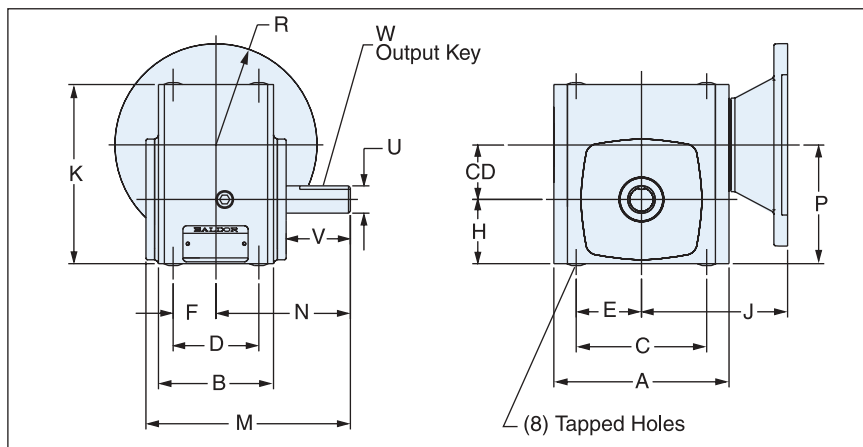
Assembly Types



Stainless Steel Style SSF Basic



900 Series Dimensions Single Reduction Flanged Quill Type



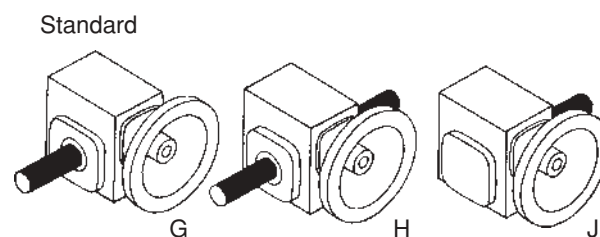
Size	C.D.	A	B	C	D	E	F	H	56C 140TC	J 180TC	K	M	N	P	Tap Size	T Depth
918	1.75	5.56	3.69	4.19	2.75	2.09	1.38	2.06	4.69	—	5.75	6.78	4.31	3.81	0.312-18	0.59
921	2.06	6.06	3.81	5.00	2.88	2.50	1.44	2.28	5.07	—	6.38	7.22	4.69	4.34	0.375-16	0.59
926	2.62	7.38	4.44	6.38	3.38	3.19	1.69	2.94	5.75	6.19	8.00	8.50	5.62	5.56	0.375-16	0.69

Size	Output Shaft U +0.000 -0.001	V	W-Key Sq. Lgth.	Motor Size Available Per Size Any Ratio	Approximate Weight Lbs.	Approximate Oil Capacity oz.
918	0.875	2.06	0.188 1.00	B5, B7	30	14.0
921	1.000	2.38	0.250 1.25	B5, B7	36	17.5
926	1.125	2.78	0.250 2.00	B5, B7, B9	56	32.0

Rating Information Pages 10 - 11

Motor Information				
Worm Bore Size Desig.	NEMA Design	Bore +0.002 -0.000	Key Way	R
B5	56C	0.625	0.187 x 0.093	3.31
B7	140TC/180C	0.875	0.187 x 0.093	3.31
B9	180TC/210C	1.125	0.250 x 0.125	4.63

Assembly Types


 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

 1000 Series
In-Line Helical

 1000 Series
Helical-Worm

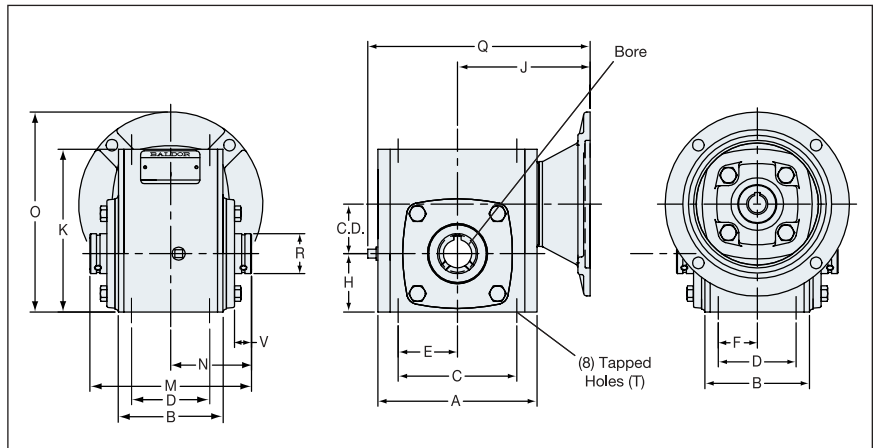
Engineering

Stainless Steel Style SSHF

Hollow Output Shaft Basic



900 Series Dimensions Single Reduction Flanged Quill Type



Size	C.D.	A	B	C	D	E	F	H	J		K	M	N	O		P
									56C 140TC	180TC				56C 140TC	180TC	
918	1.75	5.62	3.69	4.19	2.75	2.09	1.38	2.06	4.69	—	5.75	5.70	2.85	7.06	—	3.81
921	2.06	6.13	3.83	5.00	2.88	2.50	1.44	2.28	5.06	—	6.38	6.44	3.22	7.60	—	4.34
926	2.62	7.45	4.44	6.38	3.38	3.19	1.69	2.94	5.75	6.19	8.00	6.88	3.44	8.81	10.07	5.56

Size	Q		T		Output Shaft				W-Key		Motor Size Available Per Size Any Ratio	Approximate Weight Lbs.	Approximate Oil Capacity oz.
	56C 140TC	180TC			R	Bore		V					
			Tap Size	Depth		Std.	Max.		Sq.	Length			
918	7.85	—	0.312-18	0.59	1.42	1.000	1.125	.60	0.250	1.625	B5, B7	31	14.0
921	8.63	—	0.375-16	0.69	1.73	1.250	1.250	.63	0.250	1.625	B5, B7	36	17.5
926	9.90	10.34	0.375-16	0.69	2.56	1.438	2.000	.63	0.375	1.500	B5, B7, B9	59	32.0

Ratings Information Pages 10 - 11

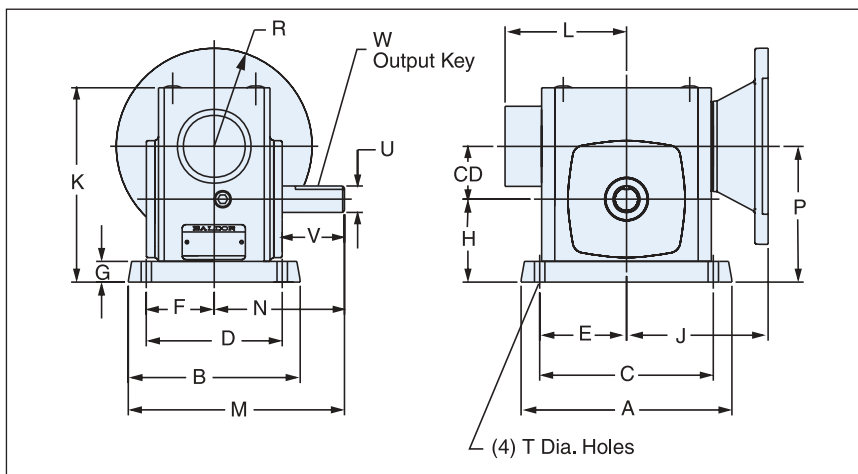
Motor Information				
Worm Bore Size Design.	NEMA Design	Bore +0.002 -0.000	Key Way	R
B5	56C	0.625	0.187 x 0.093	3.31
B7	140TC/180C	0.875	0.187 x 0.093	3.31
B9	180TC/210C	1.125	0.250 x 0.125	4.63

Style F w/Horizontal Base



Shown in Position B

900 Series Dimensions Single Reduction Flanged Quill Type



Size	C.D.	A	B	C	D	E	F	G	H	J			K	L Fan Guard	M	N	P	T
										42CZ	56C 140TC	180TC						
910	1.00	4.63	3.69	3.75	2.88	1.88	1.44	0.44	1.75	3.16	3.97	—	4.06	—	4.72	2.88	2.75	0.343
913	1.33	5.38	4.19	4.38	3.31	2.19	1.66	0.53	2.25	—	3.94	—	5.18	—	6.09	4.00	3.58	0.343
915	1.54	6.44	5.44	5.25	4.31	2.88	2.25	0.69	2.60	—	4.50	—	6.07	—	7.16	4.31	4.14	0.406
918	1.75	7.00	5.69	5.75	4.50	2.88	2.25	0.69	2.75	—	4.69	—	6.44	—	7.16	4.31	4.50	0.406
921	2.06	7.75	5.94	6.38	4.69	3.19	2.34	0.72	3.00	—	5.07	—	7.09	—	7.66	4.69	5.06	0.468
924	2.38	8.50	6.19	7.06	4.88	3.53	2.44	0.75	3.25	—	5.25	—	7.69	—	8.19	5.09	5.63	0.468
926	2.62	9.63	6.66	8.00	5.25	4.00	2.63	0.75	3.69	—	5.75	6.19	8.75	—	8.96	5.63	6.31	0.531
930	3.00	10.21	7.54	8.44	5.88	4.22	2.94	0.69	4.00	—	6.25	6.40	9.63	—	10.52	6.75	7.00	0.468
932	3.25	11.19	7.66	9.50	6.12	4.75	3.06	0.88	4.38	—	6.56	7.00	10.25	6.65	10.89	7.06	7.63	0.531
938	3.75	12.13	8.66	10.38	7.00	5.19	3.50	0.94	4.82	—	7.07	7.50	11.82	7.34	11.25	7.75	8.57	0.593

Size	Output Shaft		W-Key		Motor Size Available Per Size Any Ratio	Approximate Weight Lbs.	Approximate Oil Capacity oz.
	U +0.000 -0.001	V	Sq.	Lgth.			
913	0.625	2.19	0.188	1.00	B5	14	6.5
915	0.750	2.06	0.188	1.00	B5, B7	20	10.0
918	0.875	2.06	0.188	1.00	B5, B7	23	14.0
921	1.000	2.38	0.250	1.25	B5, B7	30	17.5
924	1.125	2.66	0.250	1.25	B5, B7, B9	36	26.5
926	1.125	2.78	0.250	2.00	B5, B7, B9	50	32.0
930	1.250	3.64	0.250	2.25	B5, B7, B9	76	65.0
932	1.375	3.44	0.313	2.50	B5, B7, B9	97	67.0
938	1.625	3.81	0.375	2.75	B7, B9, B11	132	88.0

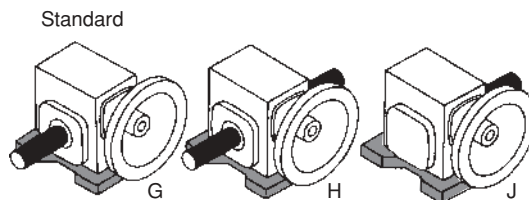
Rating Information Pages 9 - 12 Optional Base Page 80

Motor Information

Worm Bore Size Design.	NEMA Design	Bore +0.002 -0.000	Key Way	R
B4	42CZ *	0.500	0.125 x 0.063	2.16
B5	56C	0.625	0.187 x 0.093	3.31
B7	140TC/180C	0.875	0.187 x 0.093	3.31
B9	180TC/210C	1.125	0.250 x 0.125	4.63
B11	210TC/250UC	1.375	0.312 x 0.156	4.63

* Has Keyway, Standard 42C has Flat

Assembly Types



900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

1000 Series
Helical-Worm

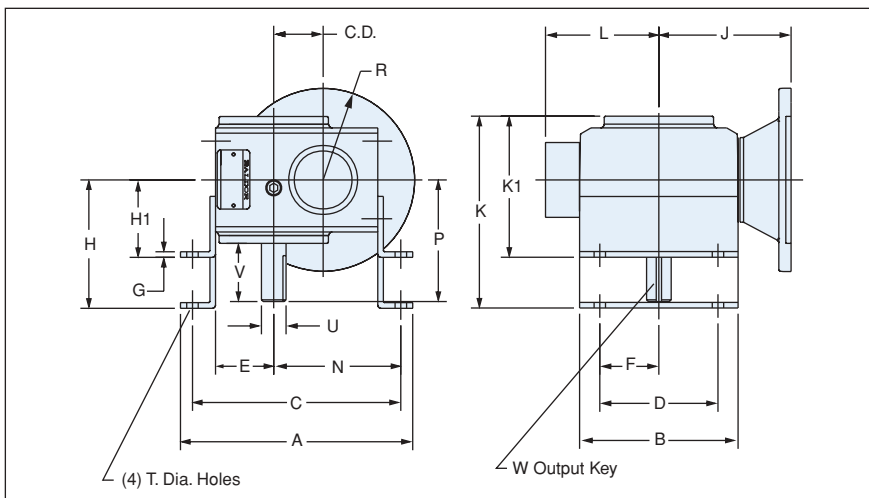
Engineering

Style F w/Vertical Base



Shown in Position E/F

900 Series Dimensions Single Reduction Flanged Quill Type

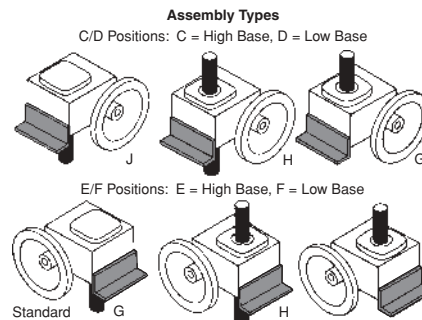


Size	C.D.	A	B	C	D	E	F	G	H	H ₁	J	56C 140TC	180TC	K	K ₁	L Fan Guard	N	P	T
913	1.33	7.09	4.12	6.15	3.25	1.72	1.63	0.25	3.56	2.31	3.94	—	—	5.59	4.34	—	3.68	4.00	0.343
915	1.54	8.06	5.16	7.01	4.00	1.91	2.00	0.25	4.38	3.00	4.50	—	—	6.71	5.33	—	4.28	4.31	0.343
918	1.75	8.43	5.16	7.38	4.00	2.06	2.00	0.25	4.38	3.00	4.69	—	—	6.84	5.47	—	4.50	4.31	0.406
921	2.06	9.50	6.03	8.38	4.88	2.28	2.44	0.31	4.88	3.13	5.07	—	—	7.41	5.66	—	5.09	4.69	0.468
924	2.38	10.06	6.31	8.94	4.88	2.50	2.44	0.31	5.25	3.38	5.25	—	—	7.91	6.03	—	5.44	5.09	0.468
926	2.62	11.68	7.38	10.13	5.75	2.94	2.88	0.31	5.59	3.63	5.75	6.19	8.47	6.50	—	—	6.13	5.63	0.531
930	3.00	12.50	8.25	11.13	6.00	3.25	3.00	0.38	5.88	3.94	6.25	6.40	9.00	7.06	—	—	6.75	6.75	0.531
932	3.25	13.38	9.00	11.88	6.12	3.50	3.06	0.38	6.25	4.69	6.56	7.00	9.88	8.31	6.65	—	7.13	7.06	0.531
938	3.75	15.70	10.00	13.94	8.00	3.97	4.00	0.94	7.00	5.25	7.05	7.50	10.96	9.21	7.34	—	8.32	7.75	0.531

Size	Output Shaft U +0.000 -0.001	V	W-Key Sq. Lgth.	Motor Size Available Per Size Any Ratio	Approximate Weight Lbs.	Approximate Oil Capacity oz.
913	0.625	2.19	0.188 1.00	B5	13	6.5
915	0.750	2.06	0.188 1.00	B5, B7	20	10.0
918	0.875	2.06	0.188 1.00	B5, B7	22	14.0
921	1.000	2.38	0.250 1.25	B5, B7	29	17.5
924	1.125	2.66	0.250 1.25	B5, B7, B9	34	26.5
926	1.125	2.78	0.250 2.00	B5, B7, B9	49	32.0
930	1.250	3.64	0.250 2.25	B5, B7, B9	74	65.0
932	1.375	3.44	0.313 2.50	B5, B7, B9	99	67.0
938	1.625	3.81	0.375 2.75	B7, B9, B11	135	88.0

Rating Information Page 9 - 12 Optional Base Page 80

Motor Information				
Worm Bore Size Desig.	NEMA Design	Bore +0.002 -0.000	Key Way	R
B5	56C	0.625	0.187 x 0.093	3.31
B7	140TC/180C	0.875	0.187 x 0.093	3.31
B9	180TC/210C	1.125	0.250 x 0.125	4.63
B11	210TC/250UC	1.375	0.312 x 0.156	4.63

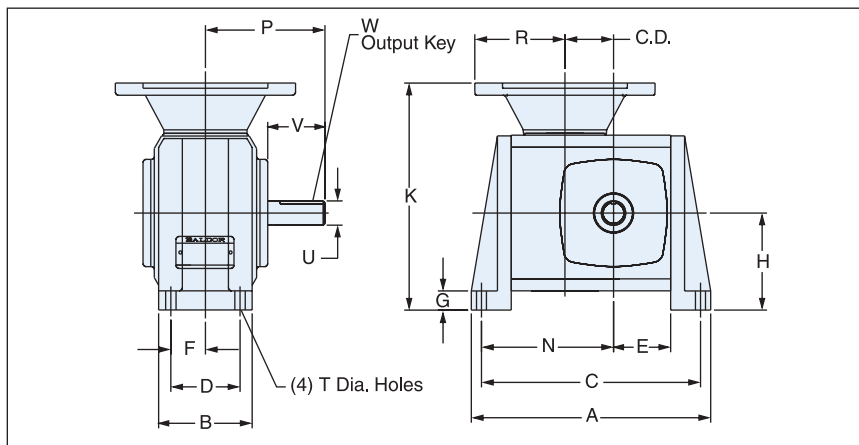


Style F w/J Mount



Shown in Position X

900 Series Dimensions Single Reduction Flanged Quill Type



Size	C.D.	A	B	C	D	E	F	G	H	K		N	P	T
										56C 140TC	180TC			
913	1.33	7.27	2.88	6.41	2.00	1.72	1.00	0.53	2.94	6.88	—	3.81	4.00	0.34
915	1.54	8.26	3.38	7.26	2.50	1.91	1.25	0.69	3.50	8.00	—	4.41	4.31	0.41
918	1.75	8.63	3.38	7.63	2.50	2.06	1.25	0.69	3.50	8.19	—	4.63	4.31	0.41
921	2.06	9.76	3.75	8.62	2.62	2.28	1.31	0.72	3.94	9.01	—	5.21	4.69	0.47
924	2.38	10.32	4.06	9.19	2.88	2.50	1.44	0.75	4.06	9.31	—	5.56	5.09	0.47
926	2.62	11.76	4.44	10.38	3.12	2.94	1.56	0.75	4.75	10.50	10.94	6.25	5.63	0.53
930	3.00	12.64	5.06	11.38	3.88	3.25	1.94	0.75	5.62	11.87	12.02	6.88	6.75	0.53
932*	3.25	14.00	6.00	12.75	4.00	3.50	2.00	0.81	5.69	12.25	12.69	7.57	7.06	0.53

Size	Output Shaft		W-Key		Motor Size Available Per Size Any Ratio	Approximate Weight Lbs.	Approximate Oil Capacity oz.
	U +0.000 -0.001	V	Sq.	Lgth.			
913	0.625	2.19	0.188	1.00	B5	13	6.5
915	0.750	2.06	0.188	1.00	B5, B7	20	10.0
918	0.875	2.06	0.188	1.00	B5, B7	22	14.0
921	1.000	2.38	0.250	1.25	B5, B7	29	17.5
924	1.125	2.66	0.250	1.25	B5, B7, B9	34	26.5
926	1.125	2.78	0.250	2.00	B5, B7, B9	49	32.0
930	1.250	3.64	0.250	2.25	B5, B7, B9	74	65.0
932*	1.375	3.44	0.313	2.50	B5, B7, B9	93	67.0

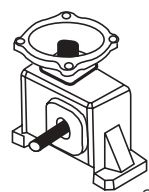
Rating Information Page 9 - 12 Optional Base Page 80

* 932J Base Part No. HA6622A07SP for use less fan. Unit must be derated 33%.

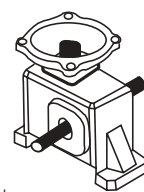
Motor Information

Worm Bore Size Desig.	NEMA Design	Bore +0.002 -0.000	Key Way	R
B5	56C	0.625	0.187 x 0.093	3.31
B7	140TC/180C	0.875	0.187 x 0.093	3.31
B9	180TC/210C	1.125	0.250 x 0.125	4.63

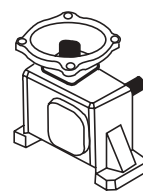
Assembly Types



G Standard



H



J

 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

 1000 Series
In-Line Helical

 1000 Series
Helical-Worm

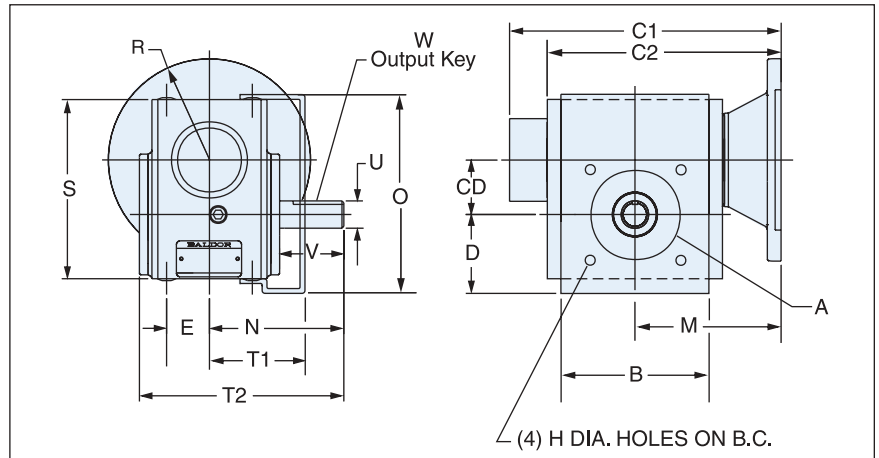
Engineering

Style F w/Output Flange



Shown in Position L

900 Series Dimensions Single Reduction Flanged Quill Type



Size	C.D.	A	B	C ₁		C ₂		D	E	H	B.C.	M		N	O	S	T ₁	T ₂
				56C 140C	180TC	56C 140C	180TC					56C 140C	180TC					
913	1.33	3.63	4.25	—	—	6.06	—	2.43	1.00	.344	5.00	3.94	—	4.00	5.56	4.65	3.00	6.03
915	1.54	3.63	4.75	—	—	7.06	—	2.53	1.38	.344	5.00	4.50	—	4.31	6.19	5.38	3.57	6.72
918	1.75	4.06	4.81	—	—	7.47	—	2.78	1.38	.344	5.87	4.69	—	4.31	6.66	5.75	3.51	6.78
921	2.06	4.50	5.75	—	—	8.10	—	3.14	1.44	.406	6.50	5.07	—	4.69	7.43	6.38	3.75	7.22
924	2.38	5.00	6.13	—	—	8.47	—	3.61	1.44	.406	7.50	5.25	—	5.09	8.24	6.94	3.72	7.75
926	2.62	6.00	7.18	—	—	9.44	9.88	3.94	1.69	.406	8.00	5.75	6.19	5.62	9.25	8.00	4.06	8.50
930	3.00	7.00	8.50	—	—	10.38	10.53	4.14	2.00	.406	9.00	6.25	6.40	6.75	10.02	8.88	4.50	9.87
932	3.25	7.00	8.50	13.21	13.65	11.02	11.11	4.75	2.00	.563	10.00	6.56	7.00	7.06	10.89	9.38	5.25	10.69
938	3.75	8.00	9.54	14.41	14.84	12.07	12.50	5.04	2.38	.563	11.50	7.07	7.50	7.75	11.85	10.44	5.46	11.71

Size	U +0.000 -0.001	Output Shaft		W-Key		Motor Size Available Per Size Any Ratio	Approximate Weight Lbs.	Approximate Oil Capacity oz.
		V		Sq.	Lgth.			
913	0.625	2.19		0.188	1.00	B5	18	6.5
915	0.750	2.06		0.188	1.00	B5, B7	29	10.0
918	0.875	2.06		0.188	1.00	B5, B7	29	14.0
921	1.000	2.38		0.250	1.25	B5, B7	36	17.5
924	1.125	2.66		0.250	1.25	B5, B7, B9	43	26.5
926	1.125	2.78		0.250	2.00	B5, B7, B9	63	32.0
930	1.250	3.64		0.250	2.25	B5, B7, B9	90	65.0
932	1.375	3.44		0.313	2.50	B5, B7, B9	109	67.0
938	1.625	3.81		0.375	2.75	B5, B7, B11	140	88.0

Rating Information Page 9 - 12

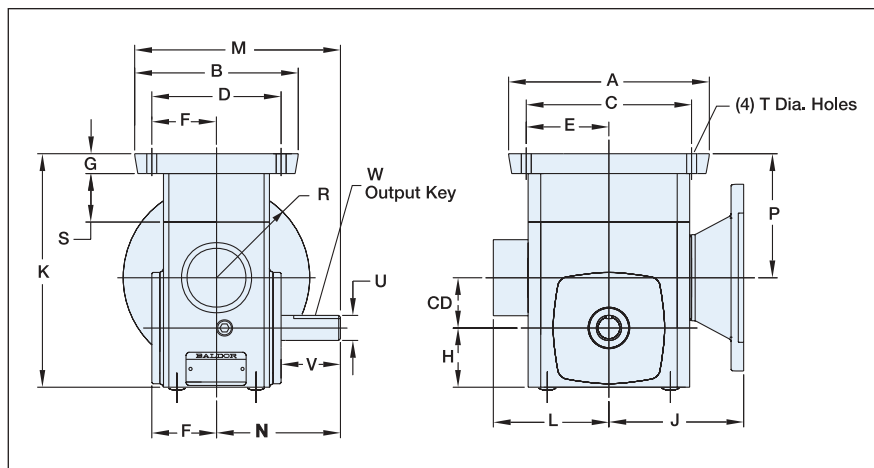
Motor Information				
Worm Bore Size Desig.	NEMA Design	Bore +0.002 -0.000	Key Way	R
B5	56C	0.625	0.187 x 0.093	3.31
B7	140TC/180C	0.875	0.187 x 0.093	3.31
B9	180TC/210C	1.125	0.250 x 0.125	4.63
B11	210TC/250UC	1.375	0.312 x 0.156	4.63

Style F w/Riser Block and Horizontal Base



BRB

900 Series Dimensions Single Reduction Flanged Quill Type



Size	C.D.	A	B	C	D	E	F	G	H	J		K	L Fan Guard	M	N	P	T	S	
										56C 140TC	180TC							56C 140TC	180TC 210TC
913	1.33	5.38	4.19	4.38	3.31	2.19	1.66	0.53	1.72	3.94	—	7.19	—	6.09	4.00	4.13	0.343	2.09	—
915	1.54	7.00	5.69	5.25	4.31	2.88	2.25	0.69	1.91	4.50	—	7.76	—	7.16	4.31	4.31	0.406	1.60	—
918	1.75	7.00	5.69	5.75	4.50	2.88	2.25	0.69	2.06	4.69	—	8.13	—	7.16	4.31	4.32	0.406	1.69	—
921	2.06	7.75	5.94	6.38	4.69	3.19	2.34	0.72	2.28	5.07	—	8.63	—	7.66	4.69	4.29	0.468	1.53	—
924	2.38	8.50	6.19	7.06	4.88	3.53	2.44	0.75	2.50	5.25	—	9.19	—	8.19	5.09	4.31	0.468	1.50	3.00
926	2.62	9.63	6.66	8.00	5.25	4.00	2.63	0.75	2.94	5.75	6.19	10.00	—	8.96	5.63	4.45	0.531	1.25	2.52
930	3.00	10.21	7.54	8.44	5.88	4.22	2.94	0.69	3.25	6.25	6.40	11.76	—	10.52	6.75	5.50	0.468	1.06	2.13
932	3.25	11.19	7.66	9.50	6.12	4.75	3.06	0.88	3.50	6.56	7.00	11.44	6.65	10.89	7.06	4.69	0.531	1.18	2.37

Size	Output Shaft U +0.000 -0.001	V	W-Key Sq.	Lgth.	Motor Size Available Per Size Any Ratio	Approximate Weight Lbs.	Approximate Oil Capacity oz.
913	0.625	2.19	0.188	1.00	B5	14	6.5
915	0.750	2.06	0.188	1.00	B5, B7	20	10.0
918	0.875	2.06	0.188	1.00	B5, B7	23	14.0
921	1.000	2.38	0.250	1.25	B5, B7	30	17.5
924	1.125	2.66	0.250	1.25	B5, B7, B9	36	26.5
926	1.125	2.78	0.250	2.00	B5, B7, B9	50	32.0
930	1.250	3.64	0.250	2.25	B5, B7, B9	74	65.0
932	1.375	3.44	0.313	2.50	B5, B7, B9	85	67.0
938	1.625	3.81	0.375	2.75	B7, B9, B11	126	88.0

Rating Information Page 9 - 12 Optional Base Page 79 - 80

Motor Information				
Worm Bore Size Design.	NEMA Design	Bore +0.002 -0.000	Key Way	R
B4	42CZ *	0.500	0.125 x 0.063	2.16
B5	56C	0.625	0.187 x 0.093	3.31
B7	140TC/180C	0.875	0.187 x 0.093	3.31
B9	180TC/210C	1.125	0.250 x 0.125	4.63
B11	210TC/250UC	1.375	0.312 x 0.156	4.63

* Has Keyway, Standard 42C has Flat

 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

 1000 Series
In-Line Helical

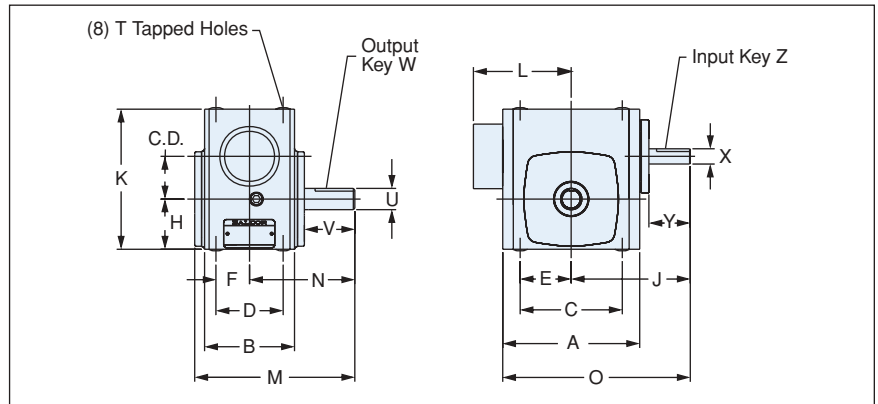
 1000 Series
Helical-Worm

Engineering

Style S Basic



900 Series Dimensions Single Reduction Solid Worm Type

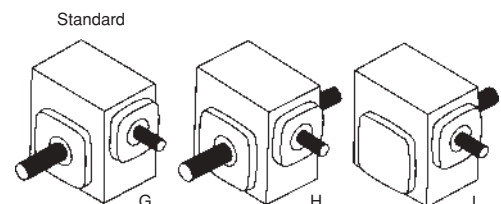


Size	C.D.	A	B	C	D	E	F	H	J	K	L Fan Guard	M	N	O	Tap Size	T Depth
910	1.00	3.25	2.50	2.63	1.69	1.31	0.84	1.31	2.88	3.63	—	4.53	2.88	4.50	0.250-20	0.44
913	1.33	4.25	2.88	3.25	2.00	1.63	1.00	1.72	3.91	4.65	—	6.03	4.00	6.03	0.312-18	0.62
915	1.54	5.13	3.69	4.19	2.75	2.10	1.38	1.91	4.69	5.38	—	6.72	4.31	7.25	0.312-18	0.62
918	1.75	5.56	3.69	4.19	2.75	2.09	1.38	2.06	4.88	5.75	—	6.78	4.31	7.66	0.312-18	0.62
921	2.06	6.06	3.81	5.00	2.88	2.50	1.44	2.28	5.13	6.38	—	7.22	4.69	8.16	0.375-16	0.75
924	2.38	6.44	4.06	5.00	2.88	2.50	1.44	2.50	5.75	6.94	—	7.75	5.09	8.97	0.375-16	0.75
926	2.62	7.38	4.44	6.38	3.38	3.19	1.69	2.94	6.31	8.00	—	8.50	5.62	10.00	0.375-16	0.75
930	3.00	8.25	5.06	7.00	4.00	3.50	2.00	3.25	6.82	8.88	—	9.87	6.75	10.95	0.437-14	0.88
932	3.25	8.92	5.88	7.50	4.00	3.75	2.00	3.50	7.44	9.38	6.65	10.69	7.06	11.90	0.437-14	0.88
938	3.75	10.00	6.37	8.50	4.75	4.25	2.38	3.88	8.38	10.44	7.34	11.71	7.75	15.72	0.500-13	0.75
952	5.16	13.13	7.38	11.00	5.81	5.50	2.91	5.31	10.69	13.75	10.87	13.81	9.06	17.25	0.625-11	1.00
960	6.00	14.50	8.13	12.75	6.38	6.13	3.19	6.50	11.75	16.50	11.56	15.31	10.00	19.00	0.625-11	1.00

Size	Output Shaft				Input Shaft				Approximate Weight Lbs.	Approximate Oil Capacity oz.
	U +0.000 -0.001	V	W-Key		X +0.000 -0.001	Y	Z-Key			
			Sq.	Lgth.			Sq.	Lgth.		
910	0.500	1.19	0.125	0.625	0.375	0.81	0.094	0.375	6	3.3
913	0.625	2.19	0.187	1.00	0.500	1.34	0.125	0.62	11	6.5
915	0.750	2.06	0.187	1.00	0.625	1.69	0.187	1.25	20	10.0
918	0.875	2.06	0.187	1.00	0.625	1.69	0.187	1.25	25	14.0
921	1.000	2.38	0.250	1.25	0.625	1.69	0.187	1.25	30	17.5
924	1.125	2.66	0.250	1.25	0.750	2.12	0.187	1.25	30	26.5
926	1.125	2.78	0.250	2.00	0.750	2.19	0.187	1.38	43	32.0
930	1.250	3.64	0.250	2.25	0.875	2.25	0.187	1.50	59	65.0
932	1.375	3.44	0.312	2.50	0.875	2.50	0.187	1.62	71	67.0
938	1.625	3.81	0.375	2.75	1.000	2.91	0.250	1.50	106	88.0
952	2.000	4.16	0.500	2.94	1.250	3.25	0.250	1.25	198	240.0
960	2.250	4.56	0.500	3.38	1.500	3.88	0.375	3.00	240	400.0

Rating Information Page 9 - 12

Assembly Types

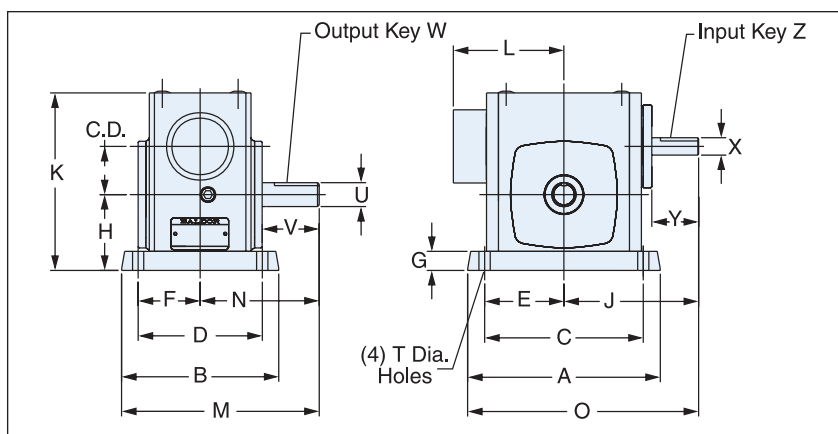


Style S w/Horizontal Base



Shown in Position B

900 Series Dimensions Single Reduction Solid Worm Type

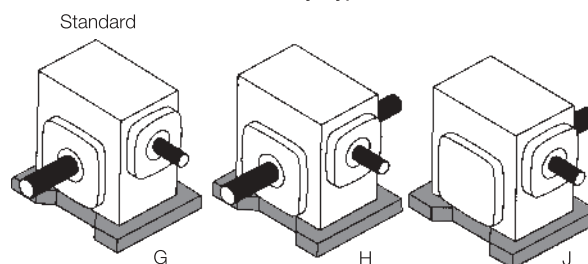


Size	C.D.	A	B	C	D	E	F	G	H	J	K	L Fan Guard	M	N	O	T
910	1.00	4.63	3.69	3.75	2.88	1.88	1.44	0.44	1.75	2.88	4.06	—	4.72	2.88	5.19	0.343
913	1.33	5.38	4.19	4.38	3.31	2.19	1.66	0.53	2.25	3.91	5.18	—	6.09	4.00	6.59	0.343
915	1.54	7.00	5.69	5.25	4.31	2.88	2.25	0.69	2.60	4.69	6.07	—	7.16	4.31	8.19	0.343
918	1.75	7.00	5.69	5.75	4.50	2.88	2.25	0.69	2.75	4.88	6.44	—	7.16	4.31	8.38	0.406
921	2.06	7.75	5.94	6.38	4.69	3.19	2.34	0.72	3.00	5.13	7.09	—	7.66	4.69	9.00	0.468
924	2.38	8.50	6.19	7.06	4.88	3.53	2.44	0.75	3.25	5.75	7.69	—	8.19	5.09	10.00	0.468
926	2.62	9.62	6.66	8.00	5.25	4.00	2.63	0.75	3.69	6.31	8.75	—	8.96	5.63	11.12	0.531
930	3.00	10.21	7.54	8.44	5.88	4.22	2.94	0.69	4.00	6.82	9.63	—	10.52	6.75	11.93	0.468
932	3.25	11.19	7.66	9.50	6.12	4.75	3.06	0.88	4.38	7.44	10.25	6.65	10.89	7.06	13.03	0.531
938	3.75	12.13	8.66	10.38	7.00	5.19	3.50	0.94	4.82	8.38	11.82	7.34	11.25	7.75	14.45	0.531
952	5.16	16.38	10.63	14.13	8.38	7.06	4.19	1.13	6.44	10.69	14.88	7.19	14.38	9.06	18.88	0.781
960	6.00	19.00	12.00	16.50	9.50	8.25	4.75	1.25	7.75	11.75	17.75	7.94	16.00	10.00	21.25	0.906

Size	Output Shaft				Input Shaft				Approximate Weight Lbs.	Approximate Oil Capacity oz.
	U +0.000 -0.001	V	W-Key		X +0.000 -0.001	Y	Z-Key			
			Sq.	Lgth.			Sq.	Lgth.		
910	0.500	1.19	0.125	0.625	0.375	0.81	0.094	0.375	7	3.3
913	0.625	2.19	0.187	1.00	0.500	1.34	0.125	0.62	12	6.5
915	0.750	2.06	0.187	1.00	0.625	1.69	0.187	1.25	20	10.0
918	0.875	2.06	0.187	1.00	0.625	1.69	0.187	1.25	21	14.0
921	1.000	2.38	0.250	1.25	0.625	1.69	0.187	1.25	28	17.5
924	1.125	2.66	0.250	1.25	0.750	2.12	0.187	1.25	33	26.5
926	1.125	2.78	0.250	2.00	0.750	2.19	0.187	1.38	47	32.0
930	1.250	3.64	0.250	2.25	0.875	2.25	0.187	1.50	67	65.0
932	1.375	3.44	0.312	2.50	0.875	2.50	0.187	1.62	80	67.0
938	1.625	3.81	0.375	2.75	1.000	2.91	0.250	1.50	121	88.0
952	2.000	4.16	0.500	2.94	1.250	3.25	0.250	1.25	212	240.0
960	2.250	4.56	0.500	3.38	1.500	3.88	0.375	3.00	260	400.0

Rating Information Page 9 - 12 Optional Base Page 80

Assembly T types



900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

1000 Series
Helical-Worm

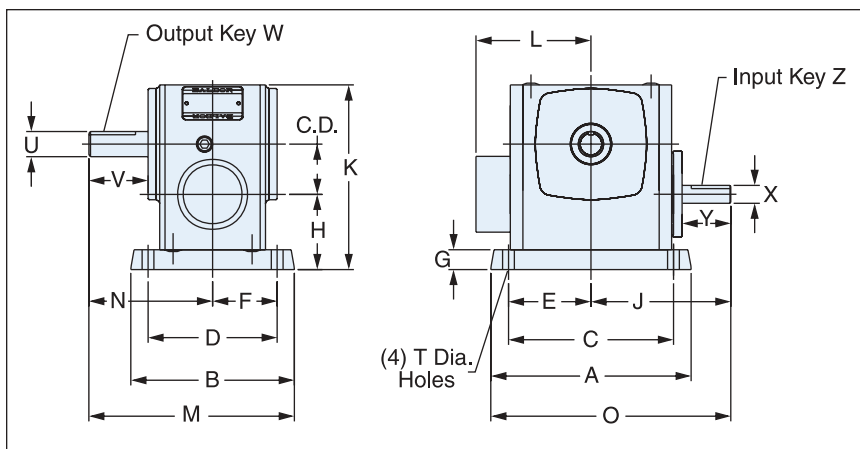
Engineering

Style S w/Horizontal Base



Shown in Position A

900 Series Dimensions Single Reduction Solid Worm Type

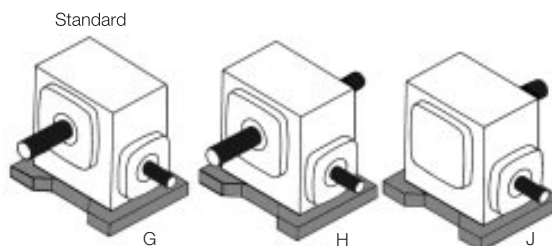


Size	C.D.	A	B	C	D	E	F	G	H	J	K	L Fan Guard	M	N	O	T
910	1.00	4.63	3.69	3.75	2.88	1.88	1.44	0.44	1.75	2.88	4.06	—	4.72	2.88	5.19	0.343
913	1.33	5.38	4.19	4.38	3.31	2.19	1.66	0.53	2.25	3.91	5.18	—	6.09	4.00	6.59	0.343
915	1.54	7.00	5.69	5.25	4.31	2.88	2.25	0.69	2.62	4.69	6.07	—	7.16	4.31	8.19	0.343
918	1.75	7.00	5.69	5.75	4.50	2.88	2.25	0.69	2.75	4.88	6.44	—	7.16	4.31	8.38	0.406
921	2.06	7.75	5.94	6.38	4.69	3.19	2.34	0.72	3.00	5.13	7.09	—	7.66	4.69	9.00	0.468
924	2.38	8.50	6.19	7.06	4.88	3.53	2.44	0.75	3.25	5.75	7.69	—	8.19	5.09	10.00	0.468
926	2.62	9.62	6.66	8.00	5.25	4.00	2.63	0.75	3.69	6.31	8.75	—	8.96	5.63	11.12	0.531
930	3.00	10.21	7.54	8.44	5.88	4.22	2.94	0.69	3.38	6.82	9.63	—	10.52	6.75	11.93	0.468
932	3.25	11.19	7.66	9.50	6.12	4.75	3.06	0.88	4.38	7.44	10.25	6.65	10.89	7.06	13.03	0.531
938	3.75	12.13	8.66	10.38	7.00	5.19	3.50	0.94	4.82	8.38	11.82	7.34	11.25	7.75	14.45	0.531
952	5.16	16.38	10.63	14.13	8.38	7.06	4.19	1.13	4.38	10.69	14.88	7.19	14.38	9.06	18.88	0.781
960	6.00	19.00	12.00	16.50	9.50	8.25	4.75	1.25	5.25	11.75	17.75	7.94	16.00	10.00	21.25	0.906

Size	Output Shaft				X +0.000 -0.001	Input Shaft			Approximate Weight Lbs.	Approximate Oil Capacity oz.
	U +0.000 -0.001	V	W-Key			Y	Z-Key			
			Sq.	Lgth.			Sq.	Lgth.		
910										
913	0.625	2.19	0.187	1.00	0.500	1.34	0.125	0.62	12	6.5
915	0.750	2.06	0.187	1.00	0.625	1.69	0.187	1.25	20	10.0
918	0.875	2.06	0.187	1.00	0.625	1.69	0.187	1.25	21	14.0
921	1.000	2.38	0.250	1.25	0.625	1.69	0.187	1.25	28	17.5
924	1.125	2.66	0.250	1.25	0.750	2.12	0.187	1.25	33	26.5
926	1.125	2.78	0.250	2.00	0.750	2.19	0.187	1.38	47	32.0
930	1.250	3.64	0.250	2.25	0.875	2.25	0.187	1.50	67	65.0
932	1.375	3.44	0.312	2.50	0.875	2.50	0.187	1.62	80	67.0
938	1.625	3.81	0.375	2.75	1.000	2.91	0.250	1.50	121	88.0
952	2.000	4.16	0.500	2.94	1.250	3.25	0.250	1.25	212	240.0
960	2.250	4.56	0.500	3.38	1.500	3.88	0.375	3.00	260	400.0

Rating Information Page 9 - 12 Optional Base Page 80

Assembly Types

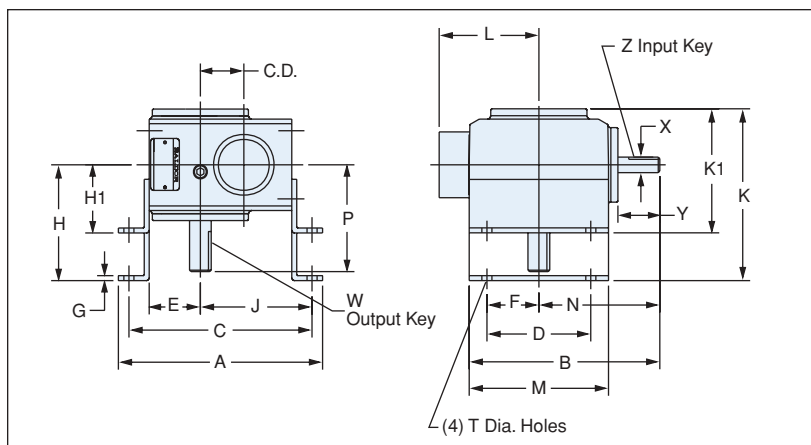


Style S w/Vertical Base



Shown in Position E/F

900 Series Dimensions Single Reduction Solid Worm Type



Size	C.D.	A	B	C	D	E	F	G	H	H ₁	J	K	K ₁	L Fan Guard	M	N	P	T
913	1.33	7.09	4.12	6.15	3.25	1.72	1.63	0.25	3.56	2.31	3.68	5.59	4.34	—	5.97	3.91	4.00	0.343
915	1.54	8.06	5.16	7.01	4.00	1.91	2.00	0.25	4.38	3.00	4.28	6.71	5.33	—	7.25	4.69	4.31	0.343
918	1.75	8.43	5.16	7.38	4.00	2.06	2.00	0.25	4.38	3.00	4.50	6.84	5.47	—	7.46	4.88	4.31	0.406
921	2.06	9.50	6.03	8.38	4.88	2.28	2.44	0.31	4.88	3.13	5.09	7.41	5.66	—	8.14	5.13	4.69	0.468
924	2.38	10.06	6.31	8.94	4.88	2.50	2.44	0.31	5.25	3.38	5.44	7.91	6.03	—	8.91	5.75	5.09	0.468
926	2.62	11.68	7.38	10.13	5.75	2.94	2.88	0.31	5.59	3.63	6.13	8.47	6.50	—	10.00	6.31	5.63	0.531
930	3.00	12.50	8.25	11.13	6.00	3.25	3.00	0.38	5.88	3.94	6.75	9.00	7.06	—	10.88	6.82	6.75	0.531
932	3.25	13.38	9.00	11.88	6.12	3.50	3.06	0.38	6.25	4.69	7.13	9.88	8.31	6.65	11.94	7.44	7.06	0.531
938	3.75	15.70	10.00	13.94	8.00	3.97	4.00	0.94	7.00	5.25	8.32	10.96	9.21	7.34	13.38	8.38	7.75	0.531

Size	Output Shaft				Input Shaft				Approximate Weight Lbs.	Approximate Oil Capacity oz.
	U +0.000 -0.001	V	W-Key Sq.	Lgth.	X +0.000 -0.001	Y	Z-Key Sq.	Lgth.		
913	0.625	2.19	0.187	1.00	0.500	1.34	0.125	0.62	13	6.5
915	0.750	2.06	0.187	1.00	0.625	1.69	0.187	1.25	20	10.0
918	0.875	2.06	0.187	1.00	0.625	1.69	0.187	1.25	22	14.0
921	1.000	2.38	0.250	1.25	0.625	1.69	0.187	1.25	29	17.5
924	1.125	2.66	0.250	1.25	0.750	2.12	0.187	1.25	34	26.5
926	1.125	2.78	0.250	2.00	0.750	2.19	0.187	1.38	49	32.0
930	1.250	3.64	0.250	2.25	0.875	2.25	0.187	1.50	67	65.0
932	1.375	3.44	0.312	2.50	0.875	2.50	0.187	1.62	82	67.0
938	1.625	3.81	0.375	2.75	1.000	2.91	0.250	1.50	124	88.0

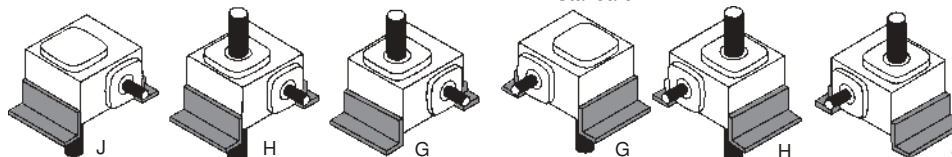
 Rating Information Page 9 - 12
 Optional Base Page 80

Assembly Types

C/D Positions: C = High Base, D = Low Base

E/F Positions: E = High Base, F = Low Base

Standard


 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

 1000 Series
In-Line Helical

 1000 Series
Helical-Worm

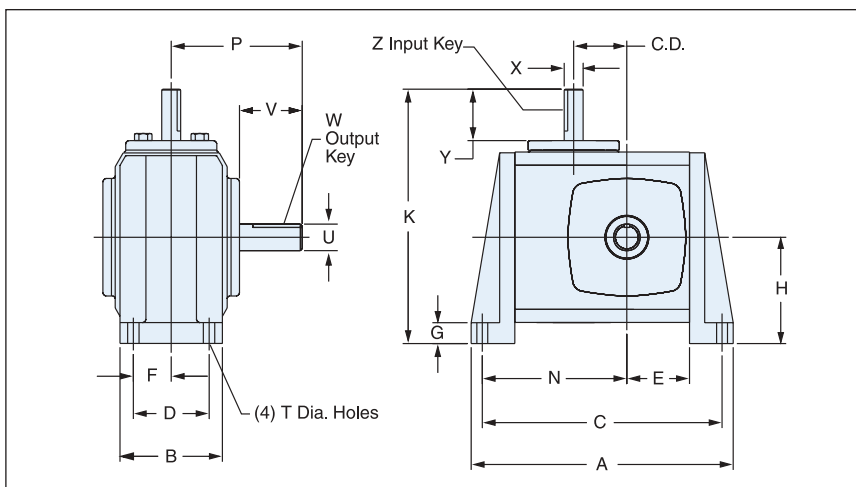
Engineering

Style S w/J Mount

900 Series Dimensions Single Reduction Solid Worm Type



Shown in Position X



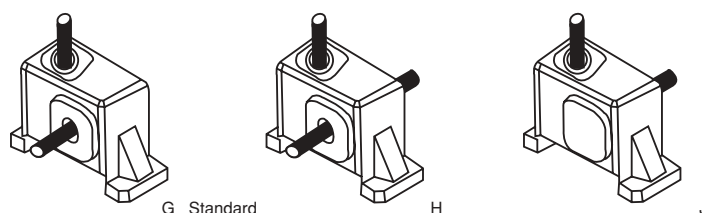
Size	C.D.	A	B	C	D	E	F	G	H	K	N	P	T
913	1.33	7.27	2.88	6.41	2.00	1.72	1.00	0.53	2.94	6.85	3.81	4.00	0.34
915	1.54	8.26	3.38	7.26	2.50	1.91	1.25	0.69	3.50	8.19	4.41	4.31	0.41
918	1.75	8.63	3.38	7.63	2.50	2.06	1.25	0.69	3.50	8.38	4.63	4.31	0.41
921	2.06	9.76	3.75	8.62	2.62	2.28	1.31	0.72	3.94	9.07	5.21	4.69	0.47
924	2.38	10.32	4.06	9.19	2.88	2.50	1.44	0.75	4.06	9.81	5.56	5.09	0.47
926	2.62	11.76	4.44	10.38	3.12	2.94	1.56	0.75	4.75	11.06	6.25	5.63	0.53
930	3.00	12.64	5.06	11.38	3.88	3.25	1.94	0.75	5.62	12.44	6.88	6.75	0.53
932*	3.25	14.00	6.00	12.75	4.00	3.50	2.00	0.81	5.69	13.13	7.57	7.06	0.53

Size	Output Shaft				Input Shaft				Approximate Weight Lbs.	Approximate Oil Capacity oz.
	U +0.000 -0.001	V	W-Key Sq. Lgth.	X +0.000 -0.001	Y	Z-Key Sq. Lgth.				
913	0.625	2.19	0.187 1.00	0.500	1.34	0.125 0.62			13	6.5
915	0.750	2.06	0.187 1.00	0.625	1.69	0.187 1.25			20	10.0
918	0.875	2.06	0.187 1.00	0.625	1.69	0.187 1.25			22	14.0
921	1.000	2.38	0.250 1.25	0.625	1.69	0.187 1.25			29	17.5
924	1.125	2.66	0.250 1.25	0.750	2.12	0.187 1.25			34	26.5
926	1.125	2.78	0.250 2.00	0.750	2.19	0.187 1.38			49	32.0
930	1.250	3.64	0.250 2.25	0.875	2.25	0.187 1.50			67	65.0
932	1.375	3.44	0.312 2.50	0.875	2.50	0.187 1.62			82	67.0

Rating Information Page 9 - 12 Optional Base Page 80

*932J base Part No. HA6622A07SP for use less fan. Unit must be derated 33%.

Assembly Types



G Standard

H

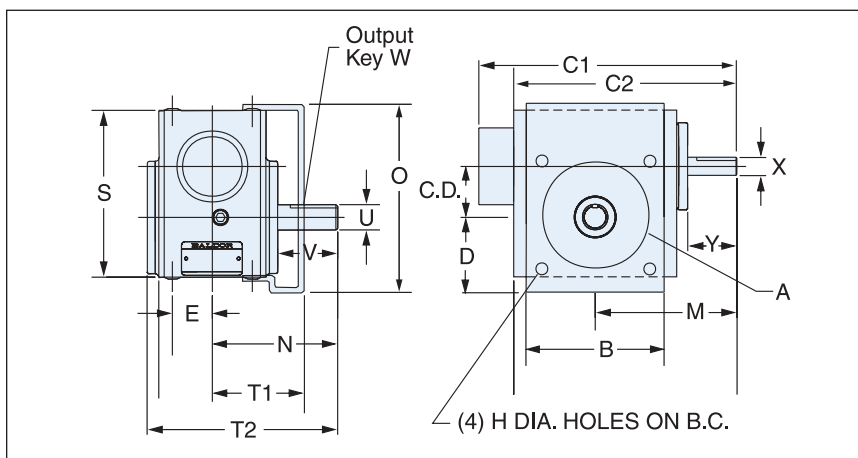
J

Style S w/Output Flange



Shown in Position L

900 Series Dimensions Single Reduction Solid Worm Type



Size	C.D.	A	B	C ₁	C ₂	D	E	H	B.C.	M	N	O	S	T ₁	T ₂
913	1.33	3.63	4.25	—	6.03	2.43	1.00	.344	5.00	3.91	4.00	5.56	4.65	3.00	6.03
915	1.54	3.63	4.75	—	7.25	2.53	1.38	.344	5.00	4.69	4.31	6.19	5.38	3.57	6.72
918	1.75	4.06	4.81	—	7.66	2.78	1.38	.344	5.87	4.88	4.31	6.66	5.75	3.51	6.78
921	2.06	4.50	5.75	—	8.16	3.14	1.44	.406	6.50	5.13	4.69	7.43	6.38	3.75	7.22
924	2.38	5.00	6.13	—	8.97	3.61	1.44	.406	7.50	5.75	5.09	8.24	6.94	3.72	7.75
926	2.62	6.00	7.18	—	10.00	3.94	1.69	.406	8.00	6.31	5.62	9.25	8.00	4.06	8.50
930	3.00	7.00	8.50	—	10.95	4.14	2.00	.406	9.00	6.82	6.75	10.02	8.88	4.50	9.87
932	3.25	7.00	8.50	14.09	11.90	4.75	2.00	.563	10.00	7.44	7.06	10.89	9.38	5.25	10.69
938	3.75	8.00	9.54	15.72	15.72	5.04	2.38	.563	11.50	8.38	7.75	11.85	10.44	5.46	11.71

Size	Output Shaft				Input Shaft				Approximate Weight Lbs.	Approximate Oil Capacity oz.
	U +0.000 -0.001	V	W-Key		X +0.000 -0.001	Y	Z-Key			
			Sq.	Lgth.			Sq.	Lgth.		
913	0.625	2.19	0.187	1.00	0.500	1.34	0.125	0.62	14	6.5
915	0.750	2.06	0.187	1.00	0.625	1.69	0.187	1.25	23	10.0
918	0.875	2.06	0.187	1.00	0.625	1.69	0.187	1.25	23	14.0
921	1.000	2.38	0.250	1.25	0.625	1.69	0.187	1.25	30	17.5
924	1.125	2.66	0.250	1.25	0.750	2.12	0.187	1.25	35	26.5
926	1.125	2.78	0.250	2.00	0.750	2.19	0.187	1.38	51	32.0
930	1.250	3.64	0.250	2.25	0.875	2.25	0.187	1.50	67	65.0
932	1.375	3.44	0.312	2.50	0.875	2.50	0.187	1.62	98	67.0
938	1.625	3.81	0.375	2.75	1.000	2.91	0.250	1.50	119	88.0

Rating Information Page 9 - 12

900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

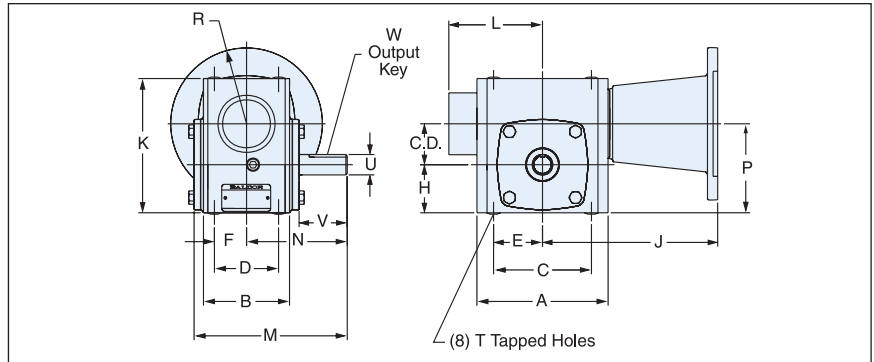
1000 Series
Helical-Worm

Engineering

Style LF Basic



900 Series Dimensions Single Reduction Flanged Coupling Type



Size	C.D.	A	B	C	D	E	F	H	J			K	L	M	N	P
									42CZ	56C 140TC	180TC 210TC 250TC		Fan Guard			
910	1.00	3.25	2.50	2.63	1.69	1.31	0.84	1.31	4.76	5.72	—	3.63	—	4.53	2.88	2.31
913	1.33	4.25	2.88	3.25	2.00	1.63	1.00	1.72	—	6.54	—	4.65	—	6.03	4.00	3.05
915	1.54	5.13	3.69	4.19	2.75	2.10	1.38	1.91	—	7.31	—	5.38	—	6.72	4.31	3.45
918	1.75	5.56	3.69	4.19	2.75	2.09	1.38	2.06	—	7.50	—	5.75	—	6.78	4.31	3.81
921	2.06	6.06	3.81	5.00	2.88	2.50	1.44	2.28	—	7.75	—	6.38	—	7.22	4.69	4.34
924	2.38	6.44	4.06	5.00	2.88	2.50	1.44	2.50	—	7.94	—	6.94	—	7.75	5.09	4.88
926	2.62	7.38	4.44	6.38	3.38	3.19	1.69	2.94	—	9.15	9.96	8.00	—	8.50	5.62	5.56
930	3.00	8.25	5.06	7.00	4.00	3.50	2.00	3.25	—	9.87	10.31	8.88	—	9.87	6.75	6.25
932	3.25	8.92	5.88	7.50	4.00	3.75	2.00	3.50	—	10.28	11.04	11.04	6.65	10.69	7.06	6.75
938	3.75	10.00	6.37	8.50	4.75	4.25	2.38	3.88	—	11.25	11.94	10.88	7.34	11.71	7.75	7.63
952	5.16	13.13	7.38	11.00	5.81	5.50	2.91	5.31	—	—	16.00	13.75	10.87	13.81	9.06	10.50
960	6.00	14.50	8.13	12.75	6.38	6.38	3.19	6.50	—	—	16.69	16.50	11.56	15.31	10.00	12.50

Size	T		U +0.000 -0.001	Output Shaft			Motor Size Available Per Size Any Ratio	Approximate Weight Lbs.	Approximate Oil Capacity oz.
	Tap Size	Depth		V	W-Key				
					Sq.	Lgth.			
910			0.500	1.19	0.125	0.625	B4, B5	9	3.3
913	0.312-18	0.62	0.625	2.19	0.187	1.00	B5, B7	18	6.5
915	0.312-18	0.62	0.750	2.06	0.187	1.00	B5, B7	24	10.0
918	0.312-18	0.62	0.875	2.06	0.187	1.00	B5, B7	26	14.0
921	0.375-16	0.75	1.000	2.38	0.250	1.25	B5, B7	40	17.5
924	0.375-16	0.75	1.125	2.66	0.250	1.25	B5, B7	47	26.5
926	0.375-16	0.75	1.125	2.78	0.250	2.00	B5, B7, B9	52	32.0
930	0.437-14	0.88	1.250	3.64	0.250	2.25	B5, B7, B9	72	65.0
932	0.437-14	0.88	1.375	3.44	0.312	2.50	B5, B7, B9	100	67.0
938	0.500-13	0.75	1.625	3.81	0.375	2.75	B7, B9, B11	118	88.0
952	0.625-11	1.00	2.000	4.16	0.500	2.94	B9, B11, B13	221	240.0
960	0.625-11	1.00	2.250	4.56	0.500	3.38	B9, B11, B13	270	400.0

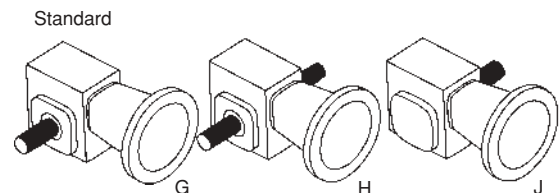
Rating Information Page 9 - 12

Motor Information

Worm Bore Size Desig.	NEMA Design	Bore +0.002 -0.000	Key Way	R
B4	42CZ *	0.500	0.125 x 0.063	2.16
B5	56C	0.625	0.187 x 0.093	3.31
B7	140TC/180C	0.875	0.187 x 0.093	3.31
B9	180TC/210C	1.125	0.250 x 0.125	4.63
B11	210TC/250UC	1.375	0.312 x 0.156	4.63
B13	250TC	1.625	0.375 x 0.188	4.63

* Has Keyway, Standard 42C has Flat

Assembly Types

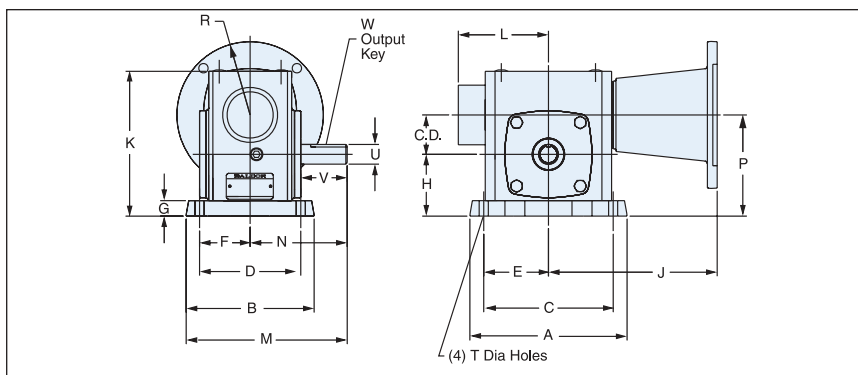


Style LF w/Horizontal Base



Shown in Position B

900 Series Dimensions Single Reduction Flanged Coupling Type



Size	C.D.	A	B	C	D	E	F	G	H	J		180TC 210TC 250TC	K	L Fan Guard	M	N	P
										42CZ	56C 140TC						
910	1.00	4.63	3.69	3.75	2.88	1.88	1.44	0.44	1.75	4.76	5.72	—	4.06	—	4.72	2.88	2.75
913	1.33	5.28	4.19	4.38	3.31	2.19	1.66	0.53	2.25	—	6.54	—	5.18	—	6.09	4.00	3.58
915	1.54	7.00	5.69	5.25	4.31	2.88	2.25	0.69	2.60	—	7.31	—	6.07	—	7.16	4.31	3.45
918	1.75	7.00	5.69	5.75	4.50	2.88	2.25	0.69	2.75	—	7.50	—	6.44	—	7.16	4.31	4.50
921	2.06	7.75	5.94	6.38	4.69	3.19	2.34	0.72	3.00	—	7.75	—	7.09	—	7.66	4.69	5.06
924	2.38	8.50	6.19	7.06	4.88	3.53	2.44	0.75	3.25	—	7.94	—	7.69	—	8.19	5.09	5.63
926	2.62	9.63	6.66	8.00	5.25	4.00	2.63	0.75	3.69	—	9.15	9.96	8.75	—	8.96	5.63	6.31
930	3.00	10.21	7.54	8.44	5.88	4.22	2.94	0.69	4.00	—	9.87	10.31	9.63	—	10.52	6.75	7.00
932	3.25	11.19	7.66	9.50	6.12	4.75	3.06	0.88	4.38	—	10.28	11.04	10.25	6.65	10.89	7.06	7.63
938	3.75	12.13	8.66	10.38	7.00	5.19	3.50	0.94	4.82	—	11.25	11.94	11.82	7.34	11.25	7.75	8.57
952	5.16	16.38	10.63	14.13	8.38	7.06	4.19	1.13	6.44	—	—	16.00	14.88	10.87	14.38	9.06	11.63
960	6.00	19.00	12.00	16.50	9.50	8.25	4.75	1.25	7.75	—	—	16.69	17.75	11.56	16.00	10.00	13.75

Size	T	U +0.000 -0.001	Output Shaft V	W-Key Sq.	Lgth.	Motor Size Available Per Size Any Ratio	Approximate Weight Lbs.	Approximate Capacity oz.
910	0.343	0.500	1.19	0.126	0.625	B4, B5	9	3.3
913	0.343	0.625	2.19	0.187	1.00	B5, B7	19	6.5
915	0.343	0.750	2.06	0.187	1.00	B5, B7	26	10.0
918	0.406	0.875	2.06	0.187	1.00	B5, B7	28	14.0
921	0.468	1.000	2.38	0.250	1.25	B5, B7	36	17.5
924	0.468	1.125	2.66	0.250	1.25	B5, B7	41	26.5
926	0.531	1.125	2.78	0.250	2.00	B5, B7, B9	56	32.0
930	0.468	1.250	3.64	0.250	2.25	B5, B7, B9	80	65.0
932	0.531	1.375	3.44	0.312	2.50	B5, B7, B9	94	67.0
938	0.531	1.625	3.81	0.375	2.75	B7, B9, B11	133	88.0
952	0.781	2.000	4.16	0.500	2.94	B9, B11, B13	242	240.0
960	0.906	2.250	4.56	0.500	3.38	B9, B11, B13	300	400.0

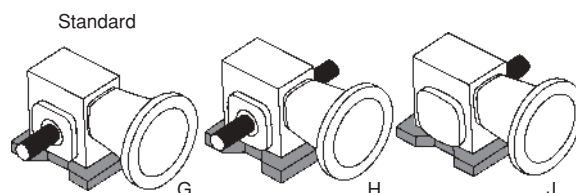
Rating Information Page 9 - 12 Optional Base Page 80

Motor Information

Worm Bore Size Design.	NEMA Design	Bore +0.002 -0.000	Key Way	R
B4	42CZ *	0.500	0.125 x 0.063	2.16
B5	56C	0.625	0.187 x 0.093	3.31
B7	140TC/180C	0.875	0.187 x 0.093	3.31
B9	180TC/210C	1.125	0.250 x 0.125	4.63
B11	210TC/250UC	1.375	0.312 x 0.156	4.63

* Has Keyway, Standard 42C has Flat

Assembly Types


 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

 1000 Series
In-Line Helical

 1000 Series
Helical-Worm

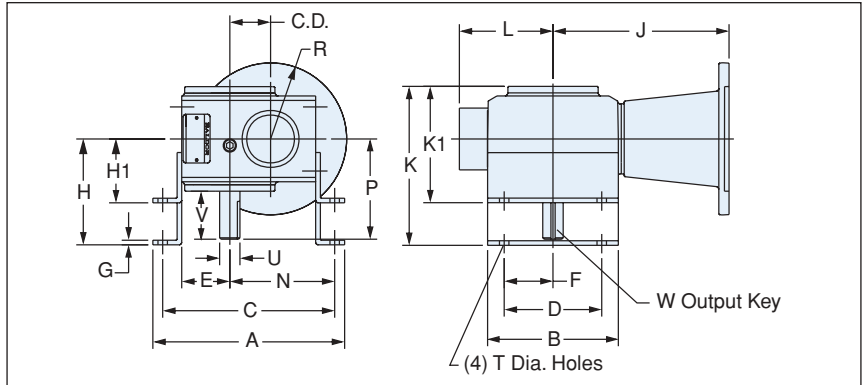
Engineering

Style LF w/Vertical Base



Shown in Position E/F

900 Series Dimensions Single Reduction Flanged Coupling Type



Size	C.D.	A	B	C	D	E	F	G	H	H ₁	42CZ	56C 140TC	180TC 210TC	K	K ₁	L Fan Guard	N	P
910	1.00	6.06	3.22	5.13	2.31	1.38	1.16	0.44	2.94	—	4.76	—	—	4.59	—	—	3.06	2.88
913	1.33	7.09	4.12	6.15	3.25	1.72	1.63	0.25	3.56	2.31	—	6.54	—	5.59	4.34	—	3.68	4.00
915	1.54	8.06	5.16	7.01	4.00	1.91	2.00	0.25	4.38	3.00	—	7.31	—	6.71	5.33	—	4.28	4.31
918	1.75	8.43	5.16	7.38	4.00	2.06	2.00	0.25	4.38	3.00	—	7.50	—	6.84	5.47	—	4.50	4.31
921	2.06	9.50	6.03	8.38	4.88	2.28	2.44	0.31	4.88	3.13	—	7.75	—	7.41	5.66	—	5.09	4.69
924	2.38	10.06	6.31	8.94	4.88	2.50	2.44	0.31	5.25	3.38	—	7.94	—	7.91	6.03	—	5.44	5.09
926	2.62	11.68	7.38	10.13	5.75	2.94	2.88	0.31	5.59	3.63	—	9.15	9.96	8.47	6.50	—	6.13	5.63
930	3.00	12.50	8.25	11.13	6.00	3.25	3.00	0.38	5.88	3.94	—	9.87	10.31	9.00	7.06	—	6.82	6.75
932	3.25	13.38	9.00	11.88	6.12	3.50	3.06	0.38	6.25	4.69	—	10.28	11.04	9.88	8.31	6.65	7.13	7.06
938	3.75	15.70	10.00	13.94	8.00	3.97	4.00	0.94	7.00	5.25	—	11.25	11.94	10.96	9.21	7.34	8.32	7.75
952	5.16	20.50	13.13	18.00	10.00	5.44	5.00	1.13	8.63	6.38	—	—	16.00	13.38	11.31	10.87	10.56	9.06
960	6.00	23.25	14.75	20.88	11.75	6.63	5.88	1.13	9.63	7.31	—	—	16.69	14.94	12.63	11.56	12.19	10.00

Size	T	Output Shaft U +0.000 -0.001	V	W-Key Sq.	Lgth.	Motor Size Available Per Size Any Ratio	Approximate Weight Lbs.	Approximate Oil Capacity oz.
910	0.343	0.500	1.19	0.125	0.625	B4, B5	7	3.3
913	0.343	0.625	2.19	0.187	1.00	B5, B7	20	6.5
915	0.343	0.750	2.06	0.187	1.00	B5, B7	26	10.0
918	0.406	0.875	2.06	0.187	1.00	B5, B7	28	14.0
921	0.468	1.000	2.38	0.250	1.25	B5, B7	36	17.5
924	0.468	1.125	2.66	0.250	1.25	B5, B7	41	26.5
926	0.531	1.125	2.78	0.250	2.00	B5, B7, B9	58	32.0
930	0.531	1.250	3.64	0.250	2.25	B5, B7, B9	80	65.0
932	0.531	1.375	3.44	0.312	2.50	B5, B7, B9	96	67.0
938	0.531	1.625	3.81	0.375	2.75	B7, B9, B11	136	88.0
952	0.906	2.000	4.16	0.500	2.94	B9, B11, B13	260	240.0
960	0.906	2.250	4.56	0.500	3.38	B9, B11, B13	498	400.0

Rating Information Page 9 - 12 Optional Base Page 80

Motor Information

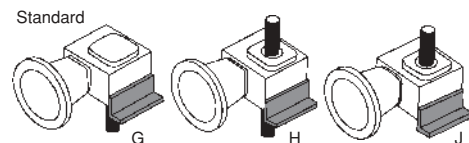
Worm Bore Size Design.	NEMA Design	Bore +0.002 -0.000	Key Way	R
B4	42CZ *	0.500	0.125 x 0.063	2.16
B5	56C	0.625	0.187 x 0.093	3.31
B7	140TC/180C	0.875	0.187 x 0.093	3.31
B9	180TC/210C	1.125	0.250 x 0.125	4.63
B11	210TC/250UC	1.375	0.312 x 0.156	4.63

* Has Keyway, Standard 42CZ has Flat

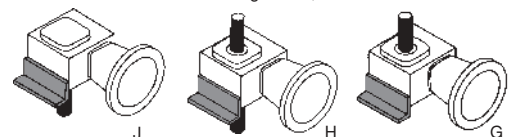
Assembly Types

E/F Positions: E = High Base, F = Low Base

Standard



C/D Positions: C = High Base, D = Low Base

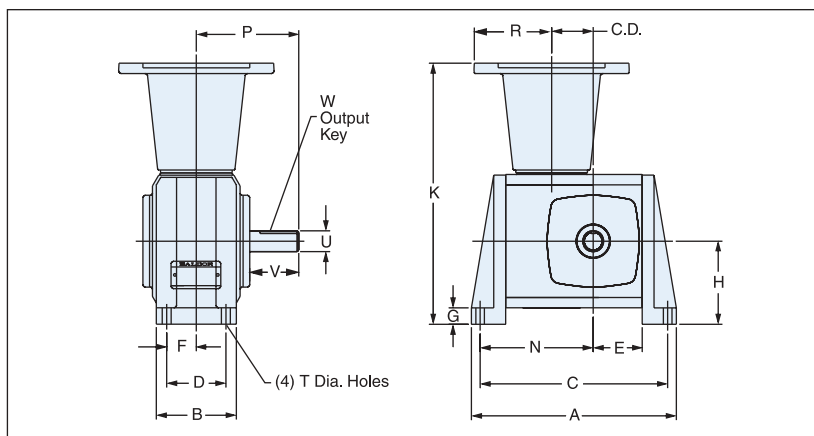


Style LF w/J Mount



Shown in Position X

900 Series Dimensions Single Reduction Flanged Coupling Type



Size	C.D.	A	B	C	D	E	F	G	H	K	N	P	T
913	1.33	7.27	2.88	6.41	2.00	1.72	1.00	0.53	2.94	9.48	3.81	4.00	0.34
915	1.54	8.26	3.38	7.26	2.50	1.91	1.25	0.69	3.50	10.81	4.41	4.31	0.41
918	1.75	8.63	3.38	7.63	2.50	2.06	1.25	0.69	3.50	11.00	4.63	4.31	0.41
921	2.06	9.76	3.75	8.62	2.62	2.28	1.31	0.72	3.94	11.69	5.21	4.69	0.47
924	2.38	10.32	4.06	9.19	2.88	2.50	1.44	0.75	4.06	12.00	5.56	5.09	0.47
926	2.62	11.76	4.44	10.38	3.12	2.94	1.56	0.75	4.75	14.22	6.25	5.63	0.53
930	3.00	12.64	5.06	11.38	3.88	3.25	1.94	0.75	5.62	15.49	6.88	6.75	0.53
932*	3.25	14.00	5.00	12.75	4.00	3.50	2.00	0.81	5.69	15.97	7.57	7.06	0.53

Size	U +0.000 -0.001	Output Shaft V	W-Key		Motor Size Available Per Size Any Ratio	Approximate Weight Lbs.	Approximate Oil Capacity oz.
			Sq.	Lgth.			
913	0.625	2.19	0.187	1.00	B5, B7	20	6.5
915	0.750	2.06	0.187	1.00	B5, B7	28	10.0
918	0.875	2.06	0.187	1.00	B5, B7	28	14.0
921	1.000	2.38	0.250	1.25	B5, B7	36	17.5
924	1.125	2.66	0.250	1.25	B5, B7	41	26.5
926	1.125	2.78	0.250	2.00	B5, B7, B9	58	32.0
930	1.250	3.64	0.250	2.25	B5, B7, B9	80	65.0
932	1.375	3.44	0.312	2.50	B5, B7, B9	96	67.0

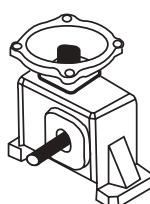
* 932 J Base Part Number HA6622A07SP for use less fan. Unit must be derated 33%.

Rating Information Page 9 - 12

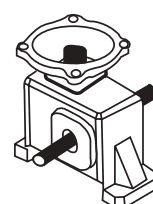
Optional Base Page 80

Motor Information				
Coupling Bore Size Desig.	NEMA Design	Bore +0.002 -0.000	Key Way	R
B5	56C	0.625	0.187 x 0.093	3.31
B7	140TC/180C	0.875	0.187 x 0.093	3.31
B9	180TC/210C	1.125	0.250 x 0.125	4.63

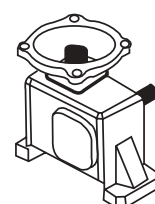
Assembly Types



G Standard



H



J

900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

1000 Series
Helical-Worm

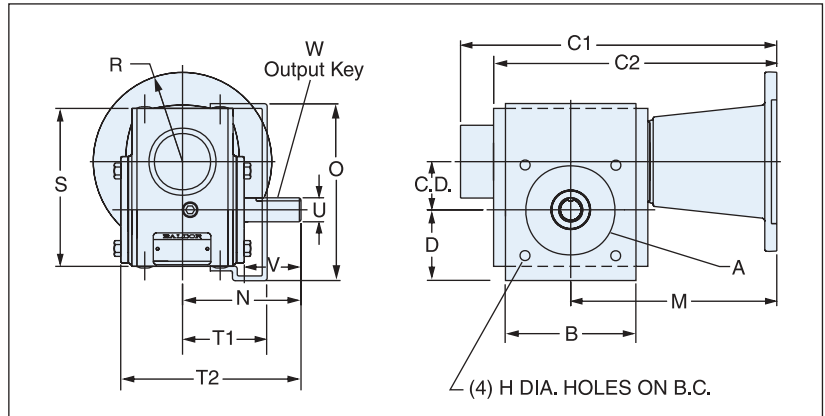
Engineering

Style LF w/Output Flange



Shown in Position L

900 Series Dimensions Single Reduction Flanged Coupling Type



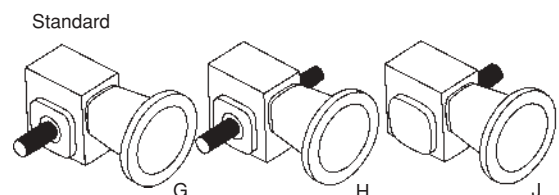
Size	C.D.	A	B	C ₁		C ₂		D	H	B.C.	M		N	O	S	T ₁	T ₂
				56C 140C	180TC	56C 140C	180TC				56C 140C	180TC					
913	1.33	3.63	4.25	—	—	8.67	—	2.43	.344	5.00	6.54	—	4.00	5.56	4.65	3.00	6.03
915	1.54	3.63	4.75	—	—	9.87	—	2.53	.344	5.00	7.31	—	4.31	6.19	5.38	2.54	6.72
918	1.75	4.06	4.81	—	—	10.28	—	2.78	.344	5.87	7.50	—	4.31	6.66	5.75	2.78	6.78
921	2.06	4.50	5.75	—	—	10.78	—	3.14	.406	6.50	7.75	—	4.69	7.43	6.38	3.14	7.22
924	2.38	5.00	6.13	—	—	11.16	—	3.61	.406	7.50	7.94	—	5.09	8.24	6.94	3.61	7.75
926	2.62	6.00	7.18	—	—	13.16	14.42	3.94	.406	8.00	9.47	10.73	5.62	9.25	8.00	4.06	8.50
930	3.00	7.00	8.50	—	—	12.84	13.65	4.14	.406	9.00	9.15	9.96	6.75	10.02	8.88	4.50	9.87
932	3.25	7.00	8.50	16.93	17.64	14.74	15.50	4.75	.563	10.00	10.28	11.04	7.06	10.89	9.38	5.25	10.69
938	3.75	8.00	9.54	18.54	19.28	16.25	16.94	5.04	.563	11.50	11.25	11.94	7.75	11.85	10.44	5.46	11.71

Size	Output Shaft				Motor Size Available Per Size Any Ratio	Approximate Weight Lbs.	Approximate Oil Capacity oz.
	U +0.000 -0.001	V	W-Key				
			Sq.	Lgth.			
913	0.625	2.19	0.188	1.00	B5, B7	23	6.5
915	0.750	2.06	0.188	1.00	B5, B7	34	10.0
918	0.875	2.06	0.188	1.00	B5, B7	34	14.0
921	1.000	2.38	0.250	1.25	B5, B7	42	17.5
924	1.125	2.66	0.250	1.25	B5, B7	49	26.5
926	1.125	2.78	0.250	2.00	B5, B7, B9	69	32.0
930	1.250	3.64	0.250	2.25	B5, B7, B9	82	65.0
932	1.375	3.44	0.313	2.50	B5, B7, B9	118	67.0
938	1.625	3.81	0.375	2.75	B5, B7, B11	150	88.0

Rating Information Page 9 - 12

Motor Information				
Worm Bore Size Desig.	NEMA Design	Bore +0.002 -0.000	Key Way	R
B5	56C	0.625	0.187 x 0.093	3.31
B7	140TC/180C	0.875	0.187 x 0.093	3.31
B9	180TC/210C	1.125	0.250 x 0.125	4.63
B11	210TC/250UC	1.375	0.312 x 0.156	4.63

Assembly Types



Style HF

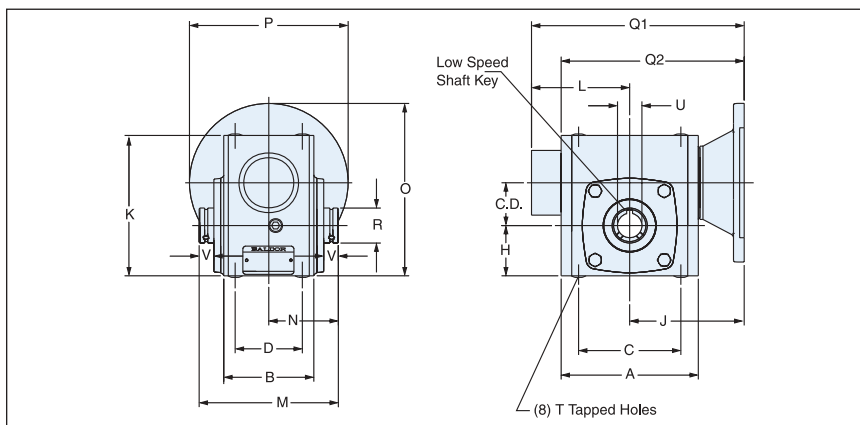
Hollow Output Shaft



Shown in Basic Position

900 Series Dimensions

Single Reduction Flanged Quill Type



Size	C.D.	A	B	C	D	H	56C 140C	180TC	L	56C 140C	180TC	56C 140C	180TC	56C 140C	180TC	56C 140C	180TC	Tap Size	Depth
913	1.33	4.25	2.88	3.25	2.00	1.72	3.94	—	—	6.39	—	—	—	6.10	—	—	—	0.312-18	0.62
918	1.75	5.56	3.69	4.19	2.75	2.06	4.69	—	—	7.12	—	—	—	7.47	—	—	—	0.312-18	0.62
921	2.06	6.06	3.81	5.00	2.88	2.28	5.07	—	—	7.65	—	—	—	8.10	—	—	—	0.375-16	0.75
924	2.38	6.44	4.06	5.00	2.88	2.50	5.25	—	—	8.19	—	—	—	8.47	—	—	—	0.375-16	0.75
926	2.62	7.38	4.44	6.38	3.38	2.94	5.75	6.19	—	8.87	10.19	—	—	9.44	9.88	—	—	0.375-16	0.75
930	3.00	8.25	5.06	7.00	4.00	8.25	6.15	6.59	—	9.50	10.88	—	—	10.27	10.71	—	—	0.437-14	0.88
932	3.25	8.92	5.88	7.50	4.00	3.50	6.56	7.00	6.65	10.06	11.38	13.21	13.65	11.02	11.11	—	—	0.437-14	0.88
938	3.75	10.00	6.37	8.50	4.75	3.88	7.07	7.50	7.34	10.88	12.13	14.41	14.84	12.07	12.57	—	—	0.500-13	0.75

Size	K	M	N	R	Low Speed Shaft – Standard Bore U +0.0015 -0			Available Per Size Any Ratio	Motor Size Approximate Weight Lbs.	Approximate Oil Capacity oz.
					V	Key				
913	4.65	5.00	2.50	1.00	0.625	0.69	0.187 x 0.187 x 1.19	B5	15	6.5
918	5.75	5.70	2.85	1.44	1.000	0.60	0.250 x 0.250 x 1.50	B5, B7	29	14.0
921	6.38	6.44	3.22	1.75	1.250	0.63	0.250 x 0.250 x 1.50	B5, B7	29	17.5
924	6.94	6.31	3.15	2.13	1.437	0.50	0.375 x 0.312 x 1.50	B5, B7, B9	42	26.5
926	8.00	6.88	3.44	2.63	1.437	0.58	0.375 x 0.312 x 1.50	B5, B7, B9	51	32.0
930	8.88	8.13	4.06	2.88	1.937	0.81	0.500 x 0.375 x 2.25	B5, B7, B9	73	65.0
932	9.38	8.50	4.25	2.88	1.937	0.81	0.500 x 0.375 x 2.25	B5, B7, B9	92	67.0
938	10.44	9.50	4.75	2.88	2.188	0.81	0.500 x 0.375 x 2.25	B5, B7, B9, B11	122	88.0

Rating Information Page 9 - 12

Motor Information				
Worm Bore Size Design.	NEMA Design	Bore +0.002 -0.000	Key Way	P
B5	56C	0.625	0.187 x 0.093	3.31
B7	140TC/180C	0.875	0.187 x 0.093	3.31
B9	180TC/210C	1.125	0.250 x 0.125	4.63
B11	210TC/250UC	1.375	0.312 x 0.156	4.63

Hollow Output Shaft Bore Codes									
FRACTION SIZE	OUTPUT BORE CODE	SIZE							
		913	918	921	924	926	930	932	938
1/2	008	O							
5/8	010	S	O						
3/4	012	O	O						
1	100		S	O					
1-1/8	102			S	O				
1-3/16	103			O	O	O			
1-1/4	104			O	S	O	O	O	
1-3/8	106				O	O	O		
1-7/16	107			O	O	S	O	O	O
1-1/2	108					O	O	O	
1-15/16	115					O	S	S	
2-1/8	202						O	O	O
2-3/16	203							S	
Max Bore		0.750	1.125	1.625	1.688	2.000	2.125	2.125	2.188

S = Standard Bore O = Optional Bore

 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

 1000 Series
In-Line Helical

 1000 Series
Helical-Worm

Engineering

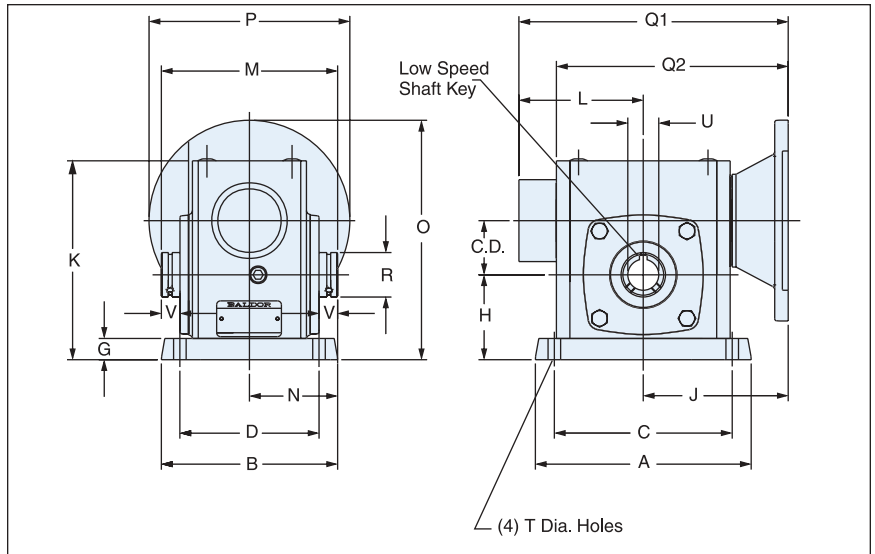
Style HF

Hollow Output Shaft w/Horizontal Base



Shown in Position B

900 Series Dimensions Single Reduction Flanged Quill Type



Size	C.D.	A	B	C	D	G	H	J		L	O		Q ₁		Q ₂		T
								56C 140C	180TC		56C	180TC 140C	56C	180TC 140C	56C	180TC 140C	
913	1.33	5.38	4.19	4.38	3.31	0.53	2.25	3.94	—	—	6.89	—	—	—	6.10	—	0.343
918	1.75	7.00	5.69	5.75	4.50	0.69	2.75	4.69	—	—	7.81	—	—	—	7.47	—	0.406
921	2.06	7.75	5.94	6.38	4.69	0.72	3.00	5.07	—	—	8.37	—	—	—	8.10	—	0.468
924	2.38	8.50	6.19	7.06	4.88	0.75	3.25	5.25	—	—	8.94	—	—	—	8.47	—	0.468
926	2.62	9.63	6.66	8.00	5.25	0.75	3.69	5.75	6.19	—	9.62	10.94	—	—	9.44	9.88	0.531
930	3.00	10.21	7.54	8.44	5.88	0.69	4.00	6.25	6.40	—	10.25	11.57	—	—	10.27	10.71	0.468
932	3.25	11.19	7.66	9.50	6.12	0.88	4.38	6.56	7.00	6.65	10.94	12.26	13.21	13.65	11.02	11.11	0.531
938	3.75	12.13	8.66	10.38	7.00	0.94	4.82	7.07	7.50	7.34	12.00	13.32	14.41	14.84	12.07	12.51	0.593

Size	K	M	N	R	U +.0015 -0	Low Speed Shaft		Motor Size Available Per Size Any Ratio	Approximate Weight Lbs.	Approximate Oil Capacity oz.
						V	Key			
913	5.18	5.00	2.50	1.00	0.625	0.69	0.187 x 0.187 x 1.19	B5	16	6.5
918	6.44	5.70	2.85	1.44	1.000	0.60	0.250 x 0.250 x 1.50	B5, B7	25	14.0
921	7.09	6.44	3.22	1.75	1.250	0.63	0.250 x 0.250 x 1.50	B5, B7	32	17.5
924	7.69	6.31	3.15	2.13	1.437	0.50	0.375 x 0.312 x 1.50	B5, B7, B9	40	26.5
926	8.75	6.88	3.44	2.63	1.437	0.58	0.375 x 0.312 x 1.50	B5, B7, B9	55	32.0
930	9.63	8.13	4.06	2.88	1.937	0.81	0.500 x 0.375 x 2.25	B5, B7, B9	81	65.0
932	10.25	8.50	4.25	2.88	1.937	0.81	0.500 x 0.375 x 2.25	B5, B7, B9	102	67.0
938	11.82	9.50	4.75	2.88	2.188	0.81	0.500 x 0.375 x 2.25	B5, B7, B9, B11	137	88.0

Rating Information Page 9 - 12 Optional Base Page 80

Motor Information

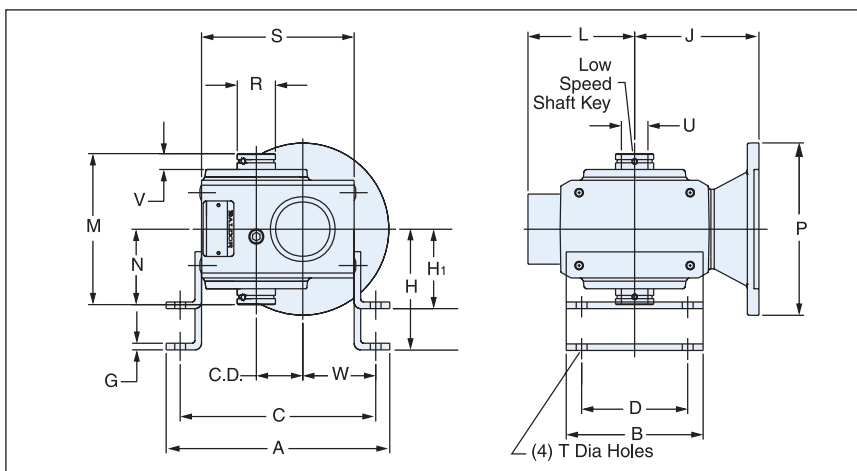
Worm Bore Size Desig.	NEMA Design	Bore +0.002 -0.000	Key Way	P
B5	56C	0.625	0.187 x 0.093	6.62
B7	140TC/180C	0.875	0.187 x 0.093	6.62
B9	180TC/210C	1.125	0.250 x 0.125	9.26
B11	210TC/250UC	1.375	0.312 x 0.156	9.26

Style HF Hollow Output Shaft w/High Vertical Base



Shown in Position E

900 Series Dimensions Single Reduction Flanged Quill Type



Size	C.D.	A	B	C	D	G	H	H1	56C 140C	J 180TC	L	N	R	S	T Dia.
913	1.33	7.09	4.12	6.15	3.25	0.25	3.56	2.31	3.94	—	—	2.50	1.00	4.65	0.343
918	1.75	8.43	5.16	7.37	4.00	0.25	4.38	3.00	4.69	—	—	2.85	1.44	5.75	0.406
921	2.06	9.50	6.03	8.38	4.88	0.31	4.88	3.13	5.07	—	—	3.22	1.75	6.38	0.468
924	2.38	10.06	6.31	8.94	4.88	0.31	5.25	3.38	5.25	—	—	3.15	2.13	6.94	0.468
926	2.62	11.68	7.38	10.12	5.75	0.31	5.60	3.63	5.75	6.19	—	3.44	2.63	8.00	0.531
930	3.00	12.50	8.25	11.13	6.00	0.38	5.88	3.94	6.15	6.59	—	4.06	2.88	2.88	0.531
932	3.25	13.38	9.00	11.88	6.12	0.38	6.25	4.69	6.56	7.00	6.65	4.25	2.88	9.38	0.531
938	3.75	15.70	10.00	13.94	8.00	0.94	5.25	7.00	7.07	7.50	7.34	4.75	2.88	10.44	0.531

Size	M	Low Speed Shaft			W	Motor Size Available Per Size Any Ratio	Approximate Weight Lbs.	Approximate Oil Capacity oz.
		U +0.0015 -0	V	KEY				
913	5.00	0.625	0.69	0.187 x 0.187 x 1.19	2.34	B5	16	6.5
918	5.70	1.000	0.60	0.250 x 0.250 x 1.50	2.75	B5, B7	25	14.0
921	6.44	1.250	0.63	0.250 x 0.250 x 1.50	3.04	B5, B7	32	17.6
924	6.31	1.437	0.50	0.375 x 0.312 x 1.50	3.06	B5, B7, B9	40	26.5
926	6.88	1.437	0.58	0.375 x 0.312 x 1.50	3.50	B5, B7, B9	55	32.0
930	8.13	1.937	0.81	0.500 x 0.375 x 2.25	3.75	B5, B7, B9	81	65.0
932	8.50	1.937	0.81	0.500 x 0.375 x 2.25	3.88	B5, B7, B9	82	67.0
938	9.50	2.188	0.81	0.500 x 0.375 x 2.25	4.51	B5, B7, B9, B11	137	88.0

Rating Information Page 9 - 12

Optional Base Page 80

Motor Information				
Worm Bore Size Design.	NEMA Design	Bore +0.002 -0.000	Key Way	P
B5	56C	0.625	0.187 x 0.093	6.62
B7	140TC	0.875	0.187 x 0.093	6.62
B9	180TC	1.125	0.250 x 0.125	9.26
B11	250TC	1.375	0.312 x 0.156	9.26

 S = Standard Bore
 O = Optional Bore

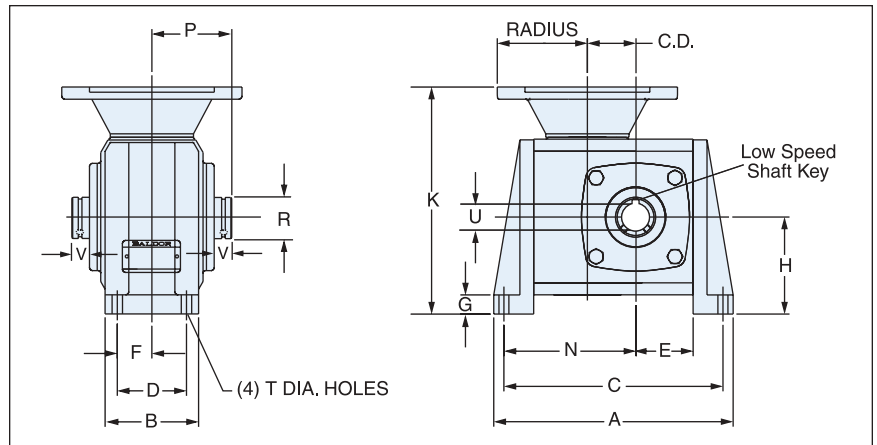
Hollow Output Shaft Bore Codes											
FRACTION SIZE	OUTPUT BORE CODE	SIZE								DECIMAL SIZE	
1/2	008	O								0.500	
5/8	010	S	O							0.625	
3/4	012	O	O							0.750	
1	100		S	O						1.000	
1-1/8	102			S	O					1.125	
1-3/16	103				O	O	O			1.188	
1-1/4	104				O	S	O	O	O	1.250	
1-3/8	106					O	O	O		1.375	
1-7/16	107				O	O	S	O	O	1.438	
1-1/2	108						O	O	O	1.500	
1-15/16	115						O	S	S	1.938	
2-1/8	202							O	O	2.125	
2-3/16	203								S	2.188	
Max Bore		0.750	1.125	1.625	1.688	2.000	2.125	2.125	2.188		

Style HF Hollow Output Shaft w/J Mount



Shown in Position X

900 Series Dimensions Single Reduction Flanged Quill Type



Size	C.D.	A	B	C	D	E	F	G	H	K		N	P	T
										56C 140TC	180TC			
913	1.33	7.27	2.88	6.41	2.00	1.72	1.00	0.53	2.94	6.88	—	3.81	2.50	0.34
918	1.75	8.63	3.38	7.63	2.50	2.06	1.25	0.69	3.50	8.19	—	4.63	2.85	0.41
921	2.06	9.76	3.75	8.62	2.62	2.28	1.31	0.72	3.94	9.01	—	5.21	3.22	0.47
924	2.38	10.32	4.06	9.19	2.88	2.50	1.44	0.75	4.06	9.31	—	5.56	3.15	0.47
926	2.62	11.76	4.44	10.38	3.12	2.94	1.56	0.75	4.75	10.50	10.94	6.25	3.44	0.53
932*	3.25	14.00	6.00	12.75	4.00	3.50	2.00	0.81	5.69	12.25	12.69	7.57	4.25	0.53

Size	R	Low Speed Shaft			Motor Size Available Per Size Any Ratio	Approximate Weight (lbs.)	Approximate Oil Capacity (oz.)
		U +0.0015 -0	V	Key			
913	1.00	0.625	0.69	0.187 x 0.187 x 1.19	B5	17	6.5
918	1.44	1.000	0.60	0.250 x 0.250 x 1.50	B5, B7	26	14.0
921	1.75	1.250	0.63	0.250 x 0.250 x 1.50	B5, B7	32	17.5
924	2.13	1.437	0.50	0.375 x 0.312 x 1.50	B5, B7, B9	40	26.5
926	2.63	1.437	0.58	0.375 x 0.312 x 1.50	B5, B7, B9	57	32.0
932	2.88	1.937	0.81	0.500 x 0.375 x 2.25	B5, B7, B9	97	67.0

* 932J Base Part No. HA6622A07SP for use less fan. Unit must be derated 33%.
Rating Information Page 9 - 12 Optional Base Page 80

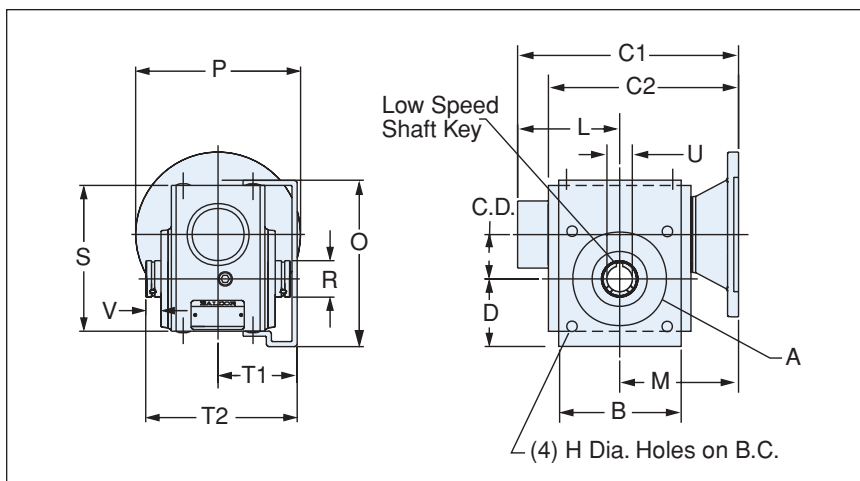
Motor Information				
Worm Bore Size Desig.	NEMA Design	Bore +0.002 -0.000	Key Way	Radius
B5	56C	0.625	0.187 x 0.093	3.31
B7	140TC/180C	0.875	0.187 x 0.093	3.31
B9	180TC/210C	1.125	0.250 x 0.125	4.63

Style HF **Hollow Output Shaft** **w/Output Flange**



Shown in Position L

900 Series Dimensions **Single Reduction Flanged Quill Type**



Size	C.D.	A	B	BC	C ₁		C ₂		D	H	M		O	R
					56C 140C	180TC 140C	56C	180TC			56C	180TC		
913	1.33	3.63	4.25	5.00	—	—	6.10	—	2.43	0.344	3.94	—	5.56	1.00
918	1.75	4.06	4.81	5.85	—	—	7.47	—	2.78	0.344	4.69	—	6.66	1.44
921	2.06	4.40	5.75	6.50	—	—	8.10	—	3.15	0.406	5.07	—	7.43	1.75
924	2.38	5.00	6.13	7.50	—	—	8.47	—	3.61	0.406	5.25	—	8.24	2.13
926	2.62	6.00	7.18	8.00	—	—	9.44	9.88	3.94	0.406	5.75	6.19	9.25	2.63
930	3.00	7.00	8.50	9.00	—	—	10.27	10.71	4.14	0.406	6.15	6.59	10.02	2.88
932	3.25	7.00	8.50	10.00	13.21	13.65	11.02	11.11	4.75	0.563	6.56	7.00	10.89	2.88
938	3.75	8.00	9.54	11.50	14.41	14.84	12.07	12.57	5.04	0.563	7.07	7.50	11.85	2.88

Size	S	T ₁	T ₂	U +0.0015 -0	V	Key	Motor Size Available Per Size Any Ratio	Approximate Weight Lbs.	Approximate Oil Capacity oz.
913	4.65	3.00	5.00	0.625	0.69	0.187 x 0.187 x 1.19	B5	18	6.5
918	5.75	3.51	5.70	1.000	0.60	0.250 x 0.250 x 1.50	B5, B7	26	14.0
921	6.38	3.75	6.44	1.250	0.63	0.250 x 0.250 x 1.50	B5, B7	34	17.5
924	6.94	3.72	6.31	1.437	0.50	0.375 x 0.312 x 1.50	B5, B7, B9	41	26.5
926	8.00	4.06	6.88	1.437	0.58	0.375 x 0.312 x 1.50	B5, B7, B9	59	32.0
930	8.88	4.50	8.13	1.937	0.81	0.500 x 0.375 x 2.25	B5, B7, B9	76	65.0
932	9.38	5.25	8.50	1.937	0.81	0.500 x 0.375 x 2.25	B5, B7, B9	95	67.0
938	10.49	5.46	9.50	2.188	0.81	0.500 x 0.375 x 2.25	B5, B7, B9, B11	125	88.0

Rating Information Page 9 - 12

Motor Information				
Worm Bore Size Design.	NEMA Design	Bore +0.002 -0.000	Key Way	P
B5	56C	0.625	0.187 x 0.093	6.62
B7	140TC/180C	0.875	0.187 x 0.093	6.62
B9	180TC/210C	1.125	0.250 x 0.125	9.26
B11	250TC	1.375	0.312 x 0.156	9.26

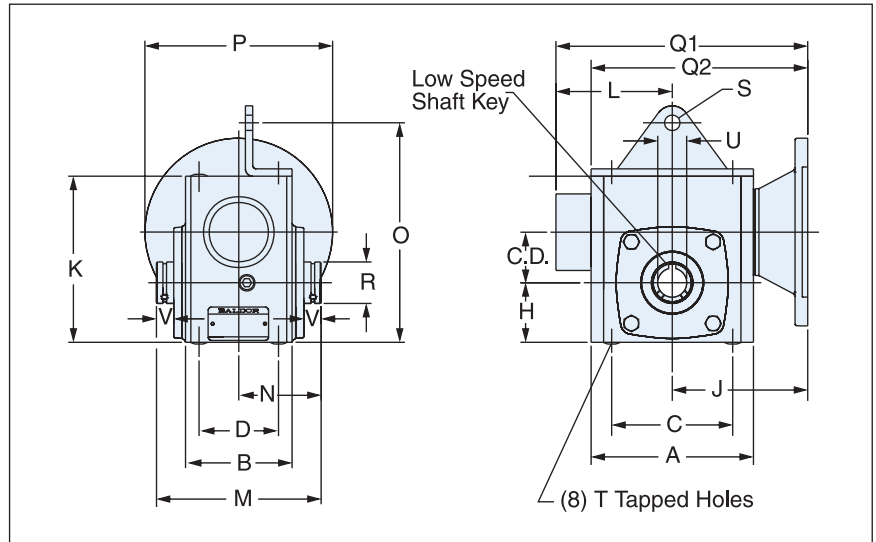
Hollow Output Shaft Bore Codes									
FRACTION SIZE	OUTPUT BORE CODE	SIZE							DECIMAL SIZE
1/2	008	O							0.500
5/8	010	S	O						0.625
3/4	012	O	O						0.750
1	100	S	O						1.000
1-1/8	102		S	O					1.125
1-3/16	103		O	O	O				1.188
1-1/4	104		O	S	O	O	O		1.250
1-3/8	106			O	O	O			1.375
1-7/16	107			O	O	S	O	O	1.438
1-1/2	108				O	O	O		1.500
1-15/16	115				O	S	S		1.938
2-1/8	202					O	O	O	2.125
2-3/16	203						S		2.188
Max Bore		0.750	1.125	1.625	1.688	2.000	2.125	2.125	2.188

S = Standard Bore O = Optional Bore

Style HF Hollow Output Shaft w/Torque Arm Mounting Bracket



900 Series Dimensions Single Reduction Flanged Quill Type



Size	C.D.	A	B	C	D	H	56C 140C	J 180TC	L	S	O	56C 140C	Q1 180TC	56C 140C	Q2 180TC	R	T Tap Size	Depth
913	1.33	4.25	2.88	3.25	2.00	1.72	3.94	—	—	0.53	5.87	—	—	6.10	—	1.00	0.156-18	0.62
918	1.75	5.56	3.69	4.19	2.75	2.06	4.69	—	—	0.53	7.12	—	—	7.47	—	1.44	0.156-18	0.62
921	2.06	6.06	3.81	5.00	2.88	2.28	5.07	—	—	0.53	8.35	—	—	8.10	—	1.75	0.375-16	0.75
924	2.38	6.44	4.06	5.00	2.88	2.50	5.25	—	—	0.53	8.91	—	—	8.47	—	2.13	0.375-16	0.75
926	2.62	7.38	4.44	6.38	3.38	2.94	5.75	6.19	—	0.53	10.38	—	—	9.44	9.88	2.63	0.375-16	0.75
930	3.00	8.25	5.06	7.00	4.00	3.25	6.25	6.40	—	0.53	11.50	—	—	10.27	10.71	2.88	0.375-16	0.75
932	3.25	8.92	5.88	7.50	4.00	3.50	6.56	7.00	6.65	0.53	12.57	13.21	13.65	11.02	11.11	2.88	0.437-14	0.88
938	3.75	10.00	6.37	8.50	4.75	3.88	7.07	7.50	7.34	0.53	13.44	14.41	14.84	12.07	12.57	2.88	0.500-13	0.75

Size	K	M	N	Low Speed Shaft			Motor Size Available Per Size Any Ratio	Approximate Weight Lbs.	Approximate Oil Capacity oz.
				U +0.0015 -0	V	Key			
913	4.65	5.00	2.50	0.625	0.69	0.187 x 3.062 x 1.19	B5	15	6.5
918	5.75	5.70	2.85	1.000	0.60	0.250 x 0.250 x 1.50	B5, B7	24	14.0
921	6.38	6.44	3.22	1.250	0.63	0.250 x 0.250 x 1.50	B5, B7	30	17.5
924	6.94	6.31	3.15	1.437	0.50	0.375 x 0.312 x 1.50	B5, B7, B9	37	26.5
926	8.00	6.88	3.44	1.437	0.58	0.375 x 0.312 x 1.50	B5, B7, B9	52	32.0
930	8.88	8.13	4.06	1.937	0.81	0.500 x 0.375 x 2.25	B5, B7, B9	73	65.0
932	9.38	8.50	4.25	1.937	0.81	0.500 x 0.375 x 2.25	B5, B7, B9	87	67.0
938	10.44	9.50	4.75	2.188	0.81	0.500 x 0.375 x 2.25	B5, B7, B9, B11	123	88.0

Rating Information Page 9 - 12 Optional Base Page 77 - 81 Optional Torque Arm Page 81

Motor Information				
Worm Bore Size Design.	NEMA Design	Bore +0.002 -0.000	Key Way	P
B5	56C	0.625	0.187 x 0.093	6.62
B7	140TC/180C	0.875	0.187 x 0.093	6.62
B9	180TC/210C	1.125	0.250 x 0.125	9.26
B11	250TC	1.375	0.312 x 0.156	9.26

Style HF

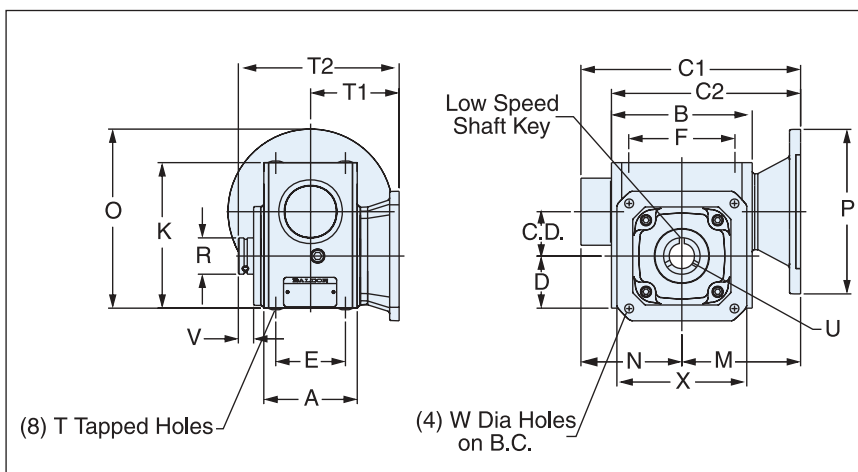
Hollow Output Shaft Position V/W



(Position W Shown)
 Position V has flange on right hand side.

900 Series Dimensions

Single Reduction Flanged Quill Type



Size	C.D.	A	B	C ₁		C ₂		D	E	F	T Tap Size	Depth	M		N	O	
				56C	180TC 140C	56C	180TC 140C						56C 140TC	180TC		56C 140TC	180TC
918	1.75	3.69	5.56	—	—	7.47	—	2.06	2.75	4.19	0.312-18	.62	4.69	—	—	7.12	—
921	2.06	3.81	6.06	—	—	8.10	—	2.28	2.88	5.00	0.375-16	.75	5.07	—	—	7.65	—
924	2.38	4.06	6.44	—	—	8.47	—	2.50	2.88	5.00	0.375-16	.75	5.25	—	—	8.19	—
926	2.62	4.44	7.38	—	—	9.44	9.88	2.94	3.38	6.38	0.375-16	.75	5.75	6.19	—	8.87	10.19
932	3.25	5.88	8.92	13.21	13.65	—	—	3.50	4.00	7.50	0.437-14	.88	6.56	7.00	6.65	10.06	11.38

Size	R	K	T ₁	T ₂	U +.0015 -0	V	W	B.C.	X	Low Speed Shaft Key
918	1.44	5.75	3.50	6.35	1.000	.60	.35	5.88	5.12	0.250 x 0.250 x 1.50
921	1.75	6.38	3.75	6.69	1.250	.63	.41	6.50	5.75	0.250 x 0.250 x 1.50
924	2.13	6.94	3.97	6.90	1.437	.50	.41	7.50	6.75	0.375 x 0.312 x 1.50
926	2.63	8.00	4.05	7.29	1.437	.58	.41	8.00	7.25	0.375 x 0.312 x 1.50
932	2.88	9.38	5.25	9.50	1.937	.81	.57	10.00	9.00	0.500 x 0.375 x 2.25

Rating Information Page 9 - 12

Size	Motor Size Available Per Size Any Ratio	Approximate Weight Lbs.	Approximate Oil Capacity oz.
918	B5, B7	23	14.0
921	B5, B7	29	17.5
924	B5, B7, B9	36	26.5
926	B5, B7, B9	51	32.0
932	B5, B7, B9	82	67.0

Motor Information

Worm Bore Size Desig.	NEMA Design	Bore +.0002 -.0000	Key Way	P
B5	56C	0.625	0.187 x 0.093	6.62
B7	140TC	0.875	0.187 x 0.093	6.62
B9	180TC	1.125	0.250 x 0.125	9.26

Hollow Output Shaft Bore Codes										
FRACTION SIZE	OUTPUT BORE CODE	SIZE								DECIMAL SIZE
		913	918	921	924	926	930	932	938	
1/2	008	O								0.500
5/8	010	S	O							0.625
3/4	012	O	O							0.750
1	100		S	O						1.000
1-1/8	102			S	O					1.125
1-3/16	103			O	O	O				1.188
1-1/4	104			O	S	O	O	O		1.250
1-3/8	106				O	O	O			1.375
1-7/16	107			O	O	S	O	O	O	1.438
1-1/2	108					O	O	O		1.500
1-15/16	115					O	S	S		1.938
2-1/8	202						O	O	O	2.125
2-3/16	203							S		2.188
Max Bore		0.750	1.125	1.625	1.688	2.000	2.125	2.125	2.188	

S = Standard Bore O = Optional Bore

900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

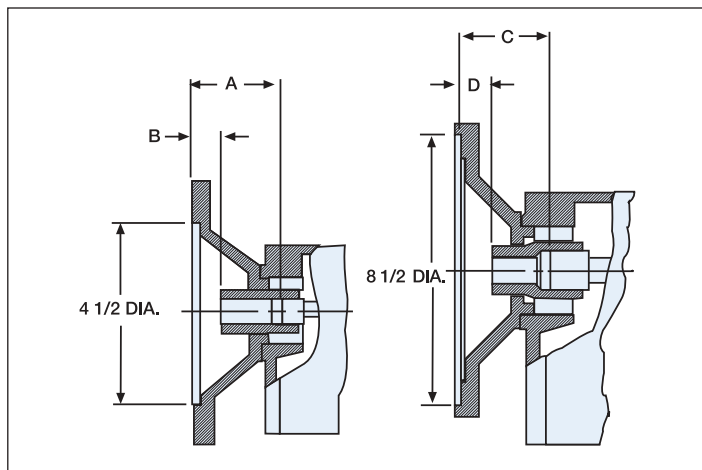
1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

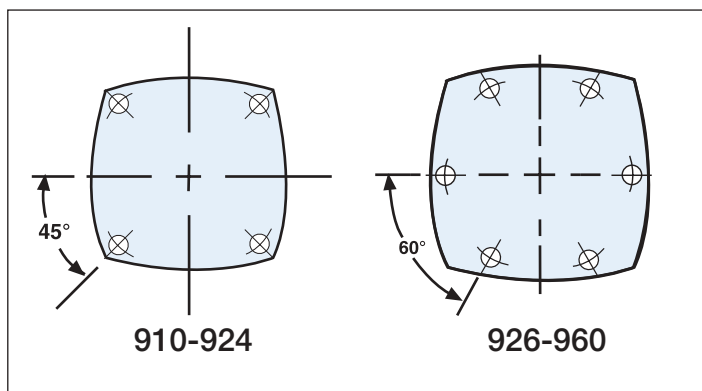
900 Series Quill and Bearing Carrier Dimensions

900 NEMA C Quill Type Flange Data



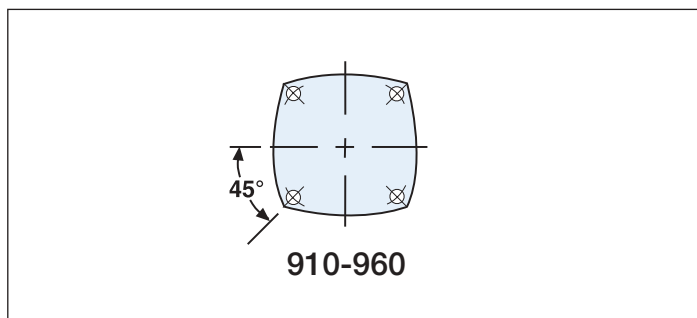
Size	Bore Code	A	B	C	D
910	B4	1.47	.38		
	B5	1.59	.28		
913	B5	2.19	.69		
915	B5				
918	B5	2.38	.88		
	B7	2.38	.88		
921	B5	2.38	.88		
	B7	2.38	.88		
924	B5	2.38	.88		
	B7	2.38	.88		
	B9			2.75	1.00
930	B5	2.52	.70	2.96	1.14
	B7				
	B9				
926	B5	2.57	.75		
	B7	2.57	.75		
	B9			2.81	1.00
932	B5	2.57	.75		
	B7	2.57	.75		
	B9			2.81	1.00
938	B5	3.02	.51		
	B7	3.02	.51		
	B9	3.45	.50		

900 Series Output Bearing Carrier



Frame Size	Bolt		
	Cir. Dia	Size	Length
910	2.375	10 - 32	0.50
913	3.000	1/4 - 20	0.75
915	3.625	5/16 - 18	0.75
918	4.000	5/16 - 18	0.88
921	4.375	5/16 - 18	0.88
924	4.937	5/16 - 18	0.88
926	5.375	5/16 - 18	0.88
930	6.000	5/16 - 18	0.88
932	6.562	5/16 - 18	0.75
938	7.250	3/8 - 16	1.00
952	10.375	7/16 - 14	1.25
960	12.062	1/2 - 13	0.50

900 Series Input Bearing Carrier



Frame Size	Bolt		
	Cir. Dia	Size	Length
910	1.625	10 - 32	0.50
913	2.000	1/4 - 20	0.75
915	2.625	5/16 - 18	0.88
918	2.625	5/16 - 18	0.88
921	3.000	5/16 - 18	0.88
924	3.000	5/16 - 18	0.88
926	3.437	5/16 - 18	0.88
930	3.437	5/16 - 18	0.88
932	3.437	5/16 - 18	0.88
938	4.375	3/8 - 16	1.00
952	4.375	7/16 - 14	1.25
960	4.375	7/16 - 14	1.25

900 Series Double Reduction

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Dimensions	64 - 75



900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

900 Series Double Reduction Style Reference Guide

900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

FDA900



Ratings P. 54 - 63
Dimensions P. 64

FDB900



Ratings P. 54 - 63
Dimensions P. 66

FDC900



Ratings P. 54 - 63
Dimensions P. 68

LFDA900



Ratings P. 54 - 63
Dimensions P. 64

LFDB900



Ratings P. 54 - 63
Dimensions P. 66

LFDC900



Ratings P. 54 - 63
Dimensions P. 68

DA900



Ratings P. 54 - 63
Dimensions P. 70

DB900



Ratings P. 54 - 63
Dimensions P. 72

DC900



Ratings P. 54 - 63
Dimensions P. 74

DOUBLE REDUCTION UNITS CAN BE ASSEMBLED AT THE FACTORY OR THEY CAN BE ASSEMBLED FROM SINGLE REDUCTION STOCK UNITS IN THE FIELD. SEE PAGE 81 FOR KITS. ALSO, SEE THE PREFERRED RATIO COMBINATION STARTING ON PAGE 15.

Double Reduction 900 Series Numbering System/How to Order

FDA - 924 - B - 120 - B5 - G 107

WASHDOWN OPTIONS

Blank = Standard Finish
 WD = Washdown (i.e., WDFDA)

OUTPUT SHAFT

Blank = Standard Shaft
 H = Hollow Base

STYLE

Solid Output Shaft

FDA = Flanged Quill type input
 LFDA = Flanged coupling type input
 FDB = Flanged Quill type input
 LFDB = Flanged coupling type input
 FDC = Flanged Quill type input
 LFDC = Flanged coupling type input
 DA = Solid worm type
 (projecting input shaft)
 DB = Solid worm type
 (projecting input shaft)
 DC = Solid worm type
 (projecting input shaft)

SIZE

(Center Distance)

913	1.33
918	1.75
921	2.06
924	2.38
926	2.62
930	3.00
932	3.25
938	3.75

BASE/ASSEMBLY

A = Horizontal base, worm under gear
 B = Horizontal base, worm over gear
 C = Vertical base, High
 D = Vertical base, Low
 E = Vertical base, High
 F = Vertical base, Low
 R/L = Steel output flange
 V/W = Cast iron output flange
 X = Vertical base, J mount
 BRB = Horizontal base with riser block

RATIO

75:1 THROUGH 3600:1
 See ratio and capacity selection
 tables for available ratios, p. 54-63.

NEMA INPUT BORE CODES

Bore Code	Input Bore	NEMA Mtg.
B5	.625	56C
B7	.875	140TC/180C
B9	1.125	180TC/210C
B11	1.375	210TC/250UC

OUTPUT SHAFT ASSEMBLY

G = Left hand
 H = Double shaft
 J = Right hand

HOLLOW OUTPUT SHAFT BORE CODES

FRACTION SIZE	OUTPUT BORE CODE	SIZE								DECIMAL SIZE
		913	918	921	924	926	930	932	938	
1/2	008	O								0.500
5/8	010	S	O							0.625
3/4	012	O	O							0.750
1	100		S	O						1.000
1-1/8	102			S	O					1.125
1-3/16	103				O	O	O			1.188
1-1/4	104				O	S	O	O	O	1.250
1-3/8	106					O	O	O		1.375
1-7/16	107				O	O	S	O	O	1.438
1-1/2	108						O	O	O	1.500
1-15/16	115						O	S	S	1.938
2-1/8	202							O	O	2.125
2-3/16	203								S	2.188
Max Bore and		0.750	1.125	1.625	1.688	2.000	2.125	2.125	2.188	

S = Standard Bore O = Optional Bore

HOW TO ORDER

Please specify Style, Size, Base (if required), Ratio, NEMA Input Flange (if flanged reducer), Output shaft assembly.

EXAMPLE

Required size: Quill type input, 924, 120:1 ratio, 56C input flange, left hand output (facing input) with a horizontal base (worm over gear).

- Reducer and base assembly
 Order Reducer **FDA-924B-120-B5-G**
- As an option, Double Reduction Units may be assembled from Single Reduction stock using the Adapter Kits on page 78.

900 Series Double Reduction Ratio and Capacity Selection Tables

1750 RPM

913-913

Final Ratio	913 Ratio	913 Ratio	Output RPM	Input Hp	Output Hp	Output Torque
75	5	15	23.3	0.25	0.110	298
100	5	20	17.5	0.24	0.086	311
125	5	25	14.0	0.25	0.065	291
150	5	30	11.7	0.14	0.059	320
200	10	20	8.8	0.16	0.045	323
225	15	15	7.8	0.08	0.038	311
300	10	30	5.8	0.12	0.031	332
375	25	15	4.7	0.08	0.023	313
400	20	20	4.4	0.10	0.023	328
450	15	30	3.9	0.10	0.021	336
500	20	25	3.5	0.05	0.017	304
600	20	30	2.9	0.07	0.016	338
625	25	25	2.8	0.04	0.014	305
750	25	30	2.3	0.05	0.013	340
800	40	20	2.2	0.07	0.011	331
900	30	30	1.9	0.03	0.010	340
1000	25	40	1.8	0.04	0.009	330
1200	40	30	1.5	0.06	0.008	341
1250	50	25	1.4	0.03	0.007	307
1500	50	30	1.2	0.05	0.006	342
1600	40	40	1.1	0.05	0.006	331
1800	60	30	1.0	0.02	0.005	343
2000	50	40	0.9	0.02	0.005	332
2400	60	40	0.7	0.03	0.004	332
2500	50	50	0.7	0.03	0.003	292
3000	50	60	0.6	0.02	0.003	369
3600	60	60	0.5	0.02	0.002	270

NOTES: Double Reduction Adapter Kit P/N DR913X913B5
Assembly instructions page 199

Overhung Load Input Shaft 150 lbs.
Overhung Load Output Shaft 240 lbs.
Output Shaft Thrust Load 300 lbs.

900 Series Double Reduction Ratio and Capacity Selection Tables

1750 RPM

918-913

Final Ratio	913 Ratio	918 Ratio	Output RPM	Input Hp	Output Hp	Output Torque
75	5	15	23.3	0.39	0.217	585
100	5	20	17.5	0.39	0.177	636
112.5	15	7.5	15.6	0.29	0.134	543
125	5	25	14.0	0.34	0.141	635
150	5	30	11.7	0.34	0.123	663
187.5	25	7.5	9.3	0.21	0.081	548
200	5	40	8.8	0.26	0.088	631
225	15	15	7.8	0.18	0.075	610
250	10	25	7.0	0.22	0.073	660
300	10	30	5.8	0.23	0.064	689
375	15	25	4.7	0.16	0.050	669
400	20	20	4.4	0.14	0.046	669
450	15	30	3.9	0.18	0.043	697
500	20	25	3.5	0.13	0.037	673
600	20	30	2.9	0.14	0.032	701
625	25	25	2.8	0.12	0.030	676
750	25	30	2.3	0.14	0.026	704
750	50	15	2.3	0.09	0.023	619
800	40	20	2.2	0.09	0.023	675
900	30	30	1.9	0.11	0.022	706
1000	40	25	1.8	0.08	0.019	680
1200	40	30	1.5	0.10	0.016	708
1250	50	25	1.4	0.08	0.015	681
1500	50	30	1.2	0.10	0.013	709
1600	40	40	1.1	0.06	0.012	668
1800	60	30	1.0	0.09	0.011	710
2000	50	40	0.9	0.06	0.009	669
2400	60	40	0.7	0.06	0.008	670
2500	50	50	0.7	0.05	0.007	610
3000	60	50	0.6	0.04	0.006	610
3600	60	60	0.5	0.04	0.004	566

NOTES: Double Reduction Adapter Kit P/N DR913X918B5
 * 918 Gearbox must have a 56C input
 Assembly instructions page 199

Overhung Load Input Shaft 150 lbs.
 Overhung Load Output Shaft 600 lbs.
 Output Shaft Thrust Load 500 lbs.

 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

 1000 Series
In-Line Helical

 1000 Series
Helical-Worm

Engineering

900 Series Double Reduction Ratio and Capacity Selection Tables

1750 RPM

921-913

Final Ratio	913 Ratio	921 Ratio	Output RPM	Input Hp	Output Hp	Output Torque
75	5	15	23.3	0.55	0.362	977
100	5	20	17.5	0.45	0.279	1006
112.5	15	7.5	15.6	0.45	0.233	946
125	5	25	14.0	0.41	0.225	1013
150	10	15	11.7	0.34	0.188	1017
187.5	25	7.5	9.3	0.33	0.142	958
200	10	20	8.8	0.29	0.145	1047
225	15	15	7.8	0.26	0.127	1031
250	10	25	7.0	0.26	0.118	1060
300	15	20	5.8	0.22	0.098	1060
375	15	25	4.7	0.20	0.080	1075
400	20	20	4.4	0.17	0.074	1067
450	30	15	3.9	0.15	0.064	1044
500	20	25	3.5	0.15	0.060	1083
600	30	20	2.9	0.13	0.050	1074
625	25	25	2.8	0.14	0.048	1088
750	30	25	2.3	0.12	0.040	1091
800	40	20	2.2	0.11	0.037	1078
900	60	15	1.9	0.12	0.032	1051
1000	40	25	1/8	0.10	0.030	1094
1200	60	20	1/5	0.10	0.025	1081
1250	50	25	1.4	0.10	0.024	1097
1500	60	25	1.2	0.09	0.020	1098
1600	40	40	1.1	0.06	0.019	1073
1800	60	30	1.0	0.10	0.016	1057
2000	50	40	0.9	0.06	0.015	1075
2400	60	40	0.7	0.06	0.012	1076
2500	50	50	0.7	0.08	0.011	985
3000	60	50	0.6	0.07	0.009	986
3600	60	60	0.5	0.06	0.007	953

NOTES: Double Reduction Adapter Kit P/N DR913X921B5
 * 921 Gearbox must have a 56C input
 Assembly instructions page 199

Overhung Load Input Shaft 150 lbs.
 Overhung Load Output Shaft 750 lbs.
 Output Shaft Thrust Load 700 lbs.

900 Series Double Reduction Ratio and Capacity Selection Tables

1750 RPM

924-913

Final Ratio	913 Ratio	924 Ratio	Output RPM	Input Hp	Output Hp	Output Torque
75	5	15	23.3	0.89	0.582	1571
100	5	20	17.5	0.71	0.444	1599
125	5	25	14.0	0.61	0.335	1508
150	5	30	11.7	0.61	0.307	1657
200	10	20	8.8	0.46	0.232	1673
225	15	15	7.8	0.42	0.207	1681
300	10	30	5.8	0.43	0.160	1729
375	25	15	4.7	0.31	0.126	1701
400	20	20	4.4	0.27	0.119	1710
450	15	30	3.9	0.33	0.108	1752
500	25	20	3.5	0.25	0.095	1717
600	20	30	2.9	0.26	0.082	1765
625	25	25	2.8	0.21	0.072	1621
750	25	30	2.3	0.25	0.066	1772
800	40	20	2.2	0.18	0.060	1728
900	30	30	1.9	0.21	0.055	1777
1000	50	20	1.8	0.18	0.048	1732
1200	40	30	1.5	0.18	0.041	1783
1250	50	25	1.4	0.15	0.036	1635
1500	50	30	1.2	0.18	0.033	1789
1600	40	40	1.1	0.10	0.030	1720
1800	60	30	1.0	0.16	0.028	1789
2000	50	40	0.9	0.10	0.024	1724
2400	60	40	0.7	0.09	0.020	1726
2500	50	50	0.7	0.13	0.018	1619
3000	60	50	0.6	0.12	0.015	1621
3600	60	60	0.5	0.09	0.012	1559

NOTES: Double Reduction Adapter Kit P/N DR913X924B5
 * 924 Gearbox must have a 56C input
 Assembly instructions page 199

Overhung Load Input Shaft 150 lbs.
 Overhung Load Output Shaft 1000 lbs.
 Output Shaft Thrust Load 800 lbs.

 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

 1000 Series
In-Line Helical

 1000 Series
Helical-Worm

Engineering

900 Series Double Reduction Ratio and Capacity Selection Tables

1750 RPM

926-913

Final Ratio	913 Ratio	926 Ratio	Output RPM	Input Hp	Output Hp	Output Torque
75	5	15	23.3	1.09	0.713	1925
100	5	20	17.5	0.92	0.570	2054
112.5	15	7.5	15.6	0.66	0.342	1384
125	5	25	14.0	0.79	0.436	1963
150	10	15	11.7	0.67	0.373	2016
187.5	25	7.5	9.3	0.46	0.198	1338
200	10	20	8.8	0.59	0.298	2146
225	15	15	7.8	0.51	0.253	2047
250	10	25	7.0	0.50	0.228	2054
300	15	20	5.8	0.45	0.201	2177
375	15	25	4.7	0.38	0.154	2084
400	20	20	4.4	0.34	0.152	2192
450	15	30	3.9	0.40	0.130	2112
500	25	20	3.5	0.33	0.122	2201
600	30	20	2.9	0.27	0.102	2208
625	25	25	2.8	0.28	0.094	2108
750	25	30	2.3	0.30	0.079	2134
800	40	20	2.2	0.23	0.077	2215
900	30	30	1.9	0.25	0.066	2139
1000	50	20	1.8	0.23	0.062	2220
1200	60	20	1.5	0.21	0.051	2223
1250	25	50	1.4	0.24	0.046	2067
1500	25	60	1.2	0.17	0.036	1945
1600	40	40	1.1	0.13	0.038	2207
1800	60	30	1.0	0.20	0.033	2153
2000	50	40	0.9	0.13	0.031	2211
2400	60	40	0.7	0.12	0.026	2214
2500	50	50	0.7	0.17	0.023	2085
3000	60	50	0.6	0.15	0.019	2088
3600	60	60	0.5	0.11	0.015	1963

NOTES: Double Reduction Adapter Kit P/N DR913X926B5

* 926 Gearbox must have a 56C input

Assembly instructions page 199

Overhung Load Input Shaft 150 lbs.
Overhung Load Output Shaft 1100 lbs.
Output Shaft Thrust Load 900 lbs.

900 Series Double Reduction Ratio and Capacity Selection Tables

1750 RPM

924-918

Final Ratio	918 Ratio	924 Ratio	Output RPM	Input Hp	Output Hp	Output Torque
75	5	15	23.3	0.83	0.582	1571
100	5	20	17.5	0.66	0.444	1599
112.5	7.5	15	15.6	0.61	0.403	1631
125	5	25	14.0	0.57	0.335	1508
150	5	30	11.7	0.57	0.307	1657
187.5	7.5	25	9.3	0.42	0.230	1555
200	10	20	8.8	0.40	0.232	1673
225	7.5	30	7.8	0.45	0.210	1705
250	10	25	7.0	0.34	0.175	1578
300	10	30	5.8	0.38	0.160	1729
375	25	15	4.7	0.27	0.126	1701
400	20	20	4.4	0.24	0.119	1710
450	15	30	3.9	0.27	0.108	1752
500	25	20	3.5	0.22	0.095	1717
600	20	30	2.9	0.24	0.082	1765
625	25	25	2.8	0.19	0.072	1621
750	25	30	2.3	0.22	0.066	1772
800	20	40	2.2	0.15	0.059	1702
900	15	60	1.9	0.15	0.047	1527
1000	20	50	1.8	0.10	0.044	1600
1200	20	60	1.5	0.13	0.036	1538
1250	25	50	1.4	0.16	0.036	1606
1500	25	60	1.2	0.12	0.029	1544
1600	40	40	1.1	0.10	0.030	1720
1800	60	30	1.0	0.15	0.028	1789
2000	50	40	0.9	0.08	0.024	1724
2400	60	40	0.7	0.08	0.020	1726
2500	50	50	0.7	0.10	0.018	1619
3000	60	50	0.6	0.11	0.015	1621
3600	60	60	0.5	0.08	0.012	1559

NOTES: Double Reduction Adapter Kit P/N DR913X924B7

* 942 Gearbox must have a 56C input

Assembly instructions page 199

Overhung Load Input Shaft
 Overhung Load Output Shaft
 Output Shaft Thrust Load

175 lbs.
 1000 lbs.
 800 lbs.

900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

900 Series Double Reduction Ratio and Capacity Selection Tables

1750 RPM

926-918

900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

Final Ratio	918 Ratio	926 Ratio	Output RPM	Input Hp	Output Hp	Output Torque
75	5	15	23.3	1.01	0.713	1925
100	5	20	17.5	0.85	0.570	2054
112.5	7.5	15	15.6	0.71	0.475	1925
125	5	25	14.0	0.74	0.436	1963
150	7.5	20	11.7	0.60	0.380	2054
187.5	7.5	25	9.3	0.52	0.291	1963
200	10	20	8.8	0.52	0.298	2146
225	15	15	7.8	0.42	0.253	2047
250	10	25	7.0	0.44	0.228	2054
300	15	20	5.8	0.36	0.201	2177
375	15	25	4.7	0.31	0.154	2084
400	20	20	4.4	0.31	0.152	2192
450	15	30	3.9	0.33	0.130	2112
500	25	20	3.5	0.29	0.122	2201
600	30	20	2.9	0.25	0.102	2208
625	25	25	2.8	0.24	0.094	2108
750	25	30	2.3	0.26	0.079	2134
800	20	40	2.2	0.19	0.076	2185
900	15	60	1.9	0.19	0.059	1925
1000	20	50	1.8	0.13	0.057	2058
1200	20	60	1.5	0.16	0.045	1938
1250	25	50	1.4	0.21	0.046	2067
1500	25	60	1.2	0.15	0.036	1945
1600	40	40	1.1	0.13	0.038	2207
1800	60	30	1.0	0.18	0.033	2153
2000	50	40	0.9	0.11	0.031	2211
2400	60	40	0.7	0.11	0.026	2214
2500	50	50	0.7	0.14	0.023	2085
3000	60	50	0.6	0.14	0.019	2088
3600	60	60	0.5	0.10	0.015	1963

NOTES: Double Reduction Adapter Kit P/N DR918X926B7
* 926 Gearbox must have a 140TC input
Assembly instructions page 199

Overhung Load Input Shaft 175 lbs.
Overhung Load Output Shaft 1100 lbs.
Output Shaft Thrust Load 900 lbs.

900 Series Double Reduction Ratio and Capacity Selection Tables

1750 RPM

930-918

Final Ratio	918 Ratio	930 Ratio	Output RPM	Input Hp	Output Hp	Output Torque
75	5	15	28.3	2.02	1.422	3840
100	5	20	17.5	1.44	0.966	3480
112.5	7.5	15	15.6	1.47	0.987	3999
125	5	25	14.0	1.51	0.888	3997
150	5	30	11.7	1.46	0.781	4220
187.5	7.5	25	9.3	1.09	0.616	4159
200	5	40	8.8	1.14	0.563	4053
225	7.5	30	7.8	1.06	0.542	4390
250	10	25	7.0	0.91	0.471	4240
300	10	30	5.8	0.97	0.411	4445
375	15	25	4.7	0.64	0.320	4320
400	10	40	4.4	0.65	0.296	4259
450	15	30	3.9	0.70	0.279	4520
500	20	25	3.5	0.55	0.242	4361
600	20	30	2.9	0.61	0.211	4558
625	25	25	2.8	0.51	0.195	4385
750	25	30	2.3	0.57	0.170	4580
800	20	40	2.2	0.37	0.151	4362
900	30	30	1.9	0.50	0.142	4595
1000	40	25	1.8	0.39	0.123	4421
1200	40	30	1.5	0.45	0.107	4614
1250	25	50	1.4	0.39	0.085	3817
1500	25	60	1.2	0.28	0.068	3647
1600	40	40	1.1	0.26	0.077	4414
1800	60	30	1.0	0.38	0.071	4633
2000	50	40	0.9	0.21	0.061	4424
2400	60	40	0.7	0.22	0.051	4431
2500	50	50	0.7	0.25	0.043	3838
3000	60	50	0.6	0.25	0.036	3843
3600	60	60	0.5	0.19	0.028	3679

NOTES: Double Reduction Adapter Kit P/N DR918X926B7 **
 * 930 Gearbox must have a 140TC input
 Assembly instructions page 199
 ** DR918X926B7 works on both 926 and 930 size reducers

Overhung Load Input Shaft 175 lbs.
 Overhung Load Output Shaft 1100 lbs.
 Output Shaft Thrust Load 900 lbs.

 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

 1000 Series
In-Line Helical

 1000 Series
Helical-Worm

Engineering

900 Series Double Reduction Ratio and Capacity Selection Tables

1750 RPM

932-918

Final Ratio	918 Ratio	932 Ratio	Output RPM	Input Hp	Output Hp	Output Torque
75	5	15	28.3	2.02	1.422	3840
100	5	20	17.5	1.44	0.966	3480
112.5	7.5	15	15.6	1.47	0.987	3999
125	5	25	14.0	1.51	0.888	3997
150	5	30	11.7	1.46	0.781	4220
187.5	7.5	25	9.3	1.09	0.616	4159
200	5	40	8.8	1.14	0.563	4053
225	7.5	30	7.8	1.06	0.542	4390
250	10	25	7.0	0.91	0.471	4240
300	10	30	5.8	0.97	0.411	4445
375	15	25	4.7	0.64	0.320	4320
400	10	40	4.4	0.65	0.296	4259
450	15	30	3.9	0.70	0.279	4520
500	20	25	3.5	0.55	0.242	4361
600	20	30	2.9	0.61	0.211	4558
625	25	25	2.8	0.51	0.195	4385
750	25	30	2.3	0.57	0.170	4580
800	20	40	2.2	0.37	0.151	4362
900	30	30	1.9	0.50	0.142	4595
1000	40	25	1.8	0.39	0.123	4421
1200	40	30	1.5	0.45	0.107	4614
1250	25	50	1.4	0.39	0.085	3817
1500	25	60	1.2	0.28	0.068	3647
1600	40	40	1.1	0.26	0.077	4414
1800	60	30	1.0	0.38	0.071	4633
2000	50	40	0.9	0.21	0.061	4424
2400	60	40	0.7	0.22	0.051	4431
2500	50	50	0.7	0.25	0.043	3838
3000	60	50	0.6	0.25	0.036	3843
3600	60	60	0.5	0.19	0.028	3679

NOTES: Double Reduction Adapter Kit P/N DR918X932B7
 * 932 Gearbox must have a 140TC input
 Assembly instructions page 199

Overhung Load Input Shaft 175 lbs.
 Overhung Load Output Shaft 1500 lbs.
 Output Shaft Thrust Load 1100 lbs.

900 Series Double Reduction Ratio and Capacity Selection Tables

1750 RPM

938-924

Final Ratio	924 Ratio	938 Ratio	Output RPM	Input Hp	Output Hp	Output Torque
75	5	15	23.3	3.21	2.224	6007
100	10	10	17.5	2.60	1.714	6173
112.5	15	7.5	15.6	1.96	1.471	5960
125	10	12.5	14.0	2.00	1.426	6418
150	10	15	11.7	1.88	1.213	6555
150	15	10	11.7	1.82	1.175	6358
150	20	7.5	11.7	1.51	1.119	6047
150	30	5	11.7	0.98	0.663	3581
187.5	15	12.5	9.3	1.40	0.977	6597
200	10	20	8.8	1.57	0.928	6683
225	15	15	7.8	1.32	0.831	6737
250	10	25	7.0	1.35	0.747	6730
300	15	20	5.8	1.12	0.635	6866
300	20	15	5.8	1.02	0.632	6829
312.5	25	12.5	5.6	0.90	0.599	6743
375	15	25	4.7	0.99	0.512	6916
400	20	20	4.4	0.87	0.483	6960
450	15	30	3.9	0.84	0.427	6925
500	25	20	3.5	0.72	0.390	7015
600	30	20	2.9	0.67	0.326	7052
625	25	25	2.8	0.65	0.314	7066
750	30	25	2.3	0.61	0.263	7103
800	40	20	2.2	0.54	0.246	7098
900	30	30	1.9	0.49	0.220	7115
1000	40	25	1.8	0.50	0.199	7150
1200	40	30	1.5	0.40	0.166	7162
1250	50	25	1.4	0.47	0.159	7178
1500	60	25	1.2	0.42	0.133	7197
1600	40	40	1.1	0.31	0.122	7054
1800	60	30	1.0	0.33	0.111	7209
2000	50	40	0.9	0.29	0.098	7082
2400	60	40	0.7	0.26	0.082	7099
2500	50	50	0.7	0.34	0.076	6813
3000	60	50	0.6	0.30	0.063	6830

NOTES: Double Reduction Adapter Kit P/N DR924X938B9

* 938 Gearbox must have a 180TC input
 Assembly instructions page 199

Overhung Load Input Shaft 200 lbs.
 Overhung Load Output Shaft 1500 lbs.
 Output Shaft Thrust Load 1100 lbs.

900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

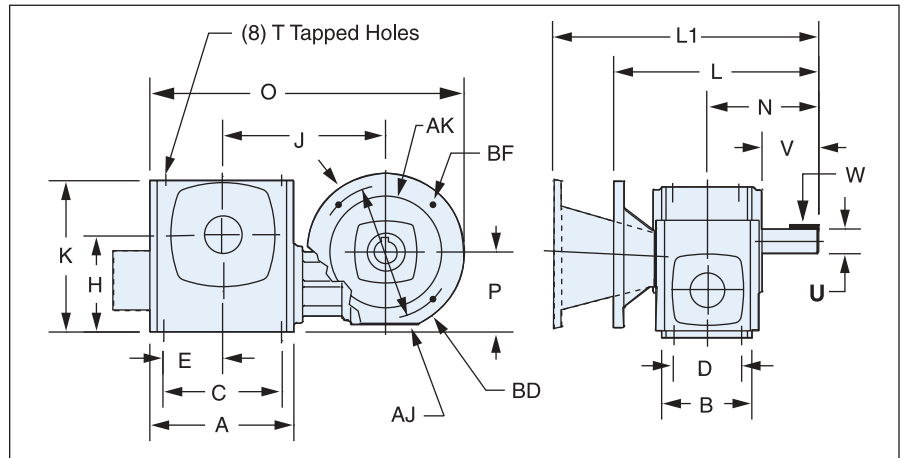
1000 Series
Helical-Worm

Engineering

**Style FDA
Style LFDA
Basic**



**900 Series Dimensions
Double Reduction Flanged Quill/Coupling Type**



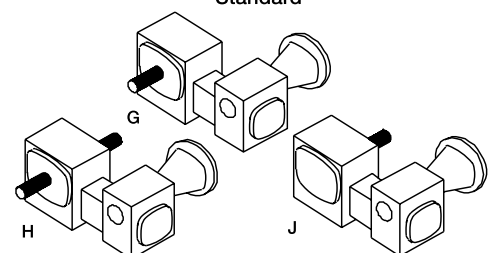
Size	A	B	C	D	E	H	J	K	L	L1	N	O	P	T	
														Tap Size	Depth
913-913	4.31	2.88	3.25	2.00	1.63	2.93	5.87	4.65	7.93	10.53	4.00	11.28	2.93	0.312-18	0.62
918-913	5.56	3.69	4.19	2.75	2.09	3.69	6.50	5.75	8.24	10.84	4.31	12.57	3.27	0.312-18	0.62
921-913	6.06	3.81	5.00	2.88	2.50	4.10	6.85	6.38	8.62	11.22	4.69	13.16	3.37	0.375-16	0.75
924-913	6.44	4.06	5.00	2.88	2.50	4.44	7.04	6.94	9.02	11.62	5.09	13.53	3.40	0.375-16	0.75
924-918	6.44	4.06	5.00	2.88	2.50	4.44	7.44	6.94	9.78	12.59	5.09	13.94	3.81	0.375-16	0.75
926-913	7.38	4.44	6.38	3.38	3.19	5.06	7.44	8.00	9.56	12.15	5.62	14.42	3.77	0.375-16	0.75
926-918	7.38	4.44	6.38	3.38	3.19	5.06	7.85	8.00	10.31	13.12	5.62	14.83	4.19	0.375-16	0.75
930-918	8.25	5.06	7.00	4.00	3.50	5.63	8.25	8.88	11.44	14.12	6.75	15.69	4.38	0.375-16	0.75
932-918	8.92	5.88	7.50	4.00	3.75	5.88	8.67	9.38	11.75	14.56	7.06	16.54	4.38	0.437-14	0.88
938-924	10.00	6.37	8.50	4.75	4.25	6.56	9.86	10.44	13.00	15.69	7.75	18.88	5.19	0.500-13	0.75

Size	Output Shaft				Motor Size Available		Approximate Weight Lbs.	Approximate Oil Capacity 1st Stage (oz.)	Approximate Oil Capacity 2nd Stage (oz.)
	U +0.000 -0.001	V	W-Key		Quill Type L	Coupling Type L1			
			Sq.	Lgth.					
913-913	0.625	2.19	0.187	1.00	B5	B5, B7	27	6.5	6.5
918-913	0.875	2.06	0.187	1.00	B5	B5, B7	36	6.5	14.0
921-913	1.000	2.38	0.250	1.25	B5	B5, B7	43	6.5	17.5
924-913	1.125	2.66	0.250	1.25	B5	B5, B7	49	6.5	26.5
924-918	1.125	2.66	0.250	1.25	B5, B7	B5, B7	57	14.0	26.5
926-913	1.125	2.78	0.250	2.00	B5	B5, B7	63	6.5	32.0
926-918	1.125	2.78	0.250	2.00	B5, B7	B5, B7	71	14.0	32.0
930-918	1.937	3.64	0.250	2.25	B5, B7	B5, B9	82	14.0	65.0
932-918	1.375	3.44	0.312	2.50	B5, B7	B5, B7	106	14.0	67.0
938-924	1.625	3.81	0.375	2.75	B5, B7, B9	B5, B7, B9	166	26.5	88.0

Rating Information Page 54-63

Assembly Types

Standard

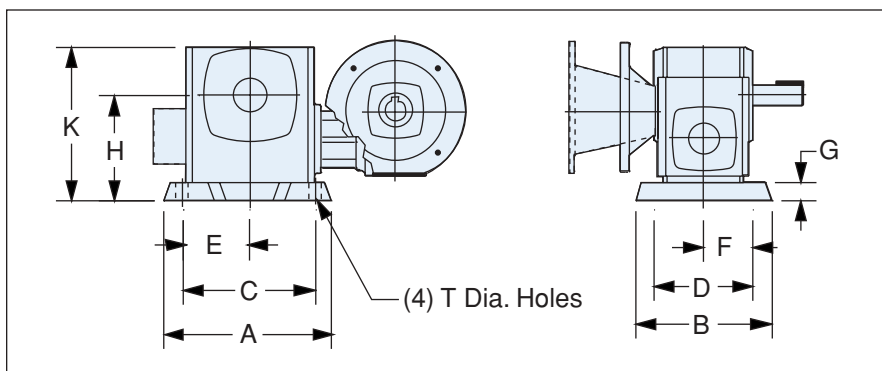


Motor Information			
Coupling/ Worm Bore Size Design.	NEMA Design	Bore +0.002 -0.000	Key Way
B5	56C	0.625	0.187 x 0.093
B7	140C	0.875	0.187 x 0.093

AJ	AK	BD	BF
5.875	4.50	6.50	0.406
5.875	4.50	6.50	0.406

Style FDA & LFDA

With Horizontal Base Position B

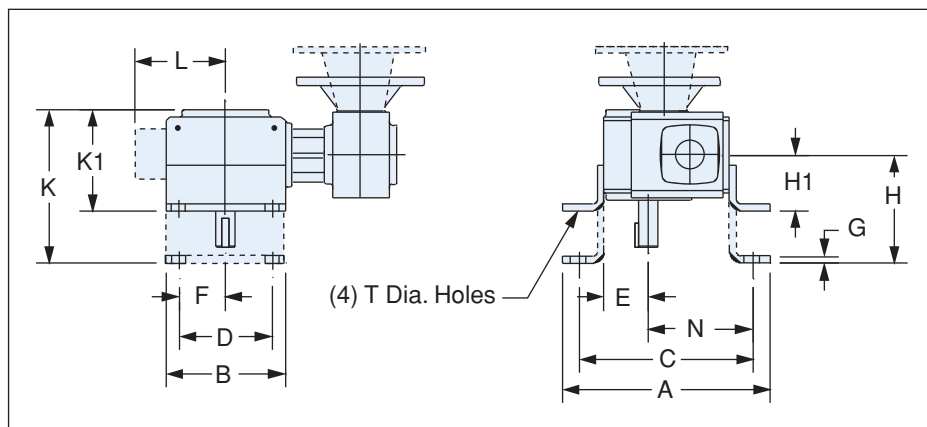


Size	A	B	C	D	E	F	G	H	K	T
913-913	5.38	4.19	4.38	3.31	2.19	1.66	0.53	3.46	5.18	0.343
918-913	7.00	5.69	5.75	4.50	2.88	2.25	0.69	4.38	6.44	0.406
921-913	7.75	5.94	6.38	4.69	3.19	2.34	0.72	4.82	7.10	0.468
924-913	8.50	6.19	7.06	4.88	3.53	2.44	0.75	5.19	7.69	0.468
924-918	8.50	6.19	7.06	4.88	3.53	2.44	0.75	5.19	7.69	0.468
926-913	9.63	6.66	8.00	5.25	4.00	2.63	0.75	5.81	8.75	0.531
926-918	9.63	6.66	8.00	5.25	4.00	2.63	0.75	5.81	8.75	0.531
930-918	10.00	7.50	8.44	5.88	4.22	2.94	0.69	6.32	9.63	0.468
932-918	11.19	7.66	9.50	6.12	4.75	3.06	0.88	6.75	10.25	0.531
938-924	12.13	8.66	10.38	7.00	5.19	3.50	0.94	7.50	11.82	0.593

Rating Information Page 54-63

Style FDA & LFDA

With Vertical Base Position C/D



Size	A	B	C	D	E	F	G	H	H1	K	K1	L	N	T
913-913	7.10	4.12	6.15	3.25	1.72	1.63	0.25	3.56	2.31	5.38	4.13	—	3.68	0.343
918-913	8.43	5.16	7.38	4.00	2.06	2.00	0.25	4.38	3.00	6.63	5.25	—	4.50	0.406
921-913	9.50	6.03	8.38	4.88	2.28	2.44	0.31	4.88	3.13	7.19	5.44	—	5.10	0.468
924-913	10.06	6.31	8.94	4.88	2.50	2.44	0.31	5.25	3.38	7.69	5.81	—	5.44	0.468
924-918	10.06	6.31	8.94	4.88	2.50	2.44	0.31	5.25	3.38	7.69	5.81	—	5.44	0.468
926-913	11.68	7.38	10.13	5.75	2.94	2.88	0.31	5.59	3.63	8.44	6.47	—	6.13	0.531
926-918	11.68	7.38	10.13	5.75	2.94	2.88	0.31	5.59	3.63	8.44	6.47	—	6.13	0.531
930-918	12.50	8.25	11.13	6.00	3.25	3.00	0.38	5.88	3.94	9.00	7.06	—	6.75	0.531
932-918	13.38	9.00	11.88	6.12	3.50	3.06	0.38	6.25	4.69	9.88	8.31	6.65	7.13	0.531
938-924	15.70	10.00	13.94	8.00	3.97	4.00	0.94	7.00	5.25	10.96	9.21	7.34	8.32	0.531

Rating Information Page 54-63

 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

 1000 Series
In-Line Helical

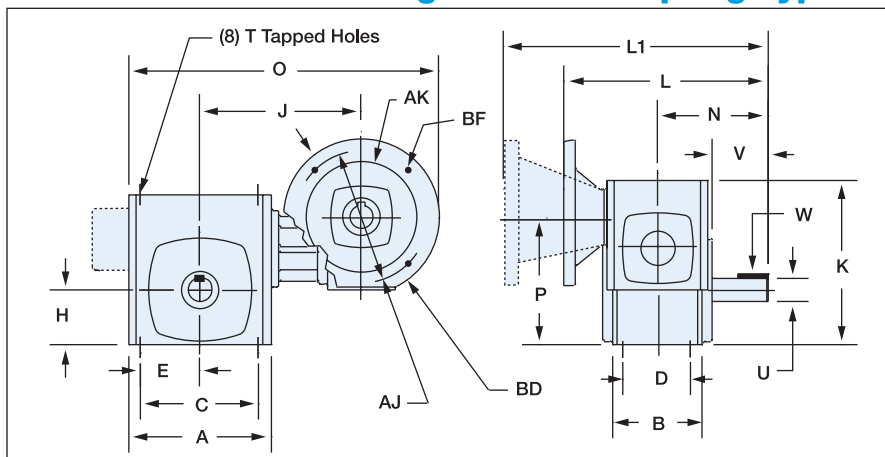
 1000 Series
Helical-Worm

Engineering

Style FDB Style LFDB Basic



900 Series Dimensions Double Reduction Flanged Quill/Coupling Type



Size	A	B	C	D	E	H	J	K	L	L1	N	O	P	Tap Size	Depth
913-913	4.31	2.88	3.25	2.00	1.63	1.72	5.87	5.98	7.93	10.53	4.00	11.28	4.39	5/16-18	0.62
918-913	5.56	3.69	4.19	2.75	2.09	2.06	6.50	6.74	8.24	10.84	4.31	12.57	5.15	5/16-18	0.62
921-913	6.06	3.81	5.00	2.88	2.50	2.28	6.85	7.27	8.62	11.22	4.69	13.16	5.68	3/8-16	0.75
924-913	6.44	4.06	5.00	2.88	2.50	2.50	7.04	7.80	9.02	11.62	5.09	13.53	6.21	3/8-16	0.75
924-918	6.44	4.06	5.00	2.88	2.50	2.50	7.44	8.56	9.78	12.59	5.09	13.94	6.63	3/8-16	0.75
926-913	7.38	4.44	6.38	3.38	3.19	2.94	7.44	8.49	9.56	12.15	5.62	14.42	6.90	3/8-16	0.75
926-918	7.38	4.44	6.38	3.38	3.19	2.94	7.85	9.25	10.31	13.12	5.62	14.83	7.32	3/8-16	0.75
930-918	8.25	5.06	7.00	4.00	3.50	3.25	8.25	9.94	11.44	14.25	6.75	15.69	8.00	7/16-14	0.88
932-918	8.92	5.88	7.50	4.00	3.75	3.50	8.67	10.44	11.75	14.56	7.06	16.54	8.50	7/16-14	0.88
938-924	10.00	6.37	8.50	4.75	4.25	3.88	9.86	12.06	13.00	15.69	7.75	18.88	10.00	1/2-13	0.75

Size	Output Shaft		W-Key		Motor Size Available		Approximate Weight Lbs.	Approximate Oil Capacity 1st Stage (oz.)	Approximate Oil Capacity 2nd Stage (oz.)
	U +.000 -.001	V	Sq.	Lgth.	Quill Type L	Coupling Type L1			
913-913	0.625	2.19	0.187	1.00	B5	B5, B7	27	6.5	6.5
918-913	0.875	2.06	0.187	1.00	B5	B5, B7	36	6.5	14.0
921-913	1.000	2.38	0.250	1.25	B5	B5, B7	43	6.5	17.5
924-913	1.125	2.66	0.250	1.25	B5	B5, B7	49	6.5	26.5
924-918	1.125	2.66	0.250	1.25	B5, B7	B5, B7	57	14.0	26.5
926-913	1.125	2.78	0.250	2.00	B5	B5, B7	63	6.5	32.0
926-918	1.125	2.78	0.250	2.00	B5, B7	B5, B7	71	14.0	32.0
930-918	1.250	3.63	0.250	2.25	B5, B7	B5, B7	82	14.0	65.0
932-918	1.375	3.44	0.312	2.50	B5, B7	B5, B7	106	14.0	67.0
938-924	1.625	3.81	0.375	2.75	B5, B7, B8	B5, B7, B9	166	26.5	88.0

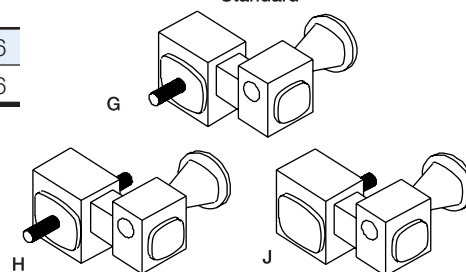
Rating Information Page 54-63

Motor Information			
Coupling/ Worm Bore Size Design.	NEMA Design	Bore +.0002 -.0000	Key Way
B5	56C	0.625	0.187 x 0.093
B7	140C	0.875	0.187 x 0.093

AJ	AK	BD	BF
5.875	4.50	6.50	0.406
5.875	4.50	6.50	0.406

Assembly Types

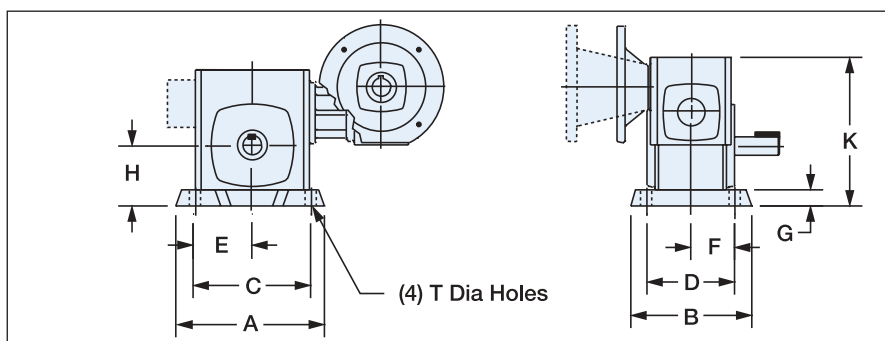
Standard



Style FDB & LFDB

With Horizontal Base

Position B



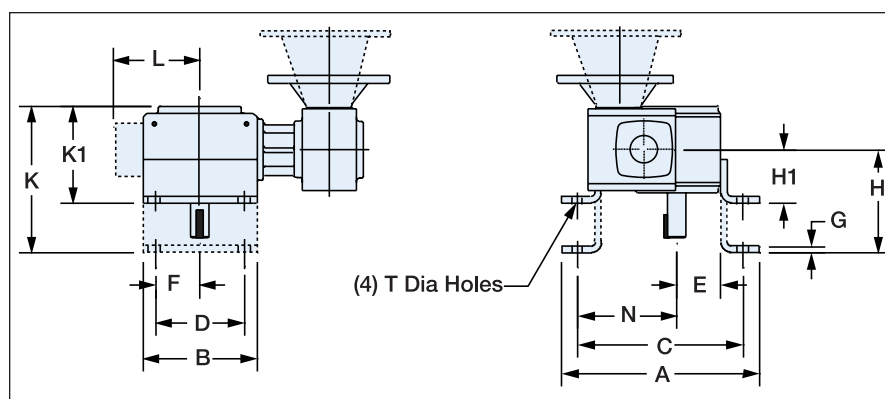
Size	A	B	C	D	E	F	G	H	K	T
913-913	5.38	4.19	4.38	3.31	2.19	1.66	0.53	2.25	6.51	0.343
918-913	7.00	5.69	5.75	4.50	2.88	2.25	0.69	2.75	7.43	0.406
921-913	7.75	5.94	6.38	4.69	3.19	2.34	0.72	3.00	7.99	0.468
924-913	8.50	6.19	7.06	4.88	3.53	2.44	0.75	3.25	8.55	0.468
924-918	8.50	6.19	7.06	4.88	3.53	2.44	0.75	3.25	9.31	0.468
926-913	9.63	6.66	8.00	5.25	4.00	2.63	0.75	3.69	9.24	0.531
926-918	9.63	6.66	8.00	5.25	4.00	2.63	0.75	3.69	10.00	0.531
930-918	10.00	7.50	8.44	5.88	4.22	2.94	0.69	4.00	10.63	0.468
932-918	11.19	7.66	9.50	6.12	4.75	3.06	0.88	4.38	11.32	0.531
938-924	12.13	8.66	10.38	7.00	5.19	3.50	0.94	4.82	13.00	0.593

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Style FDB & LFDB

With Vertical Base

Position C/D



Size	A	B	C	D	E	F	G	H	H1	K	K1	L	N	T
913-913	7.10	4.12	6.15	3.25	1.72	1.63	0.25	3.56	2.31	5.38	4.13	—	3.68	0.343
918-913	8.43	5.16	7.38	4.00	2.06	2.00	0.25	4.38	3.00	6.63	5.25	—	4.50	0.406
921-913	9.50	6.03	8.38	4.88	2.28	2.44	0.31	4.88	3.13	7.19	5.44	—	5.10	0.468
924-913	10.06	6.31	8.94	4.88	2.50	2.44	0.31	5.25	3.38	7.69	5.81	—	5.44	0.468
924-918	10.06	6.31	8.94	4.88	2.50	2.44	0.31	5.25	3.38	7.69	5.81	—	5.44	0.468
926-913	11.68	7.38	10.13	5.75	2.94	2.88	0.31	5.59	3.63	8.44	6.47	—	6.13	0.531
926-918	11.68	7.38	10.13	5.75	2.94	2.88	0.31	5.59	3.63	8.44	6.47	—	6.13	0.531
930-918	12.50	8.25	11.13	6.00	3.25	3.00	0.38	5.88	3.94	9.00	7.06	—	6.75	0.531
932-918	13.38	9.00	11.88	6.12	3.50	3.06	0.38	6.25	4.69	9.88	8.31	6.89	7.13	0.531
938-924	15.70	10.00	13.94	8.00	3.97	4.00	0.94	7.00	5.25	10.96	9.21	7.34	8.32	0.531

Rating Information Page 54-63

 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

 1000 Series
In-Line Helical

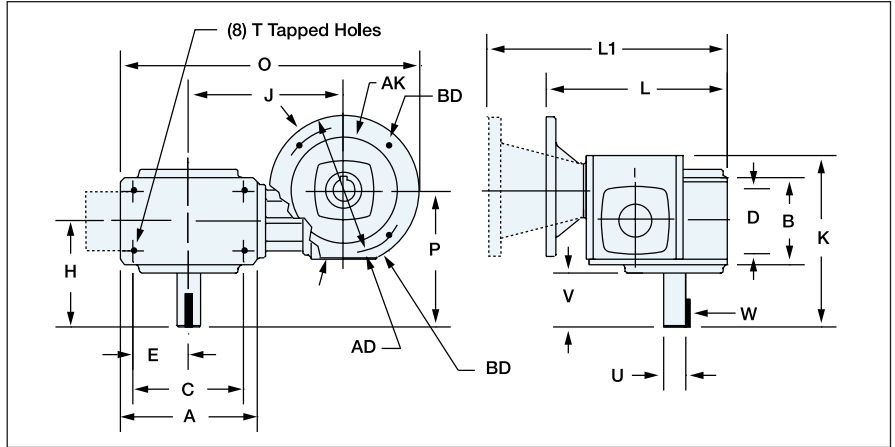
 1000 Series
Helical-Worm

Engineering

Style FDC Style LFDC Basic



900 Series Dimensions Double Reduction Flanged Quill/Coupling Type



Size	A	B	C	D	E	H	J	K	L	L1	O	P	T	
													Tap Size	Depth
913-913	4.31	2.88	3.25	2.00	1.63	4.00	5.87	6.93	6.99	9.58	11.28	5.33	0.312-18	0.62
918-913	5.56	3.69	4.19	2.75	2.09	4.31	6.50	7.24	7.75	10.34	12.57	5.64	0.312-18	0.62
921-913	6.06	3.81	5.00	2.88	2.50	4.69	6.85	7.62	8.28	10.87	13.16	6.02	0.375-16	0.75
924-913	6.44	4.06	5.00	2.88	2.50	5.09	7.04	8.02	8.81	11.40	13.53	6.42	0.375-16	0.75
924-918	6.44	4.06	5.00	2.88	2.50	5.09	7.44	8.78	9.56	12.38	13.94	6.84	0.375-16	0.75
926-913	7.38	4.44	6.38	3.38	3.19	5.62	7.44	8.55	9.50	12.09	14.42	6.95	0.375-16	0.75
926-918	7.38	4.44	6.38	3.38	3.19	5.62	7.85	9.31	10.25	13.06	14.83	7.37	0.375-16	0.75
930-918	8.25	5.06	7.00	4.00	3.50	6.75	8.25	10.44	10.94	13.75	15.69	8.50	0.437-14	0.88
932-918	8.92	5.88	7.50	4.00	3.75	7.06	8.67	10.75	11.44	14.25	16.54	8.81	0.437-14	0.88
938-924	10.00	6.37	8.50	4.75	4.25	7.75	9.86	12.19	12.88	15.57	18.88	10.12	0.500-13	0.75

Size	U +0.000 -0.001	Output Shaft V		W-Key		Motor Size Available		Approximate Weight (lbs.)	Approximate Oil Capacity 1st Stage (oz.)	Approximate Oil Capacity 2nd Stage (oz.)
				Sq.	Lgth.	Quill Type (L)	Coupling Type (L1)			
913-913	0.625	2.19		0.187	1.00	B5	B5, B7	27	6.5	6.5
918-913	0.875	2.06		0.187	1.00	B5	B5, B7	36	6.5	14.0
921-913	1.000	2.38		0.250	1.25	B5	B5, B7	43	6.5	17.5
924-913	1.125	2.66		0.250	1.25	B5	B5, B7	49	6.5	26.5
924-918	1.125	2.66		0.250	1.25	B5, B7	B5, B7	57	14.0	26.5
926-913	1.125	2.78		0.250	2.00	B5	B5, B7	63	6.5	32.0
926-918	1.125	2.78		0.250	2.00	B5, B7	B5, B7	71	14.0	32.0
930-918	1.250	3.64		0.250	2.25	B5, B7	B5, B7	82	14.0	65.0
932-918	1.375	3.44		0.312	2.50	B5, B7	B5, B7	106	14.0	67.0
938-924	1.625	3.81		0.375	2.75	B5, B7, B9	B5, B7, B9	144	26.5	88.0

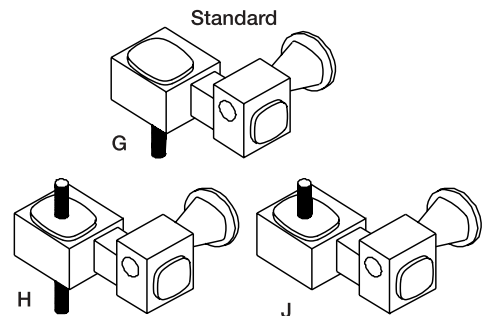
Motor Information

Coupling/ Worm Bore Size Design.	NEMA Design	Bore +0.002 -0.000	Key Way
B5	56C	0.625	0.187 x 0.093
B7	140TC	0.875	0.187 x 0.093
B9	180TC	1.125	0.250 x 0.125

AJ	AK	BD	BF
5.875	4.50	6.50	0.406
5.875	4.50	6.50	0.406

Rating Information Page 54-63

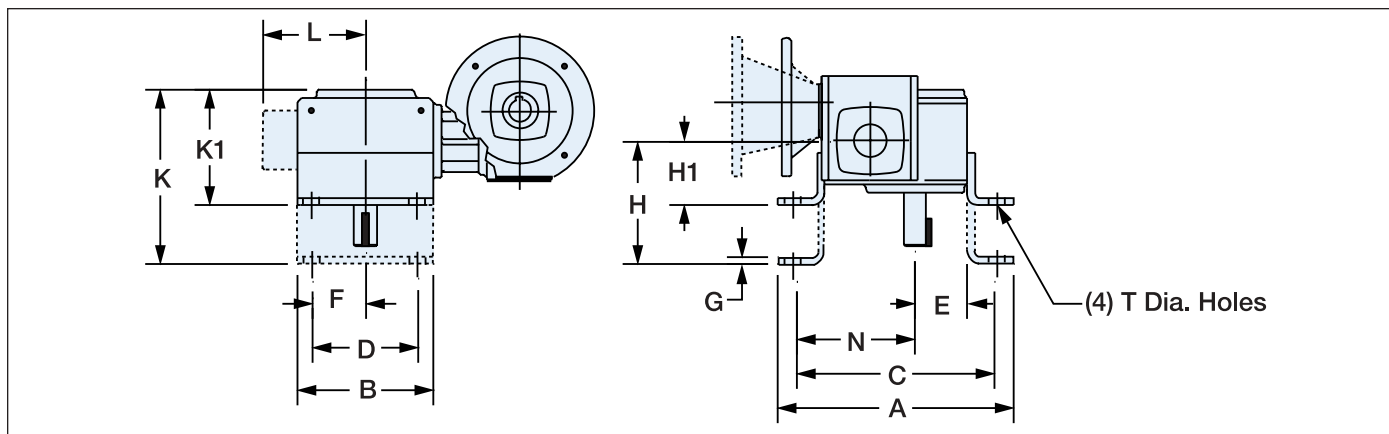
Assembly Types



Style FDC & LFDC

With Vertical Base

Position C/D



Size	A	B	C	D	E	F	G	H	H1	K	K1	L	N	T
913-913	7.10	4.12	6.15	3.25	1.72	1.63	0.25	3.56	2.31	5.38	4.13	—	3.68	0.343
918-913	8.43	5.16	7.38	4.00	2.06	2.00	0.25	4.38	3.00	6.63	5.25	—	4.50	0.406
921-913	9.50	6.03	8.38	4.88	2.28	2.44	0.31	4.88	3.13	7.19	5.44	—	5.10	0.468
924-913	10.06	6.31	8.94	4.88	2.50	2.44	0.31	5.25	3.38	7.69	5.81	—	5.44	0.468
924-918	10.06	6.31	8.94	4.88	2.50	2.44	0.31	5.25	3.38	7.69	5.81	—	5.44	0.468
926-913	11.68	7.38	10.13	5.75	2.94	2.88	0.31	5.59	3.63	8.44	6.47	—	6.13	0.531
926-918	11.68	7.38	10.13	5.75	2.94	2.88	0.31	5.59	3.63	8.44	6.47	—	6.13	0.531
930-918	12.88	8.50	11.38	6.12	3.25	3.06	0.81	6.25	4.69	9.36	7.80	—	6.88	0.531
932-918	13.38	9.00	11.88	6.12	3.50	3.06	0.38	6.25	4.69	9.88	8.31	6.65	7.13	0.531
938-924	15.70	10.00	13.94	8.00	3.88	4.00	0.94	7.00	5.25	8.59	6.84	7.39	8.31	0.598

Rating Information Page 54-63

900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

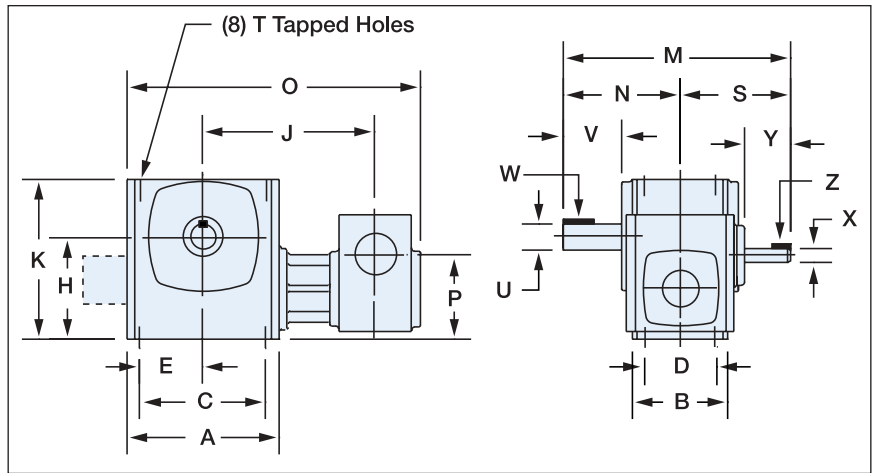
1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

Style DA Basic

900 Series Dimensions Double Reduction Solid Worm Type



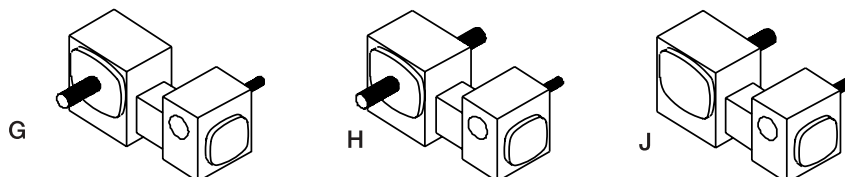
Size	A	B	C	D	E	H	J	K	M	N	O	P	S	Tap Size	Depth
913-913	4.31	2.88	3.25	2.00	1.63	2.93	5.87	4.65	7.91	4.00	9.84	2.93	3.91	0.312-18	0.62
918-913	5.56	3.69	4.19	2.75	2.09	3.69	6.50	5.75	8.22	4.31	11.13	3.27	3.91	0.312-18	0.62
921-913	6.06	3.81	5.00	2.88	2.50	4.10	6.85	6.38	8.60	4.69	11.72	3.37	3.91	0.375-16	0.75
924-913	6.44	4.06	5.00	2.88	2.50	4.44	7.04	6.94	9.00	5.09	12.10	3.40	3.91	0.375-16	0.75
924-918	6.44	4.06	5.00	2.88	2.50	4.44	7.44	6.94	9.97	5.09	12.94	3.81	4.88	0.375-16	0.75
926-913	7.38	4.44	6.38	3.38	3.19	5.06	7.44	8.00	9.53	5.62	12.98	3.77	3.91	0.375-16	0.75
926-918	7.38	4.44	6.38	3.38	3.19	5.06	7.85	8.00	10.50	5.62	13.92	4.19	4.88	0.375-16	0.75
930-918	8.25	5.06	7.00	4.00	3.50	5.63	8.25	8.88	11.63	6.75	14.62	4.38	4.88	0.437-14	0.88
932-918	8.92	5.88	7.50	4.00	3.75	5.88	8.67	9.38	11.94	7.06	17.80	4.38	4.88	0.437-14	0.88
938-924	10.00	6.37	8.50	4.75	4.25	6.56	9.86	10.44	13.50	7.75	19.63	5.19	5.75	0.500-13	0.75

Size	Output Shaft				Input Shaft				Approximate Weight Lbs.	Approximate Oil Capacity 1st Stage (oz.)	Approximate Oil Capacity 2nd Stage (oz.)
	U +.000 -.001	V	W-Key Sq.	Lgth.	X +.000 -.001	Y	Z-Key Sq.	Lgth.			
913-913	0.625	2.19	0.187	1.00	0.500	1.34	0.125	0.62	26	6.5	6.5
918-913	0.875	2.06	0.187	1.00	0.500	1.34	0.125	0.62	35	6.5	14.0
921-913	1.000	2.38	0.250	1.25	0.500	1.34	0.125	0.62	42	6.5	17.5
924-913	1.125	2.66	0.250	1.25	0.500	1.34	0.125	0.62	48	6.5	26.5
924-918	1.125	2.66	0.250	1.25	0.625	1.69	0.187	1.25	56	14.0	26.5
926-913	1.125	2.78	0.250	2.00	0.500	1.34	0.125	0.62	62	6.5	32.0
926-918	1.125	2.78	0.250	2.00	0.625	1.69	0.187	1.25	70	14.0	32.0
930-918	1.250	3.64	0.312	2.50	0.625	1.69	0.187	1.25	84	14.0	65.0
932-918	1.375	3.44	0.312	2.50	0.625	1.69	0.187	1.25	105	14.0	67.0
938-924	1.625	3.81	0.375	2.75	0.750	2.12	0.187	1.25	136	26.5	88.0

Rating Information Page 54-63

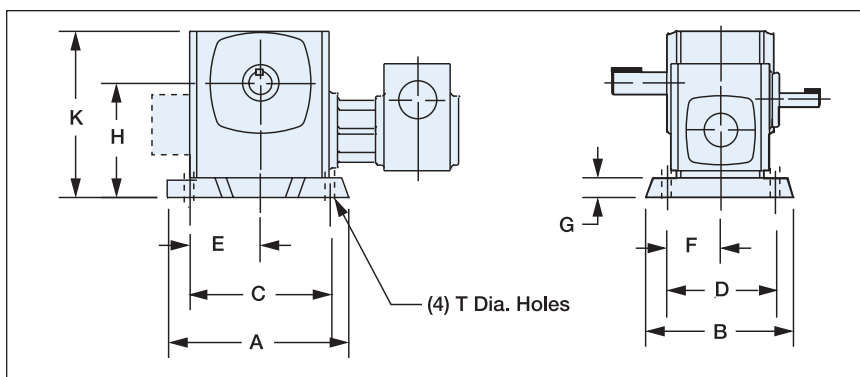
Assembly Types

Standard



Style DA

With Horizontal Base Position B

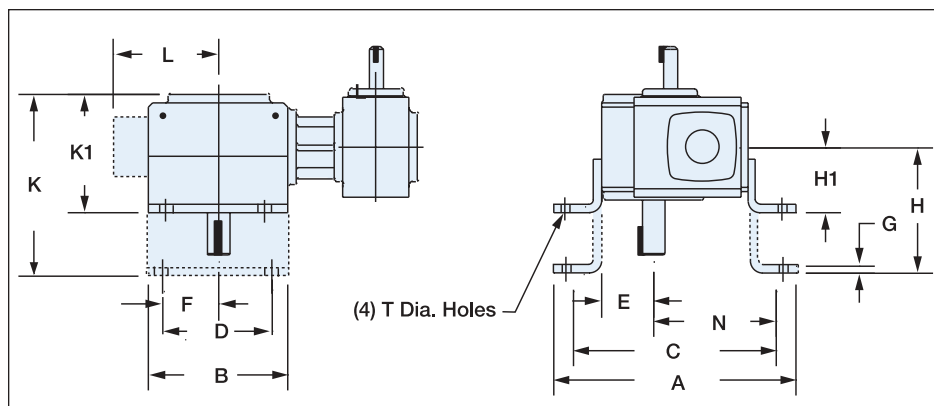


Size	A	B	C	D	E	F	G	H	K	T
913-913	5.38	4.19	4.38	3.31	2.19	1.66	0.53	3.46	5.18	0.343
918-913	7.00	5.69	5.75	4.50	2.88	2.25	0.69	4.38	6.44	0.406
921-913	7.75	5.94	6.38	4.69	3.19	2.34	0.72	4.82	7.10	0.468
924-913	8.50	6.19	7.06	4.88	3.53	2.44	0.75	5.19	7.69	0.468
924-918	8.50	6.19	7.06	4.88	3.53	2.44	0.75	5.19	7.69	0.468
926-913	9.63	6.66	8.00	5.25	4.00	2.63	0.75	5.81	8.75	0.531
926-918	9.63	6.66	8.00	5.25	4.00	2.63	0.75	5.81	8.75	0.531
930-918	10.00	7.50	8.44	5.88	4.22	2.94	0.69	6.32	9.63	0.468
932-918	11.19	7.66	9.50	6.12	4.75	3.06	0.88	6.75	10.25	0.531
938-924	12.13	8.66	10.38	7.00	5.19	3.50	0.94	7.50	11.82	0.593

Rating Information Page 54-63

Style DA

With Vertical Base Position C/D



Size	A	B	C	D	E	F	G	H	H1	K	K1	L	N	T
913-913	7.10	4.12	6.15	3.25	1.72	1.63	0.25	3.56	2.31	5.38	4.13	—	3.68	0.343
918-913	8.43	5.16	7.38	4.00	2.06	2.00	0.25	4.38	3.00	6.63	5.25	—	4.50	0.406
921-913	9.50	6.03	8.38	4.88	2.28	2.44	0.31	4.88	3.13	7.19	5.44	—	5.10	0.468
924-913	10.06	6.31	8.94	4.88	2.50	2.44	0.31	5.25	3.38	7.69	5.81	—	5.44	0.468
924-918	10.06	6.31	8.94	4.88	2.50	2.44	0.31	5.25	3.38	7.69	5.81	—	5.44	0.468
926-913	11.68	7.38	10.13	5.75	2.94	2.88	0.31	5.59	3.63	8.44	6.47	—	6.13	0.531
926-918	11.68	7.38	10.13	5.75	2.94	2.88	0.31	5.59	3.63	8.44	6.47	—	6.13	0.531
930-918	12.50	8.25	11.13	6.00	3.25	3.00	0.38	5.88	3.94	9.00	7.06	—	6.75	0.531
932-918	13.38	9.00	11.88	6.12	3.50	3.06	0.38	6.25	4.69	9.88	8.31	6.89	7.13	0.531
938-924	15.70	10.00	13.94	8.00	3.97	4.00	0.94	7.00	5.25	10.96	9.21	7.34	8.32	0.531

Rating Information Page 54-63

 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

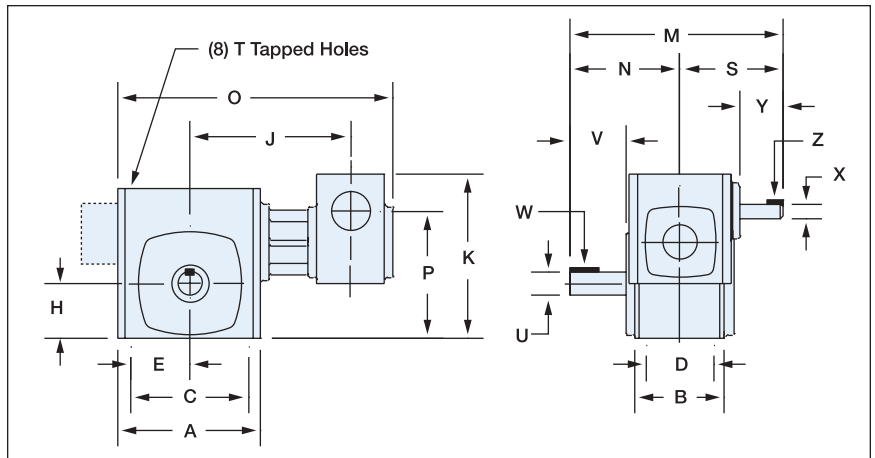
 1000 Series
In-Line Helical

 1000 Series
Helical-Worm

Engineering

Style DB Basic

900 Series Dimensions Double Reduction Solid Worm Type



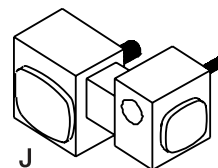
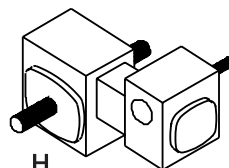
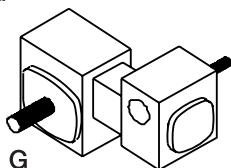
Size	A	B	C	D	E	H	J	K	M	N	O	P	S	T	
														Tap Size	Depth
913-913	4.31	2.88	3.25	2.00	1.63	1.72	5.87	5.98	7.91	4.00	9.84	4.39	3.91	0.312-18	0.62
918-913	5.56	3.69	4.19	2.75	2.09	2.06	6.50	6.74	8.22	4.31	11.13	5.15	3.91	0.312-18	0.62
921-913	6.06	3.81	5.00	2.88	2.50	2.28	6.85	7.27	8.60	4.69	11.72	5.68	3.91	0.375-16	0.75
924-913	6.44	4.06	5.00	2.88	2.50	2.50	7.04	7.80	9.00	5.09	12.10	6.21	3.91	0.375-16	0.75
924-918	6.44	4.06	5.00	2.88	2.50	2.50	7.44	8.56	9.97	5.09	12.94	6.63	4.88	0.375-16	0.75
926-913	7.38	4.44	6.38	3.38	3.19	2.94	7.44	8.49	9.53	5.62	12.98	6.90	3.91	0.375-16	0.75
926-918	7.38	4.44	6.38	3.38	3.19	2.94	7.85	9.25	10.50	5.62	13.92	7.32	4.88	0.375-16	0.75
930-918	8.25	5.06	7.00	4.00	3.50	3.25	8.25	9.94	11.63	6.75	14.62	8.00	4.88	0.437-14	0.88
932-918	8.92	5.88	7.50	4.00	3.75	3.50	8.67	10.44	11.94	7.06	18.94	8.50	4.88	0.437-14	0.88
938-924	10.00	6.37	8.50	4.75	4.25	3.88	9.86	12.06	13.50	7.75	19.63	10.00	5.75	0.500-13	0.75

Size	Output Shaft				X +.000 -.001	Input Shaft			Approximate Weight Lbs.	Approximate Oil Capacity 1st Stage (oz.)	Approximate Oil Capacity 2nd Stage (oz.)
	U +.000 -.001	V	W-Key Sq.	Lgth.		Y	Z-Key Sq.	Lgth.			
913-913	0.625	2.19	0.187	1.00	0.500	1.34	0.125	0.62	26	6.5	6.5
918-913	0.875	2.06	0.187	1.00	0.500	1.34	0.125	0.62	35	6.5	14.0
921-913	1.000	2.38	0.250	1.25	0.500	1.34	0.125	0.62	42	6.5	17.5
924-913	1.125	2.66	0.250	1.25	0.500	1.34	0.125	0.62	48	6.5	26.5
924-918	1.125	2.66	0.250	1.25	0.625	1.69	0.187	1.25	56	14.0	26.5
926-913	1.125	2.78	0.250	2.00	0.500	1.34	0.125	0.62	62	6.5	32.0
926-918	1.125	2.78	0.250	2.00	0.625	1.69	0.187	1.25	70	14.0	32.0
930-918	1.250	3.64	0.312	2.50	0.625	1.69	0.187	1.25	84	14.0	65.0
932-918	1.375	3.44	0.312	2.50	0.625	1.69	0.187	1.25	105	14.0	67.0
938-924	1.625	3.81	0.375	2.75	0.750	2.12	0.187	1.25	136	26.5	88.0

Rating Information Page 54-63

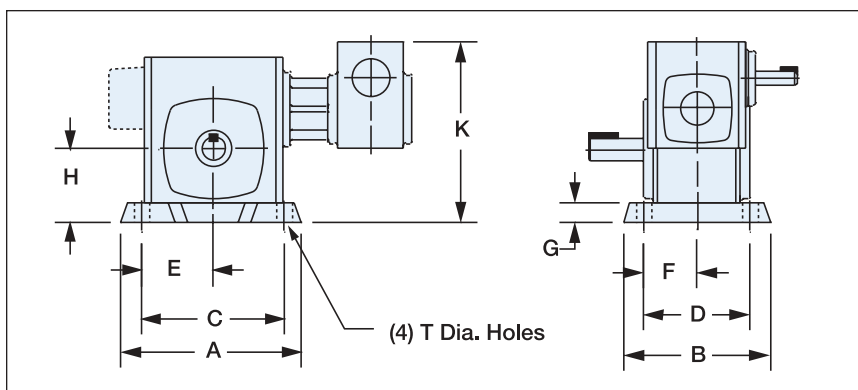
Assembly Types

Standard



Style DB

With Horizontal Base Position B

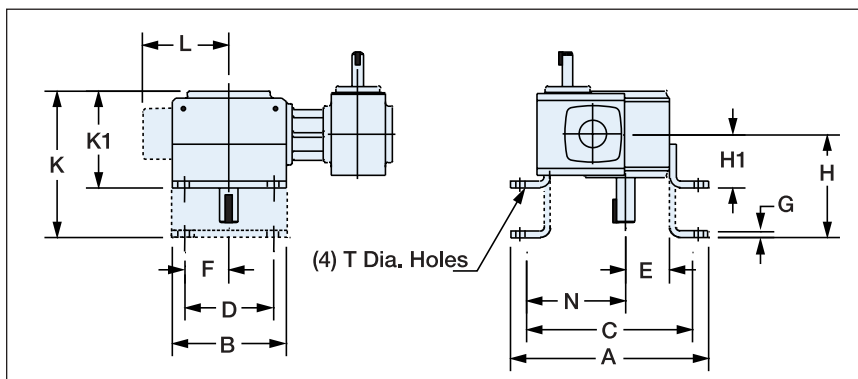


Size	A	B	C	D	E	F	G	H	K	T
913-913	5.38	4.19	4.38	3.31	2.19	1.66	0.53	2.25	6.51	0.343
918-913	7.00	5.69	5.75	4.50	2.88	2.25	0.69	2.75	7.43	0.406
921-913	7.75	5.94	6.38	4.69	3.19	2.34	0.72	3.00	7.99	0.468
924-913	8.50	6.19	7.06	4.88	3.53	2.44	0.75	3.25	8.55	0.468
924-918	8.50	6.19	7.06	4.88	3.53	2.44	0.75	3.25	9.31	0.468
926-913	9.63	6.66	8.00	5.25	4.00	2.63	0.75	3.69	9.24	0.531
926-918	9.63	6.66	8.00	5.25	4.00	2.63	0.75	3.69	10.00	0.531
930-918	10.00	7.50	8.44	5.88	4.22	2.94	0.69	4.00	10.63	0.468
932-918	11.19	7.66	9.50	6.12	4.75	3.06	0.88	4.38	11.32	0.531
938-924	12.13	8.66	10.38	7.00	5.19	3.50	0.94	4.82	13.00	0.593

Rating Information Page 54-63

Style DB

With Vertical Base Position C/D



Size	A	B	C	D	E	F	G	H	H1	K	K1	L	N	T
913-913	7.10	4.12	6.15	3.25	1.72	1.63	0.25	3.56	2.31	5.38	4.13	—	3.68	0.343
918-913	8.43	5.16	7.38	4.00	2.06	2.00	0.25	4.38	3.00	6.63	5.25	—	4.50	0.406
921-913	9.50	6.03	8.38	4.88	2.28	2.44	0.31	4.88	3.13	7.19	5.44	—	5.10	0.468
924-913	10.06	6.31	8.94	4.88	2.50	2.44	0.31	5.25	3.38	7.69	5.81	—	5.44	0.468
924-918	10.06	6.31	8.94	4.88	2.50	2.44	0.31	5.25	3.38	7.69	5.81	—	5.44	0.468
926-913	11.68	7.38	10.13	5.75	2.94	2.88	0.31	5.59	3.63	8.44	6.47	—	6.13	0.531
926-918	11.68	7.38	10.13	5.75	2.94	2.88	0.31	5.59	3.63	8.44	6.47	—	6.13	0.531
930-918	12.50	8.25	11.13	6.00	3.25	3.00	0.38	5.88	3.94	9.00	7.06	—	6.75	0.531
932-918	13.38	9.00	11.88	6.12	3.50	3.06	0.38	6.25	4.69	9.88	8.31	6.65	7.13	0.531
938-924	15.70	10.00	13.94	8.00	3.97	4.00	0.94	7.00	5.25	10.96	9.21	7.34	8.32	0.531

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 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

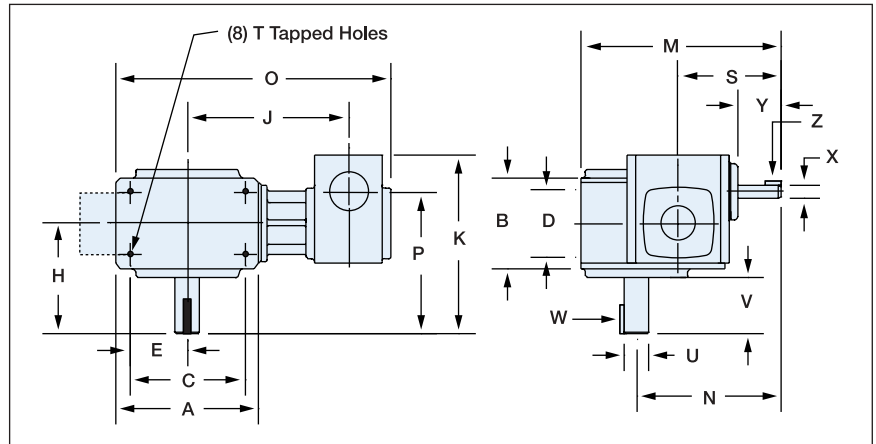
 1000 Series
In-Line Helical

 1000 Series
Helical-Worm

Engineering

Style DC Basic

900 Series Dimensions Double Reduction Solid Worm Type



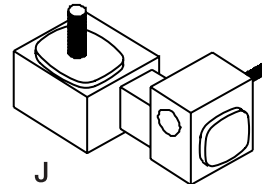
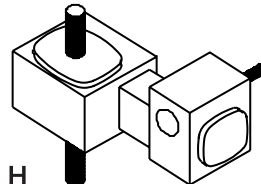
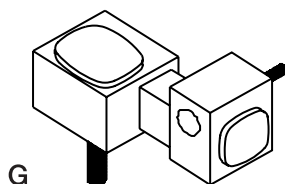
Size	A	B	C	D	E	H	J	K	M	N	O	P	S	Tap Size	Depth
913-913	4.31	2.88	3.25	2.00	1.63	4.00	5.87	6.93	6.96	5.24	9.84	5.33	3.91	0.312-18	0.62
918-913	5.56	3.69	4.19	2.75	2.09	4.31	6.50	7.24	7.72	5.66	11.13	5.64	3.91	0.312-18	0.62
921-913	6.06	3.81	5.00	2.88	2.50	4.69	6.85	7.62	8.25	5.97	11.72	6.02	3.91	0.375-16	0.75
924-913	6.44	4.06	5.00	2.88	2.50	5.09	7.04	8.02	8.79	6.29	12.10	6.42	3.91	0.375-16	0.75
924-918	6.44	4.06	5.00	2.88	2.50	5.09	7.44	8.78	9.76	7.26	12.94	6.84	4.88	0.375-16	0.75
926-913	7.38	4.44	6.38	3.38	3.19	5.62	7.44	8.55	9.47	6.54	12.98	6.95	3.91	0.375-16	0.75
926-918	7.38	4.44	6.38	3.38	3.19	5.62	7.85	9.31	10.44	7.51	13.92	7.37	4.88	0.375-16	0.75
930-918	8.25	5.06	7.00	4.00	3.50	6.75	8.25	10.44	11.13	7.88	14.62	8.50	4.88	0.437-14	0.88
932-918	8.92	5.88	7.50	4.00	3.75	7.06	8.67	10.75	11.63	8.13	18.94	8.81	4.88	0.437-14	0.88
938-924	10.00	6.37	8.50	4.75	4.25	7.75	9.86	12.19	13.38	9.50	19.63	10.12	5.75	0.500-13	0.75

Size	Output Shaft				Input Shaft				Approximate Weight Lbs.	Approximate Oil Capacity 1st Stage (oz.)	Approximate Oil Capacity 2nd Stage (oz.)
	U +.000 -.001	V	W-Key Sq.	Lgth.	X +.000 -.001	Y	Z-Key Sq.	Lgth.			
913-913	0.625	2.19	0.187	1.00	0.500	1.34	0.125	0.62	26	6.5	6.5
918-913	0.875	2.06	0.187	1.00	0.500	1.34	0.125	0.62	35	6.5	14.0
921-913	1.000	2.38	0.250	1.25	0.500	1.34	0.125	0.62	42	6.5	17.5
924-913	1.125	2.66	0.250	1.25	0.500	1.34	0.125	0.62	48	6.5	26.5
924-918	1.125	2.66	0.250	1.25	0.625	1.69	0.187	1.25	56	14.0	26.5
926-913	1.125	2.78	0.250	2.00	0.500	1.34	0.125	0.62	62	6.5	32.0
926-918	1.125	2.78	0.250	2.00	0.625	1.69	0.187	1.25	70	14.0	32.0
930-918	1.250	3.64	0.312	2.50	0.625	1.69	0.187	1.25	84	14.0	65.0
932-918	1.375	3.44	0.312	2.50	0.625	1.69	0.187	1.25	105	14.0	67.0
938-924	1.625	3.81	0.375	2.75	0.750	2.12	0.187	1.25	136	26.5	88.0

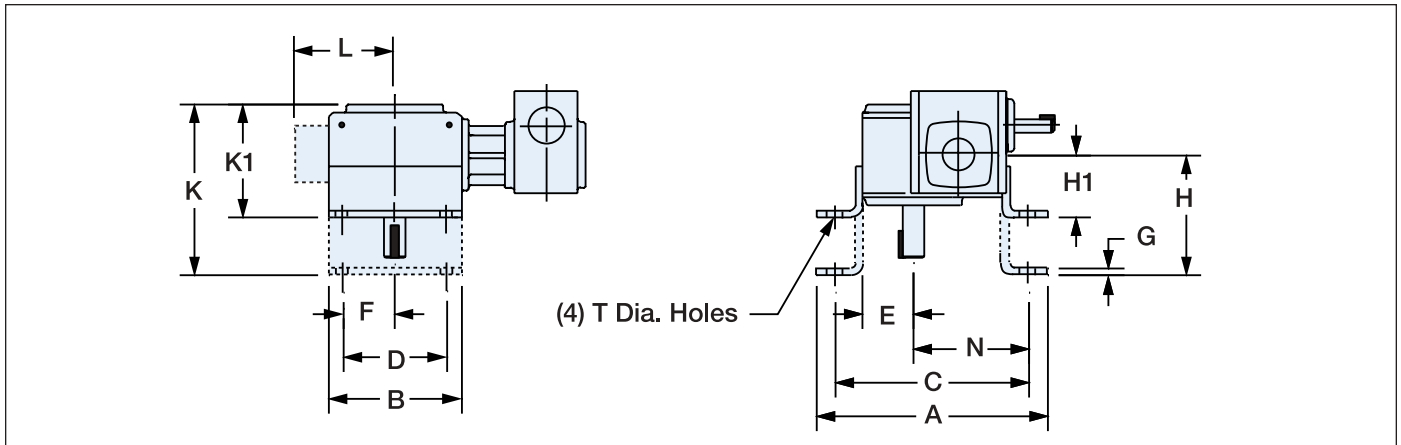
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Assembly Types

Standard



Style DC With Vertical Base Position C/D



Size	A	B	C	D	E	F	G	H	H1	K	K1	L	N	T
913-913	7.10	4.12	6.15	3.25	1.72	1.63	0.25	3.56	2.31	5.38	4.13	—	3.68	0.343
918-913	8.43	5.16	7.38	4.00	2.06	2.00	0.25	4.38	3.00	6.63	5.25	—	4.50	0.406
921-913	9.50	6.03	8.38	4.88	2.28	2.44	0.31	4.88	3.13	7.19	5.44	—	5.10	0.468
924-913	10.06	6.31	8.94	4.88	2.50	2.44	0.31	5.25	3.38	7.69	5.81	—	5.44	0.468
924-918	10.06	6.31	8.94	4.88	2.50	2.44	0.31	5.25	3.38	7.69	5.81	—	5.44	0.468
926-913	11.68	7.38	10.13	5.75	2.94	2.88	0.31	5.59	3.63	8.44	6.47	—	6.13	0.531
926-918	11.68	7.38	10.13	5.75	2.94	2.88	0.31	5.59	3.63	8.44	6.47	—	6.13	0.531
930-918	12.88	8.50	11.38	6.12	3.25	3.06	0.81	6.25	4.69	9.36	7.80	—	6.88	0.531
932-918	13.38	9.00	11.88	6.12	3.50	3.06	0.38	6.25	4.69	9.88	8.31	6.65	7.13	0.531
938-924	15.70	10.00	13.94	8.00	3.88	4.00	0.94	7.00	5.25	8.59	6.84	7.34	8.31	0.598

Rating Information Page 54-63

900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

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Engineering

Accessories

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900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

Accessories and Options

7/8 x 5/8 Bushing



Applications: Precision Shaft Adapter for use between a 56C Frame Motor and a "C" Face Input Reducer with a 7/8 dia. Quill Mount.

Order by Catalog Number

Description	Catalog Number
Reducer Bushing	133-6FBA

LF900 Series C-Face Kits



Kit adapts NEMA C-Face motors to 900 Series Type S Reducers. Includes flange, flexible coupling and mounting hardware.

Order by Catalog Number

Size	NEMA Flange	Catalog Number
913	56C	SFL913B5
915	56C	SFL918B5
	140TC	SFL918B7
918	56C	SFL918B5
	140TC	SFL918B7
921	56C	SFL921B5
	140TC	SFL921B7
924	56C	SFL924B5
	140TC	SFL924B7
	180TC	SFL924B9
926	56C	SFL926B5
	140TC	SFL926B7
	180TC	SFL926B9

Double Reduction Adapter Kits



900 Series Double Reduction units may be assembled from stock single reduction units using the adapter kits.

Catalog Number	Primary Unit (Except shaft mount)	Secondary Unit (F and HF styles only)
DR913X913B5	913	913-B5
DR913X918B5	913	918-B5
DR913X921B5	913	921-B5
DR913X924B5	913	924-B5
DR913X926B5	913	926-B5
DR918X924B7	918	924-B7
DR918X926B7	918	926/930-B7
DR918X932B7	918	932-B7
DR924X938B9	924	938-B9

Each adapter kit consists of:

1 Adapter	1 Bearing Cup (Installed)	1 Seal (Installed)	1 Shim Set
4 Screws	4 Lock Washers	1 Sealant Package	

Accessories and Options

900 Series Horizontal Base



900 Series Riser Block Kit



Riser Blocks permit the gearbox to be mounted in the most desirable position (high speed input shaft above the oil level). They mount on top of the gearbox to provide clearance between the motor and the mounting surface. Kit includes the Riser Block and attachment bolts.

Horizontal base sold separately.

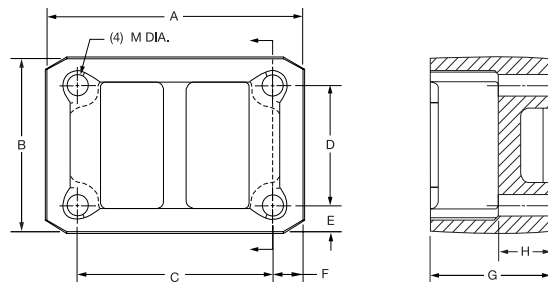
Dimension for kits assembled on units are shown on page 31.

Horizontal Bases for 900 Series Washdown Units

Size	Catalog Number
913	WDB13H71
915	WDB15H71
918	WDB18H71
921	WDB21H71
924	WDB24H71
926	WDB26H71
930	WDB30H71
932	WDB32H71

Riser Block Kits for 900 Series Units

Size	Motor Frame	Catalog Number
913	56C	RBK13B5
915	56C / 140TC	RBK15B5
918	56C / 140TC	RBK18B5
921	56C / 140TC	RBK21B5
924	56C / 140TC	RBK24B5
924	180TC	RBK24B9
926	56C / 140TC	RBK26B5
926	180TC	RBK26B9
930	56C / 140TC	RBK30B5
930	180TC	RBK30B9
932	56C / 140TC	RBK32B5
932	180TC	RBK32B9



Size	Mtr. Frame	Catalog Number	A	B	C	D	E	F	G	H	M
913	56C	RBK13B5	4.25	2.88	3.25	2.00	0.44	0.50	2.00	0.88	0.36
913	56C/140TC	RBK15B5	5.12	3.69	4.19	2.75	0.47	0.47	1.60	0.88	0.36
918	56C/140TC	RBK18B5	5.50	3.69	4.19	2.75	0.47	0.66	1.69	0.88	0.36
921	56C/140TC	RBK21B5	6.00	3.81	5.00	2.88	0.47	0.50	1.53	0.88	0.42
924	56C/140TC	RBK24B5	6.38	4.06	5.00	2.88	0.59	0.69	1.50	0.88	0.42
924	180TC	RBK24B9	6.38	4.06	5.00	2.88	0.59	0.69	3.00	2.38	0.42
926	56C/140TC	RBK26B5	7.38	4.44	6.38	3.38	0.53	0.50	1.25	0.75	0.42
926	180TC	RBK26B9	7.38	4.44	6.38	3.38	0.53	0.50	2.51	2.00	0.42
930	56C/140TC	RBK30B5	8.16	5.29	7.00	4.00	0.65	0.58	1.07	1.07	0.49
930	180TC	RBK30B9	8.16	5.29	7.00	4.00	0.65	0.58	2.13	2.13	0.49
932	56C/140TC	RBK32B5	9.00	5.88	7.50	4.00	0.94	0.75	1.19	0.88	0.49
932	180TC	RBK32B9	9.00	5.88	7.50	4.00	0.94	0.75	2.38	2.07	0.49

Accessories and Options

900 Series Horizontal and Vertical Base Kits

HORIZONTAL BASE



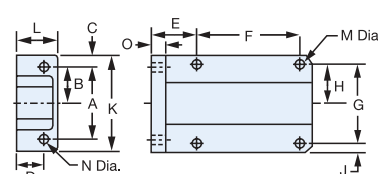
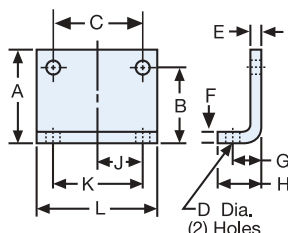
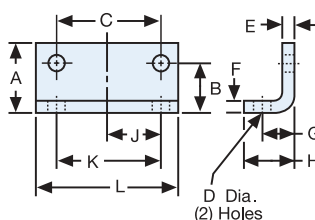
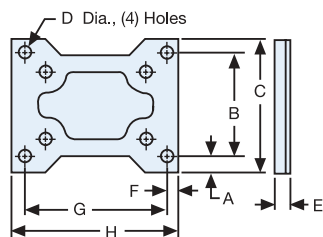
VERTICAL LOW BASE



VERTICAL HIGH BASE



VERTICAL J BASE



OPTIONAL 900 SERIES HORIZONTAL, VERTICAL AND J BASE KITS

Base Description	Size (Position)	Catalog Number	A	B	C	D	E	F	G	H	J	K	L	M	N	O	Approximate Shipping Weight
HORIZ.	913 (A, B)	B13H71	0.44	3.31	4.19	0.34	0.53	0.50	4.38	5.38	—	—	—	—	—	—	1
VERT., low	913 (D, F)	B13V81	1.75	1.31	2.00	0.34	0.31	0.31	0.75	1.22	1.63	3.25	4.13	—	—	—	2
VERT., high	913 (C, E)	B13V91	3.13	2.56	2.00	0.34	0.31	0.31	0.75	1.22	1.63	3.25	4.13	—	—	—	2
VERT. J	913 (X, Y)	B13J92	2.00	1.00	0.44	0.88	0.85	3.25	2.00	1.00	0.44	2.88	1.31	0.34	0.34	0.53	2
HORIZ.	915 (A, B)	B15H71	0.57	4.31	5.44	0.41	0.60	0.60	5.25	6.44	—	—	—	—	—	—	2
HORIZ.	918 (A, B)	B18H71	0.59	4.50	5.69	0.41	0.69	0.63	5.75	7.00	—	—	—	—	—	—	2
VERT., low	915/918 (D, F)	B18V81	2.13	1.63	2.75	0.41	0.31	0.31	0.81	1.34	2.00	4.00	5.16	—	—	—	3
VERT., high	915/918 (C, E)	B18V91	3.63	3.00	2.75	0.41	0.31	0.31	0.81	1.34	2.00	4.00	5.16	—	—	—	3
VERT. J	915/918 (X, Y)	B18J92	2.15	1.25	0.44	0.94	1.41	4.19	2.75	1.38	0.31	3.38	1.44	0.34	0.41	0.69	3
HORIZ.	921G (A, B)	B21GH71	0.63	4.69	5.94	0.47	0.72	0.69	6.38	7.75	—	—	—	—	—	—	3
HORIZ.	921 (A, B)	B21H71	0.63	4.69	5.94	0.47	0.72	0.69	6.38	7.75	—	—	—	—	—	—	3
VERT., low	921 (D, F)	B21V81	4.13	3.44	2.88	0.47	0.38	0.38	1.00	1.56	2.44	4.88	6.03	—	—	—	3
VERT., high	921 (C, E)	B21V91	4.13	3.44	2.88	0.47	0.38	0.38	1.00	1.56	2.44	4.88	6.03	—	—	—	3
VERT. J	921 (X, Y)	B21J92	2.62	1.31	0.57	1.12	1.44	5.00	2.88	1.44	0.44	3.75	1.69	0.41	0.47	0.72	3
HORIZ.	924 (A, B)	B24H71	0.66	4.88	6.19	0.47	0.75	0.72	7.06	8.50	—	—	—	—	—	—	3
VERT., low	924 (D, F)	B24V81	2.50	1.94	2.88	0.47	0.38	0.38	1.00	1.56	2.44	4.88	6.31	—	—	—	4
VERT., high	924 (C, E)	B24V91	4.50	3.81	2.88	0.47	0.38	0.38	1.00	1.56	2.44	4.88	6.31	—	—	—	4
VERT. J	924 (X, Y)	B24J92	2.88	1.44	0.59	1.12	1.56	5.00	2.88	1.44	0.59	4.06	1.69	0.41	0.47	0.75	4
HORIZ.	926 (A, B)	B26H71	0.70	5.25	6.66	0.53	0.75	0.81	8.00	9.63	—	—	—	—	—	—	4
VERT., low	926 (D, F)	B26V81	2.50	1.94	3.38	0.53	0.38	0.38	1.06	1.84	2.88	5.75	7.38	—	—	—	6
VERT., high	926 (C, E)	B26V91	4.59	3.91	3.38	0.53	0.38	0.38	1.06	1.84	2.88	5.75	7.38	—	—	—	6
VERT. J	926 (X, Y)	B26J92	3.13	1.56	0.66	1.19	1.56	6.38	3.38	1.69	0.53	4.44	1.88	0.41	0.53	0.75	6
HORIZ.	930 (A, B)	B30H71	0.83	5.88	7.54	0.47	0.75	0.89	8.44	10.21	—	—	—	—	—	—	8
VERT. low	930 (D, F)	B30V81	—	—	7.00	0.53	—	0.88	—	—	3.00	6.00	8.25	—	—	—	13
VERT. high	930 (C, E)	B30V91	—	—	7.00	0.53	—	0.88	—	—	3.00	6.00	8.25	—	—	—	16
HORIZ.	932 (A, B)	B32H71	0.77	6.13	7.66	0.53	0.88	0.84	9.50	11.19	—	—	—	—	—	—	10
VERT., low	932 (D, F)	B32V81	3.44	2.69	4.00	0.53	0.50	0.50	1.25	2.00	3.06	6.13	9.00	—	—	—	16
VERT., high	932 (C, E)	B32V91	5.13	4.25	4.00	0.53	0.50	0.50	1.25	2.00	3.06	6.13	9.00	—	—	—	19
VERT. J	932 (X, Y)	*	4.00	2.00	0.50	1.59	1.94	7.50	4.00	2.00	0.50	5.00	2.31	0.47	0.53	0.81	6
HORIZ.	938 (A, B)	B38H71	0.83	6.12	7.78	0.54	0.88	0.89	9.50	11.27	—	—	—	—	—	—	15
VERT., low	938 (D, F)	B38V81	8.44	2.86	4.75	0.60	0.50	0.94	1.75	2.63	4.00	8.00	10.00	—	—	—	25
VERT., high	938 (C, E)	B38V91	10.19	4.63	8.50	0.60	0.50	0.94	1.75	2.63	4.00	8.00	10.00	—	—	—	28

* Vertical J for 932 Part No. HA6622A07SP can be used only if cooling fan is omitted. Unit must be derated 33%.

Accessories and Options

Torque Arm Kits

Kit includes turnbuckle and both mounting brackets.

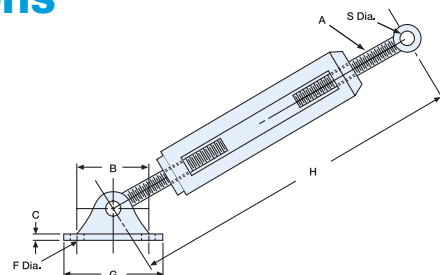


Table 1

Size	Catalog Number	A	B	C	F	G	H (Inches)	S
913	TA13HK	0.500 - 13	2.50	0.18	0.375	3.50	9 - 15	0.53
918	TA18HK	0.500 - 13	2.50	0.18	0.375	3.50	9 - 15	0.53
921	TA21HK	0.625 - 13	2.50	0.18	0.375	3.50	24 - 30	0.53
924	TA24HK	0.625 - 13	2.50	0.18	0.375	3.50	24 - 30	0.53
926	TA26HK	0.625 - 13	2.50	0.18	0.375	3.50	24 - 30	0.53
930	TA30HK	0.625 - 13	2.50	0.18	0.375	3.50	24 - 30	0.53
932	TA32HK	0.625 - 13	2.50	0.18	0.375	3.50	24 - 30	0.53
938	TA38HK	0.625 - 13	2.50	0.18	0.375	3.50	24 - 30	0.53

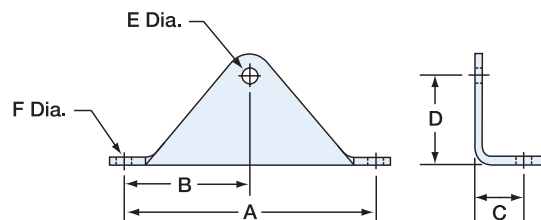
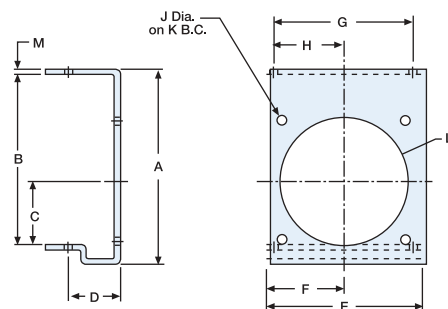


Table 2

Size	Catalog Number	A	B	C	D	E	F	Weight (Lbs.)
913	TA13HK	3.25	1.63	0.75	1.22	0.53	0.344	0.6
918	TA18HK	4.19	2.09	0.95	1.38	0.53	0.344	0.9
921	TA21HK	5.00	2.50	1.28	1.97	0.53	0.406	1.0
924	TA24HK	5.00	2.50	1.28	2.25	0.53	0.406	1.2
926	TA26HK	6.38	3.19	1.31	2.38	0.53	0.406	1.4
930	TA30HK	7.00	3.50	1.44	2.62	0.53	0.468	1.7
932	TA32HK	7.50	3.75	1.35	3.19	0.53	0.468	2.0
938	TA38HK	8.50	4.25	1.68	3.00	0.53	0.531	2.5

Output Flange Kits



Size	Catalog Number	A	B	C	D	E	F	G	H	J	K	L	M	Weight Lbs.
913	FL13HK	5.56	4.66	1.72	2.00	4.25	2.13	3.25	1.63	.344	5.000	3.63	.19	2.7
915	FL15HK	6.19	5.38	1.91	2.19	4.75	2.38	4.19	2.09	.344	5.000	3.63	.19	3.3
918	FL18HK	6.66	5.75	2.06	2.13	4.81	2.41	4.19	2.09	.344	5.875	4.06	.19	3.4
921	FL21HK	7.43	6.38	2.28	2.31	5.75	2.88	5.00	2.50	.406	6.500	4.50	.19	4.6
924	FL24HK	8.24	6.94	2.50	2.28	6.13	3.06	5.00	2.50	.406	7.500	5.00	.19	5.1
926	FL26HK	9.25	8.00	2.94	2.37	7.18	3.59	6.38	3.19	.406	8.000	6.00	.25	8.4
930	FL30HK	10.02	8.88	3.25	2.50	8.50	4.25	7.00	3.50	.406	9.000	7.00	.25	10.1
932	FL32HK	10.89	9.38	3.50	3.25	8.50	4.25	7.50	3.75	.563	10.000	7.00	.25	11.9
938	FL38HK	11.85	10.44	3.88	3.08	9.54	4.77	8.50	4.25	.563	11.500	8.00	.25	13.3

900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

Accessories and Options

Bushing Kits for Hollow Shaft Reducers



Size	Shaft Diameter	Bushing Kit Number	Size	Shaft Diameter	Bushing Kit Number
918	0.750	BU100H012	924/926	1.250	BU107H104
918	0.875	BU100H014	924/926	1.312	BU107H105
918	0.937	BU100H015	930/932	1.437	BU115H107
921	1.125	BU104H102	930/932	1.500	BU115H108
924/926	0.937	BU107H015	930/932	1.625	BU115H110
924/926	1.000	BU107H100	930/932	1.687	BU115H111
924/926	1.125	BU107H102	930/932	1.750	BU115H112
924/926	1.187	BU107H103			

900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

Universal Series Single Reduction

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900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

Universal Series Style Reference Guide

Single Reduction

STF



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SVF



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ST



Ratings P. 87 - 90
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SB



Ratings P. 87 - 90
Dimensions P. 94

SV



Ratings P. 87 - 90
Dimensions P. 95

STL



Ratings P. 87 - 90
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SVL



Ratings P. 87 - 90
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900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

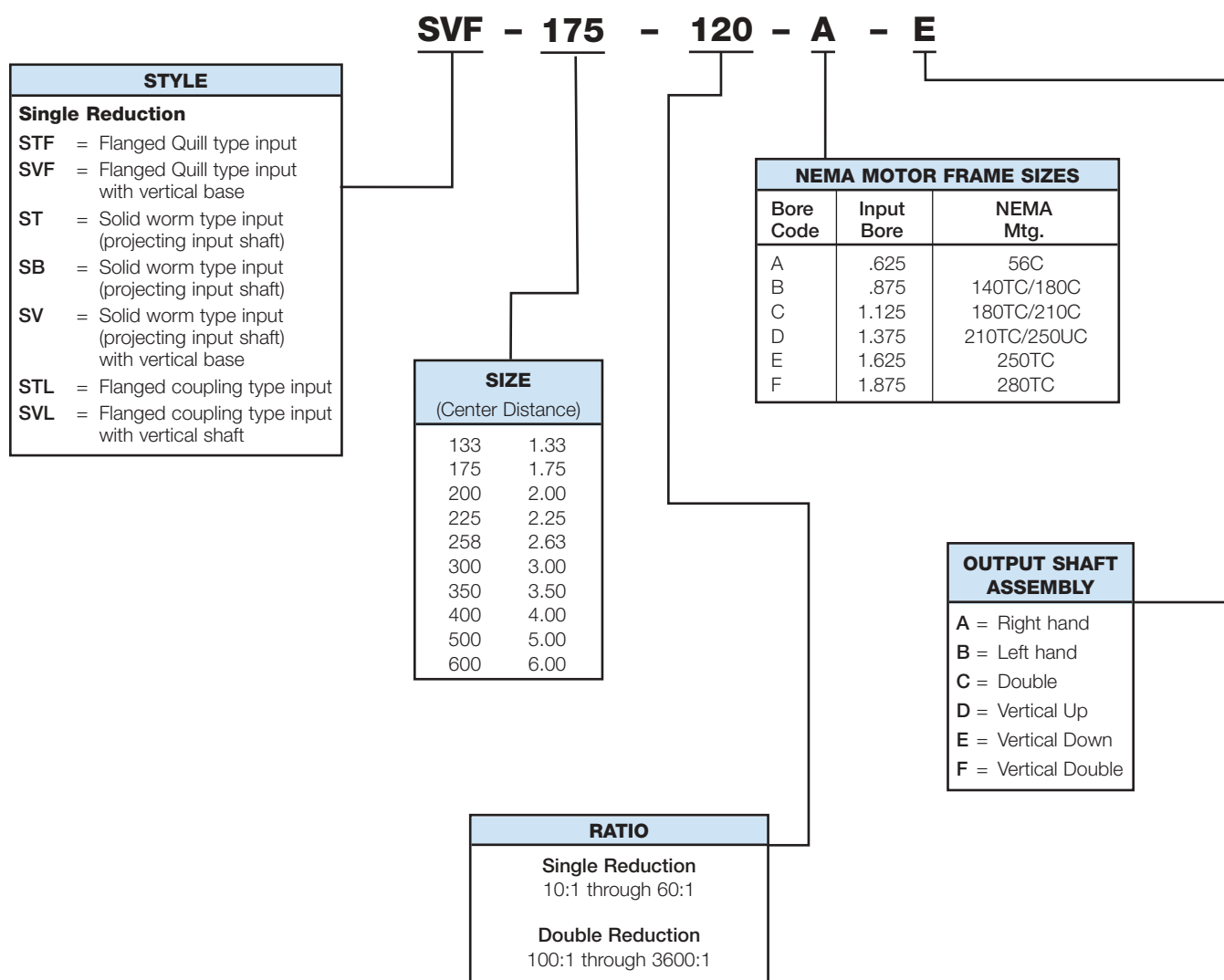
Ratio Multiplier

1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

Universal Series Numbering System/How to Order



HOW TO ORDER

Please specify Style, Size, Base (if required), Ratio, NEMA Input Flange (if flanged reducer), Output shaft assembly.

EXAMPLE

Required size, 175, Quill type input, 10:1, 56C, vertical shaft down

Order **SVF-175-10-A-E** or **GSF1018AA** with Vertical Base Kit **B1317V81** from stock.

BALDOR UNIVERSAL SERIES REDUCERS HAVE PIPE PLUG LOCATIONS THAT ALLOW MOUNTING IN A CHOICE OF SEVERAL POSITIONS BY CHANGING THE LOCATION OF THE OIL VENT/FILL PLUG AT INSTALLATION. SEE PAGE 200 FOR MOUNTING POSITION CHOICES AND VENT/FILL PLUG LOCATIONS.

Universal Series Selection Procedure

REQUIRED INFORMATION

To select the proper reducer for a given application, several important factors should be taken into consideration. They are: Application, Horsepower, Torque, Ratio and Overhung Load.

Note: See Engineering Information page 148 for detailed information and calculations on horsepower, torque, ratio and overhung load.

CLASS OF SERVICE (APPLICATION)

The horsepower, torque and overhung load ratings shown in the catalog are based on a service factor of 1.0. For applications conforming to a 1.0 service factor, the catalog ratings may be used directly. For applications not conforming to a 1.0 service factor, the catalog rating must be divided by the appropriate service factor from the service factor table. The catalog ratings may be used directly if the actual application horsepower and torque requirements are multiplied by the appropriate service factor.

SERVICE FACTORS				
Prime Mover	Duration of Service Total Operating Time per Day	Driven Machine Load Classifications		
		Uniform	Moderate Shock	Heavy Shock
Electric Motor	Occasional 1/2 Hour	0.80	0.90	1.00
	Intermittent 2 Hours	0.90	1.00	1.25
	10 Hours	1.00	1.25	1.50
	24 Hours	1.25	1.50	1.75
Multi-Cylinder Internal Combustion Engine	Occasional 1/2 Hour	0.90	1.00	1.25
	Intermittent 2 Hours	1.00	1.25	1.50
	10 Hours	1.25	1.50	1.75
	24 Hours	1.50	1.75	2.00
Single Cylinder Internal Combustion Engine	Occasional 1/2 Hour	1.00	1.25	1.50
	Intermittent 2 Hours	1.25	1.50	1.75
	10 Hours	1.50	1.75	2.00
	24 Hours	1.75	2.00	2.25

Service Factors for Applications Involving Frequent Stops and Starts — More than 10 Starts Per Hour

Electric Motor	Occasional 1/2 Hour	0.90	1.00	1.25
	Intermittent 2 Hours	1.00	1.25	1.50
	10 Hours	1.25	1.50	1.75
	24 Hours	1.50	1.75	2.00

SELECTION PROCEDURE

- Step 1. Select appropriate service factor.
- Step 2. Multiply actual application output torque or horsepower required by service factor to obtain design horsepower or torque.
- Step 3. Determine appropriate reducer ratio based on input speed and required output speed.
- Step 4. Select proper size reducer, based on horsepower and/or torque, service factor and ratio.
- Step 5. Determine whether overhung load capacity of reducer selected exceeds actual overhung load of drive.
- Step 6.
 - a. Determine proper mounting arrangement.
 - b. For C-flange (motorized) reducers determine proper catalog designation to accommodate the frame number of the number of the motor to be used.

SELECTION EXAMPLE

Selection the correct C-flange (motorized) reducer to drive a package conveyor, based on the following requirements.

- a. Eight hours continuous service per 24 hours, no shock loading.
- b. 1 HP, 1750 rpm motor, 56C frame, 875 in. lbs. output torque required.
- c. 58 output rpm required.
- d. 4.193" pitch diameter sprocket on output shaft.
- e. Input worm over single lefthand output shaft, floor mount.

Step 1. Eight hour service, no shock loading indicates use of 1.00 service factor.

Step 2. 1 HP x 1.00 service factor = 1.00 design HP.
875 in. lbs. x 1.00 = 875 in. lbs. output torque capacity required.

Step 3. Determine ratio:

$$\text{Ratio} = \frac{\text{Input RPM}}{\text{Output RPM}} = \frac{1750}{58} = 30.2, \text{ use } 30:1$$

Step 4. Refer to catalog rating tables, smallest unit capable of handling 1.00 input HP, 875 in. lbs. output torque at 30:1 ratio is size 258.

Step 5. Determine whether overhung load of drive exceeds capacity of reducer selected;

$$\text{OHL} = \frac{\text{Torque} \times K}{r (\text{sprocket radius})} = \frac{875 \times 1.00}{2.097} = 418 \text{ Lbs}^*$$

See Engineering pg. 148 for Constants

418 pounds is well below the 900 pounds overhung load rating of the reducer selected.

Step 6. Worm over, left hand output extension conforms to Assembly Type G. Use STF-258-30-A-B which has a 30:1 ratio and a motor mounting flange and input bore to accommodate a NEMA 56C motor.

As an alternative to the above, a two-to-one sprocket reduction could be used. With a 21-tooth sprocket on the output shaft and a 42-tooth sprocket on the driven shaft, the torque at the reducer output has been cut in half to 438 lb. in. The reducer ratio requirement has also been cut in half to 15:1. (15:1 reducer x 2:1 sprocket set = 30:1 total)

Now the drive requires a reducer of 15:1 ratio, 438 lb. in. torque capability and an overhung load of 209 lbs.

$$\text{OHL} = \frac{438(T) \times 1(K)}{2.097 (\text{sprocket radius})} = 209 \text{ lbs. (See Engineering pg. 148)}$$

This requirement can be filled by Baldor's STF-200-30-A-B. It has an output torque capacity of 605 lbs. in. and an overhung load rating of 600 lbs.

By using the 2:1 secondary sprocket reduction, the reducer size has been reduced to two full sizes and an approximately 25% reduction in reducer cost.

*If using output horsepower instead of torque to determine overhung load, use formula:

$$\text{OHL} = \frac{\text{HP} \times 63,025 \times K}{N \times R} = \text{(See Engineering pg. 148)}$$

Universal Series Single Reduction Ratio and Capacity Selection Tables

HORSEPOWER & TORQUE RATINGS FOR SERVICE CLASS I (1.0 Service Factor)											
Ratio	Input RPM	Output RPM	SIZE 133			SIZE 175			SIZE 200		
			Input Hp	Output Hp	Output Torque In. Lbs.	Input Hp	Output Hp	Output Torque In. Lbs.	Input Hp	Output Hp	Output Torque In. Lbs.
10	2400	240.0	0.744	0.663	174	1.297	1.174	308	1.988	1.824	479
	1750	175.0	0.640	0.576	207	1.220	1.100	396	1.770	1.590	572
	1150	115.0	0.485	0.437	229	0.950	0.855	449	1.360	1.220	641
	850	85.0	0.390	0.351	246	0.775	0.697	488	1.120	1.000	700
	100	10.0	0.059	0.053	334	0.121	0.109	687	0.175	0.158	995
15	2400	160.0	0.556	0.473	186	0.947	0.821	323	1.484	1.318	519
	1750	116.7	0.465	0.409	221	0.875	0.770	416	1.280	1.120	605
	1150	76.7	0.345	0.303	239	0.665	0.585	461	0.980	0.862	679
	850	56.7	0.285	0.251	264	0.554	0.487	511	0.805	0.708	743
	100	6.7	0.043	0.037	350	0.087	0.076	719	0.127	0.111	1050
20	2400	120.0	0.447	0.363	191	0.774	0.647	340	1.181	1.014	532
	1750	87.5	0.360	0.306	220	0.685	0.582	419	1.000	0.850	612
	1150	57.5	0.270	0.229	240	0.520	0.442	464	0.760	0.646	678
	850	42.5	0.220	0.187	262	0.430	0.365	511	0.625	0.531	743
	100	5.0	0.033	0.028	353	0.067	0.057	718	0.098	0.083	1046
25	2400	96.0	0.377	0.293	192	0.624	0.497	326	0.987	0.820	538
	1750	70.0	0.295	0.242	218	0.550	0.451	406	0.815	0.668	601
	1150	46.0	0.220	0.180	236	0.420	0.344	451	0.625	0.512	672
	850	34.0	0.180	0.147	257	0.350	0.287	502	0.512	0.420	735
	100	4.0	0.027	0.022	347	0.055	0.045	709	0.090	0.074	1166
30	2400	80.0	0.328	0.244	192	0.564	0.436	343	0.852	0.685	540
	1750	58.3	0.247	0.198	214	0.470	0.376	406	0.729	0.584	631
	1150	38.3	0.186	0.149	235	0.360	0.288	454	0.520	0.416	655
	850	28.3	0.152	0.122	256	0.295	0.236	495	0.430	0.344	722
	100	3.3	0.023	0.018	344	0.043	0.034	649	0.068	0.054	1031
40	2400	60.0	0.264	0.181	190	0.449	0.323	339	0.672	0.509	534
	1750	43.8	0.190	0.143	206	0.360	0.270	389	0.525	0.394	568
	1150	28.8	0.142	0.107	225	0.275	0.206	433	0.400	0.300	630
	850	21.3	0.115	0.085	241	0.226	0.170	476	0.330	0.248	694
	100	21.3	0.016	0.012	302	0.036	0.027	680	0.052	0.039	983
50	2400	48.0	0.220	0.140	183	0.358	0.238	312	0.549	0.392	515
	1750	35.0	0.152	0.106	191	0.286	0.200	360	0.425	0.298	536
	1150	23.0	0.115	0.081	213	0.220	0.154	404	0.323	0.226	593
	850	17.0	0.094	0.066	231	0.180	0.126	441	0.265	0.186	651
	100	2.0	0.014	0.010	315	0.028	0.020	630	0.042	0.029	914
60	2400	40.0	0.186	0.111	174	0.311	0.197	310	0.459	0.310	488
	1750	29.2	0.128	0.083	180	0.244	0.159	343	0.360	0.234	505
	1150	19.2	0.096	0.062	195	0.187	0.126	397	0.270	0.176	554
	850	14.2	0.078	0.051	214	0.153	0.099	416	0.220	0.143	600
	100	1.7	0.011	0.007	276	0.024	0.015	591	0.035	0.023	906
Overhung Load*			Input Shaft 155 lbs. Output Shaft 280 lbs.			Input Shaft 155 lbs. Output Shaft 460 lbs.			Input Shaft 225 lbs. Output Shaft 650 lbs.		
Output Shaft Thrust Load			300 lbs.			400 lbs.			600 lbs.		
Maximum Input Speed			4500 RPM			3600 RPM			3600 RPM		

*Overhung Load Rating is at center of shaft extension with no thrust load.

 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

 1000 Series
In-Line Helical

 1000 Series
Helical-Worm

Engineering

Universal Series Single Reduction Ratio and Capacity Selection Tables

HORSEPOWER & TORQUE RATINGS FOR SERVICE CLASS I (1.0 Service Factor)

Ratio	Input RPM	Output RPM	SIZE 225			SIZE 258			SIZE 300		
			Input Hp	Output Hp	Output Torque In. Lbs.	Input Hp	Output Hp	Output Torque In. Lbs.	Input Hp	Output Hp	Output Torque In. Lbs.
10	2400	240.0	2.631	2.431	638	3.984	3.701	972	5.252	4.680	1229
	1750	175.0	2.440	2.190	788	3.430	3.080	1109	4.400	3.960	1426
	1150	115.0	1.860	1.670	877	2.650	2.380	1250	3.530	3.170	1664
	850	85.0	1.530	1.370	959	2.200	1.980	1386	2.950	2.650	1855
	100	10.0	0.243	0.219	1380	0.365	0.328	2066	0.510	0.460	2898
15	2400	160.0	1.939	1.750	689	2.955	2.672	1052	3.939	3.351	1320
	1750	116.7	1.840	1.620	875	2.500	2.200	1188	3.250	2.860	1544
	1150	76.7	1.390	1.220	961	1.940	1.700	1340	2.580	2.270	1789
	850	56.7	1.140	1.000	1050	1.600	1.410	1481	2.160	1.900	1995
	100	6.7	0.176	0.155	1466	0.260	0.228	2156	0.368	0.324	3065
20	2400	120.0	1.564	1.360	714	2.348	2.060	1082	3.088	2.508	1317
	1750	87.5	1.350	1.150	828	1.920	1.630	1174	2.520	2.140	1541
	1150	57.5	1.040	0.884	928	1.480	1.260	1323	2.020	1.710	1796
	850	42.5	0.850	0.722	1011	1.230	1.040	1456	1.680	1.430	2002
	100	5.0	0.136	0.115	1449	0.202	0.171	2154	0.285	0.242	3049
25	2400	96.0	1.294	1.098	721	1.955	1.673	1098	2.577	2.003	1315
	1750	70.0	1.090	0.904	814	1.520	1.250	1125	2.080	1.710	1539
	1150	46.0	0.825	0.676	887	1.180	0.967	1269	1.650	1.350	1771
	850	34.0	0.685	0.561	981	0.985	0.807	1412	1.380	1.130	1978
	100	4.0	0.111	0.091	1433	0.165	0.135	2126	0.235	0.193	3040
30	2400	80.0	1.110	0.917	722	1.675	1.397	1100	2.189	1.629	1283
	1750	58.3	0.980	0.784	847	1.350	1.080	1166	1.740	1.390	1501
	1150	38.3	0.745	0.596	939	1.040	0.832	1310	1.390	1.110	1748
	850	28.3	0.610	0.488	1025	0.860	0.688	1445	1.160	0.928	1949
	100	3.3	0.094	0.075	1432	0.140	0.112	2138	0.196	0.157	2997
40	2400	60.0	0.882	0.682	716	1.319	1.036	1088	1.744	1.196	1256
	1750	43.8	0.710	0.536	772	1.010	0.760	1095	1.360	1.020	1470
	1150	28.8	0.545	0.409	859	0.780	0.585	1229	1.080	0.810	1701
	850	21.3	0.450	0.338	946	0.645	0.484	1355	0.900	0.675	1890
	100	21.3	0.072	0.054	1361	0.106	0.080	2016	0.153	0.115	2898
50	2400	48.0	0.709	0.526	690	1.054	0.685	900	1.381	0.879	1154
	1750	35.0	0.550	0.385	693	0.790	0.553	995	1.070	0.750	1350
	1150	23.0	0.430	0.301	790	0.615	0.431	1131	0.850	0.595	1562
	850	17.0	0.354	0.248	868	0.510	0.357	1250	0.710	0.497	1740
	100	2.0	0.058	0.041	1291	0.086	0.060	1890	0.118	0.083	2615
60	2400	40.0	0.590	0.416	656	0.952	0.571	900	1.072	0.640	1008
	1750	29.2	0.510	0.325	702	0.695	0.452	976	0.840	0.546	1179
	1150	19.2	0.385	0.250	788	0.525	0.341	1074	0.670	0.436	1373
	850	14.2	0.315	0.205	861	0.445	0.290	1218	0.560	0.364	1529
	100	1.7	0.049	0.032	1260	0.072	0.047	1851	0.094	0.061	2402
Overhung Load*			Input Shaft 225 lbs. Output Shaft 870 lbs.			Input Shaft 414 lbs. Output Shaft 1200 lbs.			Input Shaft 414 lbs. Output Shaft 1575 lbs.		
Output Shaft Thrust Load			750 lbs.			900 lbs.			1100 lbs.		
Maximum Input Speed			3600 RPM			3600 RPM			3600 RPM		

*Overhung Load Rating is at center of shaft extension with no thrust load.

Universal Series Single Reduction Ratio and Capacity Selection Tables

HORSEPOWER & TORQUE RATINGS FOR SERVICE CLASS I (1.0 Service Factor)											
Ratio	Input RPM	Output RPM	SIZE 350 FC			SIZE 400 FC			SIZE 500 FC		
			Input Hp	Output Hp	Output Torque In. Lbs.	Input Hp	Output Hp	Output Torque In. Lbs.	Input Hp	Output Hp	Output Torque In. Lbs.
10	2400	240.0	8.320	7.758	2036	11.305	10.587	2779	19.105	17.983	4721
	1750	175.0	6.680	5.940	2138	9.770	8.690	3128	17.600	15.660	5638
	1150	115.0	5.800	5.160	2709	8.420	7.500	3938	15.000	13.350	7009
	850	85.0	5.030	4.470	3129	7.210	6.410	4487	13.000	11.570	8099
	100	10.0	0.877	0.780	4914	1.350	1.200	7560	2.590	2.300	14490
15	2400	160.0	6.167	5.594	2203	8.503	7.771	3060	14.140	13.000	5118
	1750	116.7	5.350	4.650	2525	7.350	6.380	3464	13.220	11.370	6122
	1150	76.7	4.640	4.030	3171	6.430	5.600	4407	11.540	9.920	7812
	850	56.7	4.030	3.500	3675	5.560	4.830	5071	10.200	8.700	9212
	100	6.7	0.716	0.623	5946	1.020	0.880	8400	1.950	1.680	16036
20	2400	120.0	4.869	4.294	2254	6.599	5.866	3080	11.160	9.989	5244
	1750	87.5	3.890	3.300	2363	5.800	4.930	3530	11.100	9.430	6790
	1150	57.5	3.400	2.890	3034	5.090	4.320	4536	9.520	8.090	8495
	850	42.5	2.970	2.520	3528	4.490	3.810	5334	8.350	7.090	9926
	100	5.0	0.562	0.477	5254	0.861	0.732	9223	1.630	1.380	17388
30	2400	80.0	3.533	2.971	2340	4.729	4.016	3162	7.827	6.729	5299
	1750	58.3	2.820	2.250	2443	4.100	3.280	3562	7.820	6.250	6754
	1150	38.3	2.440	1.950	3071	3.600	2.880	4536	6.780	5.420	8536
	850	28.3	2.130	1.700	3570	3.170	2.530	5313	5.830	4.660	9786
	100	3.3	0.394	0.315	6013	0.608	0.486	9278	1.150	0.920	17564
40	2400	60.0	2.711	2.147	2255	3.660	2.943	3091	6.156	5.000	5248
	1750	43.8	2.240	1.680	2405	3.210	2.410	3448	6.050	4.540	6500
	1150	28.8	1.980	1.480	3108	2.860	2.150	4515	5.110	3.830	8043
	850	21.3	1.750	1.310	3750	2.550	1.910	5468	4.310	3.230	9044
	100	2.5	0.347	0.260	6552	0.522	0.391	9853	1.030	0.770	19454
50	2400	48.0	2.249	1.705	2238	2.712	2.056	2700	4.916	3.853	5058
	1750	35.0	1.750	1.220	2196	2.390	1.670	3006	4.950	3.660	6591
	1150	23.0	1.550	1.080	2835	2.140	1.500	3938	4.250	2.970	7796
	850	17.0	1.370	0.960	3360	1.910	1.330	4655	3.620	2.530	8855
	100	2.0	0.279	0.195	6142	0.398	0.278	8757	0.830	0.580	18428
60	2400	40.0	1.847	1.345	2118	1.917	1.396	2200	4.036	3.050	4803
	1750	29.2	1.500	0.980	2128	1.820	1.180	2563	4.050	2.880	6259
	1150	19.2	1.330	0.860	2709	1.630	1.060	3339	3.480	2.260	7119
	850	14.2	1.170	0.760	3192	1.460	0.950	3990	3.120	2.030	8526
	100	1.7	0.230	0.150	5906	0.312	0.203	7993	0.700	0.460	16936
Overhung Load*			Input Shaft 1055 lbs. Output Shaft 1695 lbs.			Input Shaft 1625 lbs. Output Shaft 1950 lbs.			Input Shaft 1330 lbs. Output Shaft 2880 lbs.		
Output Shaft Thrust Load			1200 lbs.			1700 lbs.			2100 lbs.		
Maximum Input Speed			3600 RPM			3600 RPM			3600 RPM		

*Overhung Load Rating is at center of shaft extension with no thrust load.

 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

 1000 Series
In-Line Helical

 1000 Series
Helical-Worm

Engineering

Universal Series Single Reduction Ratio and Capacity Selection Tables

HORSEPOWER & TORQUE RATINGS FOR SERVICE CLASS I (1.0 Service Factor)

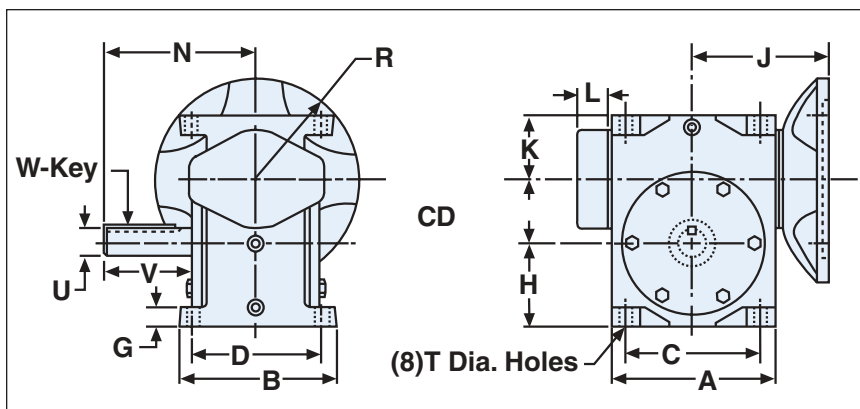
Ratio	Input RPM	Output RPM	SIZE 600 FC		
			Input Hp	Output Hp	Output Torque In. Lbs.
10	2400	240.0	28.618	27.026	7094
	1750	175.0	26.130	22.360	8050
	1150	115.0	21.120	18.790	9865
	850	85.0	18.690	16.630	11641
	100	10.0	4.310	3.840	24192
15	2400	160.0	21.051	14.439	7654
	1750	116.7	18.550	15.950	8588
	1150	76.7	15.630	13.440	10584
	850	56.7	13.960	12.000	12605
	100	6.7	3.240	2.780	26536
20	2400	120.0	16.274	14.641	7686
	1750	87.5	14.360	12.210	8791
	1150	57.5	12.150	10.330	10846
	850	42.5	10.890	9.260	12964
	100	5.0	2.660	2.260	28476
30	2400	80.0	11.675	10.124	7973
	1750	58.3	10.330	8.260	8926
	1150	38.3	8.810	7.050	11104
	850	28.3	7.990	6.390	13419
	100	3.3	1.930	1.540	29400
40	2400	60.0	8.958	7.350	7717
	1750	43.8	8.000	6.240	8938
	1150	28.8	6.920	5.190	10890
	850	21.3	6.250	4.680	13104
	100	2.5	1.680	1.260	31752
50	2400	48.0	7.285	5.775	7580
	1750	35.0	7.210	5.410	9742
	1150	23.0	6.000	4.200	11025
	850	17.0	5.160	3.610	12635
	100	2.0	1.410	0.990	31185
60	2400	40.0	5.986	4.593	7234
	1750	29.2	5.350	3.910	8498
	1150	19.2	4.680	3.040	9576
	850	14.2	4.320	2.810	11802
	100	1.7	1.160	0.750	27794
Overhung Load*			Input Shaft 1350 lbs. Output Shaft 3880 lbs.		
Output Shaft Thrust Load			2500 lbs.		
Maximum Input Speed			2500 RPM		

*Overhung Load Rating is at center of shaft extension with no thrust load.

Style STF



Universal Series Dimensions Single Reduction Flanged Quill Type

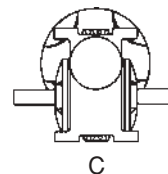
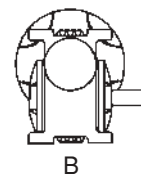
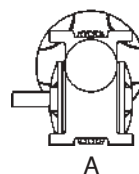


Size	C.D.	A	B	C	D	G	H	56C 140TC	180TC 210C	210TC	K	L Fan Guard	N	T Dia.
133	1.33	4.25	4.38	3.50	3.63	0.50	2.00	3.88	—	—	1.88	—	4.13	0.343
175	1.75	4.25	4.38	3.50	3.63	0.50	2.38	3.88	—	—	1.88	—	4.25	0.343
200	2.00	5.25	5.00	4.25	4.13	0.63	2.69	4.38	—	—	2.06	—	4.88	0.406
225	2.25	5.25	5.00	4.25	4.13	0.63	2.94	4.38	—	—	2.06	—	5.13	0.343
258	2.63	7.00	6.25	5.63	5.13	0.75	3.25	5.00	6.06	—	2.38	—	5.50	0.531
300	3.00	7.00	6.25	5.63	5.13	0.75	3.63	5.00	6.06	—	2.38	—	5.88	0.531
350	3.50	7.63	7.63	6.38	6.38	0.88	4.13	5.41	6.22	—	2.63	2.13	6.50	0.531
400	4.00	8.63	8.63	7.38	7.38	0.88	4.50	5.94	6.75	6.75	3.00	2.13	7.38	0.531

Size	Output Shaft		W-Key		Motor Size Available Per Size Any Ratio	Approximate Weight Lbs.	Approximate Oil Capacity oz.
	U +0.000 -0.001	V	Sq.	Lgth.			
133	0.625	1.88	0.187	1.18	A	15.5	5
175	0.750	2.00	0.187	1.31	A, B	17.5	6
200	0.875	2.44	0.187	1.75	A, B	24	10
225	1.000	2.69	0.250	1.88	A, B	27	14
258	1.125	2.63	0.250	1.88	A, B, C	42	32
300	1.250	3.00	0.250	2.25	A, B, C	47	40
350	1.500	3.44	0.375	2.75	A, B, C, D	73	51
400	1.625	3.75	0.375	2.75	A, B, C, D	96	80

Motor Information				
Worm Bore Size Desig.	NEMA Design	Bore +0.002 -0.000	Key Way	R
A	56C	0.625	0.187 x 0.093	3.25
B	180C/140TC	0.875	0.187 x 0.093	3.25
C	180TC/210C	1.125	0.250 x 0.125	4.50
D	210TC	1.375	0.312 x 0.156	4.50

Assembly Types
End View


 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

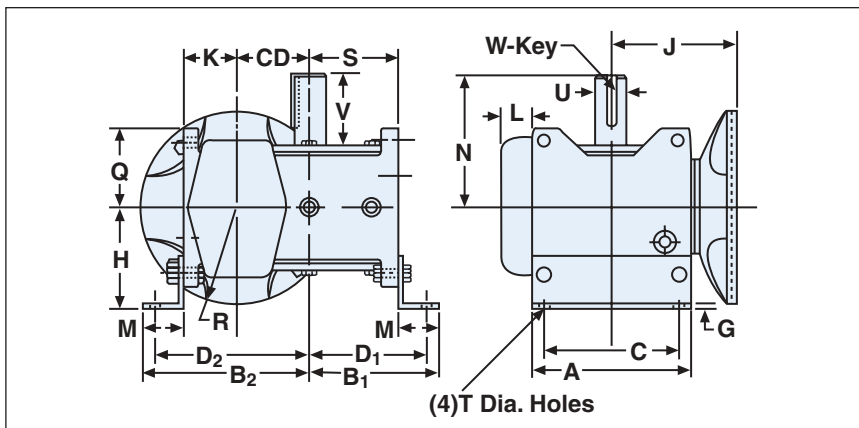
 1000 Series
In-Line Helical

 1000 Series
Helical-Worm

Engineering

Style SVF

Universal Series Dimensions Single Reduction Flanged Quill Type



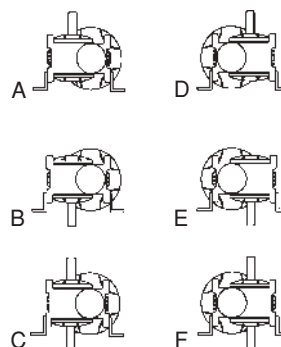
Size	C.D.	A	B ₁	B ₂	C	D ₁	D ₂	G	H		56C 140TC	J		K	L	M	N	S	T
									Except 258C & 300C	258C & 300C ONLY		180TC 210C	210TC						
133	1.33	4.25	3.31	4.53	3.50	2.88	4.09	0.25	3.38	—	3.88	—	—	1.88	—	1.31	4.13	2.00	0.343
175	1.75	4.25	3.69	4.94	3.50	3.25	4.50	0.25	3.38	—	3.88	—	—	1.88	—	1.31	4.25	2.38	0.343
200	2.00	5.25	4.25	5.63	4.25	3.75	5.13	0.25	3.38	—	4.38	—	—	2.06	—	1.56	4.88	2.69	0.406
225	2.25	5.25	4.50	5.88	4.25	4.00	5.38	0.25	3.38	—	4.38	—	—	2.06	—	1.56	5.13	2.94	0.406
258	2.63	7.00	5.31	7.06	5.63	4.75	6.50	0.25	3.38	5.38	5.00	6.06	—	2.38	—	2.06	5.50	3.25	0.531
300	3.00	7.00	5.69	7.44	5.63	5.13	6.88	0.25	3.38	5.38	5.00	606	—	2.38	—	2.06	5.88	3.63	0.531
350	3.50	7.63	6.13	8.13	6.38	5.50	7.50	0.25	4.56	—	5.41	6.22	—	2.63	2.13	2.00	6.50	4.13	0.531
400	4.00	8.63	6.50	9.00	7.38	5.88	8.38	0.25	5.08	—	5.94	6.75	6.75	3.00	2.13	2.00	7.38	4.50	0.531

Size	Output Shaft		W-Key		Motor Size Available Per Size Any Ratio	Approximate Weight Lbs.	Approximate Oil Capacity oz.
	U +0.000 -0.001	V	Sq.	Lgth.			
133	0.625	1.88	0.187	1.18	A	16.5	8
175	0.750	2.00	0.187	1.31	A,	18.5	9
200	0.875	2.44	0.187	1.75	A,	25	11
225	1.000	2.69	0.250	1.88	A,	28	15
258	1.125	2.63	0.250	1.88	A,	45	32
300	1.250	3.00	0.250	2.25	A, B, C	49	38
350	1.500	3.44	0.375	2.75	A, B, C,	75	51
400	1.625	3.75	0.375	2.75	A, B, C, D	98	80

Motor Information

Worm Bore Size Design.	NEMA Design	Bore +0.002 -0.000	Key Way	R
A	56C	0.625	0.187 x 0.093	3.25
B	180C/140TC	0.875	0.187 x 0.093	3.25
C	180TC/210C	1.125	0.250 x 0.125	4.50
D	210TC	1.375	0.312 x 0.156	4.50

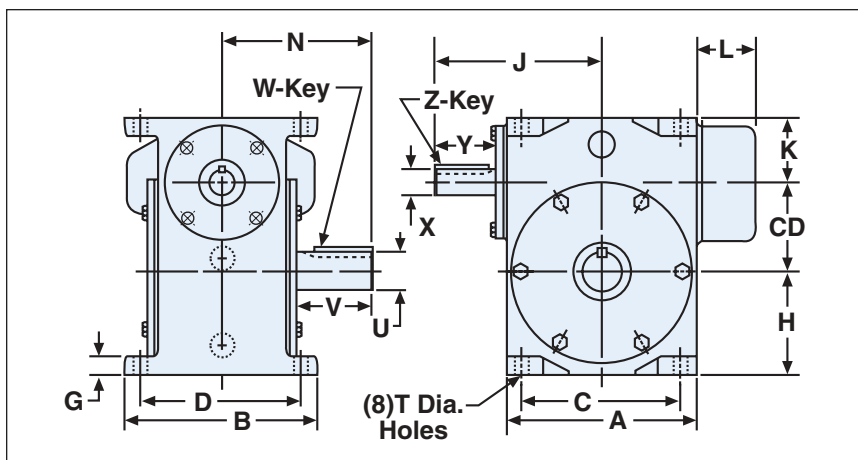
Assembly Types Side View



Style ST



Universal Series Dimensions Single Reduction Solid Worm Type

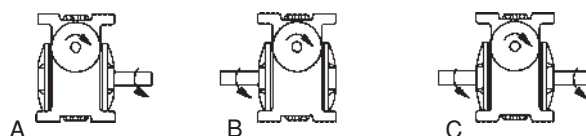


Size	C.D.	A	B	C	D	G	H	J	K	L Fan Cooled	N	T
133	1.33	4.25	4.38	3.50	3.63	0.50	2.00	4.63	1.88	—	4.13	0.343
175	1.75	4.25	4.38	3.50	3.63	0.50	2.38	4.63	1.88	—	4.25	0.343
200	2.00	5.25	5.00	4.25	4.13	0.63	2.69	5.38	2.06	—	4.88	0.406
225	2.25	5.25	5.00	4.25	4.13	0.63	2.94	5.38	2.06	—	5.13	0.406
258	2.63	7.00	6.25	5.63	5.13	0.75	3.25	6.50	2.38	—	5.50	0.531
300	3.00	7.00	6.25	5.63	5.13	0.75	3.63	6.50	2.38	—	5.88	0.531
350	3.50	7.63	7.63	6.38	6.38	0.88	4.13	7.16	2.63	2.13	6.50	0.531
400	4.00	8.63	8.63	7.38	7.38	0.88	4.50	7.69	3.00	2.13	7.38	0.531
500	5.00	11.75	11.88	9.13	10.00	1.13	6.13	11.03	4.38	3.38	9.75	0.781
600	6.00	13.25	12.88	11.00	11.00	1.25	6.75	11.94	4.50	3.38	10.63	0.906

Size	Output Shaft				Input Shaft				Approximate Weight Lbs.	Approximate Oil Capacity oz.
	U +0.000 -0.001	V	W-Key		X +0.000 -0.001	Y	Z-Key			
			Sq.	Lgth.			Sq.	Lgth.		
133	0.625	1.88	0.187	1.18	0.500	1.88	0.125	1.38	12.5	5
175	0.750	2.00	0.187	1.31	0.625	1.88	0.187	1.38	14.5	6
200	0.875	2.44	0.187	1.75	0.625	2.13	0.187	1.50	20	10
225	1.000	2.69	0.250	1.88	0.750	2.13	0.187	1.50	22	14
258	1.125	2.63	0.250	1.88	0.750	2.38	0.187	1.88	36	32
300	1.250	3.00	0.250	2.25	0.875	2.38	0.187	1.88	40	40
350	1.500	3.44	0.375	2.75	1.000	2.66	0.250	2.25	66	51
400	1.625	3.75	0.375	2.75	1.125	2.69	0.250	2.50	91	80
500	2.000	3.81	0.500	2.50	1.500	3.97	0.375	3.25	315	211
600	2.250	4.44	0.500	3.38	1.500	4.16	0.375	3.50	375	256

Assembly Types

Side View



900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

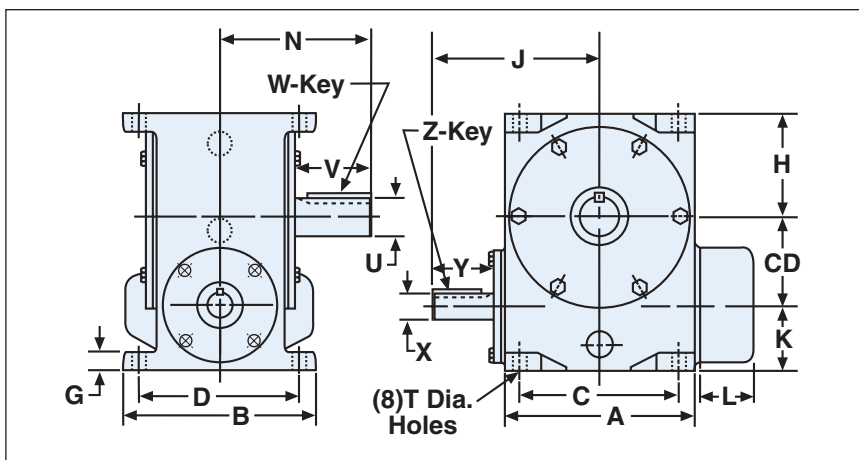
1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

Style SB

Universal Series Dimensions Single Reduction Solid Worm Type

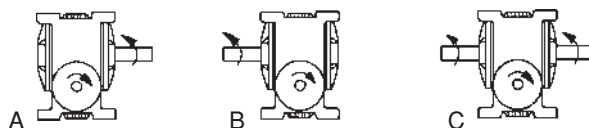


Size	C.D.	A	B	C	D	G	H	J	K	L Fan Cooled	N	T
133	1.33	4.25	4.38	3.50	3.63	0.50	2.00	4.63	1.88	—	4.13	0.343
175	1.75	4.25	4.38	3.50	3.63	0.50	2.38	4.63	1.88	—	4.25	0.343
200	2.00	5.25	5.00	4.25	4.13	0.63	2.69	5.38	2.06	—	4.88	0.406
225	2.25	5.25	5.00	4.25	4.13	0.63	2.94	5.38	2.06	—	5.13	0.406
258	2.63	7.00	6.25	5.63	5.13	0.75	3.25	6.50	2.38	—	5.50	0.531
300	3.00	7.00	6.25	5.63	5.13	0.75	3.63	6.50	2.38	—	5.88	0.531
350	3.50	7.63	7.63	6.38	6.38	0.88	4.13	7.16	2.63	2.13	6.50	0.531
400	4.00	8.63	8.63	7.38	7.38	0.88	4.50	7.69	3.00	2.13	7.38	0.531
500	5.00	11.75	11.88	9.13	10.00	1.13	6.13	11.03	4.38	3.38	9.75	0.781
600	6.00	13.25	12.88	11.00	11.00	1.25	6.75	11.94	4.50	3.38	10.63	0.906

Size	Output Shaft				Input Shaft				Approximate Weight Lbs.	Approximate Oil Capacity oz.
	U +0.000 -0.001	V	W-Key		X +0.000 -0.001	Y	Z-Key			
			Sq.	Lgth.			Sq.	Lgth.		
133	0.625	1.88	0.187	1.18	0.500	1.88	0.125	1.38	12.5	10
175	0.750	2.00	0.187	1.31	0.625	1.88	0.187	1.38	14.5	10
200	0.875	2.44	0.187	1.75	0.625	2.13	0.187	1.50	20	12
225	1.000	2.69	0.250	1.88	0.750	2.13	0.187	1.50	22	14
258	1.125	2.63	0.250	1.88	0.750	2.38	0.187	1.88	36	32
300	1.250	3.00	0.250	2.25	0.875	2.38	0.187	1.88	40	40
350	1.500	3.44	0.375	2.75	1.000	2.66	0.250	2.25	66	51
400	1.625	3.75	0.375	2.75	1.125	2.69	0.250	2.50	91	80
500	2.000	3.81	0.500	2.50	1.500	3.97	0.375	3.25	315	211
600	2.250	4.44	0.500	3.38	1.500	4.16	0.375	3.50	375	256

Assembly Types

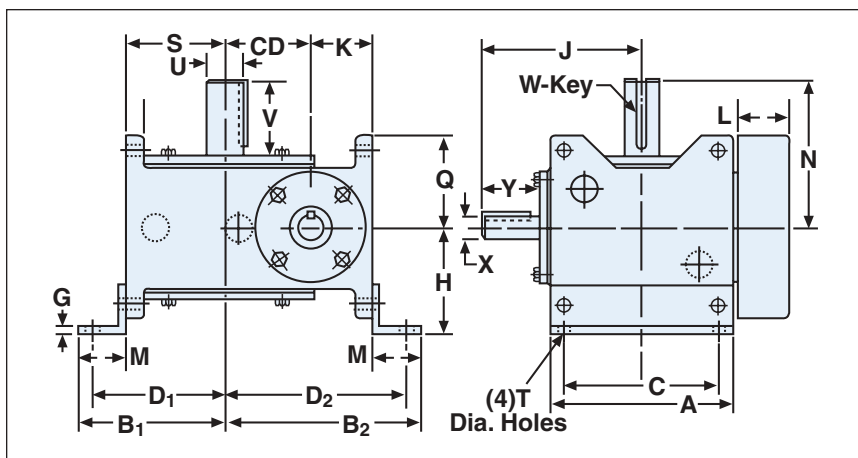
Side View



Style SV



Universal Series Dimensions Single Reduction Solid Worm Type

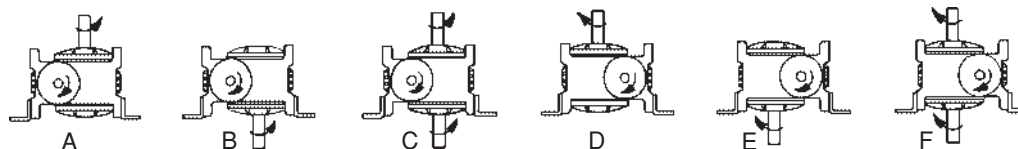


Size	C.D.	A	B ₁	B ₂	C	D ₁	D ₂	G	H	J	K	L Fan Guard	M	N	S	T
133	1.33	4.25	4.47	3.97	3.50	2.88	3.97	0.25	3.38	4.63	1.88	—	1.25	4.13	2.00	0.343
175	1.75	4.25	3.63	4.88	3.50	3.25	4.50	0.25	3.38	4.63	1.88	—	1.25	4.25	2.38	0.406
200	2.00	5.25	4.19	5.56	4.25	3.75	5.13	0.25	3.38	5.38	2.06	—	1.50	4.88	2.69	0.406
225	2.25	5.25	4.44	5.81	4.25	4.00	5.38	0.25	3.38	5.38	2.06	—	1.50	5.13	2.94	0.406
258	2.63	7.00	5.25	7.00	5.63	4.75	6.50	0.25	3.38	6.50	2.38	—	2.00	5.50	3.25	0.531
300	3.00	7.00	5.63	7.38	5.63	5.13	6.88	0.25	3.38	6.50	2.38	—	2.00	5.88	3.63	0.531
350	3.50	7.63	6.13	8.13	6.38	5.50	7.50	0.25	4.56	7.16	2.63	2.13	2.00	6.50	4.13	0.531
400	4.00	8.63	6.50	9.00	7.38	5.88	8.38	0.25	5.06	7.69	3.00	2.13	2.00	7.38	4.50	0.531
500	5.00	11.75	9.63	12.88	9.13	8.13	11.38	0.50	7.00	11.03	4.38	3.38	3.50	9.75	6.13	0.781
600	6.00	13.25	10.75	14.50	11.00	9.19	12.94	0.50	7.94	11.94	4.50	3.38	4.00	10.63	6.75	0.906

Size	Output Shaft				Input Shaft				Approximate Weight Lbs.	Approximate Oil Capacity oz.
	U +0.000 -0.001	V	W-Key		X +0.000 -0.001	Y	Z-Key			
			Sq.	Lgth.			Sq.	Lgth.		
133	0.625	1.88	0.187	1.18	0.500	1.88	0.125	1.38	13.5	8
175	0.750	2.00	0.187	1.31	0.625	1.88	0.187	1.38	15.5	9
200	0.875	2.44	0.187	1.75	0.625	2.13	0.187	1.50	21	11
225	1.000	2.69	0.250	1.88	0.750	2.13	0.187	1.50	23	15
258	1.125	2.63	0.250	1.88	0.750	2.38	0.187	1.88	38	32
300	1.250	3.00	0.250	2.25	0.875	2.38	0.187	1.88	42	38
350	1.500	3.44	0.375	2.75	1.000	2.66	0.250	2.25	68	51
400	1.625	3.75	0.375	2.75	1.125	2.69	0.250	2.50	93	80
500	2.000	3.81	0.500	2.50	1.500	3.97	0.375	3.25	319	211
600	2.250	4.44	0.500	3.38	1.500	4.16	0.375	3.50	379	256

Assembly Types

Side View



900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

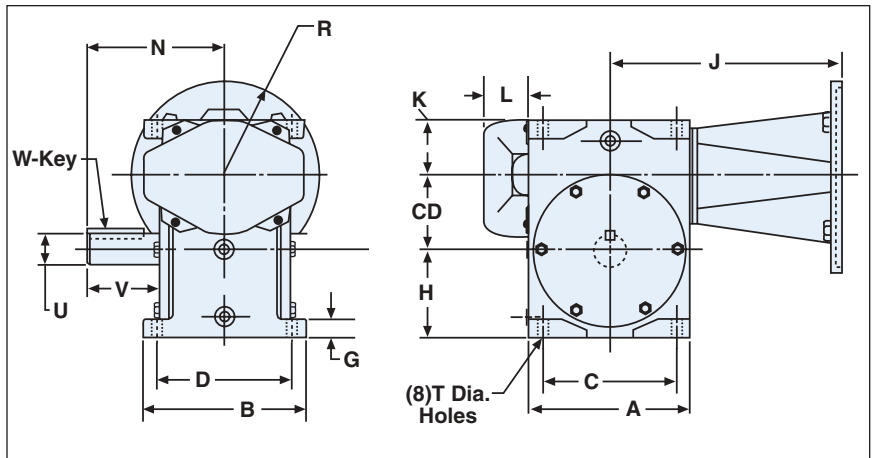
1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

Style STL

Universal Series Dimensions Single Reduction Flanged Coupling Type



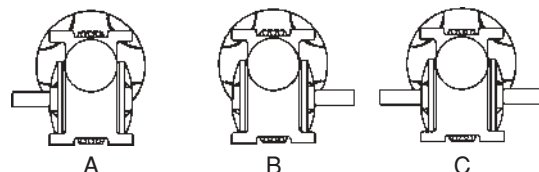
Size	C.D.	A	B	C	D	G	H	R					J					K	L	N	T
								56C 140TC	180TC 210C	210TC	250TC	280TC	56C 140TC	180TC 210C	210TC	250TC	280TC				
133	1.33	4.25	4.38	3.50	3.63	0.50	2.00	3.25	—	—	—	—	7.25	—	—	—	—	1.88	—	4.13	0.343
175	1.75	4.25	4.38	3.50	3.63	0.50	2.38	3.25	3.25	—	—	—	8.03	—	—	—	—	1.88	—	4.25	0.343
200	2.00	5.25	5.00	4.25	4.13	0.63	2.69	3.25	3.25	—	—	—	8.03	—	—	—	—	2.06	—	4.88	0.406
225	2.25	5.25	5.00	4.25	4.13	0.63	2.94	3.25	—	—	—	—	8.03	—	—	—	—	2.06	—	5.13	0.406
258	2.63	7.00	6.25	5.63	5.13	0.75	3.25	3.25	4.50	—	—	—	9.38	10.19	—	—	—	2.38	—	5.50	0.531
300	3.00	7.00	6.25	5.63	5.13	0.75	3.63	3.25	4.50	—	—	—	9.38	10.19	—	—	—	2.38	—	5.88	0.531
350	3.50	7.63	7.63	6.38	6.38	0.88	4.13	3.25	4.50	—	—	—	9.78	11.22	—	—	—	2.63	2.13	6.50	0.531
400	4.00	8.63	8.63	7.38	7.38	0.88	4.50	3.25	4.50	4.50	—	—	10.31	11.75	11.75	—	—	3.00	2.13	7.38	0.531
500	5.00	11.75	11.88	9.13	10.00	1.13	6.13	—	4.56	4.56	4.56	—	—	15.81	15.81	15.81	—	4.38	3.38	9.75	0.781
600	6.00	13.25	12.88	11.00	11.00	1.25	6.75	—	4.50	4.50	4.50	5.56	—	16.69	16.69	16.69	17.56	4.56	3.38	10.63	0.906

Size	Output Shaft				Motor Size Available Per Size Any Ratio	Approximate Weight Lbs.	Approximate Oil Capacity oz.
	U +0.000 -0.001	V	W-Key				
			Sq.	Lgth.			
133	0.625	1.88	0.187	1.18	A, B, C, D	19.5	256
175	0.750	2.00	0.187	1.31	A, B	21.5	6
200	0.875	2.44	0.187	1.75	A, B	28	10
225	1.000	2.69	0.250	1.88	A, B	31	14
258	1.125	2.63	0.250	1.88	A, B, C	46	32
300	1.250	3.00	0.250	2.25	A, B, C	51	40
350	1.500	3.44	0.375	2.75	A, B, C, D	79	51
400	1.625	3.75	0.375	2.75	A, B, C, D	100	80
500	2.000	3.75	0.500	3.81	C, D, E	360	211
600	2.250	4.44	0.500	3.38	C, D, E, F	420	256

Motor Information

Coupling Bore Size Designation	NEMA Design	Bore +0.002 -0.000	Key Way
A	56C	0.625	0.187 X 0.093
B	140TC	0.875	0.187 X 0.093
C	180TC	1.125	0.250 X 0.125
D	210TC	1.375	0.187 X 0.156
E	250TC	1.625	0.375 X 0.187
F	280TC	1.875	0.500 X 0.250

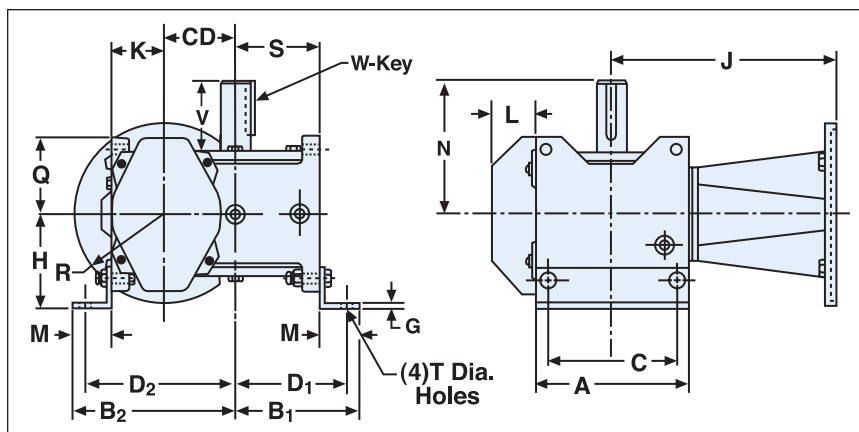
Assembly Types End View



Style SVL



Universal Series Dimensions Single Reduction Flanged Coupling Type

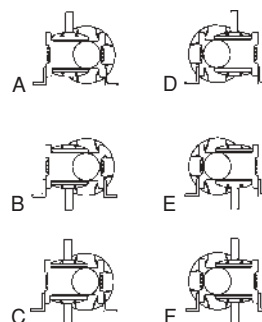


Size	C.D.	A	B ₁	B ₂	C	D ₁	D ₂	G	Except 258C & 300C	H 258C & 300C ONLY	56C 140TC	180TC 210C	R				56C 140TC	180TC 210C	J					K	L
													210TC	250TC	280TC			210TC	250TC	280TC					
133	1.33	4.25	3.31	4.53	3.50	2.88	4.09	0.25	3.38	—	3.25	—	—	—	—	7.25	—	—	—	—	—	1.88	—		
175	1.75	4.25	3.69	4.94	3.50	3.25	4.50	0.25	3.38	—	3.25	3.25	—	—	—	7.25	—	—	—	—	—	1.88	—		
200	2.00	5.25	4.25	5.63	4.25	3.75	5.13	0.25	3.38	—	3.25	3.25	—	—	—	8.03	—	—	—	—	—	2.06	—		
225	2.25	5.25	4.50	5.88	4.25	4.00	5.38	0.25	3.38	—	3.25	3.25	—	—	—	8.03	—	—	—	—	—	2.06	—		
258	2.63	7.00	5.31	7.06	5.63	4.75	6.50	0.25	3.38	5.38	3.25	4.50	—	—	—	9.38	10.19	—	—	—	—	2.38	—		
300	3.00	7.00	5.69	7.44	5.63	5.13	6.88	0.25	3.38	5.38	3.25	4.50	—	—	—	9.38	10.19	—	—	—	—	2.38	—		
350	3.50	7.63	6.13	8.13	6.38	5.50	7.50	0.25	4.56	—	3.25	4.50	—	—	—	10.31	11.75	11.75	—	—	—	2.63	2.13		
400	4.00	8.63	6.50	9.00	7.38	5.88	8.38	0.25	4.88	—	3.25	4.50	4.50	—	—	10.31	11.75	11.75	—	—	—	3.00	2.13		
500	5.00	11.75	9.63	12.88	9.13	8.13	11.38	0.50	7.00	—	—	4.56	4.56	4.56	—	—	15.81	15.81	15.81	—	—	4.38	3.38		
600	6.00	13.25	10.75	14.50	11.00	9.19	12.94	0.50	7.94	—	—	4.50	4.50	4.56	5.56	—	16.69	16.69	16.69	17.56	—	4.50	3.38		

Size	M	N	S	T	U +0.000 -0.001	Output Shaft V	W-Key Sq.	W-Key Lgth.	Motor Size Available Per Size Any Ratio	Approximate Weight Lbs.	Approximate Oil Capacity oz.
133	1.31	4.13	2.00	0.343	0.625	1.88	0.187	1.18	A	20.5	8
175	1.31	4.25	2.38	0.343	0.750	2.00	0.187	1.31	A, B	22.5	9
200	1.56	4.88	2.69	0.406	0.875	2.44	0.187	1.75	A, B	29	11
225	1.56	5.13	2.94	0.406	1.000	2.69	0.250	1.88	A, B	32	15
258	2.06	5.50	3.25	0.531	1.125	2.63	0.250	1.88	A, B, C	48	32
300	2.06	5.88	3.63	0.531	1.250	3.00	0.250	2.25	A, B, C	53	38
350	2.00	6.50	4.13	0.531	1.500	3.44	0.375	2.75	A, B, C, D	82	51
400	2.00	7.38	4.13	0.531	1.625	3.75	0.375	2.75	A, B, C, D	103	80
500	3.50	9.75	6.13	0.781	2.000	3.81	0.500	2.50	C, D, E	364	212
600	4.00	10.60	6.75	0.906	2.250	4.44	0.500	3.38	C, D, E, F	434	256

Motor Information			
Cplg. Bore Size Designation	NEMA Design	Bore +0.002 -0.000	Key Way
A	56C	0.625	0.187 X 0.093
B	140TC	0.875	0.187 X 0.093
C	180TC	1.125	0.250 X 0.125
D	210TC	1.375	0.187 X 0.156
E	250TC	1.625	0.375 X 0.187
F	280TC	1.875	0.500 X 0.250

Assembly Types
Side View



Accessories and Options



Optional Universal Series Vertical Bases

OPTIONAL UNIVERSAL SERIES VERTICAL BASES			
Kit includes angle bases and hardware. Converts style STF to SVF.			
Base Size	NEMA Frame	Catalog Number	Approx. Shipping Weight
133 - 175	56C / 140TC	B1317V81	1
200 - 225	56C / 140TC	B2022V81	1
258 - 300	56C / 140TC	B2530V81	1
258 - 300	180TC	B2530V91	1
350	56C / 140TC 180TC / 210TC	B3500V81	1

900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

Universal Series Double Reduction

Style Reference Guide	100
How to Order	101
Ratings Tables	102 - 104
Dimensions	105 - 113



900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

Universal Series Style Reference Guide

Double Reduction

DTF



Ratings P. 102 - 104
Dimensions P. 105

DBF



Ratings P. 102 - 104
Dimensions P. 106

DVF



Ratings P. 102 - 104
Dimensions P. 107

DTL



Ratings P. 102 - 104
Dimensions P. 108

DBL



Ratings P. 102 - 104
Dimensions P. 109

DVL



Ratings P. 102 - 104
Dimensions P. 110

WDT



Ratings P. 102 - 104
Dimensions P. 111

WDB



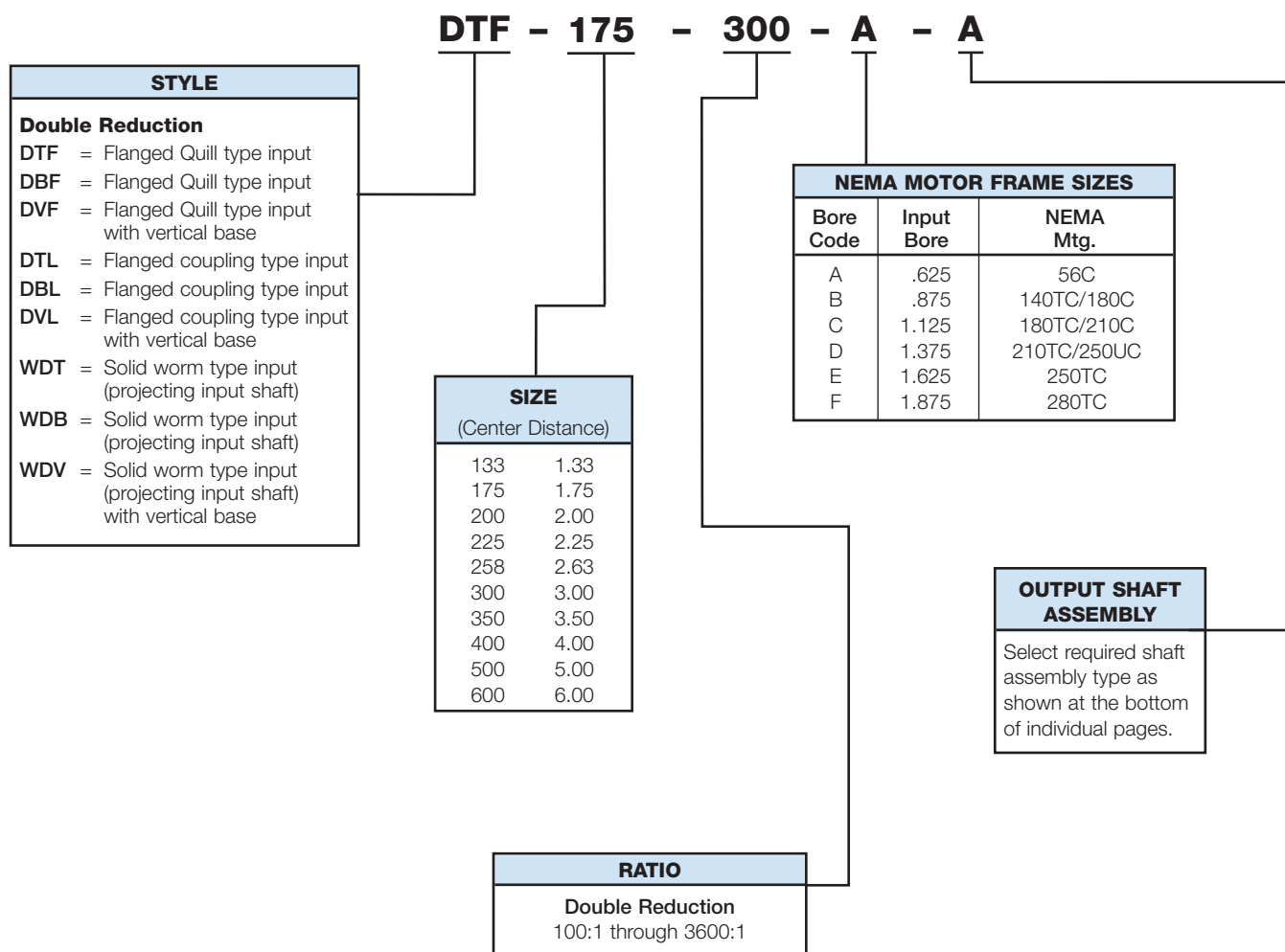
Ratings P. 102 - 104
Dimensions P. 112

WDV



Ratings P. 102 - 104
Dimensions P. 113

Universal Series Numbering System/How to Order



HOW TO ORDER

Please specify Style, Size, Base (if required), Ratio, NEMA Input Flange (if flanged reducer), Output shaft assembly.

EXAMPLE

Required size, 350, Quill type input, 600:1, 56C, horizontal output shaft
 Order **DBF-350-600-A-A**

BALDOR UNIVERSAL SERIES REDUCERS HAVE PIPE PLUG LOCATIONS THAT ALLOW MOUNTING IN A CHOICE OF SEVERAL POSITIONS BY CHANGING THE LOCATION OF THE OIL VENT/FILL PLUG AT INSTALLATION. SEE PAGE 200 FOR MOUNTING POSITION CHOICES AND VENT/FILL PLUG LOCATIONS.

Universal Series Single Reduction Ratio and Capacity Selection Tables

HORSEPOWER & TORQUE RATINGS FOR SERVICE CLASS I (1.0 Service Factor)

Ratio	Input RPM	Output RPM	Size 175			Size 200			Size 225			Size 258		
			Input Hp	Output Hp	Output Torque In. Lbs.	Input Hp	Output Hp	Output Torque In. Lbs.	Input Hp	Output Hp	Output Torque In. Lbs.	Input Hp	Output Hp	Output Torque In. Lbs.
100	1750	17.5	0.210	0.165	595	0.308	0.240	770	0.420	0.340	1207	0.620	0.500	1750
150	1750	11.6	0.160	0.125	630	0.225	0.180	945	0.340	0.270	1365	0.480	0.380	2047
200	1750	8.7	0.130	0.104	730	0.190	0.150	1050	0.265	0.210	1440	0.390	0.310	2180
300	1750	5.8	0.086	0.069	730	0.125	0.100	1050	0.175	0.140	1440	0.240	0.192	2180
400	1750	4.4	0.070	0.055	770	0.098	0.078	1100	0.142	0.110	1550	0.210	0.163	2300
500	1750	3.5	0.057	0.044	770	0.082	0.063	1100	0.112	0.086	1500	0.180	0.139	2300
600	1750	2.9	0.050	0.037	770	0.071	0.053	1100	0.098	0.074	1550	0.150	0.110	2300
900	1750	1.9	0.034	0.024	760	0.050	0.035	1100	0.080	0.056	1500	0.125	0.088	2250
1200	1750	1.5	0.028	0.018	760	0.042	0.027	1100	0.056	0.036	1500	0.090	0.058	2250
1800	1750	1.0	0.022	0.012	760	0.031	0.017	1100	0.040	0.024	1500	0.071	0.039	2250
2400	1750	0.73	0.018	0.009	705	0.024	0.012	1050	0.036	0.018	1530	0.048	0.024	2140
3600	1750	0.5	0.011	0.005	590	0.017	0.007	910	0.020	0.008	1250	0.037	0.015	1900
Overhung Load*			Input Shaft 155 lbs. Output Shaft 460 lbs.			Input Shaft 155 lbs. Output Shaft 650 lbs.			Input Shaft 155 lbs. Output Shaft 870 lbs.			Input Shaft 155 lbs. Output Shaft 1200 lbs.		
Output Shaft Thrust Load			400 lbs.			600 lbs.			750 lbs.			900 lbs.		

*Overhung Load Rating is at center of shaft extension with no thrust load.

Universal Series Single Reduction Ratio and Capacity Selection Tables

HORSEPOWER & TORQUE RATINGS FOR SERVICE CLASS I (1.0 Service Factor)

Ratio	Input RPM	Output RPM	Size 300			Size 350			Size 400			Size 500		
			Input Hp	Output Hp	Output Torque In. Lbs.	Input Hp	Output Hp	Output Torque In. Lbs.	Input Hp	Output Hp	Output Torque In. Lbs.	Input Hp	Output Hp	Output Torque In. Lbs.
100	1750	17.5	0.790	0.680	2275	1.640	1.214	4370	2.400	1.800	6480	4.210	2.160	11404
150	1750	11.6	0.640	0.510	2625	1.180	0.824	4475	1.830	1.283	6968	3.580	2.510	13686
200	1750	8.7	0.540	0.430	3050	0.940	0.632	4525	1.300	0.980	7015	3.070	2.090	14134
300	1750	5.8	0.370	0.290	3050	0.720	0.463	5029	1.050	0.670	7300	2.180	1.420	15470
400	1750	4.4	0.310	0.240	3250	0.600	0.356	5100	0.880	0.524	7500	1.830	1.100	15737
450	1750	3.9	0.250	0.187	3230	0.530	0.309	5125	0.800	0.464	7700	1.650	0.959	15505
600	1750	2.9	0.230	0.158	3230	0.440	0.237	5150	0.650	0.356	7750	1.340	0.736	15990
900	1750	1.9	0.150	0.105	3150	0.310	0.154	5120	0.480	0.238	7900	0.980	0.491	16285
1200	1750	1.5	0.125	0.080	3150	0.270	0.113	5090	0.420	0.175	7760	0.860	0.363	15242
1800	1750	1.0	0.096	0.053	3150	0.210	0.074	4800	0.330	0.114	7450	0.680	0.238	14989
2400	1750	0.73	0.072	0.037	3080	0.195	0.058	4500	0.310	0.092	7090	0.540	0.163	14106
3600	1750	0.5	0.050	0.020	2500	0.145	0.036	4700	0.219	0.053	6950	0.390	0.099	12580
Overhung Load*			Input Shaft 155 lbs. Output Shaft 1575 lbs.			Input Shaft 225 lbs. Output Shaft 1695 lbs.			Input Shaft 225 lbs. Output Shaft 1950 lbs.			Input Shaft 414 lbs. Output Shaft 2880 lbs.		
Output Shaft Thrust Load			1100 lbs.			1200 lbs.			1700 lbs.			2100 lbs.		

*Overhung Load Rating is at center of shaft extension with no thrust load.

 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

 1000 Series
In-Line Helical

 1000 Series
Helical-Worm

Engineering

Universal Series Single Reduction Ratio and Capacity Selection Tables

HORSEPOWER & TORQUE RATINGS FOR SERVICE CLASS I (1.0 Service Factor)

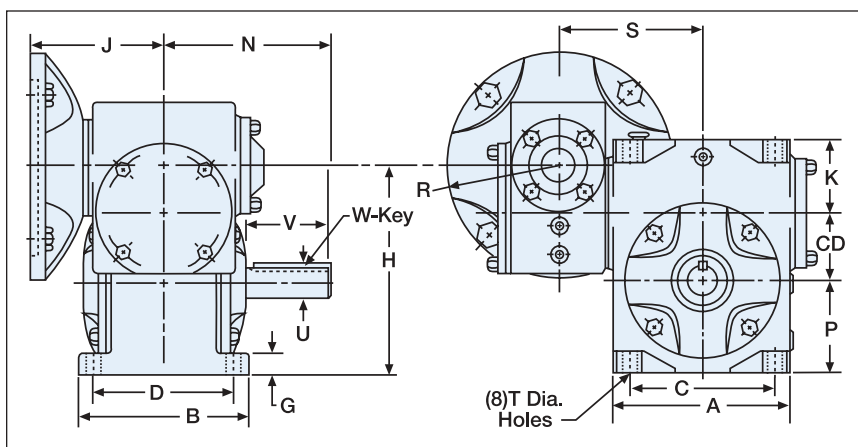
Ratio	Input RPM	Output RPM	Size 600		
			Input Hp	Output Hp	Output Torque In. Lbs.
100	1750	17.5	4.840	3.630	13068
150	1750	11.6	4.400	3.080	16727
200	1750	8.7	4.390	2.990	21528
300	1750	5.8	3.070	2.000	21810
400	1750	4.4	2.550	1.530	22105
500	1750	3.5	2.340	1.360	22135
600	1750	2.9	1.890	1.040	22612
900	1750	1.9	1.370	0.680	22300
1200	1750	1.5	1.210	0.510	21970
1800	1750	1.0	0.880	0.310	20406
2400	1750	0.73	0.780	0.230	20316
3600	1750	0.5	0.620	0.150	20086
Overhung Load*			Input Shaft 414 lbs. Output Shaft 3880 lbs.		
Output Shaft Thrust Load			2500 lbs.		

*Overhung Load Rating is at center of shaft extension with no thrust load.

Style DTF



Worm Gear Speed Reducers Double Reduction with Motor Flange

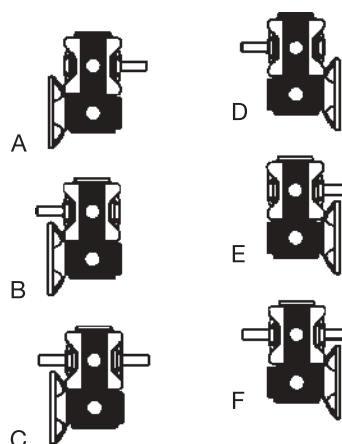


Size	C.D.	A	B	C	D	G	H	J	K	N	P	S	T
175	1.75	4.25	4.38	3.50	3.63	0.50	5.46	3.88	1.88	4.25	2.38	3.75	0.343
200	2.00	5.25	5.00	4.25	4.13	0.63	6.02	3.88	2.06	4.88	2.69	4.25	0.406
225	2.25	5.25	5.00	4.25	4.13	0.63	6.52	3.88	2.06	5.13	2.94	4.25	0.406

Size	Output Shaft				Motor Size Available												Approx. Weight lbs.	Approx. Oil Capacity oz.
	U	V	W-Key		Per Size and Ratio													
	+0.000 -0.001		Sq.	Lgth.	100:1	150:1	200:1	300:1	400:1	500:1	600:1	900:1	1200:1	1800:1	2400:1	3600:1		
175	0.750	2.00	0.187	1.31	A	A	A	A	A	A	A	A	A	A	A	A	27	16
200	0.875	2.44	0.187	1.75	A	A	A	A	A	A	A	A	A	A	A	A	31.5	16
225	1.000	2.69	0.250	1.88	A	A	A	A	A	A	A	A	A	A	A	A	34	20

Assembly Types

Top View



Motor Information				
Worm Bore Size Designation	NEMA Design	Bore +0.002 -0.000	Key Way	R
A	56C	0.625	0.187 x 0.093	3.25

900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

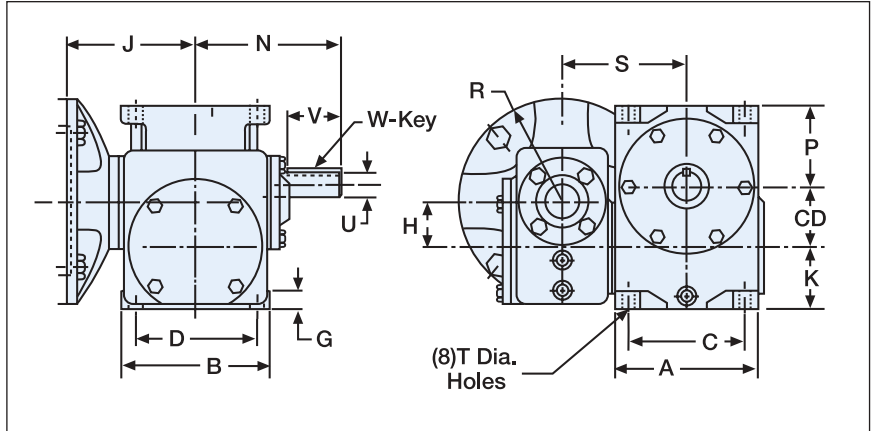
1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

Style DBF

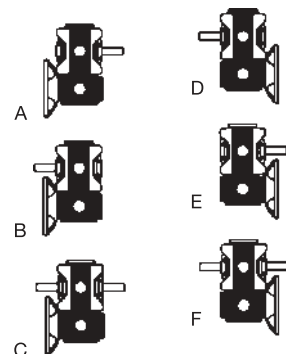
Worm Gear Speed Reducers Double Reduction with Motor Flange



Size	C.D.	A	B	C	D	G	H	J	56C 140TC	180TC 210C	K	N	P	S	T
175	1.75	4.25	4.38	3.50	3.63	0.50	3.21	3.88	—	—	1.88	4.25	2.38	3.75	0.343
200	2.00	5.25	5.00	4.25	4.13	0.63	3.40	3.88	—	—	2.06	4.88	2.69	4.25	0.406
225	2.25	5.25	5.00	4.25	4.13	0.63	3.40	3.88	—	—	2.06	5.13	2.94	4.25	0.406
258	2.63	7.00	6.25	5.63	5.13	0.75	4.13	3.88	—	—	2.38	5.50	3.25	5.13	0.531
300	3.00	7.00	6.25	5.63	5.13	0.75	4.13	3.88	—	—	2.38	5.88	3.63	5.13	0.531
350	3.50	7.63	7.63	6.38	6.38	0.88	4.63	4.38	—	—	2.63	6.50	4.13	5.59	0.531
400	4.00	8.63	8.63	7.38	7.38	0.88	5.25	4.38	—	—	3.00	7.38	4.50	6.38	0.531
500	5.00	11.75	11.88	9.13	10.00	1.13	7.38	5.00	6.06	4.38	9.75	6.13	9.81	0.781	
600	6.00	13.25	12.88	11.00	11.00	1.25	7.50	5.00	6.06	4.50	10.63	6.75	10.56	0.906	

Size	Output Shaft				Motor Size Available														Appr. Wgt. lbs.	Appr. Oil Cap. oz.
	U +0.000 -0.001	V	W-Key		Per Size and Ratio															
			Sq.	Lgth.	100:1	150:1	200:1	300:1	400:1	450:1	500:1	600:1	900:1	1200:1	1800:1	2400:1	3600:1			
175	0.750	2.00	0.187	1.31	A	A	A	A	A	—	A	A	A	A	A	A	A	34.0	16	
200	0.875	2.44	0.187	1.75	A	A	A	A	A	—	A	A	A	A	A	A	A	39.5	18	
225	1.000	2.69	0.250	1.88	A	A	A	A	A	—	A	A	A	A	A	A	A	42.0	20	
258	1.125	2.63	0.250	1.88	A, B	A, B	A	A	A	—	A	A	A	A	A	A	A	57.5	39	
300	1.250	3.00	0.250	2.25	A, B	A, B	A	A	A	—	A	A	A	A	A	A	A	64.3	47	
350	1.500	3.44	0.375	2.75	A, B	A, B	A, B	A	A	A	—	A	A	A	A	A	A	99.0	61	
400	1.625	3.75	0.375	2.75	A, B	A, B	A, B	A, B	A, B	A, B	—	A	A	A	A	A	A	124.0	94	
500	2.000	3.81	0.500	2.50	B, C	B, C	B, C	B	B	B	—	B	A, B	A, B	A, B	A	A	437.0	282	
600	2.250	4.44	0.500	3.38	B, C	B, C	B, C	B, C	B, C	A, B	—	A, B	A, B	A, B	A, B	A, B	A, B	492.0	327	

Assembly Types
Top View

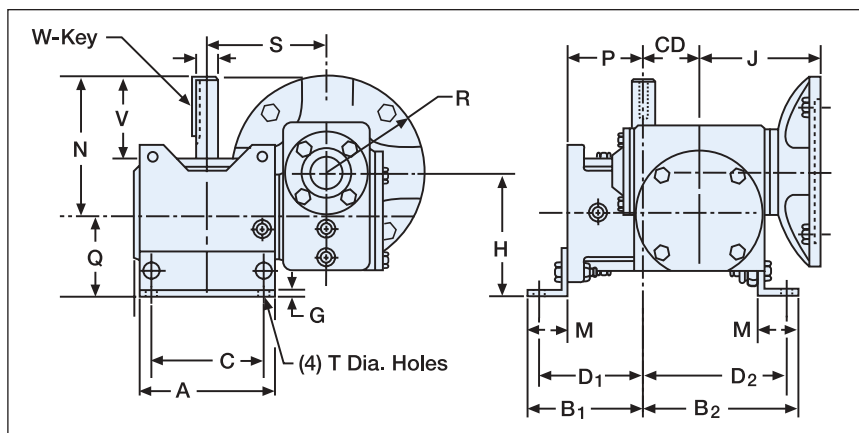


Motor Information				
Worm Bore Size Designation	NEMA Design	Bore +0.002 -0.000	Key Way	R
A	56C	0.625	0.187 x 0.937	3.25
B	140TC/180C	0.875	0.187 x 0.937	3.25
C	180TC/210C	1.125	0.250 x 0.125	4.50

Style DVF



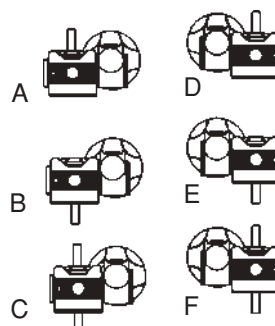
Worm Gear Speed Reducers Double Reduction with Motor Flange



Size	C.D.	A	B1	B2	C	D1	D2	G	H	J		M	N	Q	S	T
										56C 140TC	180TC 210C					
175	1.75	4.25	3.63	5.63	3.50	3.25	4.50	0.25	4.71	3.88	—	1.25	4.25	3.38	3.75	0.343
200	2.00	5.25	4.19	5.88	4.25	3.75	5.13	0.25	4.71	3.88	—	1.50	4.88	3.38	4.25	0.406
225	2.25	5.25	4.44	5.81	4.25	4.00	5.38	0.25	4.71	3.88	—	1.50	5.13	3.38	4.25	0.406
258	2.63	7.00	5.25	7.00	5.63	4.75	6.50	0.25	5.13	3.88	—	2.00	5.50	3.38	5.13	0.531
300	3.00	7.00	5.63	7.38	5.63	5.13	6.88	0.25	5.13	3.88	—	2.00	5.88	3.38	5.13	0.531
350	3.50	7.63	6.13	8.13	6.38	5.50	7.50	0.25	6.56	4.38	—	2.00	6.50	4.56	5.59	0.531
400	4.00	8.63	6.50	9.00	7.38	5.88	8.38	0.25	7.31	4.38	—	2.00	7.38	5.06	6.38	0.531
500	5.00	11.75	9.63	12.88	9.13	8.13	11.38	0.50	10.00	5.00	6.06	3.50	9.75	7.00	9.44	0.781
600	6.00	13.25	10.75	14.50	11.00	9.19	12.94	0.50	10.94	5.00	6.06	4.00	10.63	7.94	10.56	0.906

Size	Output Shaft W-Key				Motor Size Available Per Size and Ratio													Appr. Wgt. lbs.	Appr. Oil Cap. oz.
	U +0.000 -0.001	V	Sq.	Lgth.	100:1	150:1	200:1	300:1	400:1	450:1	500:1	600:1	900:1	1200:1	1800:1	2400:1	3600:1		
175	0.750	2.00	0.187	1.31	A	A	A	A	A	—	A	A	A	A	A	A	A	28.0	16
200	0.875	2.44	0.187	1.75	A	A	A	A	A	—	A	A	A	A	A	A	A	32.5	17
225	1.000	2.69	0.250	1.88	A	A	A	A	A	—	A	A	A	A	A	A	A	35.0	21
258	1.125	2.63	0.250	1.88	A, B	A, B	A	A	A	—	A	A	A	A	A	A	A	49.3	39
300	1.250	3.00	0.250	2.25	A, B	A, B	A	A	A	—	A	A	A	A	A	A	A	56.0	47
350	1.500	3.44	0.375	2.75	A, B	A, B	A, B	A	A	A	—	A	A	A	A	A	A	87.0	61
400	1.625	3.75	0.375	2.75	A, B	A, B	A, B	A, B	A, B	A, B	—	A	A	A	A	A	A	112.0	94
500	2.000	3.81	0.500	2.50	B, C	B, C	B, C	B	B	B	—	B	A, B	A, B	A, B	A	A	431.0	282
600	2.250	4.44	0.500	3.38	B, C	B, C	B, C	A, B	B, C	A, B	—	A, B	A, B	A, B	A, B	A, B	A, B	486.0	327

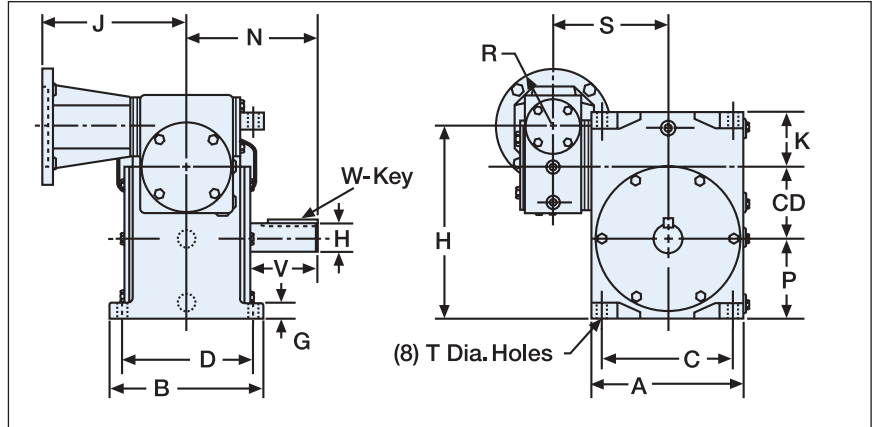
Assembly Types Side View



Motor Information				
Worm Bore Size Designation	NEMA Design	Bore +0.002 -0.000	Key Way	R
A	56C	0.625	0.187 x 0.093	3.25
B	140TC/180C	0.875	0.187 x 0.093	3.25
C	180TC/210C	1.125	0.250 x 0.125	4.50

Style DTL

Worm Gear Speed Reducers Double Reduction with Motor Flange

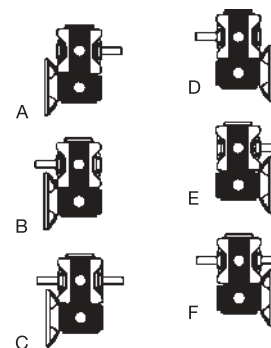


Size	C.D.	A	B	C	D	G	H	J	56C 140TC	180TC 210C	K	N	P	S	T
175	1.75	4.25	4.38	3.50	3.63	0.50	5.46	7.25	—	—	1.88	4.25	2.38	3.75	0.343
200	2.00	5.25	5.00	4.25	4.13	0.63	6.02	7.25	—	—	2.06	4.88	2.69	4.25	0.406
225	2.25	5.25	5.00	4.25	4.13	0.63	6.52	7.25	—	—	2.06	5.13	2.94	4.25	0.406
258	2.63	7.00	6.25	5.63	5.13	0.75	7.63	7.25	—	—	2.38	5.50	3.25	5.13	0.531
300	3.00	7.00	6.25	5.63	5.13	0.75	8.38	7.25	—	—	2.38	5.88	3.63	5.13	0.531
350	3.50	7.63	7.63	6.38	6.38	0.88	9.63	8.03	—	—	2.63	6.50	4.13	5.59	0.531
400	4.00	8.63	8.63	7.38	7.38	0.88	10.75	8.03	—	—	3.00	7.38	4.50	6.38	0.531
500	5.00	11.75	11.88	9.13	10.00	1.13	14.13	9.38	10.19	—	4.38	9.75	6.13	9.81	0.781
600	6.00	13.25	12.88	11.00	11.00	1.25	15.75	9.38	10.19	—	4.50	10.63	6.75	10.56	0.906

Size	Output Shaft				Motor Size Available														Appr. Wgt. lbs.	Appr. Oil Cap. oz.
	U +0.000 -0.001	V	W-Key		Per Size and Ratio															
			Sq.	Lgth.	100:1	150:1	200:1	300:1	400:1	450:1	500:1	600:1	900:1	1200:1	1800:1	2400:1	3600:1			
175	0.750	2.00	0.187	1.31	A	A	A	A	A	—	A	A	A	A	A	A	A	34.0	16	
200	0.875	2.44	0.187	1.75	A	A	A	A	A	—	A	A	A	A	A	A	A	39.5	16	
225	1.000	2.69	0.250	1.88	A	A	A	A	A	—	A	A	A	A	A	A	A	42.0	20	
258	1.125	2.63	0.250	1.88	A, B	A, B	A	A	A	—	A	A	A	A	A	A	A	57.5	39	
300	1.250	3.00	0.250	2.25	A, B	A, B	A	A	A	—	A	A	A	A	A	A	A	64.3	47	
350	1.500	3.44	0.375	2.75	A, B	A, B	A, B	A	A	A	—	A	A	A	A	A	A	99.0	61	
400	1.625	3.75	0.375	2.75	A, B	A, B	A, B	A, B	A, B	A, B	—	A	A	A	A	A	A	124.0	94	
500	2.000	3.81	0.500	2.50	C	B, C	B, C	B, C	A, B	A, B	—	A, B	A, B	A, B	A, B	A	A	437.0	282	
600	2.250	4.44	0.500	3.38	C	B, C	B, C	B, C	B, C	B, C	—	A, B	A, B	A, B	A, B	A, B	A, B	492.0	327	

Assembly Types

Top View

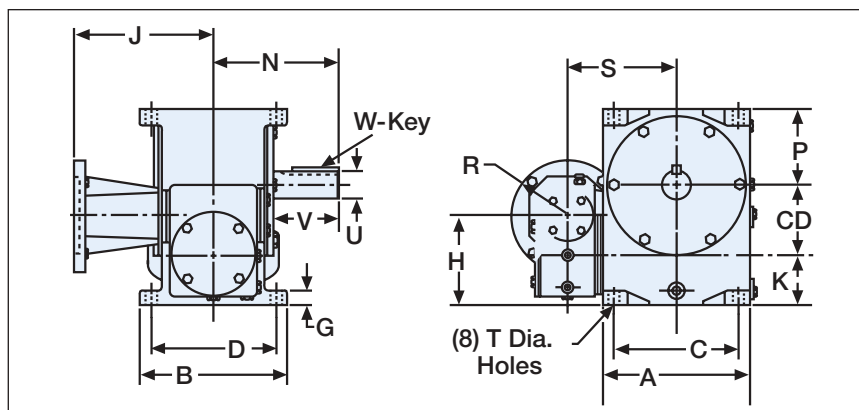


Motor Information				
Worm Bore Size Designation	NEMA Design	Bore +0.002 -0.000	Key Way	R
A	56C	0.625	0.187 x 0.093	3.25
B	140TC/180C	0.875	0.187 x 0.093	3.25
C	180TC/210C	1.125	0.250 x 0.125	4.50

Style DBL



Worm Gear Speed Reducers Double Reduction with Motor Flange

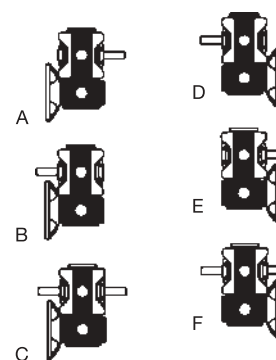


Size	C.D.	A	B	C	D	G	H	J	K	N	P	S	T
								56C 140TC		180TC 210C			
175	1.75	4.25	4.38	3.50	3.63	0.50	3.21	7.25	—	1.88	4.25	2.38	0.343
200	2.00	5.25	5.00	4.25	4.13	0.63	3.40	7.25	—	2.06	4.88	2.69	0.406
225	2.25	5.25	5.00	4.25	4.13	0.63	3.40	7.25	—	2.06	5.13	2.94	0.406
258	2.63	7.00	6.25	5.63	5.13	0.75	4.13	7.25	—	2.38	5.50	3.25	0.531
300	3.00	7.00	6.25	5.63	5.13	0.75	4.13	7.25	—	2.38	5.88	3.63	0.531
350	3.50	7.63	7.63	6.38	6.38	0.88	4.63	8.03	—	2.63	6.50	4.13	0.531
400	4.00	8.63	8.63	7.38	7.38	0.88	5.25	8.03	—	3.00	7.38	4.50	0.531
500	5.00	11.75	11.88	9.13	10.00	1.13	7.38	9.38	10.19	4.38	9.75	6.13	0.781
600	6.00	13.25	12.88	11.00	11.00	1.25	7.50	9.38	10.19	4.50	10.63	6.75	0.906

Size	Output Shaft				Motor Size Available														Appr. Wgt. lbs.	Appr. Oil Cap. oz.
	U +0.000 -0.001	V	W-Key		Per Size and Ratio															
			Sq.	Lgth.	100:1	150:1	200:1	300:1	400:1	450:1	500:1	600:1	900:1	1200:1	1800:1	2400:1	3600:1			
175	0.750	2.00	0.187	1.31	A	A	A	A	A	—	A	A	A	A	A	A	A	34.0	16	
200	0.875	2.44	0.187	1.75	A	A	A	A	A	—	A	A	A	A	A	A	A	39.5	18	
225	1.000	2.69	0.250	1.88	A	A	A	A	A	—	A	A	A	A	A	A	A	42.0	20	
258	1.125	2.63	0.250	1.88	A, B	A, B	A	A	A	—	A	A	A	A	A	A	A	57.5	39	
300	1.250	3.00	0.250	2.25	A, B	A, B	A	A	A	—	A	A	A	A	A	A	A	64.3	47	
350	1.500	3.44	0.375	2.75	A, B	A, B	A, B	A	A	A	—	A	A	A	A	A	A	99.0	61	
400	1.625	3.75	0.375	2.75	A, B	A, B	A, B	A, B	A, B	A, B	—	A	A	A	A	A	A	124.0	94	
500	2.000	3.81	0.500	2.50	C	B, C	B, C	B, C	A, B	A, B	—	A, B	A, B	A, B	A, B	A	A	437.0	282	
600	2.250	4.44	0.500	3.38	C	B, C	B, C	B, C	B, C	B, C	—	A, B	A, B	A, B	A, B	A, B	A, B	492.0	327	

Assembly Types

Top View



Motor Information				
Worm Bore Size Designation	NEMA Design	Bore +0.002 -0.000	Key Way	R
A	56C	0.625	0.187 x 0.093	3.25
B	140TC/180C	0.875	0.187 x 0.093	3.25
C	180TC/210C	1.125	0.250 x 0.125	4.50

 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

 1000 Series
In-Line Helical

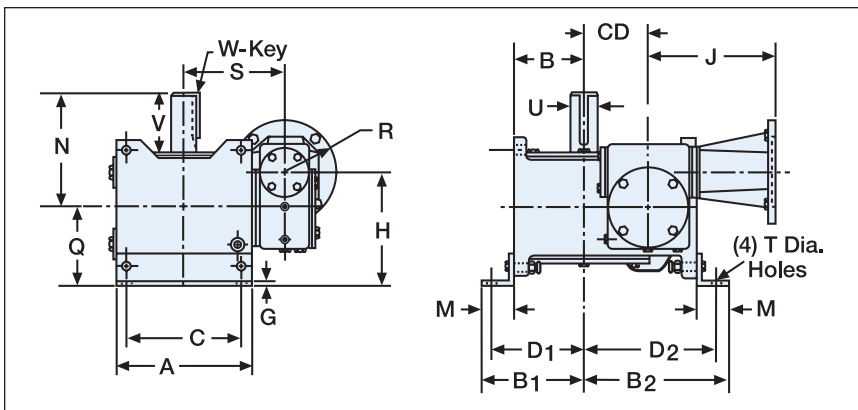
 1000 Series
Helical-Worm

Engineering

Style DVL



Worm Gear Speed Reducers Double Reduction with Motor Flange

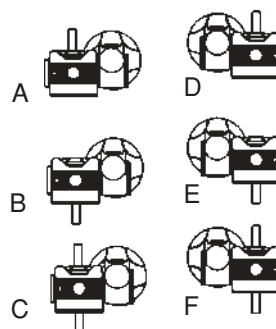


Size	C.D.	A	B1	B2	C	D1	D2	G	H	J	56C 140TC	180TC 210C	M	N	Q	S	T
175	1.75	4.25	3.63	5.63	3.50	3.25	4.50	0.25	4.71	7.25	—	—	1.25	4.25	3.38	3.75	0.343
200	2.00	5.25	4.19	5.88	4.25	3.75	5.13	0.25	4.71	7.25	—	—	1.50	4.88	3.38	4.25	0.406
225	2.25	5.25	4.44	5.81	4.25	4.00	5.38	0.25	4.71	7.25	—	—	1.50	5.13	3.38	4.25	0.406
258	2.63	7.00	5.25	7.00	5.63	4.75	6.50	0.25	5.13	7.25	—	—	2.00	5.50	3.38	5.13	0.531
300	3.00	7.00	5.63	7.38	5.63	5.13	6.88	0.25	5.13	7.25	—	—	2.00	5.88	3.38	5.13	0.531
350	3.50	7.63	6.13	8.13	6.38	5.50	7.50	0.25	6.56	8.03	—	—	2.00	6.50	4.56	5.59	0.531
400	4.00	8.63	6.50	9.00	7.38	5.88	8.38	0.25	7.13	8.03	—	—	2.00	7.38	4.88	6.38	0.531
500	5.00	11.75	9.63	12.88	9.13	8.13	11.38	0.50	10.00	9.38	10.19	10.19	3.50	9.75	7.00	9.44	0.781
600	6.00	13.25	10.75	14.50	11.00	9.19	12.94	0.50	10.94	9.38	10.19	10.19	4.00	10.63	7.94	10.56	0.906

Size	Output Shaft W-Key				Motor Size Available Per Size and Ratio													Appr. Wgt. lbs.	Appr. Oil Cap. oz.
	U +0.000 -0.001	V	Sq.	Lgth.	100:1	150:1	200:1	300:1	400:1	450:1	500:1	600:1	900:1	1200:1	1800:1	2400:1	3600:1		
175	0.750	2.00	0.187	1.31	A	A	A	A	A	—	A	A	A	A	A	A	A	35.0	16
200	0.875	2.44	0.187	1.75	A	A	A	A	A	—	A	A	A	A	A	A	A	40.5	17
225	1.000	2.69	0.250	1.88	A	A	A	A	A	—	A	A	A	A	A	A	A	43.0	21
258	1.125	2.63	0.250	1.88	A, B	A, B	A	A	A	—	A	A	A	A	A	A	A	59.5	39
300	1.250	3.00	0.250	2.25	A, B	A, B	A	A	A	—	A	A	A	A	A	A	A	66.3	47
350	1.500	3.44	0.375	2.75	A, B	A, B	A, B	A	A	A	—	A	A	A	A	A	A	101.0	61
400	1.625	3.75	0.375	2.75	A, B	A, B	A, B	A, B	A, B	A, B	—	A	A	A	A	A	A	126.0	94
500	2.000	3.81	0.500	2.50	C	B, C	B, C	B, C	A, B	A, B	—	A, B	A, B	A, B	A, B	A	A	441.0	282
600	2.250	4.44	0.500	3.38	C	B, C	B, C	B, C	B, C	B, C	—	A, B	A, B	A, B	A, B	A, B	A, B	496.0	327

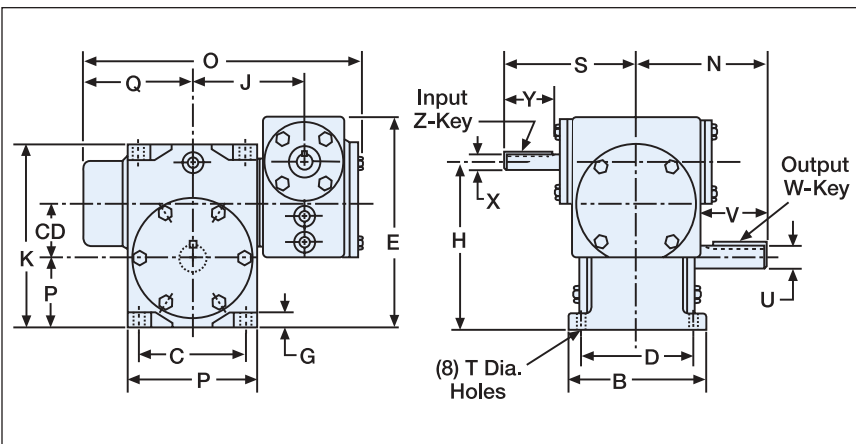
Motor Information				
Worm Bore Size Designation	NEMA Design	Bore +0.002 -0.000	Key Way	R
A	56C	0.625	0.187 x 0.093	3.25
B	140TC/180C	0.875	0.187 x 0.093	3.25
C	180TC/210C	1.125	0.025 x 0.125	4.50

Assembly Types Side View



Style WDT

Universal Series Dimensions Double Reduction Solid Worm Type

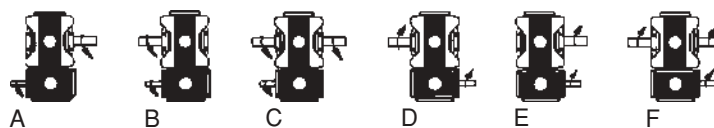


Size	C.D.	A	B	C	D	E	G	H	J	K	N	O	P	Q	S	T
175	1.75	4.25	4.38	3.50	3.63	7.00	0.50	5.46	3.75	6.00	4.25	8.44	2.38	2.75	4.63	0.343
200	2.00	5.25	5.00	4.25	4.13	7.56	0.63	6.02	4.25	6.75	4.88	9.44	2.69	3.25	4.63	0.406
225	2.25	5.25	5.00	4.25	4.13	8.06	0.63	6.52	4.25	7.25	5.13	9.44	2.94	3.25	4.63	0.406
258	2.63	7.00	6.25	5.63	5.13	9.13	0.75	7.63	5.13	8.25	5.50	11.19	3.25	4.13	4.63	0.531
300	3.00	7.00	6.25	5.63	5.13	9.88	0.75	8.38	5.13	9.00	5.88	11.19	3.63	4.13	4.63	0.531
350	3.50	7.63	7.63	6.38	6.38	11.31	0.88	9.63	5.59	10.25	6.50	13.94	4.13	6.13	5.38	0.531
400	4.00	8.63	8.63	7.38	7.38	12.44	0.88	10.75	6.38	11.50	7.38	15.13	4.50	6.69	5.38	0.531
500	5.00	11.75	11.88	9.13	10.00	16.56	1.13	14.13	9.81	15.50	9.75	21.69	6.13	9.25	6.50	0.781
600	6.00	13.25	12.88	11.00	11.00	18.19	1.25	15.75	10.56	17.25	10.63	23.19	6.75	10.00	6.50	0.906

Size	U +0.000 -0.001	Output Shaft		W-Key	X +0.000 -0.001	Input Shaft		Z-Key	Approx. Weight lbs.	Approx. Oil Capacity oz.
		V	Sq.			Y	Sq.			
175	0.750	2.00	0.187	1.31	0.500	2.13	0.125	1.38	24	12
200	0.875	2.44	0.187	1.75	0.500	2.38	0.125	1.38	28	16
225	1.000	2.69	0.250	1.88	0.500	2.38	0.125	1.38	31	20
258	1.125	2.63	0.250	1.88	0.625	2.63	0.187	1.38	45	39
300	1.250	3.00	0.250	2.25	0.625	2.63	0.187	1.38	48	47
350	1.500	3.44	0.375	2.75	0.625	2.97	0.187	1.50	79	61
400	1.625	3.75	0.375	2.75	0.750	3.00	0.187	1.50	103	94
500	2.000	3.81	0.500	2.50	0.875	4.31	0.187	1.88	375	282
600	2.250	4.44	0.500	3.38	0.875	4.50	0.187	1.88	435	327

Assembly Types

Top View



900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

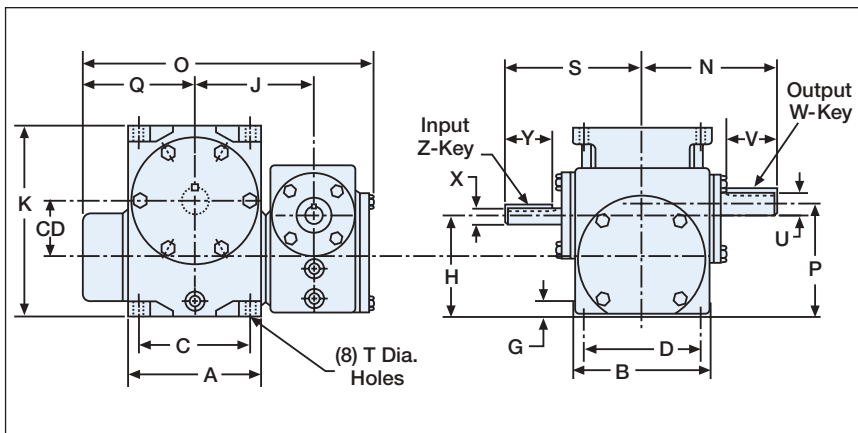
1000 Series
Helical-Worm

Engineering

Style WDB



Universal Series Dimensions Double Reduction Solid Worm Type

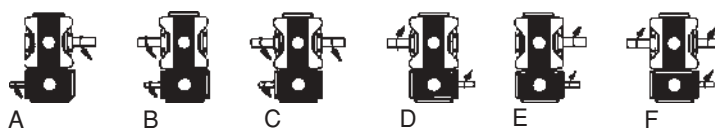


Size	C.D.	A	B	C	D	G	H	J	K	N	O	P	Q	S	T
175	1.75	4.25	4.38	3.50	3.63	0.50	3.21	3.75	6.00	4.25	8.44	3.63	2.75	4.63	0.343
200	2.00	5.25	5.00	4.25	4.13	0.63	3.40	4.25	6.75	4.88	9.44	4.06	3.25	4.63	0.406
225	2.25	5.25	5.00	4.25	4.13	0.63	3.40	4.25	7.25	5.13	9.44	4.31	3.25	4.63	0.406
258	2.63	7.00	6.25	5.63	5.13	0.75	4.13	5.13	8.25	5.50	11.19	5.00	4.13	4.63	0.531
300	3.00	7.00	6.25	5.63	5.13	0.75	4.13	5.13	9.00	5.88	11.19	5.38	4.13	4.63	0.531
350	3.50	7.63	7.63	6.38	6.38	0.88	4.63	5.59	10.25	6.50	13.94	6.13	6.13	5.38	0.531
400	4.00	8.63	8.63	7.38	7.38	0.88	5.25	6.38	11.50	7.38	15.13	7.00	6.69	5.38	0.531
500	5.00	11.75	11.88	9.13	10.00	1.13	7.38	9.81	15.50	9.75	21.69	9.38	9.25	6.50	0.781
600	6.00	13.25	12.88	11.00	11.00	1.25	7.50	10.56	17.25	10.63	23.19	10.50	10.00	6.50	0.906

Size	U +0.000 -0.001	Output Shaft			X +0.000 -0.001	Input Shaft			Approx. Weight lbs.	Approx. Oil Capacity oz.
		V	W-Key			Y	Z-Key			
			Sq.	Lgth.			Sq.	Lgth.		
175	0.750	2.00	0.187	1.31	0.500	2.13	0.125	1.38	24	16
200	0.875	2.44	0.187	1.75	0.500	2.38	0.125	1.38	28	18
225	1.000	2.69	0.250	1.88	0.500	2.38	0.125	1.38	31	20
258	1.125	2.63	0.250	1.88	0.625	2.63	0.187	1.38	45	39
300	1.250	3.00	0.250	2.25	0.625	2.63	0.187	1.38	48	47
350	1.500	3.44	0.375	2.75	0.625	2.97	0.187	1.50	79	61
400	1.625	3.75	0.375	2.75	0.750	3.00	0.187	1.50	103	94
500	2.000	3.81	0.500	2.50	0.875	4.31	0.187	1.88	375	282
600	2.250	4.44	0.500	3.38	0.875	4.50	0.187	1.88	435	327

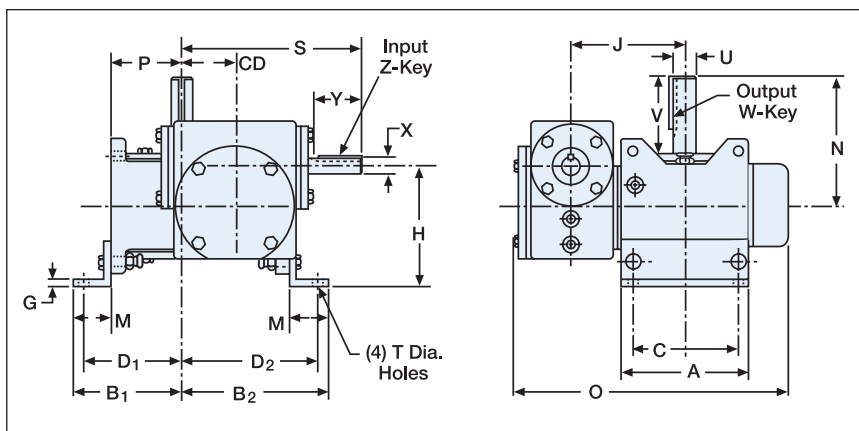
Assembly Types

Top View



Style WDV

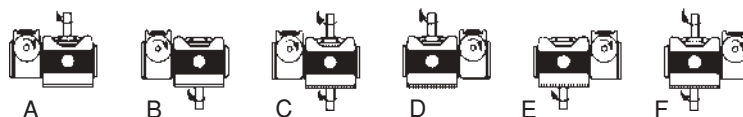
Universal Series Dimensions Double Reduction Solid Worm Type



Size	C.D.	A	B ₁	B ₂	C	D ₁	D ₂	G	H	J	N	O	P	S	T
175	1.75	4.25	3.63	4.88	3.50	3.25	4.50	0.25	4.71	3.75	4.25	8.44	2.38	6.38	0.343
200	2.00	5.25	4.19	5.56	4.25	3.75	5.13	0.25	4.71	4.25	4.88	9.44	2.69	6.63	0.406
225	2.25	5.25	4.44	5.81	4.25	4.00	5.38	0.25	4.71	4.25	5.13	9.44	2.94	6.88	0.406
258	2.63	7.00	5.25	7.00	5.63	4.75	6.50	0.25	5.13	5.13	5.50	11.19	3.25	7.25	0.531
300	3.00	7.00	5.56	7.31	5.63	5.13	6.88	0.25	5.13	5.13	5.88	11.19	3.63	7.63	0.531
350	3.50	7.63	6.50	8.50	6.38	5.50	7.50	0.25	6.56	5.59	6.50	13.94	4.13	8.88	0.531
400	4.00	8.63	6.50	9.00	7.38	5.88	8.38	0.25	7.31	6.38	7.38	15.13	4.50	9.38	0.531
500	5.00	11.75	9.63	12.88	9.13	8.13	11.38	0.50	10.00	9.81	9.75	21.69	6.13	11.50	0.781
600	6.00	13.25	10.75	14.50	11.00	9.19	12.94	0.50	10.94	10.56	10.63	23.19	6.75	12.50	0.906

Size	U +0.000 -0.001	Output Shaft			X +0.000 -0.001	Input Shaft			Approx. Weight lbs.	Approx. Oil Capacity oz.
		V	W-Key			Y	Z-Key			
			Sq.	Lgth.			Sq.	Lgth.		
175	0.750	2.00	0.187	1.31	0.500	2.13	0.125	1.38	25	15
200	0.875	2.44	0.187	1.75	0.500	2.38	0.125	1.38	29	17
225	1.000	2.69	0.250	1.88	0.500	2.38	0.125	1.38	32	21
258	1.125	2.63	0.250	1.88	0.625	2.63	0.187	1.38	47	39
300	1.250	3.00	0.250	2.25	0.625	2.63	0.187	1.38	50	47
350	1.500	3.44	0.375	2.75	0.625	2.97	0.187	1.50	81	61
400	1.625	3.75	0.375	2.75	0.750	3.00	0.187	1.50	105	94
500	2.000	3.81	0.500	2.50	0.875	4.31	0.187	1.88	379	282
600	2.250	4.44	0.500	3.38	0.875	4.50	0.187	1.88	439	327

Assembly Types Side View


 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

 1000 Series
In-Line Helical

 1000 Series
Helical-Worm

Engineering

900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

Ratio Multiplier

Single Stage Parallel Shaft Gear Reducer



- Reducer or Increaser
- High Efficiency
- 4 Ratios Available
- Internal Compression Chamber Eliminates Breather Vent
- Shipped with Synthetic Oil
- Optional Base Mounting
- Cast Iron Construction
- Combine with Right Angle Units for High Ratios
- Universal Mounting Positions
- Industry Standard Mountings

Ratings Tables	116 - 117
Dimensions	118

Baldor 900 Series Double Reduction Ratio Multiplier/Worm Ratings 1750 RPM Size 1 Ratio Multiplier

Total Ratio	Output RPM	Primary Ratio Size 1 RM	Secondary Ratio Worm	913 SIZE			915 SIZE			918 SIZE			921 SIZE		
				Input HP	Output HP	Output Torque In. Lbs.	Input HP	Output HP	Output Torque In. Lbs.	Input HP	Output HP	Output Torque In. Lbs.	Input HP	Output HP	Output Torque In. Lbs.
10	172.5	2	5	0.645	0.553	202	1.060	0.814	293	1.310	1.133	414	2.058	1.790	654
15	115.0	3	5	0.458	0.392	215	0.770	0.578	312	0.968	0.838	459	1.636	1.423	780
20	86.3	4	5	0.347	0.297	217	0.600	0.447	332	0.736	0.636	465	1.322	1.150	840
25	69.0	5	5	0.281	0.241	220	0.500	0.364	328	0.595	0.515	470	1.133	0.985	900
30	57.5	3	10	0.330	0.251	275	0.470	0.340	367	0.640	0.505	553	0.962	0.775	850
40	43.1	4	10	0.252	0.192	280	0.360	0.260	375	0.491	0.387	565	0.764	0.616	900
45	38.3	3	15	0.251	0.176	290	0.410	0.255	414	0.470	0.348	572	0.728	0.553	910
50	34.5	5	10	0.205	0.156	285	0.310	0.214	386	0.396	0.312	570	0.645	0.520	950
60	28.8	4	15	0.191	0.135	295	0.320	0.198	427	0.355	0.263	577	0.570	0.433	950
75	23.0	5	15	0.148	0.104	285	0.260	0.161	436	0.286	0.212	580	0.471	0.358	980
100	17.3	5	20	0.128	0.082	301	0.200	0.117	422	0.250	0.174	634	0.393	0.276	1010
125	13.8	5	25	0.105	0.066	304	0.170	0.093	417	0.202	0.137	625	0.315	0.224	1025
150	11.5	5	30	0.101	0.057	310	0.150	0.077	416	0.194	0.120	656	0.278	0.177	970
200	8.6	5	40	0.084	0.041	303	0.120	0.058	420	0.155	0.085	624	0.238	0.135	990
250	6.9	5	50	0.068	0.030	275	0.110	0.044	396	0.128	0.063	576	0.193	0.101	920
300	5.8	5	60	0.050	0.023	250	0.090	0.035	376	0.106	0.049	541	0.171	0.081	890

Baldor 900 Series Double Reduction Ratio Multiplier/Worm Ratings 1750 RPM Size 2 Ratio Multiplier

Total Ratio	Output RPM	Primary Ratio Size 2 RM	Secondary Ratio Worm	924 SIZE			926 SIZE			932 SIZE			938 SIZE		
				Input HP	Output HP	Output Torque In. Lbs.	Input HP	Output HP	Output Torque In. Lbs.	Input HP	Output HP	Output Torque In. Lbs.	Input HP	Output HP	Output Torque In. Lbs.
30	57.5	3	10	1.395	1.140	1250	1.814	1.496	1640	3.283	2.745	3009	4.690	3.921	4298
40	43.1	4	10	1.088	0.890	1300	1.411	1.163	1700	2.562	2.142	3130	3.683	3.079	4500
45	38.3	3	15	1.086	0.864	1420	1.321	1.046	1720	2.498	1.994	3278	3.521	2.810	4620
50	34.5	5	10	0.920	0.753	1375	1.202	0.991	1810	2.305	1.927	3521	3.179	2.658	4855
60	28.8	4	15	0.849	0.675	1480	1.103	0.873	1914	1.915	1.528	3350	2.687	2.144	4700
75	23.0	5	15	0.700	0.557	1525	0.857	0.679	1860	1.700	1.356	3717	2.339	1.867	5115
100	17.3	5	20	0.593	0.432	1580	0.738	0.541	1975	1.412	1.076	3930	1.913	1.457	5325
125	13.8	5	25	0.453	0.328	1500	0.539	0.406	1855	1.113	0.833	3805	1.569	1.174	5362
150	11.5	5	30	0.451	0.296	1620	0.640	0.371	2002	1.066	0.741	4062	1.409	0.979	5367
200	8.6	5	40	0.366	0.219	1600	0.453	0.271	1980	0.839	0.536	3914	1.121	0.716	5231
250	6.9	5	50	0.294	0.162	1480	0.364	0.204	1861	0.632	0.379	3458	0.932	0.558	5100
300	5.8	5	60	0.259	0.133	1455	0.308	0.161	1766	0.551	0.304	3331	0.854	0.471	5162

Ratio Multiplier



Ratings at 1750 RPM Input

Size	Ratio	Output RPM	Input HP	Output HP	Output Torque In. Lbs.	Output Shaft OHL
1	2	875	2.00	1.95	141	173
1	3	583	1.65	1.62	175	203
1	4	438	1.38	1.35	195	224
1	5	350	1.10	1.07	194	247
2	2	875	12.42	12.17	877	445
2	3	583	8.68	8.42	911	445
2	2	438	6.36	6.15	885	445
2	5	350	5.40	5.17	431	360

Catalog Numbers

Size	Output RPM @ 1750 RPM In	Ratio	Input Style	Output Style	Type	Catalog Number	Shipping Weight	Approx. Oil Capacity
1	875	2	56C	56C	FX1-2-B5-56C	GCF2X01AA	19	4.0
1	583	3	56C	56C	FX1-3-B5-56C	GCF3X01AA	19	4.0
1	438	4	56C	56C	FX1-4-B5-56C	GCF4X01AA	19	4.0
1	350	5	56C	56C	FX1-5-B5-56C	GCF5X01AA	19	4.0
2	875	2	140TC	140TC	FX2-2-B7-140TC	GCF2X02BB	22	8.5
2	583	3	140TC	140TC	FX2-3-B7-140TC	GCF3X02BB	22	8.5
2	438	4	140TC	140TC	FX2-4-B7-140TC	GCF4X02BB	22	8.5
2	350	5	56C	140TC	FX2-5-B5-140TC	GCF5X02AB	22	8.5
2	350	5	140TC	140TC	FX2-5-B7-140TC	GCF5X02BB	22	8.5

 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

 1000 Series
In-Line Helical

 1000 Series
Helical-Worm

Engineering

Ratio Multiplier

Style SX

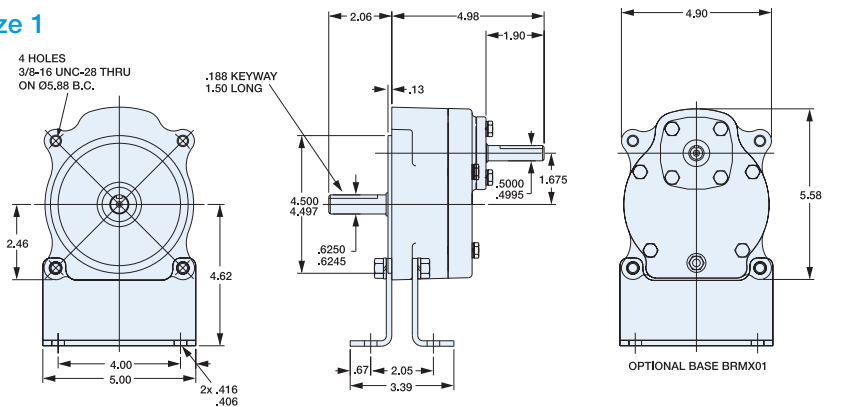
Size 1 and Size 2



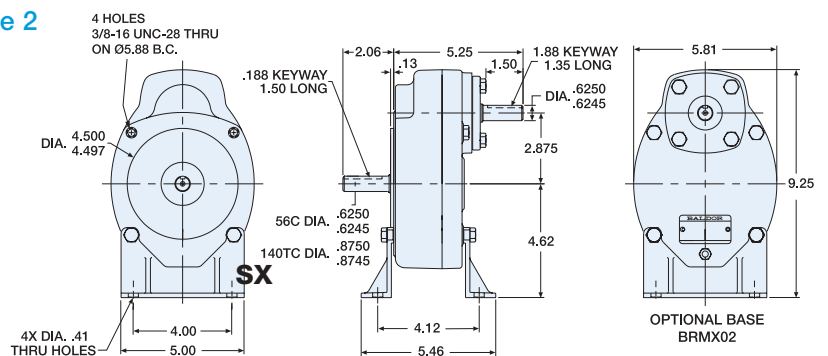
SX

FX

Size 1



Size 2

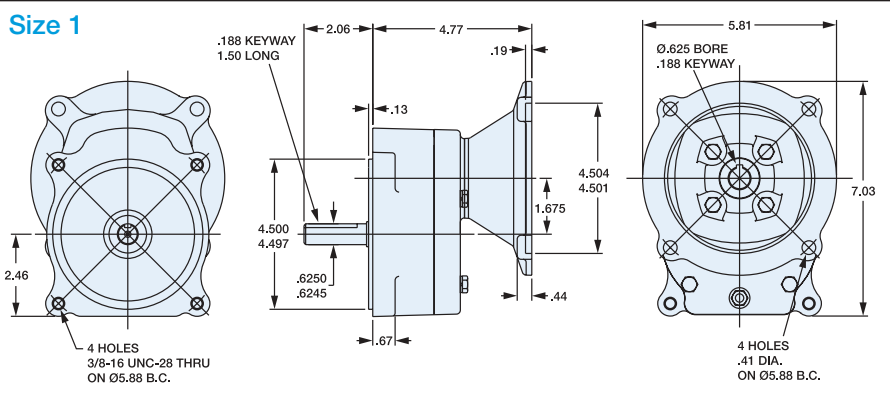


Ratio Multiplier

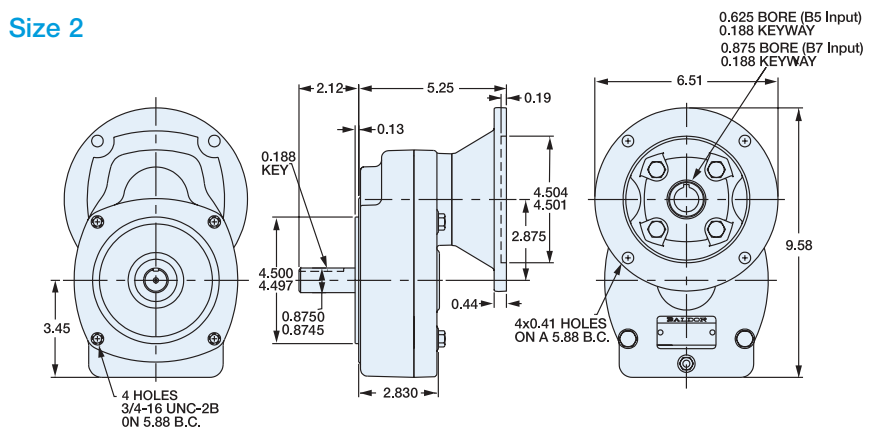
Style FX

Size 1 and Size 2

Size 1



Size 2



1000 Series In-Line Helical

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900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

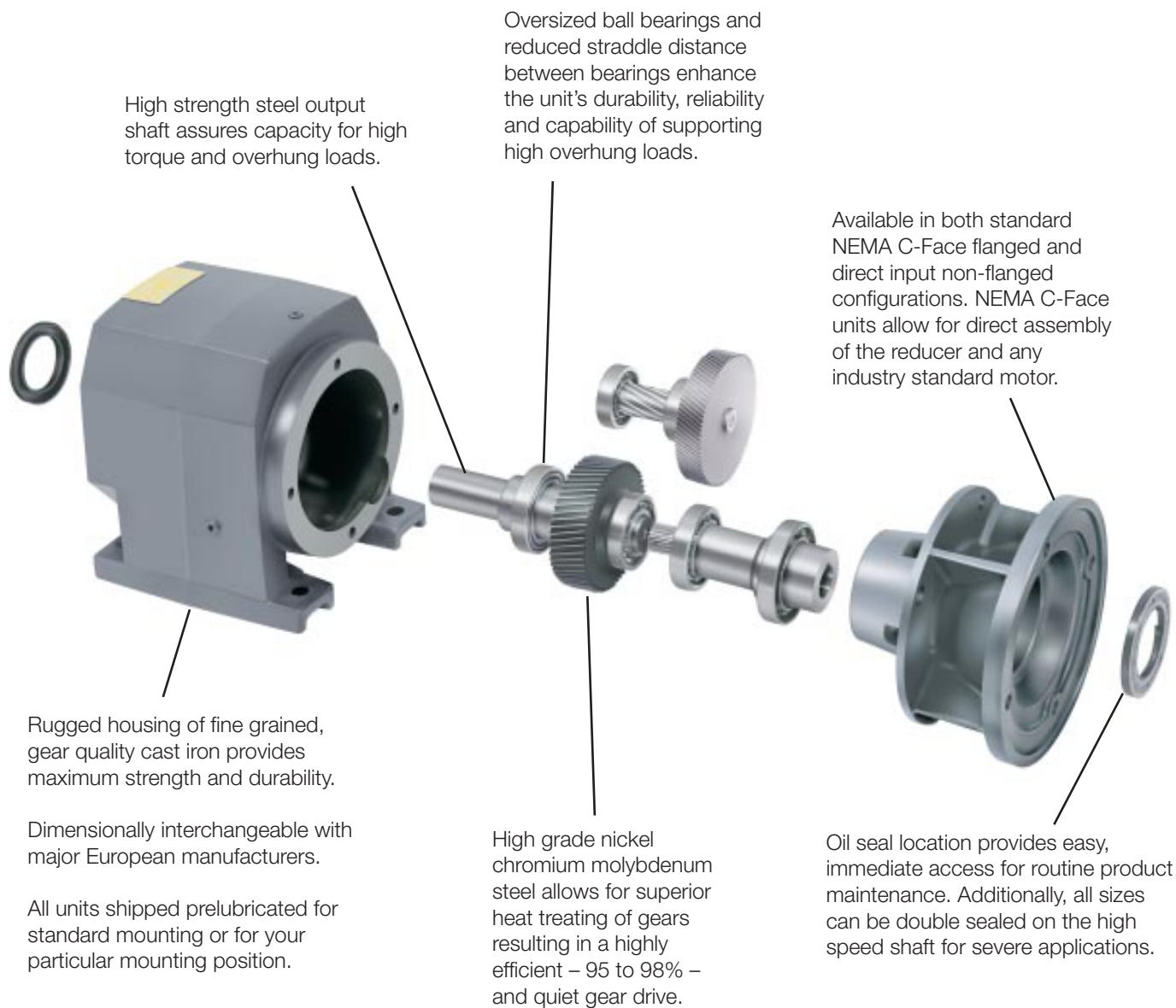
Ratio Multiplier

1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

1000 Series Features and Benefits



A wide range of available gear reduction ratios, from 1.5:1 to 250:1, allows the 1000 Series to fulfill a broad range of output speed requirements.

Easy to Select, Easy to Apply, Easy to Obtain

The Baldor 1000 Series contains a broad selection of compact, heavy-duty helical gear drives, with long life performance features and simplified maintenance. Models include double and triple reduction units in flanged or foot mounted arrangements. You can choose from a wide range of reduction ratios to suit specific applications and a variety of input shaft configurations for maximum positioning flexibility. All units are adaptable to floor, sidewall or ceiling mounting.

1000 Series In-Line Helical Gear Drives Reference Guide

In-Line Helical Gear Quill Type NEMA C-Face Input

F1000

Double Reduction Foot Mount, Quill Type
NEMA C-Face Input



Ratings P. 130 - 146
Dimensions P. 147

F1000

Triple Reduction Foot Mount, Quill Type
NEMA C-Face Input



Ratings P. 130 - 146
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F1000F

Double Reduction Output Flange Mount,
Quill Type, NEMA C-Face Input



Ratings P. 130 - 146
Dimensions P. 149

F1000F

Triple Reduction Output Flange Mount,
Quill Type, NEMA C-Face Input



Ratings P. 130 - 146
Dimensions P. 150

In-Line Helical Gear Projecting Input Shaft

1000

Double Reduction Foot Mount,
Projecting Input Shaft



Ratings P. 130 - 146
Dimensions P. 151

1000

Triple Reduction Foot Mount,
Projecting Input Shaft



Ratings P. 130 - 146
Dimensions P. 152

1000F

Double Reduction Output Flange Mount,
Projecting Input Shaft



Ratings P. 130 - 146
Dimensions P. 153

1000F

Triple Reduction Output Flange Mount,
Projecting Input Shaft



Ratings P. 130 - 146
Dimensions P. 154

900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

Interchange Guide

**Foot Mount
Quill Type NEMA C-Face
F1000**



**Foot Mount
Projecting Input Shaft
1000**



**Output Flange Mount
Quill Type NEMA C-Face
F1000F**



**Output Flange Mount
Projecting Input Shaft
1000F**



Baldor 1000 Series In-Line Helical Gear Drives are designed to be functionally interchangeable with these and many other manufacturer's drives. This chart is intended to be a guide only. Please see appropriate manufacturer's catalogs for exact details regarding ratings and dimensions.

Manufacturers	Size	Foot Mount Quill Type NEMA C-Face F1000	Foot Mount Projecting Input Shaft 1000	Output Flange Mount Quill Type NEMA C-Face F1000F	Output Flange Mount Projecting Input Shaft 1000F
Baldor	1030	F1032/F1033	1032/1033	F1032F/F1033F	1032F/1033F
Boston	830	F832B/F833B	832B/833B	F832BF/F833BF	832BF/833BF
David Brown	M03	M032(3)BAN	M032(3)BRN	M032(3)FAN	M032(3)FRN
SEW Eurodrive	32	R32LP	Not Available	RF32LP	Not Available
Falk	03	03UCBN2(3)-A	03UCBN2(3)-N	03UCFN2(3)-A	03UCFN2(3)-N
Flender	E20*	E20 (M, G, OR A)*	E20A*	EF20 (M, G OR A)*	EF20A*
Dodge	1	SM1A/DM1A/TM1A	SR1A/DR1A/TR1A	SM1F/DM1F/TM1F	SR1F/DR1F/TR1F
Sumitomo	3090	H (C or M) 3090/95/97	H3090/95/97	HF(C or M) 3090/95/97	HF3090/95/97
Stober	C002	C002N-MR	C002N-AW	C002F-MR	C002F-AW
Baldor	1040	F1042/F1043	1042/1043	F1042F/F1043F	1042F/1043F
Boston	840	F842B/F843B	842B/843B	F842BF/F843BF	842BF/843BF
David Brown	M04	M042(3)BAN	M042(3)BRN	M042(3)FAN	M042(3)FRN
SEW Eurodrive	40	R40LP	R40	RF40LP	RF40
Falk	04	04UCBN2(3)-A	04UCBN2(3)-N	04UCFN2(3)-A	04UCFN2(3)-N
Flender	30	E30/Z30/D30-(M, G, or A)	E30/Z30/D30	EF30/ZF30/DF30 (M, G or A)	EF30/ZF30/DF30
Dodge	2	SM2A/DM2A/TM2A	SR2A/DR2A/TR2A	SM2F/DM2F/TM2F	SR2F/DR2F/TR2F
Sumitomo	3100	H(C or M) 3100/05	H3100/05	HF(C or M) 3100/05	HF3100/05
Stober	C100	C102/3N-MR	C102/3N-AW	C102/3F-MR	C102/3F-AW
Baldor	1060	F1062/F1063	1062/1063	F1062F/F1063F	1062F/1063F
Boston	860	F862B/F863B	862B/863B	F862BF/F863BF	862BF/863BF
David Brown	M06	M062(3)BAN	M062(3)BRN	M062(3)FAN	M062(3)FRN
SEW Eurodrive	60	R60LP/R63LP	R60/R63	RF60LP/RF63LP	RF60/RF63
Falk	06	06UCBN2(3)-A	06UCBN2(3)-N	06UCFN2(3)-A	06UCFN2(3)-N
Flender	40	E40/Z40/D40-(M, G or A)	E40/Z40/D40	EF40/ZF40/DF40-(M, G or A)	EF40/ZF40/DF40
Dodge	3	SM3A/DM3A/TM3A	SR3A/DR3A/TR3A	SM3F/DM3F/TM3F	SR3F/DR3F/TR3F
Sumitomo	3110	H(C or M) 3110/15	H3110/15	HF(C or M) 3110/15	HF3110/15
Stober	C200	C202/3N-MR	C202/3N-AW	C202/3F-MR	C202/3F-AW
Baldor	1070	F1072/F1073	1072/1073	F1072F/F1073F	1072F/1073F
Boston	870	F872B/F873B	872B/873B	F872BF/F873BF	872BF/873BF
David Brown	M07	M072(3)BAN	M072(3)BRN	M072(3)FAN	M072(3)FRN
SEW Eurodrive	70	R70LP/R73LP	R70/R73	RF70LP/RF73LP	RF70/RF73
Falk	07	07UCBN2(3)-a	07UCBN2(3)-N	07UCFN2(3)-A	07UCFN2(3)-N
Flender	60	E60/Z60/D60 - (M,D or A)	E60/Z60/D60	EF60/ZF60/DF60 (M, D or A)	EF60/ZF60/DF60
Dodge	4	SM4A/DM4A/TM4A	SR4A/DR4A/TR4A	SM4F/DM4F/TM4F	SR4F/DR4F/TR4F
Sumitomo	3140	H(C or M) 3140/45	H3140/45	HF(C or M) 3140/45	HF3140/45
Stober	C400	C402/3N-MR	C402/3N-AW	C402/3F-MR	C402/3F-AW

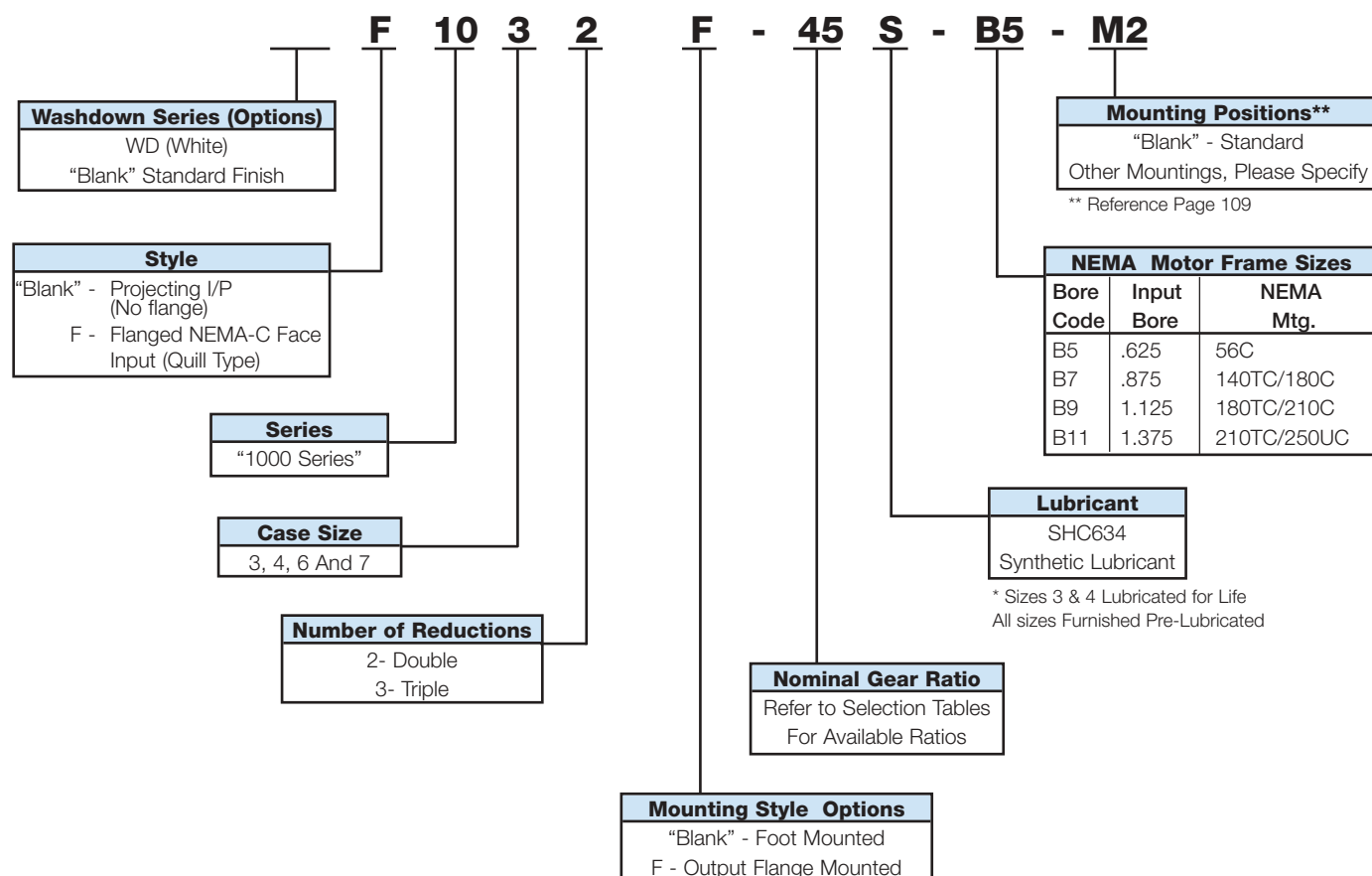
NOTES: * Single reduction models only.

If you require assistance with an interchange, please contact your local Baldor office. See back cover.

1000 Series In-Line Helical Numbering System/ How to Order

NUMBERING SYSTEM

EXAMPLE:



HOW TO ORDER

EXAMPLE:

Required flange input NEMA 56C, and flanged output, 1/3 HP, Class I, 45:1 ratio, lubricated, and standard mounting position.

Order:

F1032F-45S-B5

1000 Series In-Line Helical Gear Drives

MOTORIZED GEAR DRIVES

1. Determine application service factor from page 125, or from Application Classifications on pages 193 - 195.
2. Determine output speed required.
3. Determine HP or output torque requirement.
4. Select a speed reducer size based on output speed and horsepower requirement for given service class.
5. Check overhung load calculation.

EXAMPLE

Select an In-line motorized helical gear drive and motor to drive a uniformly loaded line conveyor 24 hours/day requiring 2 HP at 35 RPM.

POWER REQUIREMENT

230/460 volt
3 phase
60 hertz

1. Select Service Factor Class from page 125.
Service Class = II
2. Output RPM = 35
3. 2 HP
4. Select a 2 HP drive that will satisfy minimum of II service class.
5. O.H.L. = 1720 lbs. page 126
6. Order: 1 - F1072-50S-B7
1 - Motor Cat. #VM3558T from 501 Catalog

Both a double and triple reduction gear drive is available. The double reduction will have an economic advantage. The triple reduction should be specified when relative rotation is of concern.

OVERHUNG LOAD

If the output shaft of a gear drive is connected to the driven machine by other than a flexible coupling, an overhung load is imposed on the shaft. This load may be calculated as follows:

$$OHL = \frac{2 TK}{D}$$

OHL = Overhung Load (LB.)
T = Shaft Torque (LB.-IN.)
D = Pitch Diameter of Sprocket, Pinion or Pulley (IN.)
K = Load Connection Factor

LOAD CONNECTION FACTOR (K)

Sprocket or Timing Belt 1.00
Pinion and Gear Drive 1.25
Pulley and V-Belt Drive 1.50
Pulley and Flat Belt Drive 2.50

An overhung load greater than permissible load value may be reduced to an acceptable value by the use of a sprocket, pinion or pulley of a larger PD. Relocation of the load closer to the center of gear drive will also increase OHL capacity.

Permissible Overhung Loads and Output Shaft Thrust Loads are listed for each reducer in the Tables on Page 126.

In-Line Helical Selection Tables

1750 RPM Input

ORDER BY STYLE NUMBER
FOR STANDARD MOUNTING POSITIONS

Approx. Output RPM	Ratio	Non-Flanged (Projecting Input Shaft)				Flanged (Quill Type NEMA C-Face Input)				
		Gear Capacity		Non-Flange O/P	Output Flange	Ratings			Non-Flange O/P	Output Flange
		Output Torque In. Lbs.	Input HP	Style No.	Style No.	Motor HP	Output Torque In. Lbs.	S.C. *	Style No.	Style No.
35	50	5216	3.16	1072-50S	1072F-50S	3	4900	I	F1072-50S-B9	F1072F-50S-B9
						2	3268	II	F1072-50S-B7	F1072F-50S-B7
		5290	3.02	1073-50S	1073F-50S	1.5	2552	III		
						3	5256	I	F1073-50S-B9	F1073F-50S-B9
						2	3504	II	F1073-50S-B7	F1073F-50S-B7
						1.5	2628	II		

* Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service Class III (S.F. = 2.00)

Overhung Load Ratings refer to Page 126.

Indicates Triple Reduction

1000 Series In-Line Helical Gear Drives

To properly select a gear drive, the following application information should be known.

1. Service Factor or AGMA Service class.
2. Output Horsepower or Torque
3. Output RPM or Ratio
(Maximum Input Speed 4500 RPM)

NON-MOTORIZED GEAR DRIVES

1. Determine application service factor from the service factor chart on this page, or from Application Classifications on pages 193 - 195.
2. Determine design Horsepower or Torque.
- Design HP = Application HP x S.F.
- Design Torque = Application Torque x S.F.
3. Select a Gear drive that satisfies output RPM, service class and/or output torque requirement.
Reference rating tables pages 130 - 146.*
4. Overhung shaft load should be checked when belt or chain drives are used, to prevent premature shaft or bearing failure. Reference page 124 for calculations.

* Ratings are at 1750 RPM input.

Contact Baldor for ratings at other input speeds.

EXAMPLE

Select an In-line 1000 Series Gear Drive for a continuous duty concrete mixer requiring 700 lb-in. of torque at approx. 1000 RPM, to operate up to 8 hrs/day. The Gear Drive will be driven at 1450 input RPM.

1. Application Service Factor = 1.25
2. Design Torque = $700 \times 1.25 = 875$ LB-IN.
3. Select at speed and torque level of 875 LB-IN. or greater.
4. Order 1062-1.5S.

NOTE: The use of an auxiliary drive between the gear drive and the driven machine reduces the torque required at the output shaft in direct proportion to the auxiliary drive ratio.

A 3:1 chain ratio would reduce the torque requirement at the output shaft of the gear drive to one-third, resulting in a smaller unit size selection.

SERVICE FACTOR CHART

AGMA Class of Service	Service Factor	Operating Conditions
I	1.00	Moderate Shock-not more than 15 minutes in 2 hours Uniform Load-not more than 10 hours per day.
II	1.25	Moderate Shock-not more than 10 hours per day. Uniform Load-more than 10 hours per day.
	1.50	Heavy Shock-not more than 15 minutes in 2 hours. Moderate Shock-more than 10 hours per day.
III	1.75	Heavy Shock-not more than 10 hours per day.
	2.00	Heavy Shock-more than 10 hours per day.

For complete AGMA Service Factors and Load Classifications, see Engineering Page 193 - 195.

In-Line Helical Ratings

Non-Flanged

Input Speeds 1750 RPM, 1450 RPM & 1160 RPM

Service Factor 1.0*

Style Number	Input Speed								
	1750 RPM			1450 RPM			1160 RPM		
	Approx. Output RPM	Output Torque In. Lbs. (Max.)	Input HP (Max.)	Approx. Output RPM	Output Torque In. Lbs. (Max.)	Input HP (Max.)	Approx. Output RPM	Output Torque In. Lbs. (Max.)	Input HP (Max.)
1032/1032F-1.5S	1170	288	5.80	970	293	4.82	773	293	3.85
1042/1042F-1.5S	1170	479	9.08	970	509	8.00	773	549	6.89
1062/1062F-1.5S	1170	830	16.20	970	884	14.30	773	950	12.30
1072/1072F-1.5S	1170	1094	21.20	970	1090	17.50	773	1090	14.00

1000 Series In-Line Helical Gear Drives

Overhung Lods (Lbs) & Axial Thrust (Lbs) Capacities on Output Shaft

Output RPM	1032 / 1033 OHL	1042 / 1043 OHL	1062 / 1063 OHL	1072 / 1073 OHL
1000	270	425	715	950
500	300	455	805	1065
350	340	465	830	1065
250	360	485	880	1065
200	385	505	900	1065
150	385	525	945	1090
100	385	620	1010	1275
50	385	770	1360	1720
25 & under	385	770	1600	2090
Thrust	390	635	1200	1580

Overhung loads are calculated at the center of the shaft extension and with no thrust load.
For combined loading consult factory.

Overhung Lods (Lbs) on Input Shaft at 1750 RPM

Size	1032	1033	1042	1043	1062	1063	1072	1073
OHL	344	390	314	373	310	315	402	371

Overhung loads are calculated at the center of the shaft extension and with no thrust load.

Approximate Weights (Lbs)

Non-Flange		Flange				
Size	Lbs.	Size	NEMA Mounting			
			56C B5	140TC B7	180TC B9	210TC B11
1032	19	F1032	22	22	25	—
1032F	21	F1032F	24	24	27	—
1042	25	F1042	29	29	32	—
1042F	29	F1042F	33	33	36	—
1062	49	F1062	48	48	63	63
1062F	51	F1062F	50	50	66	66
1072	92	F1072	86	86	99	99
1072F	99	F1072F	92	92	105	105
1033	26	F1033	30	—	—	—
1033F	29	F1033F	32	—	—	—
1043	33	F1043	37	—	—	—
1043F	37	F1043F	41	—	—	—
1063	57	F1063	61	61	—	—
1063F	59	F1063F	63	63	—	—
1073	107	F1073	106	106	121	—
1073F	114	F1073F	113	113	128	—

F1032/3 - F1042/3 - 150 lbs. maximum motor weight.
F1062/3 - F1072/3 - 300 lbs. maximum motor weight.

1000 Series In-Line Helical Gear Drives

LUBRICANT AND QUANTITY

Synthetic SHC634 is recommended for the 1000 Series gear drives and, at all times, the lubricant must remain free from contamination. Normal operating temperatures range between 150°F - 170°F. During the initial break-in of the gear drive, higher than normal operating temperatures may result.

All gear drives are supplied filled with SHC634 synthetic oil and with the quantity listed below for standard mounting position M1 or M8 or to mounting specified at time of order.

- Sizes 1032/1033 and 1042/1043 are lubricated for life, for universal mounting. No vent required.
- Sizes 1062/1063 and 1072/1073 will require an oil change after 20,000 hours of operation. More frequent changes may be required when operating in high temperature ranges or unusually contaminated environments.
- Satisfactory performance may be obtained in some applications with non-synthetic oils and will require more frequent changes.

Recommended Lubricant	Ambient Temperature	ISO Viscosity Grade No.	Baldor	
			Catalog Number	
			Quart	Gallon
Mobil SHC634	-30° to 225°F	320 / 460	MJ0001A05SP	MJ0001A07SP
Mobil D.T.E Oil Extra Heavy	50° to 125°F	710 / 790	N/A	N/A

Oil Capacities (Quarts)

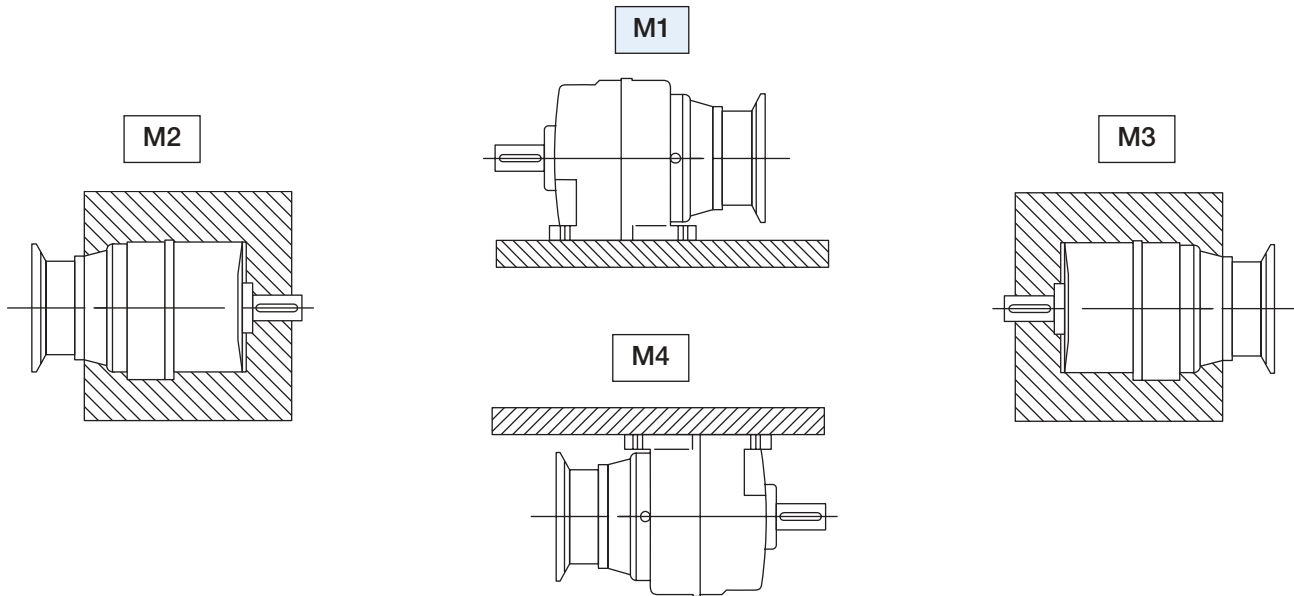
Unit Size	MOUNTING POSITIONS								
	M1	M2	M3	M4	M5	M6	M7	M8	M9
	Foot Mounted						Output Flange Mounted		
1032	.63	.63	.84	.84	.84	1.1	.63	.84	1.1
1033	.84	.84	1.1	1.1	1.8	1.6	.84	1.8	1.6
1042	.63	.63	1.2	1.2	1.5	1.7	.63	1.5	1.7
1043	.95	.95	1.4	1.4	2.2	2.2	.95	2.4	2.2
1062	1.3	1.3	2.3	2.3	3.0	3.4	1.3	3.0	3.4
1063	1.9	1.9	2.7	2.7	5.0	5.0	1.9	5.0	5.0
1072	2.6	2.6	4.8	4.8	6.3	7.1	2.6	6.3	7.1
1073	3.0	3.8	5.9	5.9	9.5	9.5	3.0	10.8	9.5

Refer to mounting positions on page 128.

1000 Series In-Line Helical Gear Drives

FOOT MOUNTED HORIZONTAL

STANDARD

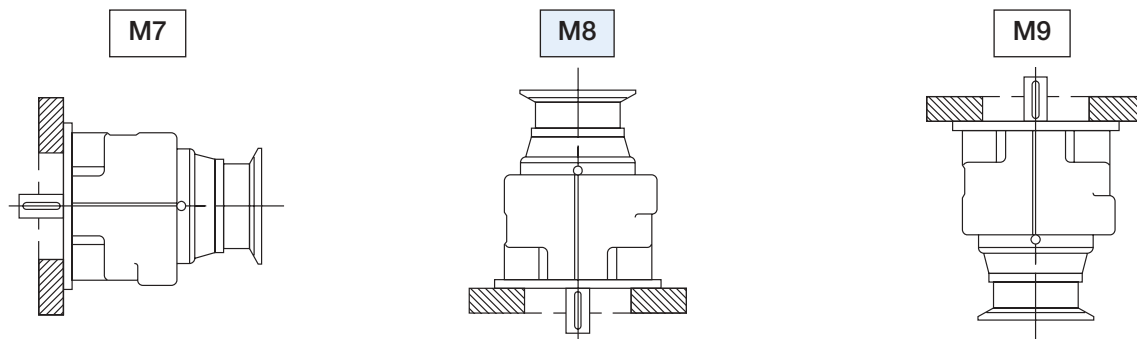


FOOT MOUNTED VERTICAL



OUTPUT FLANGE MOUNTED

STANDARD



Positions M1 & M8 are standard and will be supplied with oil for this position unless otherwise specified.

CAUTION: Mounting of gear drives in overhead positions may be hazardous. Use of external guides or supports is strongly recommended for overhead mounting.

Avoiding those positions where the high speed oil seal is immersed in oil will provide greater security against high speed input seal wear.

NOTE: The above drawings will serve to represent both flanged and non-flanged styles.



1000 Series Stock In-Line Helical Reducers Quill Type NEMA C-Face Input

QUILL TYPE NEMA C-FACE INPUT

Nominal Output RPM @ 1750 RPM In	Gear Ratio	Continuous Duty Output Torque (In.-Lbs.) Based on 1750 RPM Motor										Max. Hp	Max. Torq.	NEMA Motor Mount	Style Number	Catalog Number	Ap'x. Shpg. Wgt.
		0.33	0.5	0.75	1	1.5	2	3	5	7.5	10						
194	9			253	338							1.86	636	56C	F1032-09S-B5	GIF0932A	21
	9					508						1.86	636	140TC	F1032-09S-B7	GIF0932B	21
	9						616					4.14	1275	140TC	F1042-09S-B7	GIF0942B	29
	9							924				4.14	1275	180TC	F1042-09S-B9	GIF0942C	29
	9							946	1577			8.18	2608	180TC	F1062-09S-B9	GIF0962C	51
	9									2366		8.18	2608	210TC	F1062-09S-B11	GIF0962D	51
	9									2381	3175	16.7	5353	210TC	F1072-09S-B11	GIF0972D	99
125	14		239	358	478							1.14	550	56C	F1032-14S-B5	GIF1432A	21
	14					741	988					2.89	1443	140TC	F1042-14S-B7	GIF1442B	29
	14							1512	2519			5.72	2910	180TC	F1062-14S-B9	GIF1462C	51
	14								2435			10.9	5364	180TC	F1072-14S-B9	GIF1472C	99
	14									3653	4870	10.9	5364	210TC	F1072-14S-B11	GIF1472D	99
97	18	210	322	483								0.91	590	56C	F1032-18S-B5	GIF1832A	21
	18				596							2.35	1420	56C	F1042-18S-B5	GIF1842A	29
	18					894	1192					2.35	1420	140TC	F1042-18S-B7	GIF1842B	29
	18						1192					4.88	2940	140TC	F1062-18S-B7	GIF1862B	51
	18							1788				4.88	2940	180TC	F1062-18S-B9	GIF1862C	51
	18							1858	3096			8.5	5320	180TC	F1072-18S-B9	GIF1872C	99
	18									4645		8.5	5320	210TC	F1072-18S-B11	GIF1872D	99
70	25	294	442									0.65	580	56C	F1032-25S-B5	GIF2532A	21
	25			593	791							1.64	1312	56C	F1042-25S-B5	GIF2542A	29
	25					1187						1.64	1312	140TC	F1042-25S-B7	GIF2542B	29
	25					1309	1745					3.49	3070	140TC	F1062-25S-B7	GIF2562B	51
	25							2618				3.49	3070	180TC	F1062-25S-B9	GIF2562C	51
	25							2540	4236			6.17	5279	180TC	F1072-25S-B9	GIF2572C	99
43	40		627	940	1254							1.00	1375	56C	F1042-40S-B5	GIF4042A	29
	40				1339							2.18	2992	56C	F1062-40S-B5	GIF4062A	51
	40					2008	2678					2.18	2992	140TC	F1062-40S-B7	GIF4062B	51
31	56	647	970									0.71	1392	56C	F1042-56S-B5	GIF5642A	29
	56		1000	1513	2018							1.28	2460	56C	F1062-56S-B5	GIF5662A	51

NOTE:

- Service Class I Torque Ratings
- Service Class II Torque Ratings
- Service Class III Torque Ratings

 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

 1000 Series
In-Line Helical

 1000 Series
Helical-Worm

Engineering

In-Line Helical Selection Tables

1750 RPM Input

ORDER BY STYLE NUMBER OR CATALOG NUMBER
FOR STANDARD MOUNTING POSITIONS

Approx. Output RPM	Ratio	Non-Flanged (Projecting Input Shaft)				Flanged (Quill Type NEMA C-Face Input)				
		Gear Capacity		Non-Flange O/P	Output Flange	Ratings			Non-Flange O/P	Output Flange
		Output Torque In.-Lbs.	Input HP	Style No. (Catalog No.)	Style No. (Catalog No.)	Motor HP	Output Torque In.-Lbs.	S.C. *	Style No. (Catalog No.)	Style No. (Catalog No.)
1170	1.5	288	5.80	1032-1.5S	1032F-1.5S	5 3	251 149	I II	F1032-1.5S-B9	F1032F-1.5S-B9
		479	9.08	1042-1.5S	1042F-1.5S	2 5 3	98 248 146	III II III	F1032-1.5S-B7 F1042-1.5S-B9	F1032F-1.5S-B7 F1042F-1.5S-B9
		830	16.20	1062-1.5S	1062F-1.5S	10 7.5	500 380	II III	F1062-1.5S-B11	F1062F-1.5S-B11
		1094	21.20	1072-1.5S	1072F-1.5S	10	510	III	F1072-1.5S-B11	F1072F-1.5S-B11
922	1.9	325	4.77	1032-1.9S	1032F-1.9S	3 2	200 133	II III	F1032-1.9S-B9 F1032-1.9S-B7	F1032F-1.9S-B9 F1032F-1.9S-B7
		643	8.69	1042-1.9S	1042F-1.9S	5 3	343 209	II III	F1042-1.9S-B9	F1042F-1.9S-B9
		1100	15.40	1062-1.9S	1062F-1.9S	10 7.5	710 535	II III	F1062-1.9S-B11	F1062F-1.9S-B11
		1492	21.20	1072-1.9S	1072F-1.9S	10 7.5	695 521	III III	F1072-1.9S-B11	F1072F-1.9S-B11
760	2.3	333	4.29	1032-2.3S	1032F-2.3S	3 2	234 156	I III	F1032-2.3S-B9 F1032-2.3S-B7	F1032F-2.3S-B9 F1032F-2.3S-B7
		695	8.52	1042-2.3S	1042F-2.3S	5 3	378 226	II III	F1042-2.3S-B9	F1042F-2.3S-B9
		1217	15.00	1062-2.3S	1062F-2.3S	10 7.5	800 600	II III	F1062-2.3S-B11	F1062F-2.3S-B11
		1680	21.20	1072-2.3S	1072F-2.3S	10	780	III	F1072-2.3S-B11	F1072F-2.3S-B11
673	2.6	350	3.98	1032-2.6S	1032F-2.6S	3 2	257 171	I III	F1032-2.6S-B9 F1032-2.6S-B7	F1032F-2.6S-B9 F1032F-2.6S-B7
		715	7.95	1042-2.6S	1042F-2.6S	5 3	416 250	II III	F1042-2.6S-B9	F1042F-2.6S-B9
		1320	14.50	1062-2.6S	1062F-2.6S	10 7.5	900 676	II III	F1062-2.6S-B11	F1062F-2.6S-B11
		1800	21.20	1072-2.6S	1072F-2.6S	10	840	III	F1072-2.6S-B11	F1072F-2.6S-B11

* Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
For Overhung Load Ratings refer to Page 126.

In-Line Helical Selection Tables

1750 RPM Input

ORDER BY STYLE NUMBER OR CATALOG NUMBER
FOR STANDARD MOUNTING POSITIONS

Approx. Output RPM	Ratio	Non-Flanged (Projecting Input Shaft)				Flanged (Quill Type NEMA C-Face Input)				
		Gear Capacity		Non-Flange O/P	Output Flange	Ratings			Non-Flange O/P	Output Flange
		Output Torque In.-Lbs.	Input HP	Style No. (Catalog No.)	Style No. (Catalog No.)	Motor HP	Output Torque In.-Lbs.	S.C. *	Style No. (Catalog No.)	Style No. (Catalog No.)
605	2.9	533	5.18	1032-2.9S	1032F-2.9S	5 3	508 305	I III	F1032-2.9S-B9	F1032F-2.9S-B9
		840	8.34	1042-2.9S	1042F-2.9S	5 3	500 300	II III	F1042-2.9S-B9	F1042F-2.9S-B9
		1560	15.90	1062-2.9S	1062F-2.9S	10 7.5	972 730	II III	F1062-2.9S-B11	F1062F-2.9S-B11
		2135	21.20	1072-2.9S	1072F-2.9S	10	998	III	F1072-2.9S-B11	F1072F-2.9S-B11
530	3.3	370	3.24	1032-3.3S	1032F-3.3S	3	338	I	F1032-3.3S-B9	F1032F-3.3S-B9
						2 1.5	226 169	II III	F1032-3.3S-B7	F1032F-3.3S-B7
						5 3	510 306	I III	F1042-3.3S-B9	F1042F-3.3S-B9
		1550	13.40	1062-3.3S	1062F-3.3S	10 7.5	1145 858	I II	F1062-3.3S-B11	F1062F-3.3S-B11
						5	572	III	F1062-3.3S-B9	F1062F-3.3S-B9
		2398	21.20	1072-3.3S	1072F-3.3S	10	1120	III	F1072-3.3S-B11	F1072F-3.3S-B11
500	3.5	376	3.11	1032-3.5S	1032F-3.5S	3	358	I	F1032-3.5S-B9	F1032F-3.5S-B9
						2 1.5	241 180	II III	F1032-3.5S-B7	F1032F-3.5S-B7
						5 3	600 358	I III	F1042-3.5S-B9	F1042F-3.5S-B9
		1665	12.70	1062-3.5S	1062F-3.5S	10 7.5	1298 974	I II	F1062-3.5S-B11	F1062F-3.5S-B11
						5	680	III	F1062-3.5S-B9	F1062F-3.5S-B9
		2704	21.00	1072-3.5S	1072F-3.5S	10	1275	III	F1072-3.5S-B11	F1072F-3.5S-B11

* Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
For Overhung Load Ratings refer to Page 126.

900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

In-Line Helical Selection Tables

1750 RPM Input

ORDER BY STYLE NUMBER OR CATALOG NUMBER
FOR STANDARD MOUNTING POSITIONS

Approx. Output RPM	Ratio	Non-Flanged (Projecting Input Shaft)				Flanged (Quill Type NEMA C-Face Input)				
		Gear Capacity		Non-Flange O/P	Output Flange	Ratings			Non-Flange O/P	Output Flange
		Output Torque In.-Lbs.	Input HP	Style No. (Catalog No.)	Style No. (Catalog No.)	Motor HP	Output Torque In.-Lbs.	S.C. *	Style No. (Catalog No.)	Style No. (Catalog No.)
448	3.9	552	3.97	1032-3.9S	1032F-3.9S	3	412	I	F1032-3.9S-B9	F1032F-3.9S-B9
						2	275	III	F1032-3.9S-B7	F1032F-3.9S-B7
		959	6.96	1042-3.9S	1042F-3.9S	5	700	I	F1042-3.9S-B9	F1042F-3.9S-B9
						3	420	III		
		1835	13.30	1062-3.9S	1062F-3.9S	10	1366	I	F1062-3.9S-B11	F1062F-3.9S-B11
						7.5	1024	II		
400	4.4					5	683	III	F1062-3.9S-B9	F1062F-3.9S-B9
		2902	21.20	1072-3.9S	1072F-3.9S	10	1355	III	F1072-3.9S-B11	F1072F-3.9S-B11
		572	3.54	1032-4.4S	1032F-4.4S	3	480	I	F1032-4.4S-B9	F1032F-4.4S-B9
						2	320	II	F1032-4.4S-B7	F1032F-4.4S-B7
						1.5	240	III		
		1000	6.59	1042-4.4S	1042F-4.4S	5	773	I	F1042-4.4S-B9	F1042F-4.4S-B9
340	5.1					3	464	III		
		1933	12.50	1062-4.4S	1062F-4.4S	10	1531	I	F1062-4.4S-B11	F1062F-4.4S-B11
						7.5	1148	II		
						5	766	III	F1062-4.4S-B9	F1062F-4.4S-B9
		3265	21.20	1072-4.4S	1072F-4.4S	10	1524	III	F1072-4.4S-B11	F1072F-4.4S-B11
		592	3.31	1032-5.1S	1032F-5.1S	3	531	I	F1032-5.1S-B9	F1032F-5.1S-B9
300	2.5					2	354	II	F1032-5.1S-B7	F1032F-5.1S-B7
						1.5	266	III		
		1065	5.96	1042-5.1S	1042F-5.1S	5	840	I	F1042-5.1S-B9	F1042F-5.1S-B9
						3	504	III		
		2042	11.60	1062-5.1S	1062F-5.1S	10	1742	I	F1062-5.1S-B11	F1062F-5.1S-B11
						7.5	1306	II		
250	2.0					5	870	III	F1062-5.1S-B9	F1062F-5.1S-B9
		3698	21.20	1072-5.1S	1072F-5.1S	10	1726	III	F1072-5.1S-B11	F1072F-5.1S-B11

* Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
For Overhung Load Ratings refer to Page 126.

In-Line Helical Selection Tables

1750 RPM Input

ORDER BY STYLE NUMBER OR CATALOG NUMBER
 FOR STANDARD MOUNTING POSITIONS

Approx. Output RPM	Ratio	Non-Flanged (Projecting Input Shaft)				Flanged (Quill Type NEMA C-Face Input)				
		Gear Capacity		Non-Flange O/P	Output Flange	Ratings			Non-Flange O/P	Output Flange
		Output Torque In.-Lbs.	Input HP	Style No. (Catalog No.)	Style No. (Catalog No.)	Motor HP	Output Torque In.-Lbs.	S.C. *	Style No. (Catalog No.)	Style No. (Catalog No.)
307	5.7	563	2.91	1032-5.7S	1032F-5.7S	2 1.5	383 287	I II	F1032-5.7S-B7	F1032F-5.7S-B7
						1	191	III	F1032-5.7S-B5	F1032F-5.7S-B5
		1110	5.64	1042-5.7S	1042F-5.7S	5 3	925 555	I II	F1042-5.7S-B9	F1042F-5.7S-B9
						2	370	III	F1042-5.7S-B7	F1042F-5.7S-B7
		2140	10.80	1062-5.7S	1062F-5.7S	10 7.5	1891 1464	I II	F1062-5.7S-B11	F1062F-5.7S-B11
						5	976	III	F1062-5.7S-B9	F1062F-5.7S-B9
273	6.4	4160	21.20	1072-5.7S	1072F-5.7S	10	1942	III	F1072-5.7S-B11	F1072F-5.7S-B11
		588	2.52	1032-6.4S	1032F-6.4S	2 1.5	462 346	I II	F1032-6.4S-B7	F1032F-6.4S-B7
						1	230	III	F1032-6.4S-B5	F1032F-6.4S-B5
		1095	5.34	1042-6.4S	1042F-6.4S	5 3	1014 608	I II	F1042-6.4S-B9	F1042F-6.4S-B9
						2	406	III	F1042-6.4S-B7	F1042F-6.4S-B7
		2248	10.20	1062-6.4S	1062F-6.4S	10 7.5	2182 1636	I II	F1062-6.4S-B11	F1062F-6.4S-B11
246	7.2					5	1091	III	F1062-6.4S-B9	F1062F-6.4S-B9
		4623	20.90	1072-6.4S	1072F-6.4S	10	2189	III	F1072-6.4S-B11	F1072F-6.4S-B11
		576	2.34	1032-7.2S	1032F-7.2S	2 1.5	488 366	I II	F1032-7.2S-B7	F1032F-7.2S-B7
						1	244	III	F1032-7.2S-B5	F1032F-7.2S-B5
		1171	4.88	1042-7.2S	1042F-7.2S	5 3	1171 713	I II	F1042-7.2S-B9	F1042F-7.2S-B9
						2	475	III	F1042-7.2S-B7	F1042F-7.2S-B7
1000 Series In-Line Helical	1000 Series Helical-Worm	2380	9.49	1062-7.2S	1062F-7.2S	7.5 5	1855 1237	I III	F1062-7.2S-B11	F1062F-7.2S-B11
						5	1237	III	F1062-7.2S-B9	F1062F-7.2S-B9
		4859	19.30	1072-7.2S	1072F-7.2S	10	2492	III	F1072-7.2S-B11	F1072F-7.2S-B11

* Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
 For Overhung Load Ratings refer to Page 126.

 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

 1000 Series
In-Line Helical

 1000 Series
Helical-Worm

Engineering

In-Line Helical Selection Tables

1750 RPM Input

ORDER BY STYLE NUMBER OR CATALOG NUMBER
FOR STANDARD MOUNTING POSITIONS

Approx. Output RPM	Ratio	Non-Flanged (Projecting Input Shaft)				Flanged (Quill Type NEMA C-Face Input)				
		Gear Capacity		Non-Flange O/P	Output Flange	Ratings			Non-Flange O/P	Output Flange
		Output Torque In.-Lbs.	Input HP	Style No. (Catalog No.)	Style No. (Catalog No.)	Motor HP	Output Torque In.-Lbs.	S.C. *	Style No. (Catalog No.)	Style No. (Catalog No.)
218	8	560	2.01	1032-8S	1032F-8S	2	560	I	F1032-8S-B7	F1032F-8S-B7
						1.5	415	II		
		1206	4.54	1042-8S	1042F-8S	1	276	III	F1032-8S-B5	F1032F-8S-B5
						3	797	I		
		2480	8.82	1062-8S	1062F-8S	2	526	III	F1042-8S-B9	F1042F-8S-B9
						7.5	2087	I		
		5074	18.00	1072-8S	1072F-8S	5	1391	II	F1062-8S-B11	F1062F-8S-B11
						3	835	III		
						10	2790	II	F1072-8S-B11	F1072F-8S-B11
						7.5	2092	III		
194	9	636	1.86	1032-9S	1032F-9S	1.5	508	I	F1032-9S-B7 (GIF0932B)	F1032F-9S-B7
						1	338	II		
		1275	4.14	1042-9S	1042F-9S	.75	253	III	F1032-9S-B5 (GIF0932A)	F1032F-9S-B5
						3	924	I		
		2608	8.18	1062-9S	1062F-9S	2	616	III	F1042-9S-B9 (GIF0942C)	F1042F-9S-B9
						7.5	2366	I		
		5358	16.70	1072-9S	1072F-9S	5	1577	II	F1062-9S-B11 (GIF0962D)	F1062F-9S-B11
						3	946	III		
						10	3175	II	F1072-9S-B11 (GIF0972D)	F1072F-9S-B11
						7.5	2381	III		
175	10	576	1.63	1032-10S	1032F-10S	1.5	524	I	F1032-10S-B7	F1032F-10S-B7
						1	349	II		
		1295	3.82	1042-10S	1042F-10S	.75	262	III	F1032-10S-B5	F1032F-10S-B5
						3	1006	I		
		2600	7.56	1062-10S	1062F-10S	2	670	II	F1042-10S-B9	F1042F-10S-B9
						1.5	503	III		
		5360	15.70	1072-10S	1072F-10S	7.5	2548	I	F1062-10S-B11	F1062F-10S-B11
						5	1700	II		
						3	1019	III	F1072-10S-B11	F1072F-10S-B11
						7.5	2458	III		

* Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
For Overhung Load Ratings refer to Page 126.

In-Line Helical Selection Tables

1750 RPM Input

ORDER BY STYLE NUMBER OR CATALOG NUMBER
FOR STANDARD MOUNTING POSITIONS

Approx. Output RPM	Ratio	Non-Flanged (Projecting Input Shaft)				Flanged (Quill Type NEMA C-Face Input)				
		Gear Capacity		Non-Flange O/P	Output Flange	Ratings			Non-Flange O/P	Output Flange
		Output Torque In.-Lbs.	Input HP	Style No. (Catalog No.)	Style No. (Catalog No.)	Motor HP	Output Torque In.-Lbs.	S.C. *	Style No. (Catalog No.)	Style No. (Catalog No.)
159	11	576	1.43	1032-11S	1032F-11S	1 .75 .50	400 300 200	I II III	F1032-11S-B5	F1032F-11S-B5
		1330	3.45	1042-11S	1042F-11S	3 2 1.5	1144 827 572	I II III	F1042-11S-B9 F1042-11S-B7	F1042F-11S-B9 F1042F-11S-B7
		2680	6.70	1062-11S	1062F-11S	5 3	1975 1186	I III	F1062-11S-B9	F1062F-11S-B9
		5291	13.70	1072-11S	1072F-11S	10 7.5	3822 2866	I II	F1072-11S-B11	F1072F-11S-B11
145	12	550	1.30	1032-12S	1032F-12S	1 .75 .50	418 314 210	I II III	F1032-12S-B5	F1032F-12S-B5
		1419	3.23	1042-12S	1042F-12S	3 2 1.5	1304 870 652	I II III	F1042-12S-B9 F1042-12S-B7	F1042F-12S-B9 F1042F-12S-B7
		2840	6.49	1062-12S	1062F-12S	5 3	2167 1300	I III	F1062-12S-B9	F1062F-12S-B9
		5439	12.50	1072-12S	1072F-12S	10 7.5	4177 3132	I II	F1072-12S-B11	F1072F-12S-B11
125	14	550	1.14	1032-14S	1032F-14S	1 .75 .50	478 358 239	I II III	F1032-14S-B5 (GIF1432A)	F1032F-14S-B5
		1443	2.89	1042-14S	1042F-14S	2 1.5	988 741	II III	F1042-14S-B7 (GIF1442B)	F1042F-14S-B7
		2910	5.72	1062-14S	1062F-14S	5 3	2519 1512	I III	F1062-14S-B9 (GIF1462C)	F1062F-14S-B9
		5364	10.90	1072-14S	1072F-14S	10 7.5 5	4870 3653 2435	I II III	F1072-14S-B11 (GIF1472D) F1072-14S-B9 (GIF1472C)	F1072F-14S-B11 F1072F-14S-B9

* Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
For Overhung Load Ratings refer to Page 126.

900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

In-Line Helical Selection Tables

1750 RPM Input

ORDER BY STYLE NUMBER OR CATALOG NUMBER
 FOR STANDARD MOUNTING POSITIONS

Approx. Output RPM	Ratio	Non-Flanged (Projecting Input Shaft)				Flanged (Quill Type NEMA C-Face Input)				
		Gear Capacity		Non-Flange O/P	Output Flange	Ratings			Non-Flange O/P	Output Flange
		Output Torque In.-Lbs.	Input HP	Style No. (Catalog No.)	Style No. (Catalog No.)	Motor HP	Output Torque In.-Lbs.	S.C. *	Style No. (Catalog No.)	Style No. (Catalog No.)
109	16	576	1.06	1032-16S	1032F-16S	1 .75 .50	539 404 270	I II III	F1032-16S-B5	F1032F-16S-B5
		1380	2.49	1042-16S	1042F-16S	2 1.5	1097 823	II II	F1042-16S-B7	F1042F-16S-B7
						1	548	III	F1042-16S-B5	F1042F-16S-B5
		2900	5.12	1062-16S	1062F-16S	5 3 2	2792 1675 1117	I II III	F1062-16S-B9	F1062F-16S-B9
		5245	9.60	1072-16S	1072F-16S	7.5 5 3	4055 2703 1639	I II III	F1072-16S-B11	F1072F-16S-B11
97	18	590	0.91	1032-18S	1032F-18S	.75 .50 .33	483 322 210	I II III	F1032-18S-B5 (GIF1832A)	F1032F-18S-B5
		1420	2.35	1042-18S	1042F-18S	2 1.5	1192 894	I II	F1042-18S-B7 (GIF1842B)	F1042F-18S-B7
						1	596	III	F1042-18S-B5 (GIF1842A)	F1042F-18S-B5
		2940	4.88	1062-18S	1062F-18S	3	1788	II	F1062-18S-B9 (GIF1862C)	F1062F-18S-B9
						2	1192	III	F1062-18S-B7 (GIF1862B)	F1062F-18S-B7
		5320	8.50	1072-18S	1072F-18S	7.5	4645	I	F1072-18S-B11 (GIF1872D)	F1072F-18S-B11
						5 3	3096 1858	II III	F1072-18S-B9 (GIF1872C)	F1072F-18S-B9
87 (Cont.)	20	590	0.85	1032-20S	1032F-20S	.75 .50 .33	526 350 232	I II III	F1032-20S-B5	F1032F-20S-B5
		1442	2.01	1042-20S	1042BF-20S	2 1.5	1420 1065	I II	F1042-20S-B7	F1042F-20S-B7
						.75	533	III	F1042-20S-B5	F1042F-20S-B5

* Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
 For Overhung Load Ratings refer to Page 126.

In-Line Helical Selection Tables

1750 RPM Input

ORDER BY STYLE NUMBER OR CATALOG NUMBER
 FOR STANDARD MOUNTING POSITIONS

Approx. Output RPM	Ratio	Non-Flanged (Projecting Input Shaft)				Flanged (Quill Type NEMA C-Face Input)				
		Gear Capacity		Non-Flange O/P	Output Flange	Ratings			Non-Flange O/P	Output Flange
		Output Torque In.-Lbs.	Input HP	Style No. (Catalog No.)	Style No. (Catalog No.)	Motor HP	Output Torque In.-Lbs.	S.C. *	Style No. (Catalog No.)	Style No. (Catalog No.)
87 (Cont.)	20	3014	4.19	1062-20S	1062F-20S	3	2137	I	F1062-20S-B9	F1062F-20S-B9
						2	1425	III	F1062-20S-B7	F1062F-20S-B7
		5319	7.64	1072-20S	1072F-20S	7.5	5319	I	F1072-20S-B11	F1072F-20S-B11
						5 3	3444 2066	II III	F1072-20S-B9	F1072F-20S-B9
79	22	574	0.72	1032-22S	1032F-22S	.75 .50 .33	574 395 260	I II III	F1032-22S-B5	F1032F-22S-B5
		1443	1.85	1042-22S	1042F-22S	1.5 1 .75	1158 772 579	I II III	F1042-22S-B7 F1042-22S-B5	F1042F-22S-B7 F1042F-22S-B5
		3030	3.95	1062-22S	1062F-22S	3 2	2281 1520	I III	F1062-22S-B9 F1062-22S-B7	F1062F-22S-B9 F1062F-22S-B7
		5398	6.77	1072-22S	1072F-22S	5 3	3946 2367	I III	F1072-22S-B9	F1072F-22S-B9
		580	0.65	1032-25S	1032F-25S	.50 .33	442 294	I III	F1032-25S-B5 (GIF2532A)	F1032F-25S-B5
		1312	1.64	1042-25S	1042F-25S	1.5 1 .75	1187 791 593	I II III	F1042-25S-B7 F1042-25S-B5 (GIF2542A)	F1042F-25S-B7 F1042F-25S-B5
		3070	3.49	1062-25S	1062F-25S	3 2 1.5	2618 1745 1309	I II III	F1062-25S-B9 F1062-25S-B7 (GIF2562B)	F1062F-25S-B9 F1062F-25S-B7
		5279	6.17	1072-25S	1072F-25S	5 3	4236 2540	I III	F1072-25S-B9 (GIF2572C)	F1072F-25S-B9
62 (Cont.)	28	580	0.59	1032-28S	1032F-28S	.50 .33 .25	491 327 245	I II III	F1032-28S-B5	F1032F-28S-B5

* Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
 For Overhung Load Ratings refer to Page 126.

 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

 1000 Series
In-Line Helical

 1000 Series
Helical-Worm

Engineering

In-Line Helical Selection Tables

1750 RPM Input

ORDER BY STYLE NUMBER OR CATALOG NUMBER
 FOR STANDARD MOUNTING POSITIONS

Approx. Output RPM	Ratio	Non-Flanged (Projecting Input Shaft)				Flanged (Quill Type NEMA C-Face Input)				
		Gear Capacity Output Torque In.-Lbs.	Input HP	Non-Flange O/P Style No. (Catalog No.)	Output Flange Style No. (Catalog No.)	Motor HP	Ratings Output Torque In.-Lbs.	S.C. *	Non-Flange O/P Style No. (Catalog No.)	Output Flange Style No. (Catalog No.)
62 (Cont.)	28	1467	1.46	1042-28S	1042F-28S	1.5	1467	I	F1042-28S-B7	F1042F-28S-B7
						1	994	II	F1042-28S-B5	F1042F-28S-B5
						.75	746	III		
		3070	3.19	1062-28S	1062F-28S	3	2867	I	F1062-28S-B9	F1062F-28S-B9
						2	1910	II	F1062-28S-B7	F1062F-28S-B7
						1.5	1433	III		
		5287	5.64	1072-28S	1072F-28S	5	4639	I	F1072-28S-B9	F1072F-28S-B9
						3	2783	II	F1072-28S-B7	F1072F-28S-B7
						2	1855	III		
54	32	555	0.52	1032-32S	1032F-32S	.50	528	I	F1032-32S-B5	F1032F-32S-B5
						.33	237	II		
						.25	264	III		
		1338	1.29	1042-32S	1042F-32S	1	1026	I	F1042-32S-B5	F1042F-32S-B5
						.75	770	II		
						.50	513	III		
		3120	2.79	1062-32S	1062F-32S	2	2225	II	F1062-32S-B7	F1062F-32S-B7
						1.5	1669	II		
						1	1159	III	F1062-32S-B5	F1062F-32S-B5
48 (Cont.)	36	5342	4.90	1072-32S	1072F-32S	5	5342	I	F1072-32S-B9	F1072F-32S-B9
						3	3236	II	F1072-32S-B7	F1072F-32S-B7
						2	2158	III		
		557	0.47	1032-36S	1032F-36S	.50	557	I	F1032-36S-B5	F1032F-36S-B5
						.33	391	I		
						.25	294	II		
		562	0.47	1033-36S	1033F-36S	.50	562	I	F1033-36S-B5	F1033F-36S-B5
						.33	400	I		
						.25	299	II		
48 (Cont.)	36	1457	1.15	1042-36S	1042F-36S	.16	200	III		
						1	1254	I	F1042-36S-B5	F1042F-36S-B5
						.75	940	II		
						.50	627	III		

* Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)

For Overhung Load Ratings refer to Page 126.

■ Indicates Triple Reduction

In-Line Helical Selection Tables

1750 RPM Input

ORDER BY STYLE NUMBER OR CATALOG NUMBER
FOR STANDARD MOUNTING POSITIONS

Approx. Output RPM	Ratio	Non-Flanged (Projecting Input Shaft)				Flanged (Quill Type NEMA C-Face Input)				
		Gear Capacity		Non-Flange O/P	Output Flange	Ratings			Non-Flange O/P	Output Flange
		Output Torque In.-Lbs.	Input HP	Style No. (Catalog No.)	Style No. (Catalog No.)	Motor HP	Output Torque In.-Lbs.	S.C. *	Style No. (Catalog No.)	Style No. (Catalog No.)
48 (Cont.)	36	1390	1.17	1043-36S	1043F-36S	1 .75 .50	1190 893 595	I II III	F1043-36S-B5	F1043F-36S-B5
		3120	2.55	1062-36S	1062F-36S	2 1.5	2436 1827	I II	F1062-36S-B7	F1062F-36S-B7
						1 1.5	1218 1779	III II	F1062-36S-B5	F1062F-36S-B5
		2978	2.51	1063-36S	1063F-36S	2 1.5	2372 1779	I II	F1063-36S-B7	F1063F-36S-B7
						1	1186	III	F1063-36S-B5	F1063F-36S-B5
		5296	4.48	1072-36S	1072F-36S	5 3	5296 3546	I II	F1072-36S-B9	F1072F-36S-B9
						2	2364	III	F1072-36S-B7	F1072F-36S-B7
		5225	4.42	1073-36S	1073F-36S	5 3	5225 3546	I II	F1073-36S-B9	F1073F-36S-B9
						2	2364	III	F1073-36S-B7	F1073F-36S-B7
43 (Cont.)	40	466	0.36	1032-40S	1032F-40S	.33 .25 .16	431 323 216	I I III	F1032-40S-B5	F1032F-40S-B5
		560	0.41	1033-40S	1033F-40S	.33 .25 .16	456 342 228	I II III	F1033-40S-B5	F1033F-40S-B5
		1375	1.00	1042-40S	1042F-40S	1 .75 .50	1254 940 627	I II III	F1042-40S-B5 (GIF4042A)	F1042F-40S-B5
		1390	1.02	1043-40S	1043F-40S	1 .75 .50	1360 1020 680	I I III	F1043-40S-B5	F1043F-40S-B5
		2992	2.18	1062-40S	1062F-40S	2 1.5	2678 2008	I II	F1062-40S-B7 (GIF4062B)	F1062F-40S-B7
						1	1339	III	F1062-40S-B5 (GIF4062A)	F1062F-40S-B5
		2978	2.21	1063-40S	1063F-40S	2 1.5	2695 2022	I II	F1063-40S-B7	F1063F-40S-B7
						1	1348	III	F1063-40S-B5	F1063F-40S-B5

* Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)

For Overhung Load Ratings refer to Page 126.

■ Indicates Triple Reduction

900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

In-Line Helical Selection Tables

1750 RPM Input

ORDER BY STYLE NUMBER OR CATALOG NUMBER
FOR STANDARD MOUNTING POSITIONS

Approx. Output RPM	Ratio	Non-Flanged (Projecting Input Shaft)				Flanged (Quill Type NEMA C-Face Input)				
		Gear Capacity		Non-Flange O/P	Output Flange	Ratings			Non-Flange O/P	Output Flange
		Output Torque In.-Lbs.	Input HP	Style No. (Catalog No.)	Style No. (Catalog No.)	Motor HP	Output Torque In.-Lbs.	S.C. *	Style No. (Catalog No.)	Style No. (Catalog No.)
43 (Cont.)	40	5050	3.83	1072-40S	1072F-40S	3 2	3955 2636	I III	F1072-40S-B7	F1072F-40S-B7
		5225	3.80	1073-40S	1073F-40S	3 2	4125 2750	I II	F1073-40S-B7	F1073F-40S-B7
38	45	480	0.33	1032-45S	1032F-45S	.33 .25 .16	480 359 239	I I III	F1032-45S-B5	F1032F-45S-B5
		544	0.38	1033-45S	1033F-45S	.33 .25 .16	478 358 239	I I III	F1033-45S-B5	F1033F-45S-B5
		1410	0.90	1042-45S	1042F-45S	.75 .50 .33	1180 788 525	I II III	F1042-45S-B5	F1042F-45S-B5
		1420	0.92	1043-45S	1043F-45S	.75 .50 .33	1158 772 515	I II III	F1043-45S-B5	F1043F-45S-B5
		2950	2.01	1062-45S	1062F-45S	2 1.5 1	2932 2199 1466	I I III	F1062-45S-B7	F1062F-45S-B7
		3040	2.01	1063-45S	1063F-45S	2 1.5 1	3025 2269 1512	I I III	F1063-45S-B7	F1063F-45S-B7
		5167	3.54	1072-45S	1072F-45S	3 2 1.5	4334 3010 2167	I II III	F1072-45S-B9	F1072F-45S-B7
		5300	3.52	1073-45S	1073F-45S	3 2 1.5	4526 3013 2404	I II III	F1073-45S-B9	F1073F-45S-B7
		555	0.34	1032-50S	1032F-50S	.33 .25 .16	540 405 270	I I III	F1032-50S-B5	F1032F-50S-B5
35 (Cont.)	50									

* Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)

Actual Output RPM = Input Speed ÷ Actual Ratio.

■ Indicates Triple Reduction

In-Line Helical Selection Tables

1750 RPM Input

ORDER BY STYLE NUMBER OR CATALOG NUMBER
FOR STANDARD MOUNTING POSITIONS

Approx. Output RPM	Ratio	Non-Flanged (Projecting Input Shaft)				Flanged (Quill Type NEMA C-Face Input)				
		Gear Capacity		Non-Flange O/P	Output Flange	Ratings			Non-Flange O/P	Output Flange
		Output Torque In.-Lbs.	Input HP	Style No. (Catalog No.)	Style No. (Catalog No.)	Motor HP	Output Torque In.-Lbs.	S.C. *	Style No. (Catalog No.)	Style No. (Catalog No.)
35 (Cont.)	50	540	0.33	1033-50S	1033F-50S	.33 .25 .16	540 409 273	I I III	F1033-50S-B5	F1033F-50S-B5
		1500	0.87	1042-50S	1042F-50S	.75 .50 .33	1280 854 592	I II III	F1042-50S-B5	F1042F-50S-B5
		1429	0.81	1043-50S	1043F-50S	.75 .50 .33	1323 882 588	I II III	F1043-50S-B5	F1043F-50S-B5
		3150	1.86	1062-50S	1062F-50S	1.5 1 .75	2514 1676 1257	I II III	F1062-50S-B7 F1062-50S-B5	F1062F-50S-B7 F1062F-50S-B5
		3040	1.77	1063-50S	1063F-50S	1.5 1 .75	2578 1718 1289	I II III	F1063-50S-B7 F1063-50S-B5	F1063F-50S-B7 F1063F-50S-B5
		5216	3.16	1072-50S	1072F-50S	3 2 1.5	4900 3268 2552	I II III	F1072-50S-B9 F1072-50S-B7	F1072F-50S-B9 F1072F-50S-B7
		5290	3.02	1073-50S	1073F-50S	3 2 1.5	5256 3504 2628	I II II	F1073-50S-B9 F1073-50S-B7	F1073F-50S-B9 F1073F-50S-B7
		540	0.29	1032-56S	1032F-56S	.25 .16	460 308	I II	F1032-56S-B5	F1032F-56S-B5
		554	0.30	1033-56S	1033F-56S	.25 .16	462 308	I II	F1033-56S-B5	F1033F-56S-B5
		1392	0.71	1042-56S	1042F-56S	.5 .33	970 647	I III	F1042-56S-B5 (GIF5642A)	F1042F-56S-B5
		1396	0.76	1043-56S	1043F-56S	.75 .50 .33	1378 918 612	I II III	F1043-56S-B5	F1043F-56S-B5
		2460	1.28	1062-56S	1062F-56S	1 .75 .50	2018 1513 1000	I II III	F1062-56S-B5 (GIF5662A)	F1062F-56S-B5
31 (Cont.)	56	540	0.29	1032-56S	1032F-56S	.25 .16	460 308	I II	F1032-56S-B5	F1032F-56S-B5
		554	0.30	1033-56S	1033F-56S	.25 .16	462 308	I II	F1033-56S-B5	F1033F-56S-B5
		1392	0.71	1042-56S	1042F-56S	.5 .33	970 647	I III	F1042-56S-B5 (GIF5642A)	F1042F-56S-B5
		1396	0.76	1043-56S	1043F-56S	.75 .50 .33	1378 918 612	I II III	F1043-56S-B5	F1043F-56S-B5
		2460	1.28	1062-56S	1062F-56S	1 .75 .50	2018 1513 1000	I II III	F1062-56S-B5 (GIF5662A)	F1062F-56S-B5

* Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
For Overhung Load Ratings refer to Page 126.
■ Indicates Triple Reduction

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Single Reduction

 900 Series
Double Reduction

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 Universal Series
Single Reduction

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Ratio Multiplier

 1000 Series
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In-Line Helical Selection Tables

1750 RPM Input

ORDER BY STYLE NUMBER OR CATALOG NUMBER
FOR STANDARD MOUNTING POSITIONS

Approx. Output RPM	Ratio	Non-Flanged (Projecting Input Shaft)				Flanged (Quill Type NEMA C-Face Input)				
		Gear Capacity		Non-Flange O/P	Output Flange	Ratings			Non-Flange O/P	Output Flange
		Output Torque In.-Lbs.	Input HP	Style No. (Catalog No.)	Style No. (Catalog No.)	Motor HP	Output Torque In.-Lbs.	S.C. *	Style No. (Catalog No.)	Style No. (Catalog No.)
31 (Cont.)	56	2887	1.54	1063-56S	1063F-56S	1.5	2887	I	F1063-56S-B7	F1063F-56S-B7
						1	1939	II	F1063-56S-B5	F1063F-56S-B5
						.75	1459	III		
		4629	2.50	1072-56S	1072F-56S	2	3665	I	F1072-56S-B7	F1072F-56S-B7
						1.5	2749	II		
						1	1832	III	F1072-56S-B5	F1072F-56S-B5
27	63	5227	2.69	1073-56S	1073F-56S	2	3886	I	F1073-56S-B7	F1073F-56S-B7
						1.5	2915	II		
						1	1941	III	F1073-56S-B5	F1073F-56S-B5
		500	0.25	1032-63S	1032F-63S	.25	500	I	F1032-63S-B5	F1032F-63S-B5
						.16	330	II		
		522	0.25	1033-63S	1033F-63S	.25	502	I	F1033-63S-B5	F1033F-63S-B5
						.16	335	II		
		1475	0.70	1042-63S	1042F-63S	.50	1000	I	F1042-63S-B5	F1042F-63S-B5
						.33	666	III		
		1300	0.65	1043-63S	1043F-63S	.50	1044	I	F1043-63S-B5	F1043F-63S-B5
						.33	696	III		
		3098	1.52	1062-63S	1062F-63S	1.5	3027	I	F1062-63S-B7	F1062F-63S-B7
						1	2018	II	F1062-63S-B5	F1062F-63S-B5
						.75	1576	III		
		2973	1.41	1063-63S	1063F-63S	1.5	2973	I	F1063-63S-B7	F1063F-63S-B7
						1	2109	I	F1063-63S-B5	F1063F-63S-B5
						.75	1582	II		
						.50	1054	III		
		5300	2.64	1072-63S	1072F-63S	2	3993	I	F1072-63S-B7	F1072F-63S-B7
						1.5	2995	II		
						1	2080	III	F1072-63S-B5	F1072F-63S-B5
		5226	2.52	1073-63S	1073F-63S	2	4149	I	F1073-63S-B7	F1073F-63S-B7
						1.5	3112	II		
						1	2075	III	F1073-63S-B5	F1073F-63S-B5

* Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)

For Overhung Load Ratings refer to Page 126.

Indicates Triple Reduction

In-Line Helical Selection Tables

1750 RPM Input

ORDER BY STYLE NUMBER OR CATALOG NUMBER
 FOR STANDARD MOUNTING POSITIONS

Approx. Output RPM	Ratio	Non-Flanged (Projecting Input Shaft)				Flanged (Quill Type NEMA C-Face Input)				
		Gear Capacity		Non-Flange O/P	Output Flange	Ratings			Non-Flange O/P	Output Flange
		Output Torque In.-Lbs.	Input HP	Style No. (Catalog No.)	Style No. (Catalog No.)	Motor HP	Output Torque In.-Lbs.	S.C. *	Style No. (Catalog No.)	Style No. (Catalog No.)
24	71	500	0.22	1032-71S	1032F-71S	.25 .16	500 375	I I	F1032-71S-B5	F1032F-71S-B5
		577	0.24	1033-71S	1033F-71S	.25 .16	577 400	I I	F1033-71S-B5	F1033F-71S-B5
		1485	0.62	1042-71S	1042F-71S	.50 .33 .25	1186 709 592	I II III	F1042-71S-B5	F1042F-71S-B5
		1427	0.60	1043-71S	1043F-71S	.50 .33 .25	1189 793 594	I II III	F1043-71S-B5	F1043F-71S-B5
		2966	1.28	1062-71S	1062F-71S	1 .75 .50	2303 1720 1457	I II III	F1062-71S-B5	F1062F-71S-B5
		3040	1.23	1063-71S	1063F-71S	1 .75 .50	2473 1855 1236	I II III	F1063-71S-B5	F1063F-71S-B5
		5385	2.38	1072-71S	1072F-71S	2 1.5	4479 3359	I II	F1072-71S-B7	F1072F-71S-B7
						1	2239	III	F1072-71S-B5	F1072F-71S-B5
		5298	2.14	1073-71S	1073F-71S	2 1.5	4952 3714	I II	F1073-71S-B7	F1073F-71S-B7
						1	2476	III	F1073-71S-B5	F1073F-71S-B5
21	80	565	0.21	1033-80S	1033F-80S	.25 .16	565 448	I I	F1033-80S-B5	F1033F-80S-B5
		1320	0.51	1043-80S	1043F-80S	.50 .33 .25	1294 862 647	I II III	F1043-80S-B5	F1043F-80S-B5
		3038	1.13	1063-80S	1063F-80S	1 .75 .50	2689 2016 1344	I II III	F1063-80S-B5	F1063F-80S-B5
		5315	2.01	1073-80S	1073F-80S	2	5288	I	F1073-80S-B7	F1073F-80S-B7
						1.5	3966	I		
						1	2644	III	F1073-80S-B5	F1073F-80S-B5

* Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
 For Overhung Load Ratings refer to Page 126.
 Indicates Triple Reduction

 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

 1000 Series
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 1000 Series
Helical-Worm

Engineering

In-Line Helical Selection Tables

1750 RPM Input

ORDER BY STYLE NUMBER OR CATALOG NUMBER
FOR STANDARD MOUNTING POSITIONS

Approx. Output RPM	Ratio	Non-Flanged (Projecting Input Shaft)				Flanged (Quill Type NEMA C-Face Input)				
		Gear Capacity		Non-Flange O/P	Output Flange	Ratings			Non-Flange O/P	Output Flange
		Output Torque In.-Lbs.	Input HP	Style No. (Catalog No.)	Style No. (Catalog No.)	Motor HP	Output Torque In.-Lbs.	S.C. *	Style No. (Catalog No.)	Style No. (Catalog No.)
19	90	575	0.19	1033-90S	1033F-90S	.16	504	I	F1033-90S-B5	F1033F-90S-B5
		1395	0.47	1043-90S	1043F-90S	.50	1398	I	F1043-90S-B5	F1043F-90S-B5
						.33	989	I		
						.25	741	II		
						.16	494	III		
		2745	0.98	1063-90S	1063F-90S	.75	2100	I	F1063-90S-B5	F1063F-90S-B5
						.50	1400	III		
		5252	1.73	1073-90S	1073F-90S	1.5	4554	I	F1073-90S-B7	F1073F-90S-B7
						1	3035	II	F1073-90S-B5	F1073F-90S-B5
						.75	2277	III		
17	100	570	0.17	1033-100S	1033F-100S	.16	560	I	F1033-100S-B5	F1033F-100S-B5
		1400	0.42	1043-100S	1043F-100S	.33	1115	I	F1043-100S-B5	F1043F-100S-B5
						.25	836	II		
						.16	557	III		
		3095	0.88	1063-100S	1063F-100S	.75	2638	I	F1063-100S-B5	F1063F-100S-B5
						.50	1759	II		
						.33	1172	III		
		5252	1.58	1073-100S	1073F-100S	1.5	4986	I	F1073-100S-B7	F1073F-100S-B7
						1	3324	II	F1073-100S-B5	F1073F-100S-B5
						.75	2498	III		
15	112	543	0.15	1033-112S	1033F-112S	.16	543	I	F1033-112S-B5	F1033F-112S-B5
		1340	0.37	1043-112S	1043F-112S	.33	1282	I	F1043-112S-B5	F1043F-112S-B5
						.25	962	II		
						.16	641	III		
		2820	0.79	1063-112S	1063F-112S	.75	2678	I	F1063-112S-B5	F1063F-112S-B5
						.50	1786	II		
						.33	1190	III		
		5300	1.37	1073-112S	1073F-112S	1	3868	I	F1073-112S-B5	F1073F-112S-B5
						.75	2900	II		
						.50	1934	III		

* Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)

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Indicates Triple Reduction

In-Line Helical Selection Tables

1750 RPM Input

ORDER BY STYLE NUMBER OR CATALOG NUMBER
FOR STANDARD MOUNTING POSITIONS

Approx. Output RPM	Ratio	Non-Flanged (Projecting Input Shaft)				Flanged (Quill Type NEMA C-Face Input)				
		Gear Capacity		Non-Flange O/P	Output Flange	Ratings			Non-Flange O/P	Output Flange
		Output Torque In.-Lbs.	Input HP	Style No. (Catalog No.)	Style No. (Catalog No.)	Motor HP	Output Torque In.-Lbs.	S.C. *	Style No. (Catalog No.)	Style No. (Catalog No.)
14	125	523	0.13	1033-125S	1033F-125S	.16	523	I	F1033-125S-B5	F1033F-125S-B5
		1430	0.33	1043-125S	1043F-125S	.33	1430	I	F1043-125S-B5	F1043F-125S-B5
						.25	1083	I		
						.16	722	III		
		3000	0.70	1063-125S	1063F-125S	.50	2150	I	F1063-125S-B5	F1063F-125S-B5
						.33	1433	III		
		5337	1.26	1073-125S	1073F-125S	1	4236	I	F1073-125S-B5	F1073F-125S-B5
						.75	3177	II		
						.50	2118	III		
12	140	487	0.11	1033-140S	1033F-140S	.16	487	I	F1033-140S-B5	F1033F-140S-B5
		1360	0.29	1043-140S	1043F-140S	.25	1175	I	F1043-140S-B5	F1043F-140S-B5
						.16	783	II		
		2916	0.65	1063-140S	1063F-140S	.50	2443	I	F1063-140S-B5	F1063F-140S-B5
						.33	1495	III		
		5247	1.11	1073-140S	1073F-140S	1	4727	I	F1073-140S-B5	F1073F-140S-B5
						.75	3545	II		
						.50	2363	III		
10	160	490	0.10	1033-160S	1033F-160S	—	—	—	—	—
		1410	0.27	1043-160S	1043F-160S	.25	1325	I	F1043-160S-B5	F1043F-160S-B5
						.16	883	II		
		3130	0.58	1063-160S	1063F-160S	.50	2700	I	F1063-160S-B5	F1063F-160S-B5
						.33	1800	II		
						.25	1350	III		
		5280	1.02	1073-160S	1073F-160S	1	5176	I	F1073-160S-B5	F1073F-160S-B5
						.75	3882	I		
9.7 (Cont.)	180					.50	2588	III		
		555	0.10	1033-180S	1033F-180S	—	—	—	—	—
		1436	0.24	1043-180S	1043F-180S	.25	1436	I	F1043-180S-B5	F1043F-180S-B5
						.16	997	I		
		3146	0.53	1063-180S	1063F-180S	.50	2975	I	F1063-180S-B5	F1063F-180S-B5
						.33	1980	II		

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ORDER BY STYLE NUMBER OR CATALOG NUMBER
 FOR STANDARD MOUNTING POSITIONS

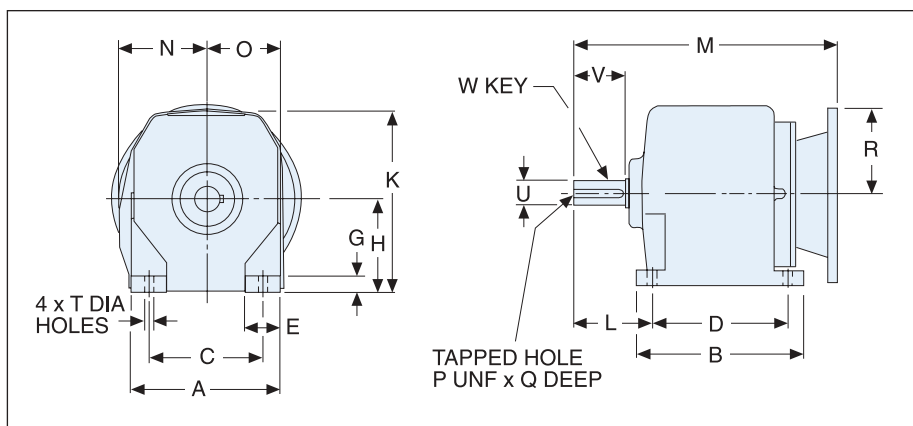
Approx. Output RPM	Ratio	Non-Flanged (Projecting Input Shaft)				Flanged (Quill Type NEMA C-Face Input)				
		Gear Capacity		Non-Flange O/P	Output Flange	Ratings			Non-Flange O/P	Output Flange
		Output Torque In.-Lbs.	Input HP	Style No. (Catalog No.)	Style No. (Catalog No.)	Motor HP	Output Torque In.-Lbs.	S.C. *	Style No. (Catalog No.)	Style No. (Catalog No.)
9.7 (Cont.)	180	5362	0.92	1073-180S	1073F-180S	.75 .50 .33	4371 2914 1942	I II III	F1073-180S-B5	F1073F-180S-B5
		568	0.09	1033-200S	1033F-200S	—	—	—	—	—
		1428	0.21	1043-200S	1043F-200S	.25 .16	1428 1133	I I	F1043-200S-B5	F1043F-200S-B5
8.8	200	3173	0.47	1063-200S	1063F-200S	.33 .25 .16	2250 1688 1125	I II III	F1063-200S-B5	F1063F-200S-B5
		5432	0.82	1073-200S	1073F-200S	.75 .50 .33	4968 3216 2208	I II III	F1073-200S-B5	F1073F-200S-B5
		544	0.08	1033-225S	1033F-225S	—	—	—	—	—
		1410	0.19	1043-225S	1043F-225S	.16	1219	I	F1043-225S-B5	F1043F-225S-B5
7.8	225	3146	0.44	1063-225S	1063F-225S	.33 .25 .16	2383 1788 1192	I II III	F1063-225S-B5	F1063F-225S-B5
		5341	0.75	1073-225S	1073F-225S	.75 .50 .33	5341 3561 2375	I II III	F1073-225S-B5	F1073F-225S-B5
		540	0.07	1033-250S	1033F-250S	—	—	—	—	—
		1410	0.17	1043-250S	1043F-250S	.16	1385	I	F1043-250S-B5	F1043F-250S-B5
7.0	250	3110	0.39	1063-250S	1063F-250S	.33 .25 .16	2709 2032 1355	I II III	F1063-250S-B5	F1063F-250S-B5
		5423	0.67	1073-250S	1073F-250S	.50 .33	4047 2698	I III	F1073-250S-B5	F1073F-250S-B5

* Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
 For Overhung Load Ratings refer to Page 126.

Indicates Triple Reduction

Foot Mount

F1000 Series Dimensions Double Reduction Quill Type NEMA C-Face Input



Size	A	B	C	D	E	G	H	K	L	N	O	P	Q	T
F1032	5.44	4.33	4.33	3.35	1.05	0.48	2.95	5.79	2.28	3.16	2.84	0.25	0.63	0.39
F1042	5.71	6.30	4.33	5.12	1.48	0.67	3.54	6.99	2.95	3.31	2.95	0.25	0.63	0.39
F1062	7.48	7.87	5.31	6.50	2.19	0.81	4.53	9.06	3.54	4.13	3.87	0.38	0.87	0.59
F1072	9.06	9.65	6.69	8.07	2.64	1.03	5.51	10.83	4.53	5.12	4.69	0.63	1.38	0.75

Size	Low Speed Shaft				M				R			
	U +.000 -.001	V	W-Key		NEMA Mounting				NEMA Mounting			
			Sq.	Lgth.	56C	140TC	180TC	210TC	56C	140TC	180TC	210TC
					B5	B7	B9	B11	B5	B7	B9	B11
F1032	0.750	1.57	0.19	1.28	9.82	9.82	10.65	—	3.31	3.31	4.63	—
F1042	1.000	1.97	0.25	1.75	10.73	10.73	11.55	—	3.31	3.31	4.63	—
F1062	1.250	2.36	0.25	2.00	12.26	12.26	14.61	14.61	3.31	3.31	4.63	4.63
F1072	1.625	3.15	0.38	2.37	15.15	15.15	16.76	16.76	3.31	3.31	4.63	4.63

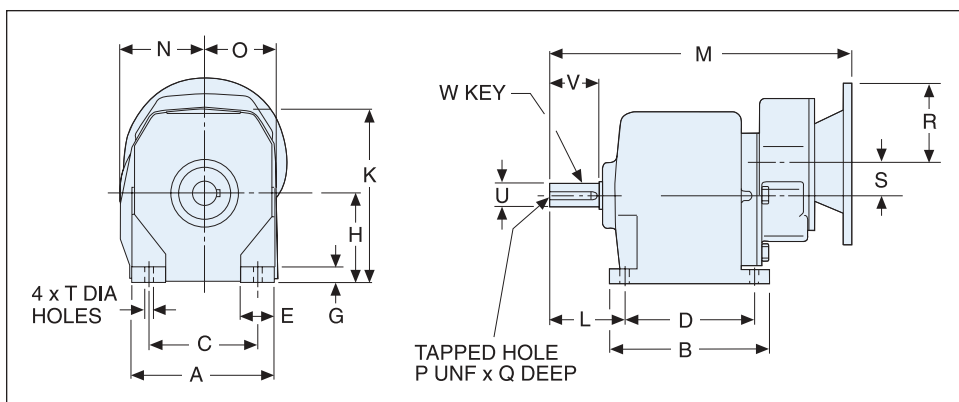
Output shaft rotation, relative to input shaft rotation, is identical for double reduction and opposite for triple reduction.

F1032 - F1042 - 150 lbs. max motor weight

F1062 - F1072 - 300 lbs. max motor weight

Foot Mount

F1000 Series Dimensions Triple Reduction Quill Type NEMA C-Face Input



Size	A	B	C	D	E	G	H	K	L	N	O	P	Q	S
F1033	5.44	4.33	4.33	3.35	1.05	0.48	2.95	5.79	2.28	3.16	2.84	0.25	0.63	1.40
F1043	5.71	6.30	4.33	5.12	1.48	0.67	3.54	6.99	2.95	3.31	2.95	0.25	0.63	1.40
F1063	7.48	7.87	5.31	6.50	2.19	0.81	4.53	9.06	3.54	4.13	3.87	0.38	0.87	1.83
F1073	9.06	9.65	6.69	8.07	2.64	1.03	5.51	10.83	4.53	5.12	4.69	0.63	1.38	2.34

Size	T	Low Speed Shaft				M			R		
		U +.000 -.001	V	W-Key		NEMA Mounting			NEMA Mounting		
				Sq.	Lgth.	56C	140TC	180TC	56C	140TC	180TC
						B5	B7	B9	B5	B7	B9
F1033	0.39	0.750	1.57	0.19	1.28	12.03	—	—	3.31	—	—
F1043	0.39	1.000	1.97	0.25	1.75	12.94	—	—	3.31	—	—
F1063	0.59	1.250	2.36	0.25	2.00	15.38	15.38	—	3.31	3.31	—
F1073	0.75	1.625	3.15	0.38	2.37	18.28	18.28	20.63	3.31	3.31	4.63

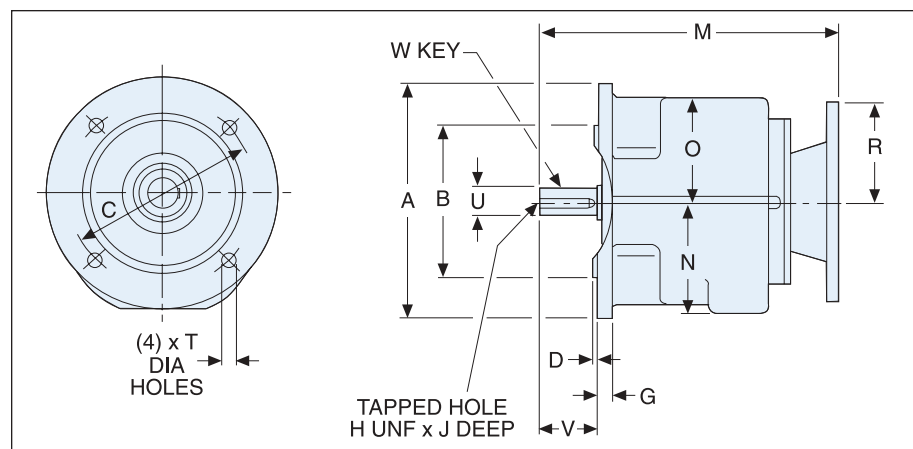
Output shaft rotation, relative to input shaft rotation, is identical for double reduction and opposite for triple reduction.

F1033 - F1043 – 150 lbs. max motor weight

F1063 - F1073 – 300 lbs. max motor weight

Output Flange Mount

F1000 Series Dimensions Double Reduction Quill Type NEMA C-Face Input



Size	A	B +.000 -.003	C	D	G	H	J	N	O	T
F1032F	6.30	4.330	5.12	0.14	0.28	0.25	0.63	3.15	2.76	0.39
F1042F	7.87	5.118	6.50	0.14	0.47	0.25	0.63	3.74	3.46	0.47
F1062F	9.84	7.086	8.46	0.16	0.47	0.38	0.87	4.45	4.53	0.59
F1072F	11.81	9.055	10.43	0.16	0.55	0.63	1.38	5.43	5.43	0.59

Size	Low Speed Shaft				M				R			
	U	V	W-Key		NEMA Mounting				NEMA Mounting			
	+.000 -.001		Sq.	Lgth.	56C	140TC	180TC	210TC	56C	140TC	180TC	210TC
					B5	B7	B9	B11	B5	B7	B9	B11
F1032F	0.750	1.57	0.19	1.28	9.82	9.82	10.65	—	3.31	3.31	4.63	—
F1042F	1.000	1.97	0.25	1.75	10.73	10.73	11.55	—	3.31	3.31	4.63	—
F1062F	1.250	2.36	0.25	2.00	12.26	12.26	14.61	14.61	3.31	3.31	4.63	4.63
F1072F	1.625	3.15	0.38	2.37	15.15	15.15	16.76	16.76	3.31	3.31	4.63	4.63

Output shaft rotation, relative to input shaft rotation, is identical for double reduction and opposite for triple reduction.

 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

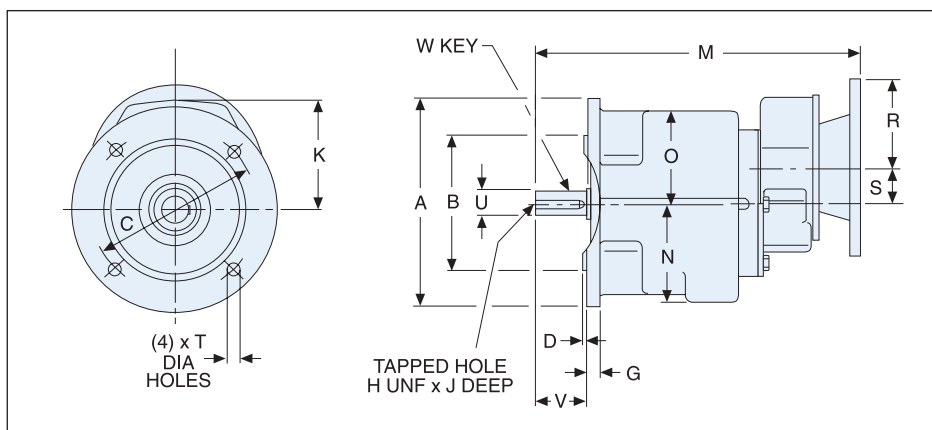
 1000 Series
In-Line Helical

 1000 Series
Helical-Worm

Engineering

Output Flange Mount

F1000 Series Dimensions Triple Reduction Quill Type NEMA C-Face Input



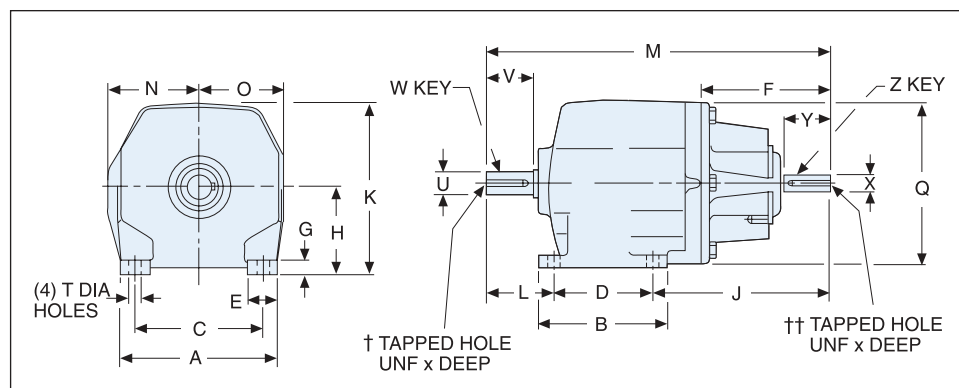
Size	A	B +.000 -.003	C	D	G	H	J	K	N	O	S
F1033F	6.30	4.330	5.12	0.14	0.28	0.25	0.63	4.17	3.15	2.76	1.40
F1043F	7.87	5.118	6.50	0.14	0.47	0.25	0.63	4.17	3.74	3.46	1.40
F1063F	9.84	7.086	8.46	0.16	0.47	0.38	0.87	4.45	4.45	4.53	1.83
F1073F	11.81	9.055	10.43	0.16	0.55	0.63	1.38	5.43	5.43	5.43	2.34

Size	T	Low Speed Shaft				M			R		
		U +.000 -.001	V	W-Key		NEMA Mounting			NEMA Mounting		
				Sq.	Lgth.	56C	140TC	180TC	56C	140TC	180TC
						B5	B7	B9	B5	B7	B9
F1033F	.39	0.750	1.57	0.19	1.28	12.03	—	—	3.31	—	—
F1043F	.47	1.000	1.97	0.25	1.75	12.94	—	—	3.31	—	—
F1063F	.59	1.250	2.36	0.25	2.00	15.38	15.38	—	3.31	3.31	—
F1073F	.59	1.625	3.15	0.38	2.37	18.28	18.28	20.63	3.31	3.31	4.63

Output shaft rotation, relative to input shaft rotation, is identical for double reduction and opposite for triple reduction.

Foot Mounted

F1000 Series Dimensions Double Reduction Non-Flanged (Projecting Input Shaft)



Size	A	B	C	D	E	F	G	H	J	K	L	M	N
1032	5.44	4.33	4.33	3.35	1.05	4.37	0.48	2.95	5.94	5.79	2.28	11.57	3.16
1042	5.71	6.30	4.33	5.12	1.48	4.37	0.67	3.54	4.41	6.99	2.95	12.48	3.31
1062	7.48	7.87	5.31	6.50	2.19	4.37	0.81	4.53	4.49	9.06	3.54	14.53	4.13
1072	9.06	9.65	6.69	8.07	2.64	4.53	1.03	5.51	4.72	10.83	4.53	17.32	5.12

Size	O	Q	T	Low Speed Shaft					High Speed Shaft				
				U +.000 -.001	V	W-Key		Tapped Hole † UNF x Deep	X +.000 -.001	Y	Z-Key		Tapped Hole †† UNF x Deep
						Sq.	Lgth.				Sq.	Lgth.	
1032	2.84	5.51	0.39	0.750	1.57	0.19	1.28	0.25 x 0.63	0.625	1.57	0.19	1.28	0.25 x 0.49
1042	2.95	5.51	0.39	1.000	1.97	0.25	1.75	0.25 x 0.63	0.625	1.57	0.19	1.28	0.25 x 0.49
1062	3.87	7.09	0.59	1.250	2.36	0.25	2.00	0.37 x 0.87	0.750	1.57	0.19	1.28	0.25 x 0.63
1072	4.69	8.46	0.75	1.625	3.15	0.38	2.37	0.63 x 1.38	0.875	1.97	0.19	1.28	0.31 x 0.63

Output shaft rotation, relative to input shaft rotation, is identical for double reduction and opposite for triple reduction.

 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

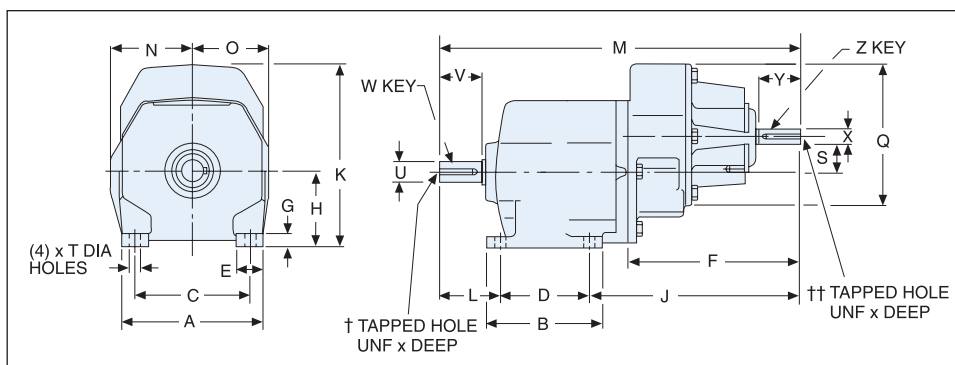
 1000 Series
In-Line Helical

 1000 Series
Helical-Worm

Engineering

Foot Mounted

F1000 Series Dimensions Triple Reduction Non-Flanged (Projecting Input Shaft)



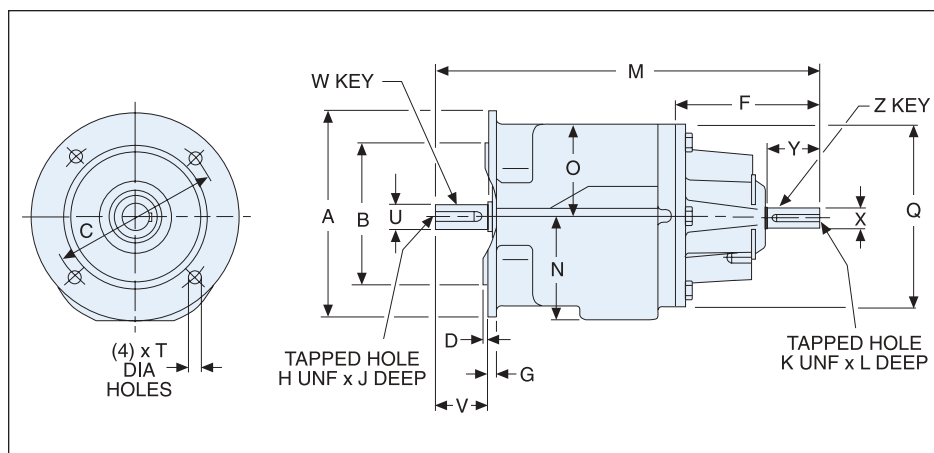
Size	A	B	C	D	E	F	G	H	J	K	L	M	N
1033	5.44	4.33	4.33	3.35	1.05	6.57	0.48	2.95	8.15	7.13	2.28	13.78	3.16
1043	5.71	6.30	4.33	5.12	1.48	6.57	0.67	3.54	6.61	7.72	2.95	14.69	3.31
1063	7.48	7.87	5.31	6.50	2.19	6.97	0.81	4.53	7.09	9.13	3.54	17.13	4.13
1073	9.06	9.65	6.69	8.07	2.64	7.76	1.03	5.51	7.95	11.42	4.53	20.55	5.12

Size	O	Q	S	T	Low Speed Shaft					High Speed Shaft				
					U +.000 -.001	V	W-Key		Tapped Hole † UNF x Deep	X +.000 -.001	Y	Z-Key		Tapped Hole †† UNF x Deep
							Sq.	Lgth.				Sq.	Lgth.	
1033	2.84	5.51	1.40	0.39	0.750	1.57	0.19	1.28	0.25 x 0.63	0.625	1.57	0.19	0.19	0.25 x 0.49
1043	2.95	5.51	1.40	0.39	1.000	1.97	0.25	1.75	0.25 x 0.63	0.625	1.57	0.19	0.19	0.25 x 0.49
1063	3.87	5.51	1.83	0.59	1.250	2.36	0.25	2.00	0.37 x 0.87	0.625	1.57	0.19	0.19	0.25 x 0.63
1073	4.69	7.09	2.34	0.75	1.625	3.15	0.38	2.37	0.63 x 1.38	0.750	1.57	0.19	0.19	0.31 x 0.63

Output shaft rotation, relative to input shaft rotation, is identical for double reduction and opposite for triple reduction.

Output Flange Mount

F1000 Series Dimensions Double Reduction Non-Flanged (Projecting Input Shaft)



Size	A	B +.000 -.003	C	D	F	G	H	J	K	L	M	N
1032F	6.30	4.331	5.12	0.14	4.37	0.28	0.25	0.63	0.25	0.49	11.57	3.15
1042F	7.87	5.118	6.50	0.14	4.37	0.47	0.25	0.63	0.25	0.49	12.48	3.74
1062F	9.84	7.087	8.46	0.16	4.37	0.47	0.38	0.87	0.25	0.63	14.53	4.45
1072F	11.81	9.055	10.43	0.16	4.53	0.55	0.63	1.38	0.31	0.63	17.32	5.43

Size	O	Q	T	Low Speed Shaft				High Speed Shaft			
				U +.000 -.001	V	W-Key		X +.000 -.001	Y	Z-Key	
						Sq.	Lgth.			Sq.	Lgth.
1032F	2.76	5.51	0.39	0.750	1.57	0.19	1.28	0.625	1.57	0.19	1.28
1042F	3.46	5.51	0.47	1.000	1.97	0.25	1.75	0.625	1.57	0.19	1.28
1062F	4.53	7.09	0.59	1.250	2.36	0.25	2.00	0.750	1.57	0.19	1.28
1072F	5.43	8.35	0.59	1.625	3.15	0.38	2.37	0.875	1.97	0.19	1.28

Output shaft rotation, relative to input shaft rotation, is identical for double reduction and opposite for triple reduction.

 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

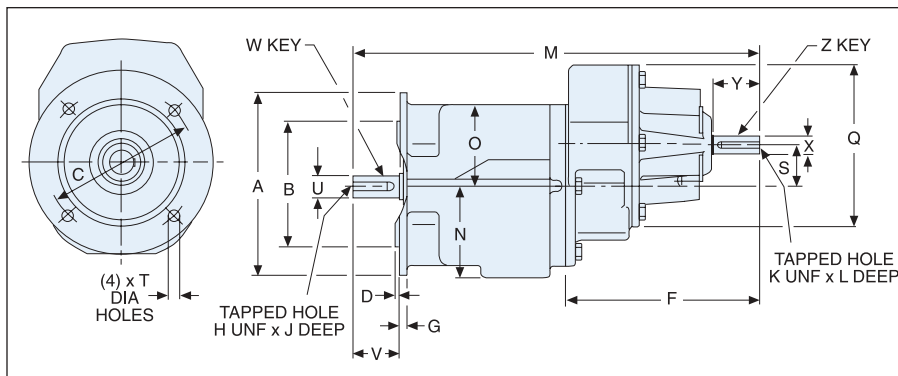
 1000 Series
In-Line Helical

 1000 Series
Helical-Worm

Engineering

Output Flange Mount

F1000 Series Dimensions Triple Reduction Non-Flanged (Projecting Input Shaft)



Size	A	B +.000 -.003	C	D	F	G	H	J	K	L	M	N
1033F	6.30	4.331	5.12	0.14	6.57	0.28	0.25	0.63	0.25	0.49	13.78	3.15
1043F	7.87	5.118	6.50	0.14	6.57	0.47	0.25	0.63	0.25	0.49	14.69	3.74
1063F	9.84	7.087	8.46	0.16	6.97	0.47	0.38	0.87	0.25	0.63	17.13	4.45
1073F	11.81	9.055	10.43	0.16	7.76	0.55	0.63	1.38	5/16	0.63	20.55	5.43

Size	O	Q	S	T	Low Speed Shaft				High Speed Shaft			
					U +.000 -.001	V	W-KeyX		Y +.000 -.001		Z-Key	
							Sq.	Lgth.			Sq.	Lgth.
1033F	2.76	5.51	1.40	0.39	0.750	1.57	0.19	1.28	0.625	1.57	0.19	1.28
1043F	3.46	5.51	1.40	0.47	1.000	1.97	0.25	1.75	0.625	1.57	0.19	1.28
1063F	4.53	5.51	1.83	0.59	1.250	2.36	0.25	2.00	0.625	1.57	0.19	1.28
1073F	5.43	7.09	2.34	0.59	1.625	3.15	0.38	2.37	0.750	1.57	0.19	1.28

Output shaft rotation, relative to input shaft rotation, is identical for double reduction and opposite for triple reduction.

1000 Series Helical-Worm

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900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

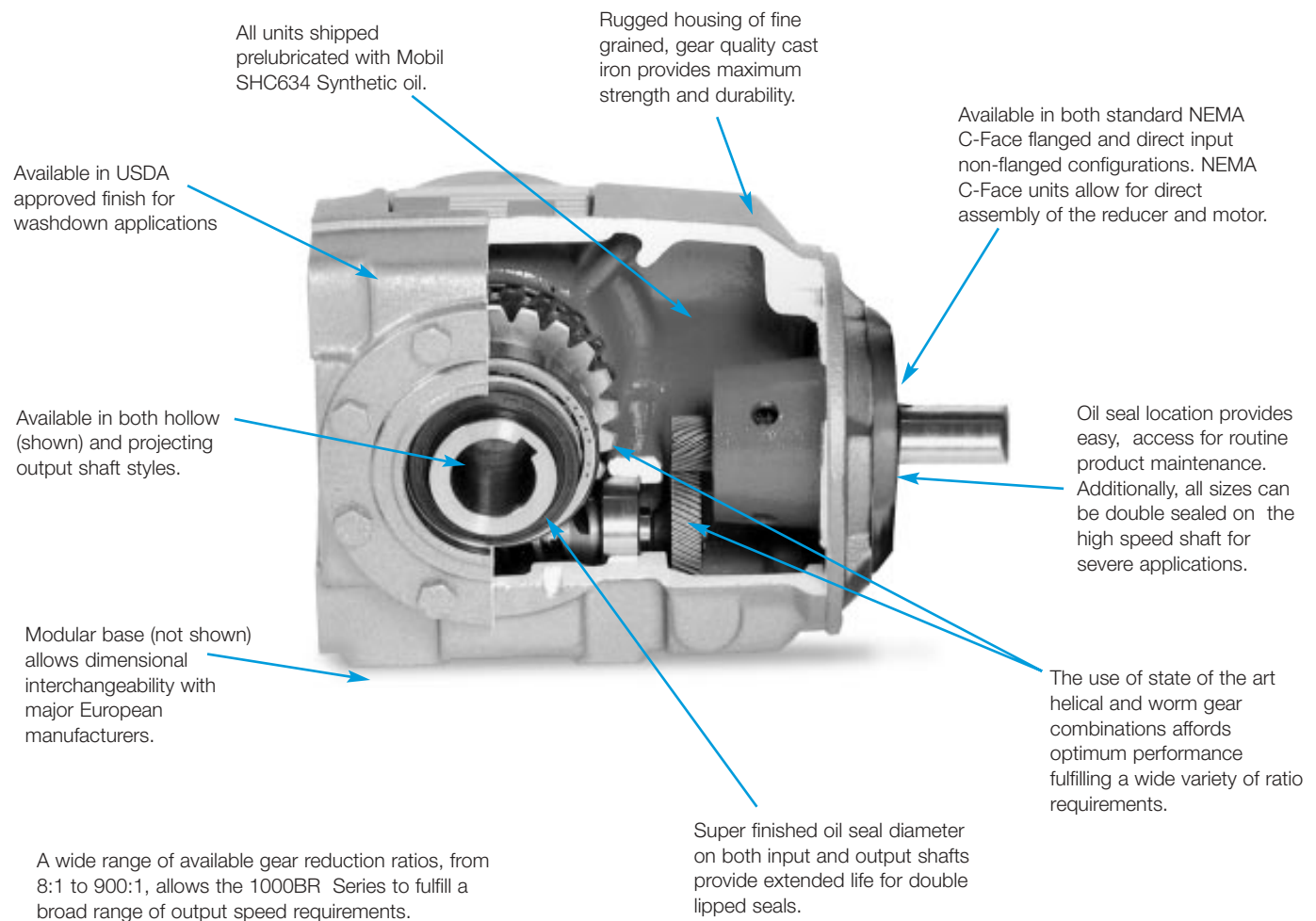
1000 Series Right Angle Helical-Worm Gear Drives



The 1000R Series contains a broad selection of compact, heavy-duty helical gear drives, with long life performance features and simplified maintenance. Models include double and triple reduction units in flanged or foot mounted arrangements. You can choose from a wide range of reduction ratios to suit specific applications and a variety of input shaft configurations for maximum positioning flexibility. All units are adaptable to floor, sidewall or ceiling mounting.

1000 Series Right Angle Helical-Worm Gear Drives

Features and Benefits



900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

1000 Series Right Angle Helical Gear Drives Reference Guide

F1000R Series Right Angle Helical-Worm Quill Type NEMA C-Face Input

F1000R

Double Reduction



Ratings P. 167 - 181
Dimensions P. 182

F1000R

Triple Reduction



Ratings P. 167 - 181
Dimensions P. 183

1000R Series Right Angle Helical-Worm Projecting Input Shaft

1000F

Double Reduction



Ratings P. 167 - 181
Dimensions P. 184

1000F

Triple Reduction



Ratings P. 167 - 181
Dimensions P. 185

1000R/F1000R Series Accessories and Options

Output Flange Kits



Dimensions P. 186

Torque Arm Kits



Dimensions P. 186

Base Kits



Dimensions P. 187

Output Shaft Kits



Dimensions P. 187

Interchange Guide

**Base Mount
NEMA C-Face
F1000RB**



**Base Mount
Projecting Input Shaft
1000RB**



**Output Flange Mount
NEMA C-Face
F1000RF**



**Output Flange Mount
Projecting Input Shaft
1000RF**



Baldor 1000 Series Right Angle Helical-Worm Gear Drives are designed to be functionally interchangeable with these and many other manufacturer's drives. This chart is intended to be a guide only. Please see appropriate manufacturer's catalogs for exact details regarding ratings and dimensions.

Manufacturers	Size	Base Mount NEMA C-Face	Base Mount Solid Input	Output Flange Mount NEMA C-Face	Output Flange Mount Solid Input
Baldor	1030	F1032RB/F1033RB	1032RB/1033RB	F1032FR/F1033FR	1032FR/1033FR
Boston	830	SF832BRB/SF833BRB	832B/833B	F832BF/F833BF	832BF/833BF
SEW Eurodrive	32	SA32LP	Not Available	RF32LP	Not Available
Flender	N/A	Not Available	Not Available	Not Available	Not Available
Stober	S102	S102VN-MR	S102VN-AW	S102VN-MR	S102VN-AW
Baldor	1040	F1042RB/F1043RB	1042RB/1043RB	F1042FR/F1043FR	1042FR/1043FR
Boston	840	SF842BRB/SF843BRB	S842BRB/S843BRB	SF842BRF/SF843BRF	S842BRF/S843BRF
SEW Eurodrive	42	SA42LP	SA42	SAF42LP	SAF42
Flender	21	CA21-(M, G or A)	CA21A	CF21-(M, G or A)	CF21A
Stober	S200	S202VN-MR	S202/3VN-AW	S202/3AF-MR	S202/3AF-AW
Baldor	1050	F1052RB/F1053RB	1052RB/1053RB	F1052FR/F1053FR	1052FR/1053FR
Boston	850	SF852BRB/SF853BRB	S852BRB/S853BRB	SF852BRF/SF853BRF	S852BRF/S853BRF
SEW Eurodrive	52	SA52LP	SA52	SAF52LP	SAF52
Flender	41	CA41-(M, G or A)	CA41A	CF41-(M, G or A)	CF41A
Stober	S300	S302/3VN-MR	S302/3VN-AW	S302/3AF-MR	S302/3AF-AW
Baldor	1060	F1062RB/F1063RB	1062RB/1063RB	F1072FR/F1073FR	1062FR/1063FR
Boston	860	SF862BRB/SF863BRB	S862BRB/S863BRB	SF862BRF/SF863BRF	S862BRF/863BRF
SEW Eurodrive	62	SA62LP	SA62	SAF62LP	SAF62
Flender	61	CA61-(M, D or A)	CA61A	CF61-(M, D or A)	CF61A
Stober	S400	S402/3VN-MR	S402/3VN-AW	S402/3AF-MR	S402/3AF-AW

900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

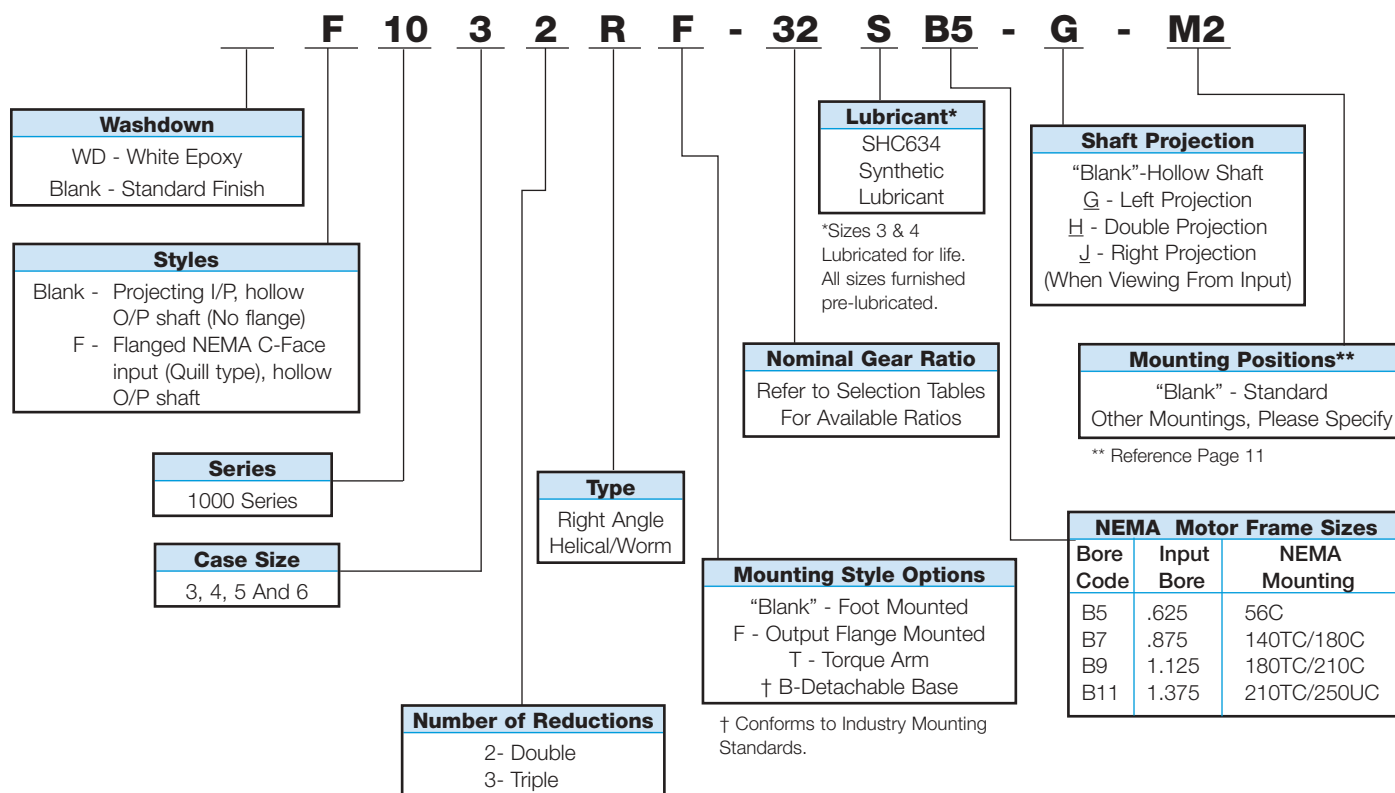
1000 Series
Helical-Worm

Engineering

Numbering System / How To Order

NUMBERING SYSTEM

EXAMPLE:



HOW TO ORDER

EXAMPLE:

Required flange input, NEMA 56C, 3/4 Hp, Class I, detachable base, 32:1 ratio, lubricated, with double output shaft and standard mounting position.

Order:

- 1 - GRF3232A
- 1 - B1030H71 (Base Kit)
- 1 - SH1030D (Output Shaft)

If components are to be factory assembled specify as F1032RB-32S-B5-H.

Selection Process

MOTORIZED GEAR DRIVES

1. Determine application service factor from page 162, or from Application Classifications on pages 193 - 195.
2. Determine output speed required.
3. Determine Hp or output torque requirement.
4. Select a speed reducer size based on output speed and horsepower requirement for given service class.
5. Check overhung load calculation.

EXAMPLE

Select a right angle motorized helical-worm shaft mounted gear drive and motor to drive a uniformly loaded line conveyor 24 hours/day requiring 2 Hp at 35 RPM.

Power Requirement:

230/460 volt
 3 phase
 60 hertz

1. Select Service Factor Class from page 162. Service Class = II
2. Output RPM = 35
3. 2 Hp
4. Select a 2 Hp drive that will satisfy min. of II service class. (See chart below)
5. Order: 1 - F1062R-50S-B7 Ref. Page 160
 1 - VM3558T

OVERHUNG LOAD

If the output shaft of a gear drive is connected to the driven machine by other than a flexible coupling, an overhung load is imposed on the shaft. This load may be calculated as follows:

$$OHL = \frac{2TK}{D}$$

- OHL = Overhung Load (Lbs)
 T = Shaft Torque (In-Lbs)
 D = Pitch Diameter of Sprocket, Pinion or Pulley (In)
 K = Load Connection Factor

LOAD CONNECTION FACTOR (K)

Sprocket or Timing Belt	1.00
Pinion and Gear Drive	1.25
Pulley and V-Belt Drive	1.50
Pulley and Flat Belt Drive	2.50

An overhung load greater than permissible load value may be reduced to an acceptable value by the use of a sprocket, pinion or pulley of a larger Pitch Diameter. Relocation of the load closer to the center of gear drive will also increase OHL capacity.

Permissible Overhung Loads and Output Shaft Thrust Loads are listed for each reducer in the Tables on page 163.

1000 SERIES RIGHT ANGLE HELICAL-WORM SELECTION TABLES

1750 RPM INPUT

ORDER BY STYLE NUMBER OR CATALOG NUMBER
 FOR STANDARD MOUNTING POSITIONS

Approx. Output RPM	Ratio	Non-Flanged (Projecting Input Shaft)			Flanged (Quill Type NEMA C-Face Input)			
		Gear Capacity		Style Number	Ratings			Style Number
		Output Torque	Input Hp		Motor Hp	Output Torque	Service Class*	
35	50	3248	2.24	1052R-505	2	2899	I	F1052R-505-B7
					1.5	2174	II	
		5930	3.79	1062R-505	1	1499	III	F1052R-505-B5
					3	4692	I	F1062R-505-B9
					2	3128	II	F1062R-505-B7
					1.5	2346	III	

* Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service Class III (S.F. = 2.00)
 Overhung Load Ratings refer to Page 163.

Selection Process

To properly select a gear drive, the following application information should be known.

1. Service Factor or AGMA Service class.
2. Output Horsepower or Torque
3. Output RPM or Ratio
(Maximum Input Speed 4500 RPM)

NON-MOTORIZED GEAR DRIVES

1. Determine application service factor from the service factor chart on this page, or from Application Classifications on pages 193 - 195.
2. Determine design Horsepower or Torque.
- Design Hp = Application Hp x S.F.
- Design Torque = Application Torque x S.F.
3. Select a Gear drive that satisfies output RPM, service class and/or output torque requirement. Reference ratings tables pages 161 - 187*.

* Ratings are at 1750 RPM input. Contact Baldor for ratings at other input speeds.

4. Overhung shaft load should be checked when belt or chain drives are used, to prevent premature shaft or bearing failure. Reference page 161 for calculations.

EXAMPLE

Select an In-line 1000R Series Gear Drive for a continuous duty concrete mixer requiring 2750 In-Lbs of torque at approximately 141 RPM, to operate up to 8 hrs/day. The Gear Drive will be driven at 1160 input RPM.

1. Application Service Factor = 1.25
2. Design Torque = $2750 \times 1.25 = 3438$ In-Lbs
3. Select at speed and torque level of 3438 In-Lbs or greater.
4. Order 1062R-8S.

NOTE: The use of an auxiliary drive between the gear drive and the driven machine reduces the torque required at the output shaft in direct proportion to the auxiliary drive ratio.

A 3:1 chain ratio would reduce the torque requirement at the output shaft of the gear drive to one-third, resulting in a smaller unit size selection.

SERVICE FACTOR CHART

AGMA Class of Service	Service Factor	Operating Conditions
I	1.00	Moderate Shock-not more than 15 minutes in 2 hours Uniform Load-not more than 10 hours per day.
II	1.25	Moderate Shock-not more than 10 hours per day. Uniform Load-more than 10 hours per day.
	1.50	Heavy Shock-not more than 15 minutes in 2 hours. Moderate Shock-more than 10 hours per day.
III	1.75	Heavy Shock-not more than 10 hours per day.
	2.00	Heavy Shock-more than 10 hours per day.

For complete AGMA Service Factors and Load Classifications, see Engineering Page 193 - 195.

1000 Series Right Angle Helical-Worm Gear Drives

Non-Flanged

Input Speeds 1750 RPM, 1450 RPM & 1160 RPM

Service Factor 1.0

Style Number	Input Speed								
	1750 RPM			1450 RPM			1160 RPM		
	Approx. Output RPM	Output Torque In.-Lbs. (Max)	Input Hp (Max)	Approx. Output RPM	Output Torque In.-Lbs. (Max)	Input Hp (Max)	Approx. Output RPM	Output Torque In.-Lbs. (Max)	Input Hp (Max)
1032R-85	218	689	2.65	181	717	2.30	145	751	1.95
1042R-85	218	1100	4.39	181	1152	3.81	145	1209	3.23
1052R-85	218	1678	6.66	181	1829	6.00	145	1991	5.28
1062R-85	218	2910	11.40	181	3292	10.20	145	3607	8.98

Selection Process

OVERHUNG LOADS (LBS) & AXIAL THRUST (LBS) CAPACITIES ON OUTPUT SHAFT

Output RPM	1032R / 1033R		1042R / 1043R		1052R / 1053R		1062R / 1063R	
	OHL	Thrust	OHL	Thrust	OHL	Thrust	OHL	Thrust
180	440	1650	1770	2570	1670	3420	1730	3920
125	440	1840	1770	2830	1670	3720	1720	4220
80	440	2260	1770	3410	1670	4220	1700	4990
50	440	2740	1770	4160	1670	5220	1660	5850
32	440	3000	1770	4530	1670	5540	1640	6400
25	440	3000	1770	4670	1670	5860	1620	6550
10	430	3890	1770	6160	1670	7760	1570	8550
5	430	4620	1770	7090	1670	9000	1560	10500
1	430	4840	1770	7130	1660	8950	1560	10500

OVERHUNG LOADS (LBS) ON INPUT SHAFT AT 1750 RPM

Ratio	Size			
	1032R	1042R	1052R	1062R
8.0	290	270	255	300
14.0	300	280	260	315
20.0	300	285	265	320
32.0	305	290	265	320
50.0	310	290	270	320
71.0	310	295	265	315
112.0	310	305	280	320
160.0	320	305	280	335
250.0	320	310	290	345

Ratio	Size			
	1033R	1043R	1053R	1063R
100.0	315	310	295	280
180.0	315	315	300	285
280.0	315	315	305	285
400.0	315	315	305	290
560.0	320	315	305	295
900.0	320	315	305	300

APPROXIMATE WEIGHTS (LBS)

Non-Flange Reducers		Flange Reducers				
Size	Weight (Lbs)	Size	NEMA Mounting			
			56C B5	140TC B7	180TC B9	210TC B11
1032R	24	F1032R	26	26	—	—
1042R	32	F1042R	31	31	34	—
1052R	39	F1052R	—	35	38	—
1062R	70	F1062R	—	—	80	80
1033R	32	F1033R	33	—	—	—
1043R	40	F1043R	39	—	—	—
1053R	47	F1053R	43	—	—	—
1063R	83	F1063R	78	78	—	—

 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

 1000 Series
In-Line Helical

 1000 Series
Helical-Worm

Engineering

1000 Series Right Angle Helical-Worm Gear Drives

LUBRICANT AND QUANTITY

Synthetic SHC634 is recommended for the 1000R Series gear drives and at all times, the lubricant must remain free from contamination. Normal operating temperatures range between 150°F - 170°F. During the initial break-in of the gear drive, higher than normal operating temperatures may result.

All gear drives are supplied filled with SHC634 synthetic oil and with the quantity listed below for standard mounting position M1 or to mounting specified at time of order.

- Sizes 1032R/1033R and 1042R/1043R are lubricated for life. No vent required.
- Sizes 1052R/1053R and 1062R/1063R will require an oil change after 20,000 hours of operation. More frequent changes may be required when operating in high temperature ranges or unusually contaminated environments.
- Satisfactory performance may be obtained in some applications with non-synthetic oils and will require more frequent changes.

Recommended Lubricant	Ambient Temperature	ISO Viscosity Grade Number
Mobil SHC634	-30° to 225°F	320 / 460
Mobil D.T.E Oil Extra Heavy	50° to 125°F	710 / 790

OIL CAPACITIES (QUARTS)

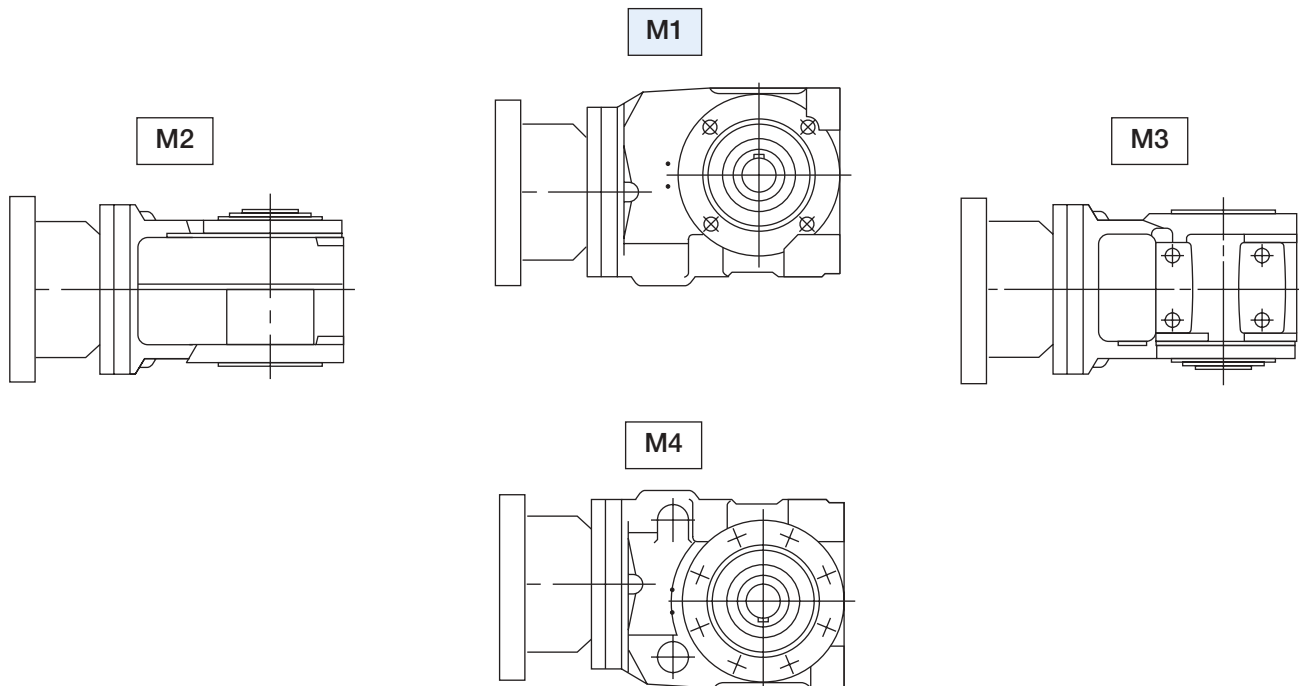
Unit Size	Mounting Positions					
	M1	M2	M3	M4	M5	M6
	Foot Mounted					
1032R	.31	.63	.63	.84	.63	1.0
1033R	.42	.95	.84	1.4	1.0	1.6
1042R	.42	.84	.73	1.0	.84	1.4
1043R	.52	1.0	.95	1.8	1.4	1.9
1052R	.73	1.2	1.2	1.7	1.5	2.0
1053R	.95	1.4	1.6	2.2	2.1	2.5
1062R	1.6	2.6	2.4	3.5	3.1	4.6
1063R	1.7	2.7	2.7	4.4	4.8	5.5

Refer to mounting positions on page 165.

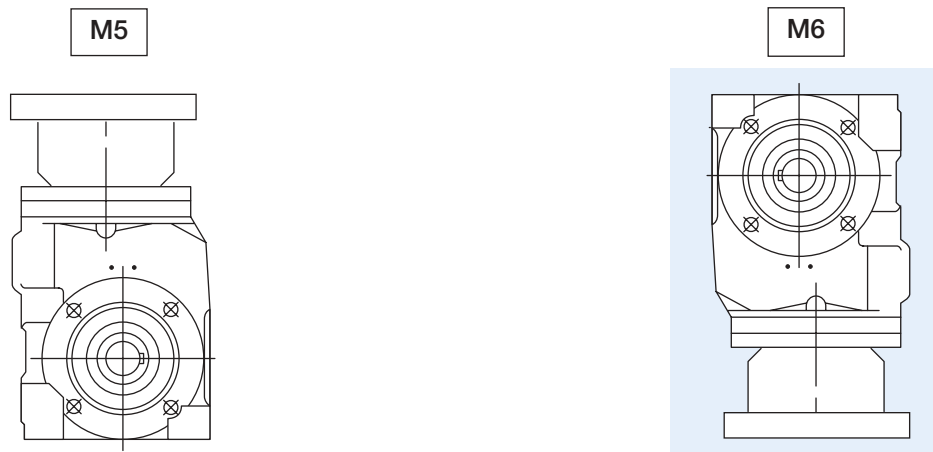
1000 Series Right Angle Helical-Worm Gear Drives

HORIZONTAL MOUNTINGS

STANDARD



VERTICAL MOUNTINGS



Positions M1 is standard and will be supplied with oil for this position unless otherwise specified.

CAUTION: Mounting of gear drives in overhead positions may be hazardous. Use of external guides or supports is strongly recommended for overhead mounting.

Avoiding those positions where the high speed oil seal is immersed in oil will provide greater security against high speed input seal wear.

NOTE: The above drawings will serve to represent both flanged and non-flanged styles.

M6 is not a recommended mounting position. High speed oil seal is immersed in oil.

1000 Series Right Angle Helical-Worm Gear Drives



Nominal Output RPM 1750 RPM Input	Nominal Gear Ratio	Continuous Duty Output Torque (In-Lbs) Based On 1750 RPM Motor Hp									Max Input Hp	Max Output Torque In.-Lbs.	NEMA Motor Mount	Style Number	Catalog Number	List	Mult. Sym.	Approx. Shpg. Wgt.
		0.33	0.50	0.75	1	1.5	2	3	5	7.5								
125	14			330	441	662					1.79	790	56C	F1032R-14S-B5	GRF1432A	704	GB	26
	14			330	441	662					1.79	790	140TC	F1032R-14S-B7	GRF1432B	704	GB	26
	14					646	861	1288			2.99	1288	56C	F1042R-14S-B5	GRF1442B	912	GB	31
	14					646	861	1288			2.99	1288	140TC	F1042R-14S-B9	GRF1442C	912	GB	31
	14						849	1274			4.85	2060	140TC	F1052R-14S-B7	GRF1452B	1,018	GB	35
	14						849	1274			4.85	2060	180TC	F1052R-14S-B9	GRF1452C	1,018	GB	38
	14							1399	2332	3498	8.20	3827	180TC	F1062R-14S-B9	GRF1462C	1,342	GB	80
	14							1399	2332	3498	8.20	3827	210TC	F1062R-14S-B11	GRF1462D	1,342	GB	80
79	22		289	434	578						1.39	804	56C	F1032R-22S-B5	GRF2232A	704	GB	26
	22				592	888	1184				2.23	1321	56C	F1042R-22S-B5	GRF2242A	912	GB	31
	22				592	888	1184				2.23	1321	140TC	F1042R-22S-B7	GRF2242B	912	GB	31
	22						1259	1889	3086		4.90	3086	140TC	F1052R-22S-B7	GRF2252B	1,018	GB	35
	22						1259	1889	3086		4.90	3086	180TC	F1052R-22S-B9	GRF2252C	1,018	GB	38
	22							1935	3226		7.41	4784	180TC	F1062R-22S-B9	GRF2262C	1,342	GB	80
54	32		485	728	971						1.00	971	56C	F1032R-32S-B5	GRF3232A	704	GB	26
	32			705	940	1409					1.66	1560	56C	F1042R-32S-B5	GRF3242A	912	GB	31
	32			705	940	1409					1.66	1560	140TC	F1042R-32S-B7	GRF3242B	912	GB	31
	32					1415	1887	2813			2.98	2813	140TC	F1052R-32S-B7	GRF3252B	1,018	GB	35
	32					1415	1887	2813			2.98	2813	180TC	F1052R-32S-B9	GRF3252C	1,018	GB	38
	32						2102	3153			4.93	5184	140TC	F1062R-32S-B7	GRF3262B	1,342	GB	80
	32						2102	3153			4.93	5184	180TC	F1062R-32S-B9	GRF3262C	1,342	GB	80
27	63	517	775								0.07	1040	56C	F1032R-63S-B5	GRF6332A	704	GB	26
	63		800	1197	1597						1.07	1710	56C	F1042R-63S-B5	GRF6342A	912	GB	31
	63				1630	2446	3261				2.39	3899	56C	F1052R-63S-B5	GRF6352A	1,018	GB	35
	63				1630	2446	3261				2.39	3899	140TC	F1052R-63S-B7	GRF6352B	1,018	GB	35
	63					2680	3574	5360			3.76	6720	140TC	F1062R-63S-B7	GRF6362B	1,342	GB	80
	63					2680	3574	5360			3.76	6720	180TC	F1062R-63S-B9	GRF6362C	1,342	GB	80
17	100	732	1098								0.51	1120	56C	F1032R-100S-B5	GRF10032A	704	GB	26
	100	755	1132	1697							0.81	1835	56C	F1042R-100S-B5	GRF10042A	912	GB	31
	100			1852	2469	3704					1.71	4225	56C	F1052R-100S-B5	GRF10052A	1,018	GB	35
	100			1852	2469	3704					1.71	4225	140TC	F1052R-100S-B7	GRF10052B	1,018	GB	35
	100					3939	5252				2.87	7539	140TC	F1062R-100S-B7	GRF10062B	1,342	GB	80

	SERVICE CLASS I (SERVICE FACTOR = 1.0)
	SERVICE CLASS II (SERVICE FACTOR = 1.5)
	SERVICE CLASS III (SERVICE FACTOR = 2.0)

1000 Series Right Angle Helical-Worm Selection Tables

1750 RPM Input

ORDER BY STYLE NUMBER
 FOR STANDARD MOUNTING POSITIONS†

Approx. Output RPM	Ratio	Non-Flanged (Projecting Input Shaft)			Flanged (Quill Type NEMA C-Face Input)			
		Gear Capacity		Style Number	Ratings			Style Number
		Output Torque In.-Lbs.	Input Hp		Motor Hp	Output Torque In.-Lbs.	Service Class *	
218	8	689	2.65	1032R-8S	2	519	I	F1032R-8S-B7
					1.5	389	II	
					1	260	III	
		1160	4.39	1042R-8S	3	751	II	F1042R-8S-B9
					2	500	III	F1042R-8S-B7
		1678	6.66	1052R-8S	5	1260	I	F1052R-8S-B9
					3	755	III	
		2940	11.40	1062R-8S	10	2578	I	F1062R-8S-B11
					7.5	1933	II	
					5	1289	III	
159	11	742	2.14	1032R-11S	2	694	I	F1032R-11S-B7
					1.5	520	II	
					1	347	II	
		1194	3.57	1042R-11S	3	1003	I	F1042R-11S-B9
					2	668	II	
					1.5	501	III	
		1930	5.52	1052R-11S	5	1746	I	F1052R-11S-B9
					3	1048	II	
					2	666	III	
145	12	787	1.95	1032R-12S	7.5	2780	I	F1062R-11S-B11
					5	1853	II	
					3	1112	III	
		1264	3.25	1042R-12S	1.5	605	I	F1032R-12S-B7
					1	403	II	
					3/4	302	III	
		2010	5.22	1052R-12S	3	1166	I	F1042R-12S-B9
					2	777	II	
					1.5	583	III	
		3646	8.77	1062R-12S	5	1924	I	F1052R-12S-B9
					3	1155	II	
					2	770	III	
					7.5	3117	I	F1062R-12S-B11
					5	2078	II	
					3	1246	III	F1062R-12S-B9

* Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)

For Overhung Load Ratings refer to Page 163.

†For Base / Projecting Shaft / Output Flange see How to Order Page 160.

900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

1000 Series Right Angle Helical-Worm Selection Tables

1750 RPM Input

ORDER BY STYLE NUMBER OR CATALOG NUMBER
 FOR STANDARD MOUNTING POSITIONS†

Approx. Output RPM	Ratio	Non-Flanged (Projecting Input Shaft)			Flanged (Quill Type NEMA C-Face Input)			
		Gear Capacity		Style Number	Ratings			Style Number (Catalog Number)
		Output Torque In.-Lbs.	Input Hp		Motor Hp	Output Torque In.-Lbs.	Service Class *	
125	14	790	1.79	1032R-14S	1.5	662	I	F1032R-14S-B7 (GRF1432B)
					1 .75	441 330	II III	F1032R-14S-B5 (GRF1432A)
		1288	2.99	1042R-14S	3	1288	I	F1042R-14S-B9
					2 1.5	861 646	II III	F1042R-14S-B7 (GRF1442B)
		2060	4.85	1052R-14S	3	1274	II	F1052R-14S-B9 (GRF1452C)
					2	849	III	F1052R-14S-B7 (GRF1452B)
		3827	8.20	1062R-14S	7.5	3498	I	F1062R-14S-B11 (GRF1462D)
5 3	2332 1399				II III	F1062R-14S-B9 (GRF1462C)		
109	16	730	1.70	1032R-16S	1.5	644	I	F1032R-16S-B7
					1 .75	430 322	II III	F1032R-16S-B5
		1218	2.72	1042R-16S	2	895	I	F1042R-16S-B7
					1.5 1	671 448	II III	F1042R-16S-B5
		2710	5.92	1052R-16S	5	2287	I	F1052R-16S-B9
					3	1372	III	F1052R-16S-B9
		4199	9.03	1062R-16S	7.5	3054	I	F1062R-16S-B11
5 3	2323 1393				II III	F1062R-16S-B9		
97	18	864	1.50	1032R-18S	1.5	864	I	F1032R-18S-B7
					1 .75	576 432	II III	F1032R-18S-B5
		1388	2.50	1042R-18S	2	1110	I	F1042R-18S-B7
					1.5 1	832 555	II III	F1042R-18S-B5
		2162	4.21	1052R-18S	3	1540	I	F1052R-18S-B9
					2	1026	III	F1052R-18S-B7
		4208	7.10	1062R-18S	5	2962	I	F1062R-18S-B9
3	1777				III			

* Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)

For Overhung Load Ratings refer to Page 163.

†For Base / Projecting Shaft / Output Flange see How to Order Page 160.

(Catalog Numbers) denotes Stock Items

1000 Series Right Angle Helical-Worm Selection Tables

1750 RPM Input

ORDER BY STYLE NUMBER OR CATALOG NUMBER
 FOR STANDARD MOUNTING POSITIONS†

Approx. Output RPM	Ratio	Non-Flanged (Projecting Input Shaft)			Flanged (Quill Type NEMA C-Face Input)			
		Gear Capacity		Style Number	Ratings			Style Number (Catalog Number)
		Output Torque In.-Lbs.	Input Hp		Motor Hp	Output Torque In.-Lbs.	Service Class *	
87	20	860	1.43	1032R-20S	1 .75	600 451	I III	F1032R-20S-B5
		1391	2.37	1042R-20S	2 1.5	1173 880	I II	F1042R-20S-B7
					1	586	III	F1042R-20S-B5
		2345	3.90	1052R-20S	3 2 1.5	1803 1202 902	I II III	F1052R-20S-B9 F1052R-20S-B7
		4400	6.58	1062R-20S	5 3	3343 2006	I III	F1062R-20S-B9
79	22	804	1.39	1032R-22S	1 .75 .50	578 434 289	I II III	F1032R-22S-B5 (GRF2232A)
		1321	2.23	1042R-22S	2 1.5 1	1184 888 592	I II III	F1042R-22S-B7 (GRF2242B) F1042R-22S-B5 (GRF2242A)
		3086	4.90	1052R-22S	5 3 2	3086 1889 1259	I II III	F1052R-22S-B9 (GRF2252C) F1052R-22S-B7 (GRF2252B)
		4784	7.41	1062R-22S	5 3	3226 1935	II III	F1062R-22S-B9 (GRF2262C)
70	25	843	1.28	1032R-25S	1 .75 .50	658 494 329	I II III	F1032R-25S-B5
		1389	2.04	1042R-25S	2 1.5 1	1360 1020 680	I I III	F1042R-25S-B7 F1042R-25S-B5
		3177	4.62	1052R-25S	3 2	2062 1374	II III	F1052R-25S-B9 F1052R-25S-B7
		5026	6.94	1062R-25S	5 3	3620 2172	I III	F1062R-25S-B9

* Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)

For Overhung Load Ratings refer to Page 163.

†For Base / Projecting Shaft / Output Flange see How to Order Page 160.

(Catalog Numbers) denotes Stock Items

900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

1000 Series Right Angle Helical-Worm Selection Tables

1750 RPM Input

ORDER BY STYLE NUMBER OR CATALOG NUMBER
 FOR STANDARD MOUNTING POSITIONS†

Approx. Output RPM	Ratio	Non-Flanged (Projecting Input Shaft)			Flanged (Quill Type NEMA C-Face Input)			
		Gear Capacity		Style Number	Ratings			Style Number (Catalog Number)
		Output Torque In.-Lbs.	Input Hp		Motor Hp	Output Torque In.-Lbs.	Service Class *	
62	28	862	1.17	1032R-28S	1	736	I	F1032R-28S-B5
					.75	552	II	
					.50	368	III	
		1363	1.88	1042R-28S	1.5	1087	I	F1042R-28S-B7
					1	725	II	F1042R-28S-B5
		3200	4.24	1052R-28S	.75	543	III	
					3	2263	I	F1052R-28S-B9
		5290	6.49	1062R-28S	2	1508	III	F1052R-28S-B7
					5	4073	I	F1062R-28S-B9
					3	2444	III	
54	32	971	1.00	1032R-32S	1	971	I	F1032R-32S-B5 (GRF3232A)
					.75	728	II	
					.50	485	III	
		1560	1.66	1042R-32S	1.5	1409	I	F1042R-32S-B7 (GRF3242B)
					1	940	II	F1042R-32S-B5
		2813	2.98	1052R-32S	.75	705	III	(GRF3242A)
					3	2813	I	F1052R-32S-B9 (GRF3252C)
					2	1887	II	F1052R-32S-B7
					1.5	1415	III	(GRF3252B)
		5184	4.93	1062R-32S	3	3153	II	F1062R-32S-B9 (GRF3262C)
					2	2102	III	F1062R-32S-B7 (GRF3262B)
48	36	936	0.99	1032R-36S	1	936	I	F1032R-36S-B5
					.75	709	I	
					.50	472	III	
		1525	1.59	1042R-36S	1.5	1438	I	F1042R-36S-B7
					1	959	II	F1042R-36S-B5
		3262	3.59	1052R-36S	.75	719	III	
					3	2722	I	F1052R-36S-B9
					2	1816	II	F1052R-36S-B7
		5768	5.65	1062R-36S	5	5102	I	F1062R-36S-B9
					3	3061	II	
					2	2040	III	F1062R-36S-B7

* Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)

For Overhung Load Ratings refer to Page 163.

†For Base / Projecting Shaft / Output Flange see How to Order Page 160.

(Catalog Numbers) denotes Stock Items

1000 Series Right Angle Helical-Worm Selection Tables

1750 RPM Input

ORDER BY STYLE NUMBER
 FOR STANDARD MOUNTING POSITIONS†

Approx. Output RPM	Ratio	Non-Flanged (Projecting Input Shaft)			Flanged (Quill Type NEMA C-Face Input)			
		Gear Capacity		Style Number	Ratings			Style Number
		Output Torque In.-Lbs.	Input Hp		Motor Hp	Output Torque In.-Lbs.	Service Class *	
43	40	933	0.94	1032R-40S	.75	744	I	F1032R-40S-B5
					.50	746	II	
					.33	330	III	
		1527	1.51	1042R-40S	1.5	1516	I	F1042R-40S-B7 F1042R-40S-B5
					1	1010	II	
					.75	758	III	
		3453	3.28	1052R-40S	3	3156	I	F1052R-40S-B9 F1052R-40S-B7
					2	2104	II	
					1.5	1578	III	
38	45	1032	0.80	1032R-45S	.75	967	I	F1032R-45S-B5
					.50	644	II	
					.33	430	III	
		1669	1.34	1042R-45S	1	1244	I	F1042R-45S-B5
					.75	933	II	
					.50	622	III	
		3165	2.37	1052R-45S	2	2669	I	F1052R-45S-B7
					1.5	1978	II	
					1	1335	III	
		5810	3.95	1062R-45S	3	4410	I	F1062R-45S-B9 F1062R-45S-B7
					2	3407	II	
35	50	1000	0.71	1032R-50S	.50	703	I	F1032R-50S-B5
					.33	469	III	
		1616	1.19	1042R-50S	1	1354	I	F1042R-50S-B5
					.75	1015	II	
					.50	677	III	
		3248	2.24	1052R-50S	2	2899	I	F1052R-50S-B7
					1.5	2174	II	
					1	1449	III	
		5930	3.79	1062R-50S	3	4692	I	F1062R-50S-B9 F1062R-50S-B7
					2	3128	II	
					1.5	2346	III	

* Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)

For Overhung Load Ratings refer to Page 163.

†For Base / Projecting Shaft / Output Flange see How to Order Page 160.

900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

1000 Series Right Angle Helical-Worm Selection Tables

1750 RPM Input

ORDER BY STYLE NUMBER
 FOR STANDARD MOUNTING POSITIONS†

Approx. Output RPM	Ratio	Non-Flanged (Projecting Input Shaft)			Flanged (Quill Type NEMA C-Face Input)			
		Gear Capacity		Style Number	Ratings			Style Number
		Output Torque In.-Lbs.	Input Hp		Motor Hp	Output Torque In.-Lbs.	Service Class *	
43	40	933	0.94	1032R-40S	.75	744	I	F1032R-40S-B5
					.50	746	II	
					.33	330	III	
		1527	1.51	1042R-40S	1.5	1516	I	F1042R-40S-B7
					1	1010	II	F1042R-40S-B5
					.75	758	III	
		3453	3.28	1052R-40S	3	3156	I	F1052R-40S-B9
					2	2104	II	F1052R-40S-B7
					1.5	1578	III	
		6045	5.25	1062R-40S	5	5754	I	F1062R-40S-B9
					3	3453	II	
					2	2302	III	F1062R-40S-B7
38	45	1032	0.80	1032R-45S	.75	967	I	F1032R-45S-B5
					.50	644	II	
					.33	430	III	
		1669	1.34	1042R-45S	1	1244	I	F1042R-45S-B5
					.75	933	II	
					.50	622	III	
		3165	2.37	1052R-45S	2	2669	I	F1052R-45S-B7
					1.5	1978	II	
					1	1335	III	F1052R-45S-B5
		5810	3.95	1062R-45S	3	4410	I	F1062R-45S-B9
					2	3407	II	F1062R-45S-B7
35	50	1000	0.71	1032R-50S	.50	703	I	F1032R-50S-B5
					.33	469	III	
		1616	1.19	1042R-50S	1	1354	I	F1042R-50S-B5
					.75	1015	II	
					.50	677	III	
		3248	2.24	1052R-50S	2	2899	I	F1052R-50S-B7
					1.5	2174	II	
					1	1449	III	F1052R-50S-B5
		5930	3.79	1062R-50S	3	4692	I	F1062R-50S-B9
					2	3128	II	
					1.5	2346	III	F1062R-50S-B7

* Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)

For Overhung Load Ratings refer to Page 163.

†For Base / Projecting Shaft / Output Flange see How to Order Page 160.

1000 Series Right Angle Helical-Worm Selection Tables

1750 RPM Input

ORDER BY STYLE NUMBER OR CATALOG NUMBER
 FOR STANDARD MOUNTING POSITIONS†

Approx. Output RPM	Ratio	Non-Flanged (Projecting Input Shaft)			Flanged (Quill Type NEMA C-Face Input)			
		Gear Capacity		Style Number	Ratings			Style Number (Catalog Number)
		Output Torque (In-Lbs)	Input Hp		Motor Hp	Output Torque (In-Lbs)	Service Class *	
31	56	1033	0.74	1032R-56S	.75 .50 .33	1033 698 465	I II III	F1032R-56S-B5
		1670	1.18	1042R-56S	1 .75 .50	1416 1062 708	I II III	F1042R-56S-B5
		3813	2.63	1052R-56S	2 1.5	2900 2174	I II	F1052R-56S-B7
					1	1449	III	F1052R-56S-B5
		6500	4.20	1062R-56S	3	4633	I	F1062R-56S-B9
					2	3088	III	F1062R-56S-B7
		1040	0.67	1032R-63S	.50 .33	775 517	I III	F1032R-63S-B5 (GRF6332A)
		1710	1.07	1042R-63S	1 .75 .50	1597 1197 800	I II III	F1042R-63S-B5 (GRF6342A)
		3899	2.39	1052R-63S	2 1.5	3261 2446	I II	F1052R-63S-B7 (GRF6352B)
					1	1630	III	F1052R-63S-B5 (GRF6352A)
27	63	6720	3.76	1062R-63S	3 2 1.5	5360 3574 2680	I II III	F1062R-63S-B9 (GRF6362C) F1062R-63S-B7 (GRF6362B)
		1192	0.59	1032R-71S	.50 .33 .25	1009 673 505	I II III	F1032R-71S-B5
		1739	0.88	1042R-71S	.75 .50 .33	1482 950 658	I II III	F1042R-71S-B5
		3225	1.71	1052R-71S	1.5 1 .75	2828 1885 1414	I II III	F1052R-71S-B7 F1052R-71S-B5
		6645	2.94	1062R-71S	2 1.5	4520 3389	II III	F1062R-71S-B7
24	71							

* Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)
 For Overhung Load Ratings refer to Page 163.

†For Base / Projecting Shaft / Output Flange see How to Order Page 160.

(Catalog Numbers) denotes Stock Items

900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

1000 Series Right Angle Helical-Worm Selection Tables

1750 RPM Input

ORDER BY STYLE NUMBER OR CATALOG NUMBER
 FOR STANDARD MOUNTING POSITIONS†

Approx. Output RPM	Ratio	Non-Flanged (Projecting Input Shaft)			Flanged (Quill Type NEMA C-Face Input)			
		Gear Capacity		Style Number	Ratings			Style Number (Catalog Number)
		Output Torque In.-Lbs.	Input Hp		Motor Hp	Output Torque In.-Lbs.	Service Class *	
21	80	1250	0.54	1032R-80S	.50	1158	I	F1032R-80S-B5
					.33	772	II	
					.25	579	III	
		1619	0.74	1042R-80S	.75	1640	I	F1042R-80S-B5
					.50	1093	II	
					.33	729	III	
		3453	1.50	1052R-80S	1.5	3453	I	F1052R-80S-B7
					1	2368	II	F1052R-80S-B5
					.75	1776	III	
		6783	2.77	1062R-80S	2	4895	I	F1062R-80S-B7
1.5	3671				II			
1	2444				III	F1062R-80S-B5		
19	90	1187	0.57	1032R-90S	.50	1040	I	F1032R-90S-B5
					.33	693	II	
					.25	520	III	
		1934	0.91	1042R-90S	.75	1593	I	F1042R-90S-B5
					.50	1062	II	
					.33	708	III	
		4178	1.82	1052R-90S	1.5	3442	I	F1052R-90S-B7
					1	2295	II	F1052R-90S-B5
					.75	1720	III	
		7514	3.05	1062R-90S	3	7388	I	F1062R-90S-B9
					2	4925	II	F1062R-90S-B7
					1.5	3694	III	
17 (Cont.)	100	1120	0.51	1032R-100S	.50	1098	I	F1032R-100S-B5 (GRF10032A)
					.33	732	II	
					.25	549	III	
		1302	0.47	1033R-100S	.33	923	I	F1033R-100S-B5
					.25	692	II	
					.16	461	III	
		1835	0.81	1042R-100S	.75	1697	I	F1042R-100S-B5 (GRF10042A)
					.50	1132	II	
					.33	755	III	
		1700	0.63	1043R-100S	.50	1349	I	F1043R-100S-B5
					.33	900	II	
					.25	674	III	

* Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)

For Overhung Load Ratings refer to Pages 163.

†For Base / Projecting Shaft / Output Flange see How to Order Page 160.

■ Indicates Triple Reduction

(Catalog Numbers) denotes Stock Items

1000 Series Right Angle Helical-Worm Selection Tables

1750 RPM Input

ORDER BY STYLE NUMBER OR CATALOG NUMBER
 FOR STANDARD MOUNTING POSITIONS†

Approx. Output RPM	Ratio	Non-Flanged (Projecting Input Shaft)			Flanged (Quill Type NEMA C-Face Input)			
		Gear Capacity		Style Number	Ratings			Style Number (Catalog Number)
		Output Torque In.-Lbs.	Input Hp		Motor Hp	Output Torque In.-Lbs.	Service Class *	
17 (Cont.)	100	4225	1.71	1052R-100S	1.5	3704	I	F1052R-100S-B7 (GRF10052B)
					1	2469	II	F1052R-100S-B5
					.75	1852	III	(GRF10052A)
		3477	1.22	1053R-100S	1	2849	I	F1053R-100S-B5
					.75	2136	II	
					.50	1424	III	
		7539	2.87	1062R-100S	2	5252	I	F1062R-100S-B7 (GRF10062B)
					1.5	3939	III	
15	112	1360	0.44	1032R-112S	.33	1029	I	F1032R-112S-B5
					.25	772	II	
					.16	514	III	
		1412	0.48	1042R-112S	.33	980	I	F1042R-112S-B5
					.25	735	II	
					.16	490	III	
		3088	1.00	1052R-112S	1	3088	I	F1052R-112S-B5
					.75	2317	I	
					.50	1544	III	
		6574	1.97	1062R-112S	1.5	5003	I	F1062R-112S-B7
					1	3366	II	F1062R-112S-B5
					.75	2502	III	
14	118	1321	0.42	1033R-118S	.33	1048	I	F1033R-118S-B5
					.25	786	II	
					.16	524	III	
		1698	0.55	1043R-118S	.50	1543	I	F1043R-118S-B5
					.33	1029	II	
					.25	772	III	
		3436	1.07	1053R-118S	1	3210	I	F1053R-118S-B5
					.75	2407	II	
					.50	1605	III	
		7434	2.14	1063R-118S	2	6945	I	F1063R-118S-B7
					1.5	5209	II	
					1	3472	III	F1063R-118S-B5

* Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)

For Overhung Load Ratings refer to Pages 163.

†For Base / Projecting Shaft / Output Flange see How to Order Page 160.

■ Indicates Triple Reduction

(Catalog Numbers) denotes Stock Items

900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

1000 Series Right Angle Helical-Worm Selection Tables

1750 RPM Input

ORDER BY STYLE NUMBER
 FOR STANDARD MOUNTING POSITIONS†

Approx. Output RPM	Ratio	Non-Flanged (Projecting Input Shaft)			Flanged (Quill Type NEMA C-Face Input)			
		Gear Capacity		Style Number	Ratings			Style Number
		Output Torque In.-Lbs.	Input Hp		Motor Hp	Output Torque In.-Lbs.	Service Class *	
14 (Cont.)	125	1311	0.36	1032R-125S	.33	1213	I	F1032R-125S-B5
					.25	910	II	
					.16	606	III	
		1248	0.36	1042R-125S	.33	1155	I	F1042R-125S-B5
					.25	866	II	
					.16	578	III	
		2630	0.75	1052R-125S	.75	2630	I	F1052R-125S-B5
					.50	1753	II	
					.33	1167	III	
		4832	1.28	1062R-125S	1	3773	I	F1062R-125S-B5
					.75	2830	II	
					.50	1886	III	
13	132	1270	0.42	1033R-132S	.33	966	I	F1033R-132S-B5
					.25	724	II	
					.16	483	III	
		1953	0.66	1043R-132S	.50	1478	I	F1043R-132S-B5
					.33	986	III	
		4596	1.42	1053R-132S	1	3235	I	F1053R-132S-B5
					.75	2426	II	
					.50	1617	III	
		7410	2.0	1063R-132S	2	7410	I	F1063R-132S-B7
					1.5	5555	II	F1063R-132S-B5
					1.0	3703	III	
12	140	1310	0.40	1032R-140S	.33	1090	I	F1032R-140S-B5
					.25	818	II	
					.16	545	III	
		2117	0.64	1042R-140S	.50	1653	I	F1042R-140S-B5
					.33	1102	II	
					.25	826	III	
		4143	1.30	1052R-140S	1	3186	I	F1052R-140S-B5
					.75	2389	II	
					.50	1592	III	
		7520	2.02	1062R-140S	2	7448	I	F1062R-140S-B7
					1.5	5586	I	
					1	3724	III	F1062R-140S-B5

* Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)

For Overhung Load Ratings refer to Pages 163.

†For Base / Projecting Shaft / Output Flange see How to Order Page 160.

■ Indicates Triple Reduction

1000 Series Right Angle Helical-Worm Selection Tables

1750 RPM Input

ORDER BY STYLE NUMBER
 FOR STANDARD MOUNTING POSITIONS†

Approx. Output RPM	Ratio	Non-Flanged (Projecting Input Shaft)			Flanged (Quill Type NEMA C-Face Input)			
		Gear Capacity		Style Number	Ratings			Style Number
		Output Torque In.-Lbs.	Input Hp		Motor Hp	Output Torque In.-Lbs.	Service Class *	
11	150	1237	0.40	1033R-150S	.33	1030	I	F1033R-150S-B5
					.25	773	II	
					.16	515	III	
		1980	0.63	1043R-150S	.50	1570	I	F1043R-150S-B5
					.33	1047	II	
					.25	785	III	
		4604	1.35	1053R-150S	1	3409	I	F1053R-150S-B5
					.75	2557	II	
					.50	1705	III	
		7143	2.00	1063R-150S	2	7143	I	F1063R-150S-B7
					1.5	5382	I	
					1	3571	III	
10	160	1364	0.37	1032R-160S	.33	1228	I	F1032R-160S-B5
					.25	921	II	
					.16	614	III	
		2216	0.59	1042R-160S	.50	1877	I	F1042R-160S-B5
					.33	1251	II	
					.25	939	III	
		4738	1.19	1052R-160S	1	3978	I	F1052R-160S-B5
					.75	2984	II	
					.50	1989	III	
		7504	1.86	1062R-160S	1.5	6049	I	F1062R-160S-B7
					1	4033	II	
					.75	3024	III	
10	160	1320	0.33	1033R-160S	.33	1320	I	F1033R-160S-B5
					.25	1030	I	
					.16	687	II	
		1693	0.41	1043R-160S	.33	1376	I	F1043R-160S-B5
					.25	1032	II	
					.16	688	III	
		3406	0.79	1053R-160S	.75	3233	I	F1053R-160S-B5
					.50	2792	II	
					.33	1437	III	
		7431	1.51	1063R-160S	1.5	7378	I	F1063R-160S-B7
					1	4919	II	
					.75	3689	III	

* Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)

For Overhung Load Ratings refer to Pages 163.

†For Base / Projecting Shaft / Output Flange see How to Order Page 160.

■ Indicates Triple Reduction

900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

1000 Series Right Angle Helical-Worm Selection Tables

1750 RPM Input

ORDER BY STYLE NUMBER
 FOR STANDARD MOUNTING POSITIONS†

Approx. Output RPM	Ratio	Non-Flanged (Projecting Input Shaft)			Flanged (Quill Type NEMA C-Face Input)			
		Gear Capacity		Style Number	Ratings			Style Number
		Output Torque In.-Lbs.	Input Hp		Motor Hp	Output Torque In.-Lbs.	Service Class *	
9.1	180	1247	0.27	1033R-180S	.25 .16	1153 769	I II	F1033R-180S-B5
		1545	0.35	1043R-180S	.33 .25 .16	1471 1103 735	I I III	F1043R-180S-B5
		3161	0.68	1053R-180S	.50 .33	2323 1549	I III	F1053R-180S-B5
		7427	1.39	1063R-180S	1 .75 .50	5341 4006 2670	I II III	F1063R-180S-B5
		1346	0.33	1033R-200S	.33 .25 .16	1346 1085 723	I I II	F1033R-200S-B5
		2267	0.50	1043R-200S	.50 .33 .25	2264 1510 1133	I I III	F1043R-200S-B5
		5139	1.08	1053R-200S	1 .75 .50	4756 3567 2378	I II III	F1053R-200S-B5
		7443	1.49	1063R-200S	1 .75	4789 3745	II III	F1063R-200S-B5
8.2	212	1333	0.28	1032R-212S	.25 .16	1190 793	I II	F1032R-212S-B5
		2352	0.47	1042R-212S	.33 .25 .16	1667 1250 833	I II III	F1042R-212S-B5
		5021	0.97	1052R-212S	1.0 .75 .50	4860 3762 2408	I I II	F1052R-212S-B5
		7607	1.39	1062R-212S	1 .75 .50	5470 4103 2735	I II III	F1062R-212S-B5

* Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)

For Overhung Load Ratings refer to Pages 163.

†For Base / Projecting Shaft / Output Flange see How to Order Page 160.

Indicates Triple Reduction

1000 Series Right Angle Helical-Worm Selection Tables

1750 RPM Input

ORDER BY STYLE NUMBER
 FOR STANDARD MOUNTING POSITIONS†

Approx. Output RPM	Ratio	Non-Flanged (Projecting Input Shaft)			Flanged (Quill Type NEMA C-Face Input)			
		Gear Capacity		Style Number	Ratings			Style Number
		Output Torque In.-Lbs.	Input Hp		Motor Hp	Output Torque In.-lbs.	Service Class *	
7.8	225	1311	0.27	1033R-225S	.25 .16	1213 809	I II	F1033R-225S-B5
		2346	0.46	1043R-225S	.33 .25 .16	1700 1274 850	I II III	F1043R-225S-B5
		5260	0.97	1053R-225S	.75 .50 .33	4095 2803 1869	I II III	F1053R-225S-B5
		7405	1.32	1063R-225S	1 .75 .50	5608 4206 2804	I II III	F1063R-225S-B5
		1382	0.25	1032R-250S	.25 .16	1382 920	I II	F1032R-250S-B5
		2050	0.36	1042R-250S	.33 .25 .16	1898 1423 949	I II III	F1042R-250S-B5
		4566	0.75	1052R-250S	.75 .50 .33	4566 3043 2197	I II III	F1052R-250S-B5
		7676	1.25	1062R-250S	1 .75 .50	6139 4604 3069	I II III	F1062R-250S-B5
7.0	250	1297	0.20	1033R-265S	.16	1150	I	F1033R-265S-B5
		1588	0.25	1043R-265S	.25 .16	1588 1058	I II	F1043R-265S-B5
		3351	0.49	1053R-265S	.33 .25 .16	2279 1709 1139	I II III	F1053R-265S-B5
		6895	0.98	1063R-265S	.75 .50 .33	5274 3516 2344	I II III	F1063R-265S-B5
		1297	0.20	1033R-265S	.16	1150	I	F1033R-265S-B5
		1588	0.25	1043R-265S	.25 .16	1588 1058	I II	F1043R-265S-B5
		3351	0.49	1053R-265S	.33 .25 .16	2279 1709 1139	I II III	F1053R-265S-B5
		6895	0.98	1063R-265S	.75 .50 .33	5274 3516 2344	I II III	F1063R-265S-B5
6.6	265	1297	0.20	1033R-265S	.16	1150	I	F1033R-265S-B5
		1588	0.25	1043R-265S	.25 .16	1588 1058	I II	F1043R-265S-B5
		3351	0.49	1053R-265S	.33 .25 .16	2279 1709 1139	I II III	F1053R-265S-B5
		6895	0.98	1063R-265S	.75 .50 .33	5274 3516 2344	I II III	F1063R-265S-B5
		1297	0.20	1033R-265S	.16	1150	I	F1033R-265S-B5
		1588	0.25	1043R-265S	.25 .16	1588 1058	I II	F1043R-265S-B5
		3351	0.49	1053R-265S	.33 .25 .16	2279 1709 1139	I II III	F1053R-265S-B5
		6895	0.98	1063R-265S	.75 .50 .33	5274 3516 2344	I II III	F1063R-265S-B5

* Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)

For Overhung Load Ratings refer to Pages 163.

†For Base / Projecting Shaft / Output Flange see How to Order Page 160.

■ Indicates Triple Reduction

900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

1000 Series Right Angle Helical-Worm Selection Tables

1750 RPM Input

ORDER BY STYLE NUMBER
 FOR STANDARD MOUNTING POSITIONS†

Approx. Output RPM	Ratio	Non-Flanged (Projecting Input Shaft)			Flanged (Quill Type NEMA C-Face Input)			
		Gear Capacity		Style Number	Ratings			Style Number
		Output Torque In.-Lbs.	Input Hp		Motor Hp	Output Torque In.-Lbs.	Service Class *	
6.2	280	1357	0.18	1033R-280S	.16	1256	I	F1033R-280S-B5
		1590	0.23	1043R-280S	.16	1151	I	F1043R-280S-B5
		3356	0.44	1053R-280S	.33	2541	I	F1053R-280S-B5
					.25	1906	II	
					.16	1270	III	
		7671	0.88	1063R-280S	.75	6535	I	F1063R-280S-B5
					.50	4357	II	
					.33	2904	III	
5.6	315	1311	0.20	1033R-315S	.16	1092	I	F1033R-315S-B5
		2620	0.39	1043R-315S	.33	2238	I	F1043R-315S-B5
					.25	1679	II	
					.16	1119	III	
		5252	0.75	1053R-315S	.75	5252	I	F1053R-315S-B5
					.50	3595	II	
					.33	2397	III	
		7490	0.94	1063R-315S	.75	5973	I	F1063R-315S-B5
4.9	360				.50	3982	I	
					.33	2655	II	
		1177	0.18	1033R-360S	.16	1089	I	F1033R-360S-B5
		2496	0.35	1043R-360S	.33	2376	I	F1043R-360S-B5
					.25	1782	I	
					.16	1188	III	
		4862	0.63	1053R-360S	.50	3857	I	F1053R-360S-B5
					.33	2571	II	
4.4	400				.25	1928	III	
		7382	0.87	1063R-360S	.75	6361	I	F1063R-360S-B5
					.50	4240	II	
					.33	2827	III	
		1296	0.13	1033R-400S	.16	1296	I	F1033R-400S-B5
		1647	0.16	1043R-400S	.16	1647	I	F1043R-400S-B5
		3368	0.32	1053R-400S	.25	2630	I	F1053R-400S-B5
					.16	1753	II	
4.4	400	7686	0.67	1063R-400S	.50	5733	I	F1063R-400S-B5
					.33	3822	III	

* Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)

For Overhung Load Ratings refer to Pages 163.

†For Base / Projecting Shaft / Output Flange see How to Order Page 160.

■ Indicates Triple Reduction

1000 Series Right Angle Helical-Worm Selection Tables

1750 RPM Input

ORDER BY STYLE NUMBER
 FOR STANDARD MOUNTING POSITIONS†

Approx. Output RPM	Ratio	Non-Flanged (Projecting Input Shaft)			Flanged (Quill Type NEMA C-Face Input)			
		Gear Capacity		Style No.	Ratings			Style Number
		Output Torque In.-Lbs.	Input Hp		Motor Hp	Output Torque In.-Lbs.	Service Class *	
3.9	450	1279	0.11	1033R-450S	.16	1279	I	F1033R-450S-B5
		1572	0.14	1043R-450S	.16	1572	I	F1043R-450S-B5
		3305	0.28	1053R-450S	.25	2950	I	F1053R-450S-B5
		7692	0.59	1063R-450S	.16	1966	II	F1063R-450S-B5
					.50	6516	I	
.33	4344				II			
			.25	3258	III			
3.5	500	1354	0.13	1033R-500S	.16	1354	I	F1033R-500S-B5
		2647	0.25	1043R-500S	.25	2641	I	F1043R-500S-B5
		5146	0.46	1053R-500S	.33	3728	I	F1053R-500S-B5
		6913	0.62	1063R-500S	.25	2796	I	F1063R-500S-B5
					.16	1864	II	
.50	5573				I			
			.33	3715	II			
			.25	2786	III			
3.1	560	1384	0.12	1033R-560S	.16	1384	I	F1033R-560S-B5
		2745	0.23	1043R-560S	.16	1988	I	F1043R-560S-B5
		5296	0.42	1053R-560S	.33	4201	I	F1053R-560S-B5
		7200	0.55	1063R-560S	.25	3151	II	F1063R-560S-B5
					.16	2100	III	
.50	6543				I			
			.33	4362	II			
			.25	3272	III			
2.2	800	1274	0.08	1033R-800S	—	—	—	—
		2591	0.16	1043R-800S	.16	2591	I	F1043R-800S-B5
		5308	0.31	1053R-800S	.25	4279	I	F1053R-800S-B5
		7734	0.43	1063R-800S	.16	2852	II	F1063R-800S-B5
					.33	5993	I	
.25	4495				II			
			.16	2997	III			
1.9	900	1247	0.07	1033R-900S	—	—	—	—
		2494	0.14	1043R-900S	.16	2494	I	F1043R-900S-B5
		5099	0.27	1053R-900S	.25	4719	I	F1053R-900S-B5
		7659	0.38	1063R-900S	.16	3146	II	F1063R-900S-B5
					.33	6715	I	
.25	5036				II			
			.16	3358	III			

* Service Class I (S.F. = 1.00) Service Class II (S.F. = 1.50) Service III (S.F. = 2.00)

For Overhung Load Ratings refer to Pages 163.

†For Base / Projecting Shaft / Output Flange see How to Order Page 160.

■ Indicates Triple Reduction

900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

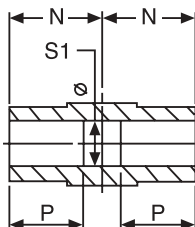
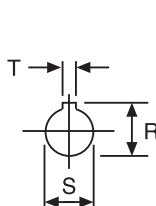
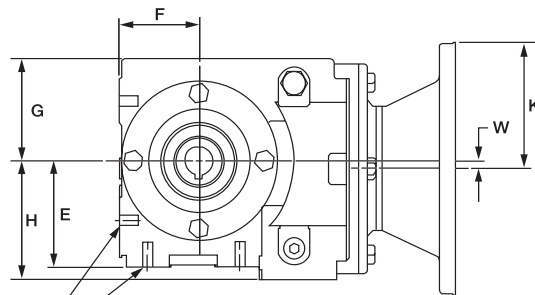
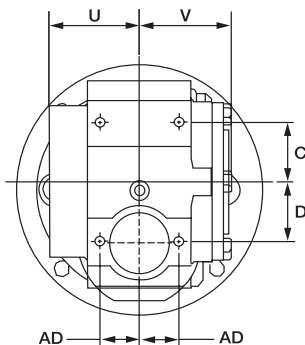
1000 Series
In-Line Helical

1000 Series
Helical-Worm

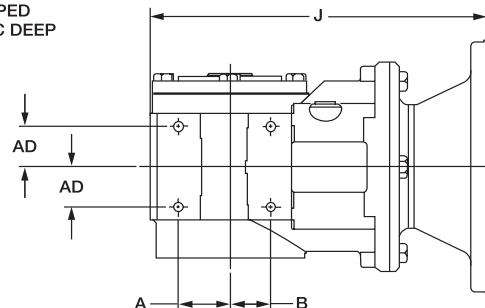
Engineering

Basic Model

1000 Series Right Angle Helical-Worm Gear Drives F1000R Series Quill Type NEMA C-Face Input – Double Reduction



(8) HOLES
TAPPED
AB X AC DEEP



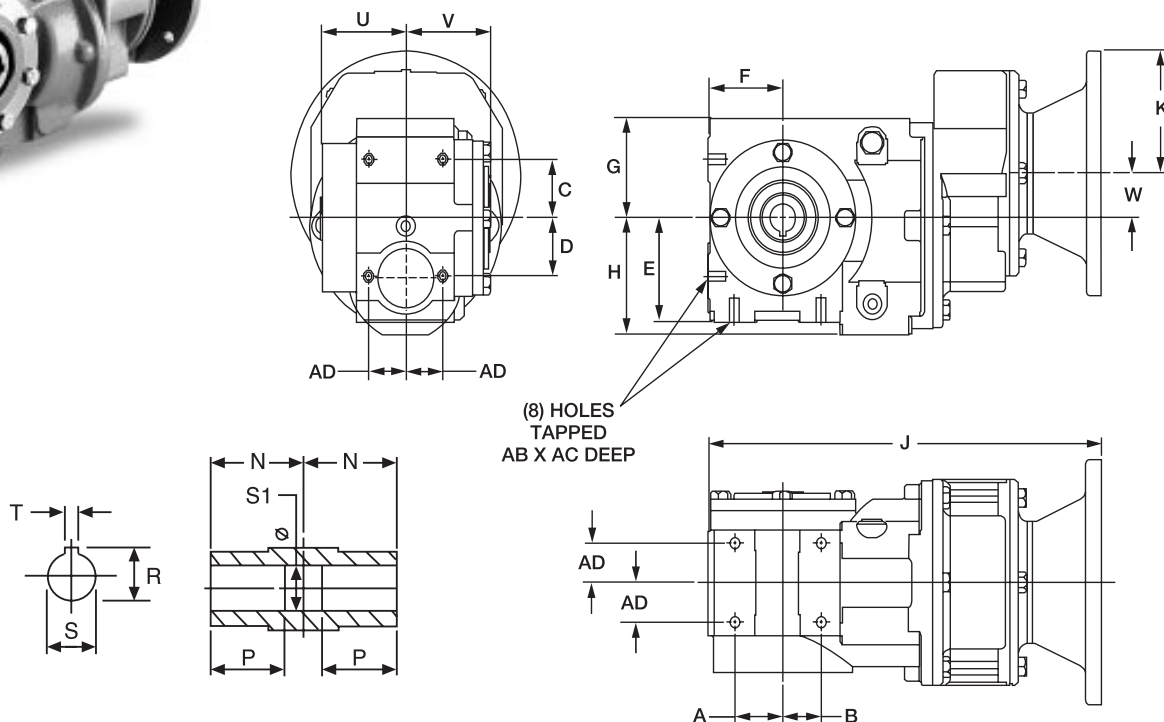
Size	A	B	C	D	E	F	G	H	J				K			
									NEMA Mounting				NEMA Mounting			
									56C	140TC	180TC	210TC	56C	140TC	180TC	210TC
									B5	B7	B9	B11	B5	B7	B9	B11
F1032R	1.38	1.10	1.57	1.57	2.80	2.13	2.68	3.13	9.04	9.04	—	—	3.31	3.31	—	—
F1042R	1.38	1.77	2.09	2.56	3.39	2.52	2.95	3.66	9.79	9.79	10.61	—	3.31	3.31	4.63	—
F1052R	1.77	2.17	2.56	3.03	3.78	2.68	3.46	4.36	10.57	10.57	11.40	—	3.31	3.31	4.63	—
F1062R	2.20	2.60	2.99	3.78	4.72	3.54	3.94	5.49	12.29	12.29	14.65	14.65	3.31	3.31	4.63	4.63

Size	N	P	R	S +.001 -.000	S1	T	U	V	W	AB	AC	AD
F1032R	2.44	1.25	.84	.7500	.76	.19	2.76	2.24	.21	5/16-18	.50	1.06
F1042R	2.56	1.25	1.37	1.250	1.26	.25	2.93	2.56	.59	3/8-16	.56	1.10
F1052R	2.76	1.38	1.53	1.375	1.39	.31	2.76	2.76	.53	3/8-16	.75	1.34
F1062R	3.54	3.00	1.67	1.500	1.51	.38	3.54	3.17	.67	7/16-14	.75	1.57

Note: Output shaft rotation, relative to input shaft rotation, is identical for double reduction and opposite for triple reduction.
Option kit dimensions on pages 186 - 187.

Basic Model

1000 Series Right Angle Helical-Worm Gear Drives F1000R Series Quill Type NEMA C-Face Input – Triple Reduction



Size	A	B	C	D	E	F	G	H	J		K	
									NEMA Mounting		NEMA Mounting	
									56C	140TC	56C	140TC
									B5	B7	B5	B7
F1033R	1.38	1.10	1.57	1.57	2.80	2.13	2.68	3.13	11.24	—	3.31	3.31
F1043R	1.38	1.77	2.09	2.56	3.39	2.52	2.95	3.66	12.00	—	3.31	3.31
F1053R	1.77	2.17	2.56	3.03	3.78	2.68	3.46	4.41	13.17	—	3.31	3.31
F1063R	2.20	2.60	2.99	3.78	4.72	3.54	3.94	5.49	16.00	16.00	3.31	3.31

Size	N	P	R	S +.001 -.000	S1	T	U	V	W	AB	AC	AD
F1033R	2.44	1.25	.84	.7500	.76	.19	2.76	2.24	1.20	5/16-18	.50	1.06
F1043R	2.56	1.25	1.37	1.250	1.26	.25	2.93	2.56	.81	3/8-16	.56	1.10
F1053R	2.76	1.35	1.47	1.375	1.39	.31	2.76	2.76	.89	3/8-16	.75	1.34
F1063R	3.54	3.00	1.62	1.500	1.51	.38	3.54	3.17	1.16	7/16-14	.75	1.57

Note: Output shaft rotation, relative to input shaft rotation, is identical for double reduction and opposite for triple reduction.
Option kit dimensions on pages 186 - 187.

 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

 1000 Series
In-Line Helical

 1000 Series
Helical-Worm

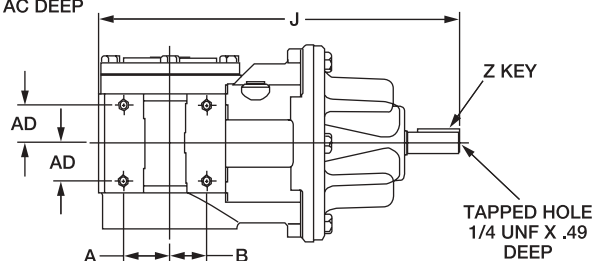
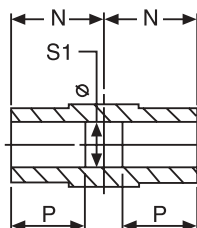
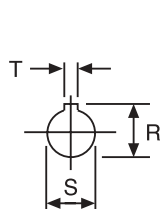
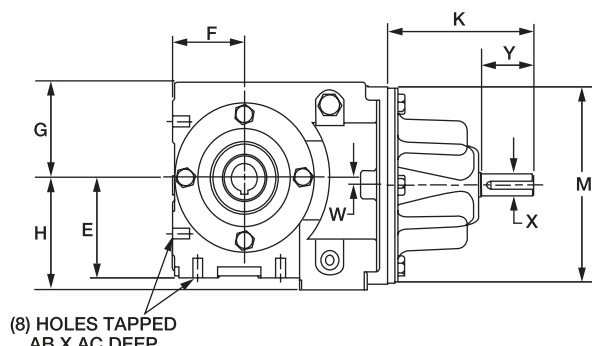
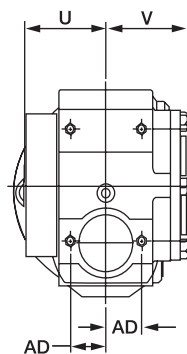
Engineering

Basic Model

1000 Series Right Angle Helical-Worm Gear Drives

1000R Series

Projecting Input Shaft – Double Reduction



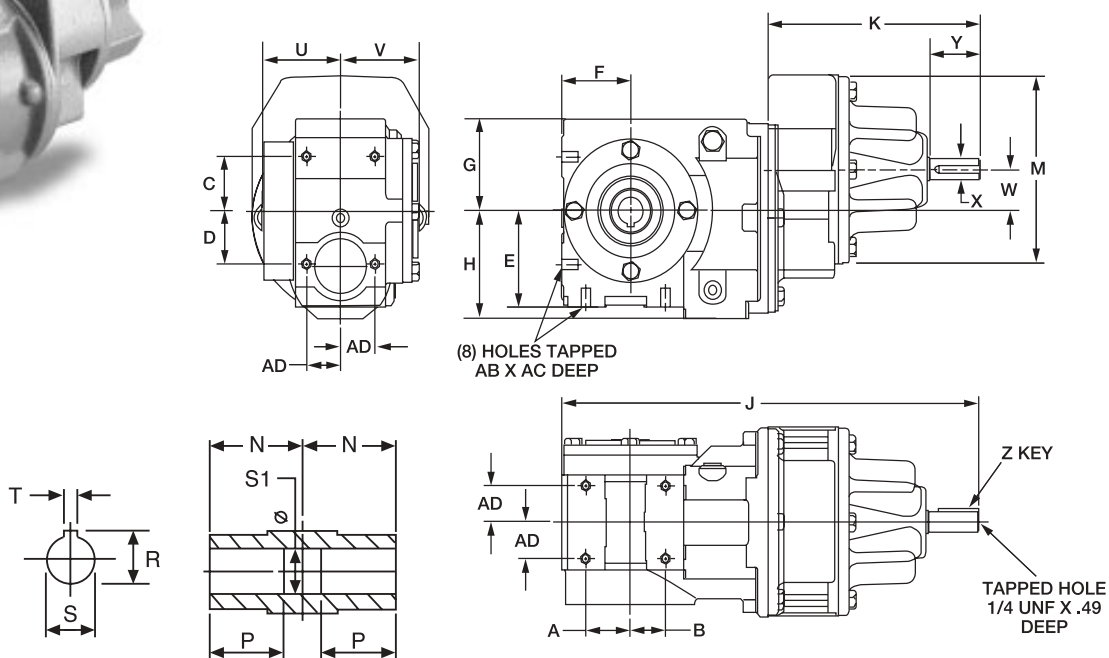
Size	A	B	C	D	E	F	G	H	J	K	M	N	P
1032R	1.38	1.10	1.57	1.57	2.80	2.13	2.68	3.13	10.79	4.37	5.51	2.44	1.25
1042R	1.38	1.77	2.09	2.56	3.39	2.52	2.95	3.66	11.54	4.37	5.51	2.56	1.25
1052R	1.77	2.17	2.56	3.03	3.78	2.68	3.46	4.36	12.32	4.37	5.51	2.76	1.38
1062R	2.20	2.60	2.99	3.78	4.72	3.54	3.94	5.49	14.57	4.37	7.09	3.54	3.00

Size	R	S +.001 -.000	S1	T	U	V	W	X +.000 -.001	Y	Z - Key		AB	AC	AD
										Sq.	Length			
1032R	.84	.7500	.76	.19	2.76	2.24	.21	.625	1.57	.19	1.28	5/16-18	.56	1.06
1042R	1.37	1.250	1.26	.25	2.93	2.56	.59	.625	1.57	.25	1.28	3/8-16	.56	1.10
1052R	1.53	1.375	1.39	.31	2.76	2.76	.53	.625	1.57	.25	1.28	3/8-16	.75	1.34
1062R	1.67	1.500	1.51	.38	3.54	3.17	.67	.750	1.57	.25	1.28	7/16-14	.75	1.57

Note: Output shaft rotation, relative to input shaft rotation, is identical for double reduction and opposite for triple reduction.
Option kit dimensions on pages 186 - 187.

Basic Model

1000 Series Right Angle Helical-Worm Gear Drives 1000R Series Projecting Input Shaft – Triple Reduction



Size	A	B	C	D	E	F	G	H	J	K	M	N	P
1033R	1.38	1.10	1.57	1.57	2.80	2.13	2.68	3.13	12.99	6.57	5.51	2.44	1.25
1043R	1.38	1.77	2.09	2.56	3.39	2.52	2.95	3.66	13.74	6.57	5.51	2.56	1.25
1053R	1.77	2.17	2.56	3.03	3.78	2.68	3.46	4.36	14.53	6.57	5.51	2.76	1.38
1063R	2.20	2.60	2.99	3.78	4.72	3.54	3.94	5.49	17.17	6.97	5.51	3.54	2.00

Size	R	S +.001 -.000	S1	T	U	V	W	X +.000 -.001	Y	Z - Key		AB	AC	AD
										Sq.	Length			
1033R	.84	.7500	.76	.19	2.76	2.24	1.20	.625	1.57	.19	1.28	5/16-18	.59	1.06
1043R	1.37	1.250	1.26	.25	2.93	2.56	.89	.625	1.57	.25	1.28	3/8-16	.79	1.10
1053R	1.53	1.375	1.39	.31	2.76	2.76	.89	.625	1.57	.25	1.28	3/8-16	.79	1.34
1063R	1.67	1.500	1.51	.38	3.54	3.17	1.16	.625	1.57	.25	1.28	7/16-14	.79	1.57

Note: Output shaft rotation, relative to input shaft rotation, is identical for double reduction and opposite for triple reduction.
Option kit dimensions on pages 186 - 187.

 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

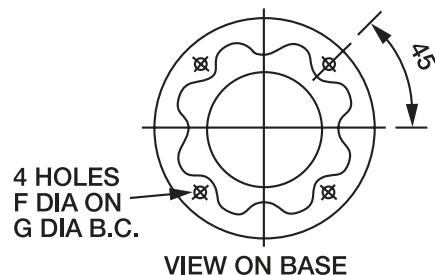
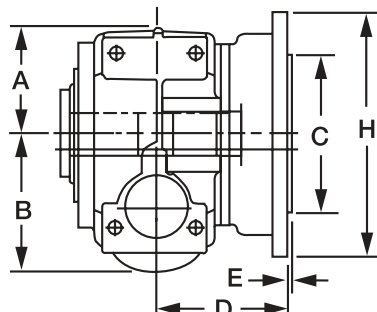
 1000 Series
In-Line Helical

 1000 Series
Helical-Worm

Engineering

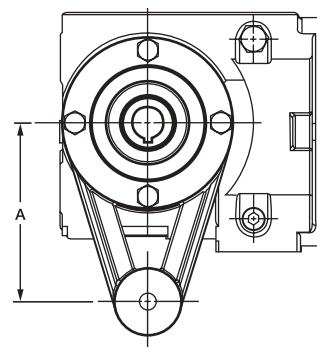
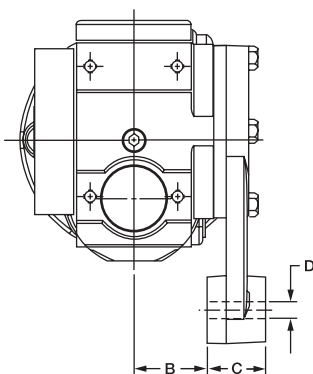
1000 Series Right Angle Helical-Worm Gear Drives Accessories

Output Flange Kits



Size	A	B	C	D	E	F	G	H	Catalog Number
1032R 1033R	2.68	3.13	4.3312 4.3304	2.96	.16	.35	5.13	6.33	FL1030VK
1042R 1043R	2.95	3.66	4.3312 4.3304	3.37	.16	.35	5.12	6.31	FL1040VK
1052R 1053R	3.46	4.36	5.1187 5.1177	4.21	.14	.43	6.50	7.89	FL1050VK
1062R 1063R	3.94	5.50	5.1187 5.1177	4.73	.14	.43	6.50	7.91	FL1060VK

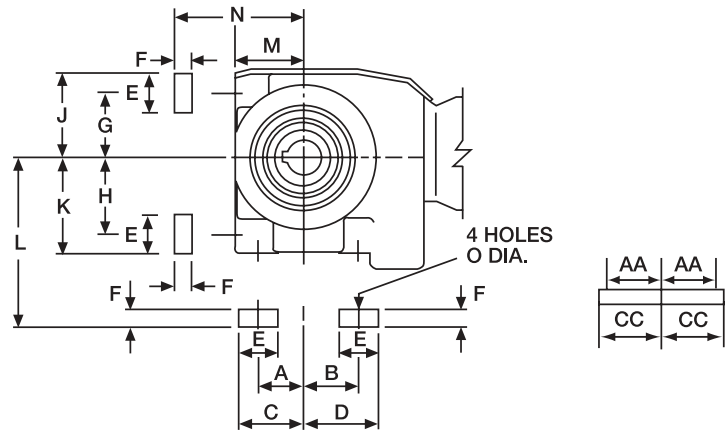
Torque Arm Kits



Size	A	B	C	D	Catalog Number
1032R 1033R	4.33	1.78	1.42	.42	TA1030VK
1042R 1043R	5.12	2.12	1.42	.42	TA1040VK
1052R 1053R	6.30	1.92	1.42	.42	TA1050VK
1062R 1063R	7.87	2.91	1.73	.66	TA1060VK

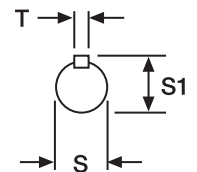
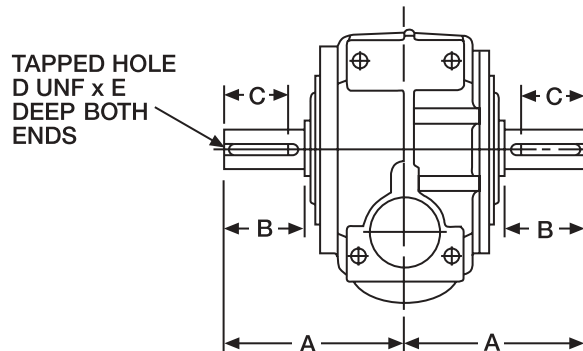
1000 Series Right Angle Helical-Worm Gear Drives Accessories

Base Kits



Size	A	B	C	D	E	F	G	H	J	K	L	M	N	O	AA	CC	Catalog Number
1032R 1033R	1.38	1.10	1.85	1.61	.98	.35	1.57	1.57	2.07	2.07	3.15	2.13	2.48	.35	1.77	2.17	B1030H71
1042R 1043R	1.38	1.77	2.09	2.44	1.38	.55	2.09	2.56	2.78	3.25	3.94	2.52	3.07	.43	1.97	2.44	B1040H71
1052R 1053R	1.77	2.17	2.56	2.95	1.57	.63	2.56	3.03	3.35	3.82	4.41	2.68	3.31	.43	2.17	2.68	B1050H71
1062R 1063R	2.36	2.76	3.19	3.58	1.97	.79	3.15	3.94	3.98	4.76	5.51	3.54	4.33	.55	2.56	3.15	B1060H71

Output Shaft Kits



Size	A	B	C	D	E	S +.000 -.001	S1	T	Catalog Number	
									Single Projection	Double Projection
1032R 1033R	3.94	1.38	1.28	1/4	.63	.750	.83	.19	SH1030S	SH1030D
1042R 1043R	4.53	1.81	1.69	1/4	.63	1.000	1.10	.25	SH1040S	SH1040D
1052R 1053R	5.28	2.36	2.12	1/4	.87	1.250	1.36	.25	SH1050S	SH1050D
1062R 1063R	6.30	2.48	2.34	1/2	1.12	1.375	1.51	1.51	SH1060S	SH1060D

900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

Engineering

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900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

1000 Series
Helical-Worm

Engineering

Engineering Information

Speed Reducer Nomenclature

AGMA

The American Gear Manufacturers Association (AGMA) is composed of member companies who manufacture speed reducers, enclosed gear drives, open gearing, and gear type shaft couplings, and an equally large number of technical members (domestic and foreign) who use these products or supply tools, machines, or other products to the gear industry. Together, they establish standards to help standardize the design and application of gear products. The work done by AGMA over the years has greatly advanced the quality and standardization of gearing. The combined experience of company members and technical members assures gear users that products built, selected, and applied in accordance with AGMA standards will perform well.

AXIAL MOVEMENT

Endwise movement of input or output shafts, sometimes called endplay, is usually expressed in thousands of an inch.

BACK-DRIVING

This is the converse of self-locking. Depending upon ratio and many variables, it is difficult to predict the back-driving capability. Worm gear reducers are not intended to be used as speed increasers. Consult factory for back-driving applications.

BACKLASH

Rotational movement of the output shaft when holding the input shaft stationary and rotating the output shaft alternately clockwise and counter clockwise. Backlash may be expressed in thousands of an inch measured at a specific radius at the output shaft.

CENTER DISTANCE

The distance between the center lines of the input and output shafts. The center distance of multiple stage reducers usually refers to the lowest speed stage (last reduction).

EFFICIENCY

Efficiency is the ratio of output power to input power. It is usually stated as a percentage.

Example:

$$\text{Input HP} = 2$$

$$\text{Output HP} = 1.6$$

$$(1.6 \div 2) \times 100 = 80\% \text{ Efficiency}$$

INPUT HORSEPOWER

The amount of power applied to the input shaft of a reducer by the prime mover is its input horsepower. It is often used as a selection basis for power transmission components, and it appears in the rating tables of drive manufacturer's published data. Remember that input horsepower ratings represent the maximum amount of power that the reducer can safely handle.

OUTPUT HORSEPOWER

The amount of power available at the output shaft of a reducer is its output horsepower. Due to losses caused by inefficiency, output horsepower is always less than input horsepower.

MECHANICAL RATING

The maximum power or torque that a speed reducer can transmit, based on the strength and durability of its components, is its mechanical rating. Obviously, the reducer may be rated no higher than the strength or durability of its weakest component. Reducers typically have a safety margin of two to three on their mechanical ratings. Thus, a reducer can withstand momentary overloads of 200-300% of its mechanical rating during a startup or other brief overload situation.

MOUNTING POSITION

The relationship of the input and output shafts relative to the floor line is the mounting position.

OVERHUNG LOAD

The input or the output shaft of a speed reducer can be subject of an overhung load; that is, to a force applied at right angles to the shaft, beyond its outermost bearing. Such a force is a shaft bending load resulting from a gear, pulley, sprocket or other external drive member. Besides the tendency to bend the shaft, the overhung load (that is, the radial force on the shaft) is reacted to by the shaft in its bearings. Therefore, the overhung load creates loads that the bearings must be able to support without damage.

PRIME MOVER

The machine that provides power to a drive is its prime mover. The most frequently encountered prime movers include electric motors, internal combustion engines, hydraulic motors and air motors. The type of prime mover used can affect the speed reducer during operation. For example, an electric motor runs relatively smoothly in comparison to an internal combustion engine.

Engineering Information

Speed Reducer Nomenclature (cont.)

RATIO

The ratio of a drive is based on the relationship of its input shaft speed to its output shaft speed. It is commonly expressed as a proportion.

SELF-LOCKING ABILITY

Self-locking ability is the ability to hold a load at rest. Baldor does not guarantee its worm reducers to be self locking. A brake or other device should be used to hold the load.

SERVICE FACTORS

Numbers which modify the loads which must be considered in selecting a speed reducer are called service factors. They vary with the type of service in which the reducer is to be used, the kind of prime mover involved and the duty cycle. The service factor can be a multiplier applied to the known load, which redefines the load in accordance with the conditions at which the drive will be used. Or it can be a divisor applied to catalog reducer ratings, thus redefining the rating in accordance with drive conditions. The service factor is usually applied to the speed reducer, but can also be applied to the nameplate rating of the prime mover.

THERMAL RATING

The maximum horsepower or torque that a speed reducer can transmit continuously, based on its ability to dissipate heat generated by friction, is called its thermal rating.

THRUST LOAD

Force imposed on a shaft parallel to the shaft axis is called a thrust load. It is often encountered on shafts driving mixers, fans, blowers and similar machines. When a thrust load acts on a speed reducer, you must be sure that the thrust load rating of the reducer is high enough that its shafts and bearings can absorb the load.

TORQUE

A twisting effort exerted around an axis is called torque. It is the product of a force and its distance from the axis around which the force acts.

Engineering Information

Formulae and Constants

$$\text{Torque (In.-Lbs.)} = \text{Force (Lbs.)} \times \text{Radius (In.)}$$

$$\text{Torque (In.-Lbs.)} = \frac{63025 \times \text{HP}}{\text{RPM}}$$

$$\text{Torque (Ft.-Lbs.)} = \frac{5252 \times \text{HP}}{\text{RPM}}$$

$$\text{HP (Linear)} \times \frac{\text{Lbs. (Force or Tension)} \times \text{FPM}}{33,000}$$

$$\text{HP (Rotational)} = \frac{\text{Torque (Ft.-Lbs.)} \times \text{RPM}}{5252}$$

$$\text{HP (Rotational)} = \frac{\text{Torque (In.-Lbs.)} \times \text{RPM}}{63,025}$$

$$\text{HP (Pumps)} = \frac{\text{GPM} \times \text{Head (Ft.)} \times \text{Specific Gravity}}{3960 \times \text{Eff.}}$$

$$\text{HP (Fans)} = \frac{\text{CFM} \times \text{Pressure (Lb./Sq. Ft.)}}{33,000 \times \text{Eff.}}$$

$$\text{Working Load or Chain Pull} = \frac{33,000 \times \text{Design HP}}{\text{Chain Speed (FPM)}}$$

$$\text{Working Load or Chain Pull} = \frac{\text{Design HP} \times 396,000}{\text{Chain Pitch (In.)} \times \text{No. of Teeth} \times \text{RPM}}$$

$$\text{Overhung Load (Lbs.)} = \frac{126,000 \times \text{HP} \times K}{\text{Pitch Dia. (In.)} \times \text{RPM}}$$

Where K =

1.00 Chain
1.25 Gears
1.50 V-Belts
2.50 Flat Belts
3.50 Variable Speed Belts

$$\text{Surface FPM} = \text{Diameter (Ft.)} \times 3.14 \times \text{RPM}$$

$$\text{Efficiency} = \frac{\text{Output HP}}{\text{Input HP}} \times 100$$

$$\text{Ratio} = \frac{\text{Input Speed}}{\text{Output Speed}}$$

GENERAL INFORMATION (Approximation)

All Values At 100% Load	At 1800 rpm, a motor develops 36 lb.-in. per HP
	At 1200 rpm, a motor develops 54 lb.-in. per HP
	At 575 volts, a 3-phase motor draws 1 amp per HP
	At 460 volts, a 3-phase motor draws 1.25 amp per HP
	At 230 volts, a 3-phase motor draws 2.5 amp per HP
	At 230 volts, a single-phase motor draws 5 amp per HP
	At 115 volts, a single-phase motor draws 10 amp per HP

Unit of Measure	Metric Measure	Conversion to Metric Factor	Metric to Std. (USA) Measure	
lb. ft.	kg. wt-m	0.13825	7.233035	Torque
lb. ft.	nt-m	1.35582	0.73757	Torque

TORQUE TO ACCELERATE A REVOLVING BODY

$$\text{Torque (Lbs. Ft.)} = \frac{WR^2 N}{307 \times t}$$

$$WR^2 = \text{inertia}$$

$$N = \text{change in rpm}$$

$$t = \text{time of acceleration in seconds}$$

Inertia of a solid cylinder about its axis

$$WR^2 = \frac{\text{Weight (Lbs.)} \times [\text{Radius (Ft.)}]^2}{2}$$

Inertia of a hollow cylinder about its axis

$$WR^2 = \frac{\text{Wt. (Lbs.)} \times [(\text{Outer Rad. in Ft.})^2 - (\text{Inner Rad. in Ft.})^2]}{2}$$

CONVERTING LINEAR TO ROTATIONAL INERTIA

$$\text{Equivalent } WR^2 = \frac{W}{39.48} \left(\frac{V}{N} \right)^2$$

W = Weight in pounds (lbs.)

V = Linear Velocity in feet per min. (fpm) = .262 x Dia. (in.) x RPM

N = Motor speed in rpm when load is moving at velocity V

EQUIVALENT WR^2 FOR BELTED OR GEARED LOADS

$$\text{Equivalent (at Motor Shaft)} \quad WR^2 = WR^2_{(\text{load})} \left(\frac{N_{\text{load}}}{N_{\text{motor}}} \right)^2$$

$$WR^2_{\text{load}} = \text{Actual } WR^2_{(\text{load})}$$

$$N_{\text{load}} = \text{Full Speed of Load (rpm)}$$

$$N_{\text{motor}} = \text{Full Speed of Motor (rpm)}$$

MISCELLANEOUS CONSTANTS

Gravitation Const. -g = Acceleration due to gravity = 32.16 feet per second per second.

Power 1 horsepower = 746 watts = 33,000 ft. lbs. per minute

Mech. equiv. heat One BTU = .2928 watt hours one kilowatt = 56.88 BTU per minute

Atmospheric Pressure 14.7 lbs. 1 square inch = 30 inches of mercury at 62°F

Pi (π) 3.1416 ratio circumference to diameter of circle

Base of Natural Logarithms 2.71828

Radian 57°17'44" = 57.296 deg.

Engineering Information

AGMA Service Factors and Load Classifications

Application	Recommended Service Factors		
	Up to 3 Hrs/Day	3 - 10 Hrs/Day	Over 10 Hrs/Day
AGITATORS (Mixers)			
Pure Liquids	—	1.00	1.25
Liquids & Solids	1.00	1.25	1.50
Liquids - Variable Density	1.00	1.25	1.50
BLOWERS			
Centrifugal	1.00	1.25	—
Lobe	1.00	1.25	1.50
Vane	—	1.00	1.25
BREWING & DISTILLING			
Bottling Machinery	—	1.00	1.25
Brew Kettles (Continuous Duty)	—	1.00	1.25
Cookers (Continuous Duty)	—	1.00	1.25
Mush Tubs (Continuous Duty)	—	1.00	1.25
Scale Hopper (Frequent Starts)	1.00	1.25	1.50
CAN FILLING MACHINES	—	1.00	1.25
CAR DUMPERS	1.25	1.50	1.75
CAR PULLERS	1.00	1.25	1.50
CLARIFIERS	—	1.00	1.25
CLASSIFIERS	1.00	1.25	1.50
CLAY WORKING MACHINERY			
Brick Press	1.25	1.50	1.75
Briquette Machine	1.25	1.50	1.75
Pug Mill	1.00	1.25	1.50
COMPACTORS	1.50	1.75	2.00
COMPRESSORS			
Centrifugal	—	1.00	1.25
Lobe	1.00	1.25	1.50
Reciprocating, Multi - Cylinder	1.00	1.25	1.50
Reciprocating, Single - Cylinder	1.25	1.50	1.75
CONVEYORS - GENERAL PURPOSE			
Uniformly loaded or fed	—	1.00	1.25
Not uniformly fed	1.00	1.25	1.50
Reciprocating or Shaker	1.25	1.50	1.75
CRANES			
Dry Dock			
Main Hoist	1.25	1.50	1.75
Auxiliary Hoist	1.25	1.50	1.75
Boom Hoist	1.25	1.50	1.75
Slewing Drive	1.25	1.50	1.75
Traction Drive	1.50	1.50	1.50
Container			
Main Hoist		*	
Boom Hoist		*	
Trolley Travel		*	
Gantry Drive		*	
Traction Drive		*	
Mill Duty			
Main Hoist		*	
Auxiliary		*	
Bridge and Trolley Travel		*	

Application	Recommended Service Factors		
	Up to 3 Hrs/Day	3 - 10 Hrs/Day	Over 10 Hrs/Day
CRANES (Cont.)			
Industrial Duty			
Main	1.00	1.25	1.50
Auxiliary		*	
Bridge and Trolley Travel		*	
CRUSHER			
Stone or Ore	1.50	1.75	2.00
DREDGES			
Cable Reels	1.00	1.25	1.50
Conveyors	1.00	1.25	1.50
Cutter Head Drives	1.25	1.50	1.75
Pumps	1.00	1.25	1.50
Screen Drives	1.25	1.50	1.75
Stackers	1.00	1.25	1.50
Winches	1.00	1.25	1.50
ELEVATORS			
Bucket	1.00	1.25	1.50
Centrifugal Discharge	—	1.00	1.25
Escalators		*	
Freight		*	
Gravity Discharge	—	1.00	1.25
EXTRUDERS			
General	1.25	1.25	1.25
Plastics			
(a) Variable Speed Drive	1.50	1.50	1.50
(b) Fixed Speed Drive	1.75	1.75	1.75
Rubber			
(a) Continuous Screw Operation	1.50	1.50	1.50
(b) Intermittent Screw Operation	1.75	1.75	1.75
FANS			
Centrifugal	—	1.00	1.25
Cooling Towers		*	
Forced Draft	1.25	1.25	1.25
Induced Draft	1.00	1.25	1.50
Industrial & Mine	1.00	1.25	1.50
FEEDERS			
Apron	—	1.25	1.50
Belt	1.00	1.25	1.50
Disc	—	1.00	1.25
Reciprocating	1.25	1.50	1.75
Screw	1.00	1.25	1.50
FOOD INDUSTRY			
Cereal Cooker	—	1.00	1.25
Dough Maker	1.00	1.25	1.50
Meat Grinder	1.00	1.25	1.50
Slicers	1.00	1.25	1.50
GENERATORS & EXCITERS	—	1.00	1.25
HAMMER MILLS	1.50	1.50	1.75
HOISTS			
Heavy Duty	1.25	1.50	1.75
Medium Duty	1.00	1.25	1.50
Skip Hoist	1.00	1.25	1.50

* Refer to company

 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

 1000 Series
In-Line Helical

 1000 Series
Helical-Worm

Engineering

Engineering Information

AGMA Service Factors and Load Classifications

Application	Recommended Service Factors		
	Up to 3 Hrs/Day	3 - 10 Hrs/Day	Over 10 Hrs/Day
LAUNDRY TUMBLERS	1.00	1.25	1.50
LAUNDRY WASHERS	1.25	1.25	1.50
LUMBER INDUSTRY			
Barkers - Spindle Feed	1.25	1.25	1.50
- Main Drive	1.50	1.50	1.50
Conveyors - Burner	1.25	1.25	1.50
- Main or Heavy Duty	1.50	1.50	1.50
- Main Log	1.50	1.50	1.75
- Re-Saw, Merry-Go-Round	1.25	1.25	1.50
- Slab	1.50	1.50	1.75
- Transfer	1.25	1.25	1.50
Chains - Floor	1.50	1.50	1.50
- Green	1.50	1.50	1.50
Cut-Off Saws - Chain	1.50	1.50	1.50
- Drag	1.50	1.50	1.50
Debarking Drums	1.50	1.50	1.75
Feeds - Edger	1.25	1.25	1.50
- Gang	1.50	1.50	1.50
- Trimmer	1.25	1.25	1.50
Log Deck	1.50	1.50	1.50
Log Hauls - Incline - Well Type	1.50	1.50	1.50
Log Turning Devices	1.50	1.50	1.50
Planer Feed	1.25	1.25	1.50
Planer Tilting Hoist	1.50	1.50	1.50
Rolls - Live, Off Brg., Roll Cases	1.50	1.50	1.50
Sorting Table	1.25	1.25	1.50
Tipple Hoist	1.25	1.25	1.50
Transfers - Chain	1.50	1.50	1.50
- Craneway	1.50	1.50	1.50
Tray Drives	1.25	1.25	1.50
Veneer Lathe Drives		*	
METAL MILLS			
Draw Bench Carriage & Main Drive	1.00	1.25	1.50
Run Out Tables			
Non-Reversing			
Group Drives	1.00	1.25	1.50
Individual Drives	1.50	1.50	1.75
Reversing	1.50	1.50	1.75
Slab Pushers	1.25	1.25	1.50
Shears	1.50	1.50	1.75
Wire Drawing	1.00	1.25	1.50
Wire Winding Machine	1.00	1.25	1.50
METAL STRIP PROCESSING MACHINERY			
Bridles	1.25	1.25	1.50
Coilers & Uncoilers	1.00	1.00	1.25
Edge Trimmers	1.00	1.25	1.50
Flatteners	1.00	1.25	1.50
Loopers (Accumulators)	1.00	1.00	1.00
Pinch Rolls	1.00	1.25	1.50
Scrap Choppers	1.00	1.25	1.50
Shears	1.50	1.50	1.75
Slitters	1.00	1.25	1.50
MILLS, ROTARY TYPE			
Bell & Rod			
Spur Ring Gear	1.50	1.50	1.75
Helical Ring Gear	1.50	1.50	1.50

Application	Recommended Service Factors		
	Up to 3 Hrs/Day	3 - 10 Hrs/Day	Over 10 Hrs/Day
MILLS, ROTARY TYPE (Cont.)			
Direct Connected	1.50	1.50	1.75
Cement Kilns	1.50	1.50	1.50
Dryers & Coolers	1.50	1.50	1.50
MIXERS, CONCRETE	1.00	1.25	1.50
PAPER MILLS			
Agitator (Mixer)	1.50	1.50	1.50
Agitator for Pure Liquids	1.25	1.25	1.25
Barker Drums	1.75	1.75	1.75
Barker - Mechanical	1.75	1.75	1.75
Beater	1.50	1.50	1.50
Breaker Stack	1.25	1.25	1.25
Calender (Anti-Friction Bearings Only)	1.25	1.25	1.25
Chipper	1.75	1.75	1.75
Chip Feeder	1.50	1.50	1.50
Coating Rolls	1.25	1.25	1.25
Conveyors			
Chip, Bark, Chemical	1.25	1.25	1.25
Log (Including Slab)	1.75	1.75	1.75
Couch Rolls	1.25	1.25	1.25
Cutter	1.75	1.75	1.75
Cylinder Molds	1.25	1.25	1.25
Dryers (Anti-Friction Bearings Only)			
Paper Machine	1.25	1.25	1.25
Conveyor Type	1.25	1.25	1.25
Embosses	1.25	1.25	1.25
Extruder	1.50	1.50	1.50
Fourdrinier Rolls (Includes Lump Breaker, Dandy Roll, Wire Turning & Return Rolls)	1.25	1.25	1.25
Jordan	1.25	1.25	1.25
Kiln Drive	1.50	1.50	1.50
Mt. Hope Rolls	1.25	1.25	1.25
Paper Rolls	1.25	1.25	1.25
Platter	1.50	1.50	1.50
Pressers - Felt & Suction	1.25	1.25	1.25
Pulper	1.50	1.50	1.75
Pumps - Vacuum	1.50	1.50	1.50
Reel (Surface Type)	1.25	1.25	1.50
Screens			
Chip	1.50	1.50	1.50
Rotary	1.50	1.50	1.50
Vibrating	1.75	1.75	1.75
Size Press	1.25	1.25	1.25
Super Calender	1.25	1.25	1.25
Thickener (AC Motor)	1.50	1.50	1.50
(DC Motor)	1.25	1.25	1.25
Washer (AC Motor)	1.50	1.50	1.50
(DC Motor)	1.25	1.25	1.25
Wind & Unwind Stand	1.00	1.00	1.00
Winders (Surface Type)	1.25	1.25	1.25
Yankee Dryers (Anti-Friction Bearings Only)	1.25	1.25	1.25
PLASTICS INDUSTRY - PRIMARY PROCESSING			
Intensive Internal Mixers	1.75	1.75	1.75
(a) Batch Mixers	1.50	1.50	1.50

* Refer to company

Engineering Information

AGMA Service Factors and Load Classifications

Application	Recommended Service Factors		
	Up to 3 Hrs/Day	3 - 10 Hrs/Day	Over 10 Hrs/Day
PLASTICS INDUSTRY - PRIMARY PROCESSING (Cont.)			
(b) Continuous Mixers	1.50	1.50	1.50
Batch Drop Mill - 2 Smooth Rolls	1.25	1.25	1.25
Continuous Feed, Holding & Blend Mill	1.25	1.25	1.25
Compounding Mills	1.25	1.25	1.25
Calenders	1.50	1.50	1.50
PLASTICS INDUSTRY - SECONDARY PROCESSING			
Blow Molders	1.50	1.50	1.50
Coating	1.25	1.25	1.25
Film	1.25	1.25	1.25
Pipe	1.25	1.25	1.25
Pre-Plasticizers	1.50	1.50	1.50
Rods	1.25	1.25	1.25
Sheet	1.25	1.25	1.25
Tubing	1.25	1.25	1.50
PULLERS - BARGE HAUL PUMPS	1.00	1.50	1.75
Centrifugal	—	1.00	1.25
Proportioning	1.00	1.25	1.50
Reciprocating			
Single Acting,			
3 or more cylinders	1.00	1.25	1.50
Double Acting,			
2 or more cylinders	1.00	1.25	1.50
Rotary - Gear Type	—	1.00	1.50
- Lobe	—	1.00	1.25
- Vane	—	1.00	1.25
RUBBER INDUSTRY			
Intensive Internal Mixers			
(a) Batch Mixers	1.50	1.75	1.75
(b) Continuous Mixers	1.25	1.50	1.50
Mixing Mill			
2 Smooth Rolls (if corrugated rolls are used, than the same service factors that are used for a Cracker Warmer)	1.50	1.50	1.50
Batch Drop Mill - 2 Smooth Rolls	1.50	1.50	1.50
Cracker Warmer - 2 Rolls;			
1 corrugated roll	1.75	1.75	1.75
Cracker - 2 corrugated rolls	1.75	1.75	1.75

Application	Recommended Service Factors		
	Up to 3 Hrs/Day	3 - 10 Hrs/Day	Over 10 Hrs/Day
RUBBER INDUSTRY (Cont.)			
Holding, Feed & Blend Mill			
- 2 Rolls	1.25	1.25	1.25
Refiner - 2 Rolls	1.50	1.50	1.50
Calenders	1.50	1.50	1.50
SAND MILLER	1.00	1.25	1.50
SEWAGE DISPOSAL EQUIPMENT			
Bar Screens	—	1.00	1.25
Chemical Feeders	—	1.00	1.25
Dewatering Screens	1.00	1.25	1.50
Scum Breakers	1.00	1.25	1.50
Slow or Rapid Mixers	1.00	1.25	1.50
Sludge Collectors	1.00	1.00	1.25
Thickeners	1.00	1.25	1.50
Vacuum Filters	1.00	1.25	1.50
SCREENS			
Air Washing	—	1.00	1.25
Rotary - Stone or Gravel	1.00	1.25	1.50
Traveling Water Intake	—	1.00	1.25
SUGAR INDUSTRY			
Beet Slicer	1.50	1.50	1.75
Cane Knives	1.50	1.50	1.50
Crushers	1.50	1.50	1.50
Mills (Low Speed End)	1.50	1.50	1.50
TEXTILE INDUSTRY			
Batchers	1.00	1.25	1.50
Calenders	1.00	1.25	1.50
Cards	1.00	1.25	1.50
Dry Cans	1.00	1.25	1.50
Dryers	1.00	1.25	1.50
Dyeing Machinery	1.00	1.25	1.50
Looms	1.00	1.25	1.50
Mangles	1.00	1.25	1.50
Nappers	1.00	1.25	1.50
Pads	1.00	1.25	1.50
Slashers	1.00	1.25	1.50
Soapers	1.00	1.25	1.50
Spinners	1.00	1.25	1.50
Tenter Frames	1.00	1.25	1.50
Washers	1.00	1.25	1.50
Winders	1.00	1.25	1.50

* Refer to company

CONVERSION FACTORS FOR INTERNAL COMBUSTION ENGINE DRIVERS		
Electric Motor Drive	Multi-Cylinder Internal Combustion Engine	Single-Cylinder Internal Combustion Engine
1.00	1.25	1.50
1.25	1.50	1.75
1.50	1.75	2.00
1.75	2.00	2.25
2.00	2.25	2.50

The applications and service factors are in accordance with the current AGMA Standard 6034-E87. This list is not all-inclusive and each application should be checked to determine if any unusual operating conditions will be encountered.

 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

 1000 Series
In-Line Helical

 1000 Series
Helical-Worm

Engineering

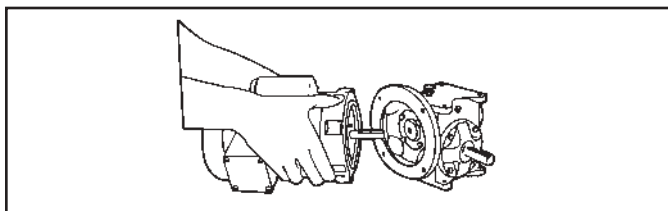
Baldor 900, Universal Series Worm Gear Reducer and Ratio Multiplier

Mounting and Installation Instruction

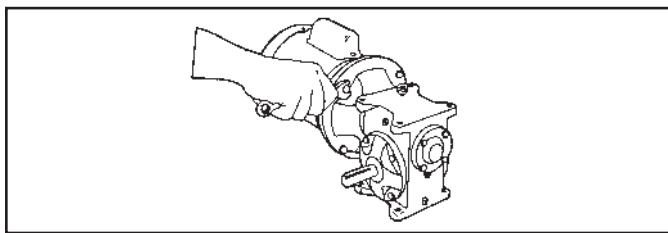
MOTOR MOUNTING INSTRUCTIONS

Quill Design

1. Position key in reducer worm bore. Apply anti-seize compound to the motor shaft. Line up the key with the keyslot and slip the motor shaft into the reducer worm bore.



2. Tighten the supplied 4 bolts with lockwashers evenly for a solid fit between motor and "C" flange.



Flexible Coupling Input

STEP #1. Mount one coupling half on motor shaft so that coupling half and end of key are flush with end of motor shaft. (See Drawing A)

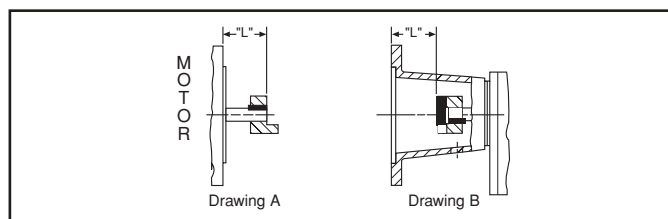
STEP #2. Tighten coupling setscrews. Thread locking compound is recommended on all coupling setscrews. Measure distance from inner face of coupling to motor mounting surface. (See Drawing A)

STEP #3. Mount other coupling half on the reducer input shaft so the coupling end measures the same distance to the mounting surface of the "C" flange. (See Drawing B) Tighten setscrews. Key should be flush with shaft end. Use pipe plug opening in side of "C" flange to loosen, tighten or make any adjustments in coupling position.

STEP #4. Align coupling halves and install motor.

STEP #5. Rotate motor to require position and tighten the supplied four bolts and lockwashers evenly for a solid fit between motor and "C" flange. Re-install and tighten the pipe plug in the flange access hole.

Follow the lubrication directions.



INSTALLATION

Careful adherence to the following installation suggestions will help you get maximum service and life from your Baldor Reducer.

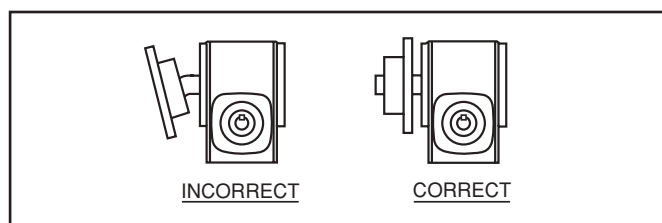
Baldor Reducer shipments contain oil. Fill the reducer to the proper level with the supplied or recommended lubricant. (See the lubrication information section on next page for specific recommendations.)

ALIGNMENT – When installing Baldor Reducers, care should be taken to align input and output shafts vertically and horizontally with connecting shafts. A flat and even mounting surface will help prevent uneven base hole bolt pressures. Flexible couplings will help compensate for minor variations in shaft alignment.

C-Flanged reducers with hollow worm bore require attention to be sure that the key has maximum contact in the keyslots of both the input worm bore and the motor shaft. When mounting the motor to the reducer, the key should be inserted in the keyslot of the worm bore, not in the keyslot of the motor shaft.

Bolts and lockwashers for fastening the motor to the reducer are supplied with all Baldor C-Flanged Reducers and should be tightened securely and evenly to help avoid misalignment.

When mounting a sprocket, gear, or sheave, etc., on a reducer shaft, mount the working face as close to the reducer housing as possible. The gear or sprocket hub should be nearer the end of the shaft as shown in the illustration. Be careful not to damage the reducer oil seal when mounting the sprocket, gear, or sheave.



Installing in this manner reduces the load on the shaft and increases bearing life.

To reduce unnecessary load and obtain maximum reducer and component life, driving and driven sprockets or sheaves should be properly aligned with their mates and all shafts parallel. Gears should be mounted on shafts at the proper center to center distance.

Baldor 900 Series Worm Gear Reducer Installation, Maintenance and Lubrication

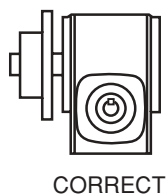
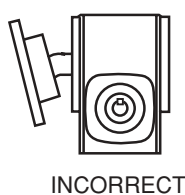
Baldor 900 Series reducers achieve maximum performance and life when installed properly. Please follow these instructions carefully.

INSTALLATION

Baldor 900 Series reducers filled with Kluber Klubersynth UH1-6-460 synthetic lubricant are ready for immediate use. These reducers are completely sealed and require no breather vents. The design and synthetic lubrication allow efficient operation to reduce operating temperature and minimize internal pressure build up. The reducer has been filled with the correct amount of oil for all approved mounting positions. Do not add or remove any oil during installation or after the break-in period.

Mount the reducer on a flat surface, to assure proper bolt tension and prevent damage to the mounting base. When direct coupling the reducer to the driven machine, carefully align the reducer output shaft to the input shaft of the driven machine. These shafts must be connected with a flexible coupling.

Power transmission components, such as sprockets, gears, or sheaves, mounted on the reducer shafts produce overhung loads. Mount these components as close as possible to the reducer with the hub facing outward. This mounting minimizes the load on the reducer shaft and bearings for increased life. Carefully align these components with their counterparts on the driven machine.



MAINTENANCE

Baldor 900 Series reducers require no periodic maintenance. Visual inspection (for oil leakage and general operating condition) and a simple cleaning to remove dirt build up is recommended.

Accumulation of material on the reducer can lead to overheating and reduced life.

LUBRICATION

Klubersynth UH1-6-460 is suitable for USDA Class H1 environments. This synthetic lubrication does not require periodic changing. The lubrication should only be replaced when maintenance is performed that requires disassembly. Use only Klubersynth UH1-6-460. This lubrication is suitable for a wide temperature range (-13° to 320° F). However, refer to “**Operating Environment**” section for the ambient operating temperature for Baldor 900 Series speed reducers.

A packet of Fel-Pro C5-A Anti-Seize Lubricant is supplied with the reducer. Lubricate the motor shaft and key with the anti-seize lubricant before installing the motor onto the reducer.

MOUNTING POSITIONS

For maximum seal life, the reducer should be mounted with the input shaft as high as possible. ***Mounting the reducer with the input seal vertically down is not recommended.*** If a vertically down input shaft position is required, consult the factory.

OPERATING ENVIRONMENT

Baldor Reducers are designed to operate in ambient temperatures of -10°F to 100°F. The oil sump temperature of the reducer must not exceed 200°F. Consult the factory for applications requiring ambient operating temperature outside this range.

The input horsepower rating shown on the nameplate of each Baldor 900 Series speed reducer is the continuous mechanical rating of 1.0 service factor at 1750 RPM. Before placing the reducer into service, confirm that its horsepower rating is consistent with the motor horsepower and desired service factor.

IMPORTANT NOTE: Baldor speed reducers built prior to June, 2004, have a bladder system. The bladder system was designed specifically for SHC (synthetic hydro carbon) oils and is not compatible with Klubersynth UH1-6-460. the bladder must be removed and housing port plugged when re-filling with Klubersynth UH1-6-460. See instructions on page 198.

Baldor 900 Series Worm Gear Reducer Polyglycol Retro-Fill Instructions

IMPORTANT NOTE: Polyglycol oil is not compatible with the bladder material, and may cause degradation and failure of the expansion bladder. The bladder must be removed and the housing port plugged using the included hardware.

DISASSEMBLY AND BLADDER REMOVAL

1. Drain the oil from the reducer.
2. Wrap output shaft with electrical tape to prevent damage to the seal lip.
3. Remove the bolts holding the side covers.
4. Remove the gear shaft assembly and side covers, taking care not to damage the shim gaskets.
Be sure to keep the shims with the cover on which they are installed. Failure to do so will result in improper positioning of the gear.
5. Remove the nut and sealing washer holding the bladder in place.
6. Remove and discard the nylon bladder support arch (if present) and bladder.
Note: It is not necessary to remove the worm shaft.
7. Thoroughly clean and flush all parts.
8. Remove the red bladder warning sticker.

PLUG INSTALLATION AND RE-ASSEMBLY

1. Insert 1/4-20 screw through the housing port from the inside.
2. Install sealing washer & nut, and tighten firmly.
3. Re-assemble the reducer making sure to keep the shims with their proper side cover. *Failure to do so will result in improper positioning of the gear.*
4. Tighten the bolts in an alternating pattern.
5. Refill with the appropriate quantity of polyglycol oil from the table below.

Note: In most cases, the kit contains more oil than is required. Discard any remaining oil.

Frame	Qty.	Kit Number	Frame	Qty.	Kit Number
913	7 oz	MJ0007A01SP	926	32 oz	MJ0007A04SP
915	11 oz	MJ0007A02SP	930	53 oz	MJ0007A05SP
918	16 oz	MJ0007A03SP	932	68 oz	MJ0007A06SP
921	20 oz	MJ0007A03SP	938	93 oz	MJ0007A07SP
924	28 oz	MJ0007A04SP			

6. Place the yellow Klubersynth UH-1 6-460 sticker on the reducer in a conspicuous location.

Baldor 900 Series Worm Gear Speed Reducers

Double Reduction Adapter Kits Assembly Instructions

1. REMOVING PRIMARY UNIT OUTPUT BEARING CARRIER

- The unit is filled with oil. Follow these instructions to avoid spilling the oil.
- Place the primary unit on its side with the output shaft pointing vertically upward.
- Remove the bearing carrier screws and retain for re-assembly.
- Remove the bearing carrier and shims taking care not to damage the bearing cone which is located on the output shaft.

2. INSTALLING THE DOUBLE REDUCTION ADAPTER

- Care must be taken not to damage the seal in the adapter during installation. cover the output shaft keyway of the primary unit with electrical tape to prevent the seal from being cut.
- Lubricate the lip of the seal in the adapter and the output shaft of the primary unit.

The installation of the adapter requires adjustment for proper endplay of the tapered roller bearings. The output bearings must be adjusted for .001" to .003" endplay. Place the adapter on the primary unit in place of the bearing carrier. Apply pressure to the adapter and rotate the input shaft to seat the bearings. Measure the gap between the primary housing and adapter with a feeler gage. New shims are supplied with the unit. Select a combination of shims totaling .001" to .003" more than the measured gap. Shim thicknesses are .003" (green), .005" (blue), and .010" (brown).

- Remove the adapter. Apply sealant to the mating surfaces of the adapter and the primary unit.
- Install and tighten the original screws securely. Remove the tape.

3. CONNECTING THE PRIMARY UNIT TO THE SECONDARY

- Remove and discard the motor adapter mounting screws and motor adapter from the secondary unit.
- Install the key provided with the primary unit into the primary unit output shaft.
- Coat the primary unit output shaft with anti-seize compound provided with the secondary unit.
- Install the primary unit output shaft into the quill of the secondary unit.
- Rotate the primary unit to the desired position.
- Using the four screws provided with the adapter kit, join the primary unit to the secondary.

*See page 78 for Kit Part Numbers.

Baldor Universal Series Worm Gear Reducer Maintenance and Lubrication

LUBRICATION

Your Baldor Reducer will last longer if the following lubrication schedule and suggestions are followed.

Universal Series Reducers manufactured after September 1, 1995 are shipped with Mobil SHC 634 oil. This premium oil allows longer intervals between changes. Under normal conditions it is recommended that initial oil change be made after 2000 hours. After the initial change drain and refill with Mobil SHC 634 every 5000 hours or 12 months, whichever comes first.

Ambient Temp.	Recommended Oil	Viscosity Range SUS @ 100°F	Lubricant AGMA No.
-30° to 225°F *	Mobil SHC 634 Synthetic	1950/2150	—
25° F to 80°F	Mobil 600W Cylinder Oil	1920/3200	7 or 7C
70°F to 125°F	Mobil Extra Hecla Super Cylinder Oil	2850/3600	8 or 8C

* Mobil SHC 634 is suitable for temperatures higher than 225°F. However, special seals may be required.

FILL your reducer to the proper level by removing the oil level pipe plug and pouring lube in the vent/fill pipe plug hole until it starts to flow out the level hole. Stop pouring and replace the oil level pipe plug and the vent/fill plug.

See following drawings for proper vent/fill plug location.

VENT PLUGS supplied in attached bag prevent a build up of internal pressure in a continuously operating reducer. An installation that runs for approximately 15 minutes per hour or less may not require venting.

FILLING DOUBLE REDUCTION REDUCERS

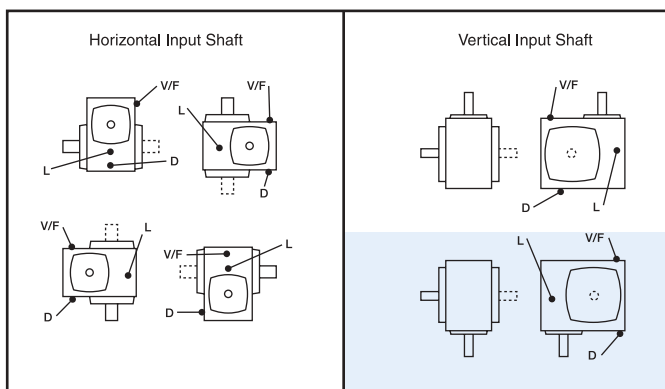
Universal Series Double reduction reducers have two oil levels. When filling, place the reducer in the correct operating/mounting position, and fill each housing to the required level. Both housings need to be vented. Install a vent plug at the uppermost location in each housing. Two vent plugs are supplied.

VENT/FILL, LEVEL AND DRAIN PLUG LOCATIONS

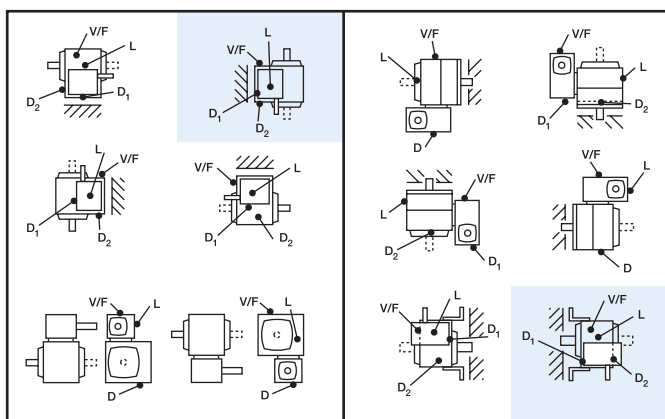
Baldor's Universal Reducers are drilled and tapped for pipe plugs in several locations so you can use any reducer in several choices of mounting positions.

The mounting positions shown below can be used by moving the vent/fill pipe plug to the location shown as "V/F" on the sketch of your required position. "L" & "D" are always solid, unvented pipe plugs.

SINGLE REDUCTION MODELS



DOUBLE REDUCTION MODELS



NOTE: For optimum performance use mounting positions shown in unshaded areas. For applications requiring shaded mountings, refer to factory.

Ratio Multiplier

Installation, Lubrication and Operation Instruction

These instructions must be read thoroughly before installing or operating speed reducers. File instructions for future reference.

CAUTION

- For safe operation of any gear drive, all rotating shafts and auxiliary components must be shielded to conform with applicable safety standards. You must consider overall operational system safety at all times.
- When using a speed reducer to raise or lower a load, such as in hoisting applications, provision must be made for external braking. Under no conditions should a speed reducer be considered self-locking.
- Mounting of speed reducers in overhead positions may be hazardous. Use of external guides or supports is strongly recommended for overhead mounting.

GENERAL INSTRUCTIONS

Align all shafts accurately. Improper alignment can result in failure. Use of flexible coupling is recommended to compensate for slight misalignment.

Auxiliary drive components (such as sprockets, gears and pulleys) should be mounted on the shafts as close as possible to the housing to minimize effects of overhung loads. Avoid force fits that might damage bearings or gears.

Gear drives are nameplated for 1750 RPM Input Speed and Class I Service. For lower Input Speeds and other Service Classes, consult the factory.

INSTALLATION

Baldor Ratio Multipliers are ready for installation as removed from the carton. They incorporate an internal expansion chamber (Bladder), which eliminates the traditional requirement for a breather. Each Ratio Multiplier has been filled with mobil SHC634 Synthetic lubricant at the factory, the oil quality is sufficient for any mounting position.

MOUNTING POSITION

For maximum seal life, the Ratio Multiplier should be mounted with the input shaft as high as possible. **Mounting the Ratio Multiplier with the input seal vertically down is not recommended.** If a vertically down input shaft position is required, consult the factory.

LUBRICATION

Oil changes are not required. Oil should only be replaced when maintenance is preformed that requires disassembly. If the oil is replaced, use Mobil SHC634.

Recommender* Lubricant	Ambient Temperature	ISO Viscosity Grade No.
* Mobil SHC634	-30° to 225°F	230/460
Mobil 600W cylinder oil	40° to 90°F	460
Mobil Extra helical super cylinder oil	80° to 125°F	680

Satisfactory performance may be obtained with non-synthetic oils and will require more frequent changes.

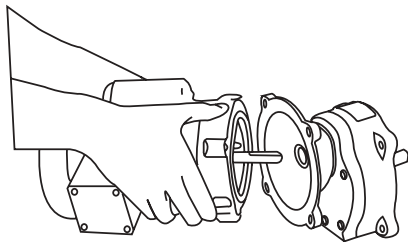
A packet of Fel-Pro C5-A Anti-Seize Lubricant is supplied with the Ratio Multiplier. Lubricate the motor shaft and key with the anti-seize lubricant before installing the motor onto the Ratio Multiplier. (Oil capacity in fluid ounces **RM1** 4 oz, **RM2** 8 oz.

OPERATING ENVIRONMENT

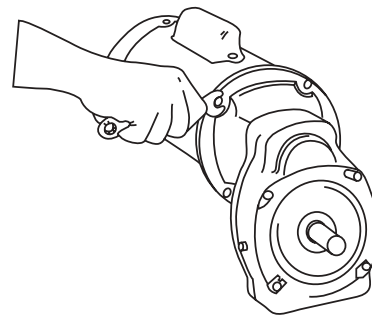
Baldor Ratio Multipliers are designed to operate in ambient temperatures of -10°F to 100°F. The oil sump temperatures of the Ratio Multiplier must not exceed 200°F. Consult the factory for applications requiring ambient operating temperature outside this range.

"C" FLANGE – HOLLOW BORE WORM STYLE:

STEP #1. Position key in Ratio Multiplier Input Bore. Apply anti-seize compound to the motor shaft. Line up the key with the keyslot and slip the motor shaft into the Ratio Multiplier Input Bore.



STEP 2. Tighten the supplied 4 bolts with lockwashers evenly for a solid fit between motor and "C" flange.



EXTENDED "C" FLANGE WITH FLEXIBLE COUPLING STYLE:

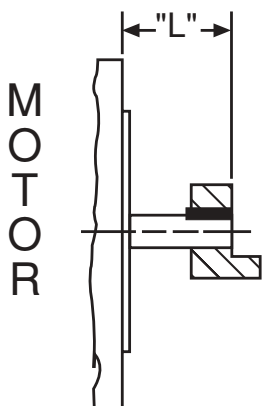
STEP #1: Mount one coupling half on motor shaft so that the coupling half and end of key are flush with end of motor shaft. (See Drawing A)

STEP #2: Tighten coupling setscrews. Thread locking compound is recommended on all coupling setscrews. Measure distance from inner face of coupling to motor mounting surface. (See Drawing A)

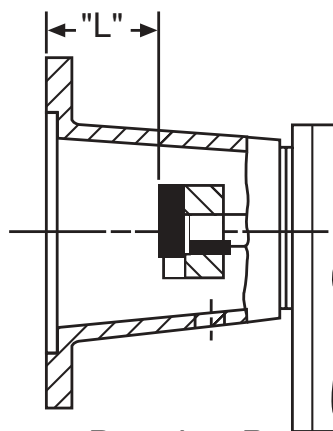
STEP #3: Mount other coupling half on the reducer input shaft so the coupling end measures the same distance to the mounting surface of the "C" flange. (See Drawing B) Tighten setscrews. Key should be flush with shaft end. Use pipe plug opening in side of "C" flange to loosen, tighten or make any adjustments in coupling position.

STEP #4: Align coupling halves and install motor.

STEP #5: Rotate motor to required position and tighten the supplied four bolts and lockwashers evenly for a solid fit between motor and "C" flange. Re-install and tighten the pipe plug in the flange access hole.



Drawing A



Drawing B

1000 Series

(Enclosed In-Line Helical Gear and Right Angle Helical-Worm Gear Drives) Installation, Lubrication and Operation Instruction

These instructions must be read thoroughly before installing or operating speed reducers. File instructions for future reference.

CAUTION

- For safe operation of any gear drive, all rotating shafts and auxiliary components must be shielded to conform with applicable safety standards. You must consider overall operational system safety at all times.
- When using a speed reducer to raise or lower a load, such as in hoisting applications, provision must be made for external braking. Under no conditions should a speed reducer be considered self-locking.
- Mounting of speed reducers in overhead positions may be hazardous. Use of external guides or supports is strongly recommended for overhead mounting.

GENERAL INSTRUCTIONS

- Align all shafts accurately. Improper alignment can result in failure. Use of flexible couplings is recommended to compensate for slight misalignment.
- When mounting, use maximum possible bolt size and secure reducer to a rigid foundation. Periodic inspection of all bolts is recommended.
- Arrange the drain and breather plug per your mounting position as indicated on the reverse side. The breather plug should also be located in the fill position. Sizes 1032/1033, 1032R/1033R and 1042/1043, 1042R/1043R Do not require venting.
- Auxiliary drive components (such as sprockets, gears and pulleys) should be mounted on the shafts as close as possible to the housing to minimize effects of overhung loads. Avoid force fits that might damage bearings or gears.
- Gear drives are nameplated for 1750 RPM Input Speed and Class I Service. For lower Input Speeds and other Service class, refer to catalog rating information.
- Input Speeds shown in catalog rating tables are for speed reducing applications. This does not represent the maximum speed. Since speed limitation is based on pitch line velocity and varies with size and ratio.

LUBRICANT AND QUANTITY

Synthetic SHC634 is recommended for the 1000 Series reducers and at all times, the lubricant must remain free from contamination. During the initial break-in of the gear reducer, higher than normal operating temperatures may result.

All speed reducers are supplied filled with SCH634

synthetic oil and with the quality listed below for standard mounting position M1 or M8 or to mounting specified at time of order. Refer to chart below for other than standard mountings.

- Sizes 1032/1033, 1032R/1033R and 1042/1043, 1042R/1043R are lubricated for life. No venting required.
- Sizes 1062/1063, 1062R/1063R and 1072/1073, 1072R/1073R will require an oil change after 20,000 hours of operation. More frequent changes may be required when operating in high temperatures ranges or unusually contaminated environments.
- Satisfactory performance may be obtained with non-synthetic oils and will require more frequent changes.

Recommended Lubricant	Ambient Temperature	ISO Viscosity Grade No.
Mobile SHC634	-30° to 225°F	320/460
Mobile D.T.E. Oil Extra Heavy	50° to 125°F	710/790

OIL CAPACITIES (Quarts)

In-Line Helical

Unit Size	Mounting Positions						
	M1 & M2	M3 & M4	M5	M6	M7	M8	M9
Foot Mounted				Output Flange Mounted			
1032	.63	.84	.84	1.05	.63	.84	1.05
1033	.84	1.05	1.80	1.60	.84	1.80	1.60
1042	.63	1.20	1.50	1.70	.63	1.50	1.70
1043	.95	1.40	2.20	2.20	.95	2.40	2.20
1062	1.30	2.30	3.00	3.40	1.30	3.00	3.40
1063	1.90	2.70	5.00	5.00	1.90	5.00	5.00
1072	2.60	4.80	6.30	7.10	2.60	6.30	7.10
1073	3.00	5.90	9.50	9.50	3.00	10.80	9.50

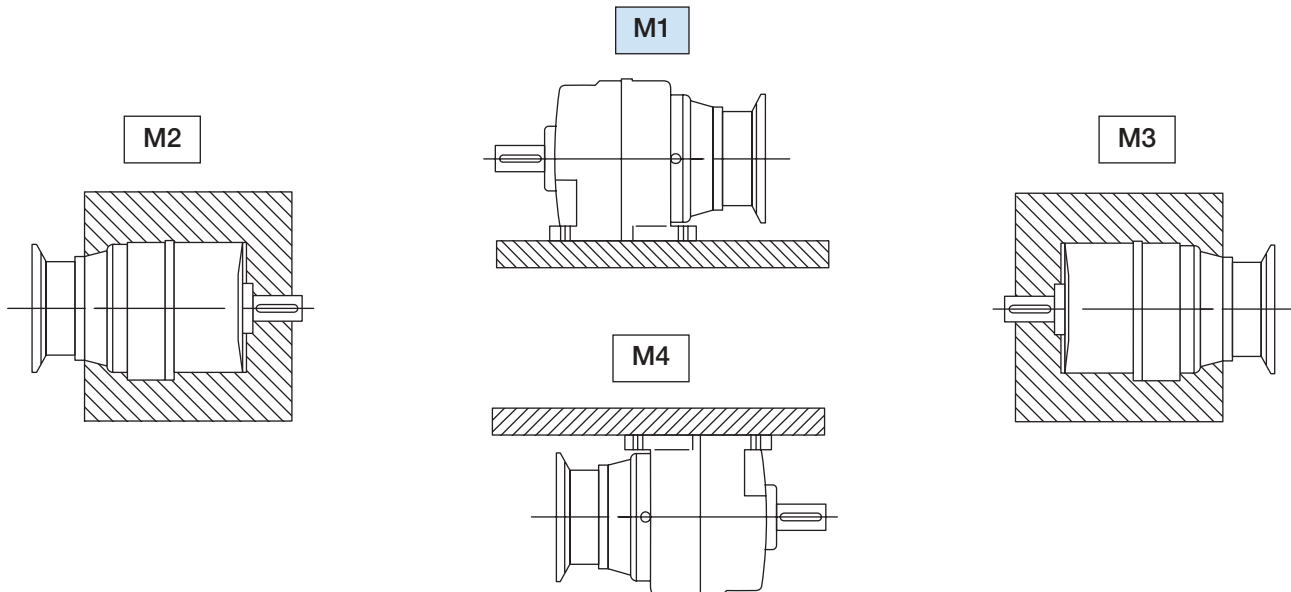
Right Angle Helical/Worm

Unit Size	Mounting Positions					
	M1	M2	M3	M4	M5	M6
1032R	.31	.63	.63	.84	.63	1.0
1033R	.42	.95	.84	1.4	1.0	1.6
1042R	.42	.84	.73	1.0	.84	1.4
1043R	.52	1.0	.95	1.8	1.4	1.9
1052R	.73	1.2	1.2	1.7	1.5	2.0
1053R	.95	1.4	1.6	2.2	2.1	2.5
1062R	1.6	2.6	2.4	3.5	3.1	4.6
1063R	1.7	2.7	2.7	4.4	4.8	5.5

1000 Series In-Line Helical Mounting Positions

FOOT MOUNTED HORIZONTAL

STANDARD

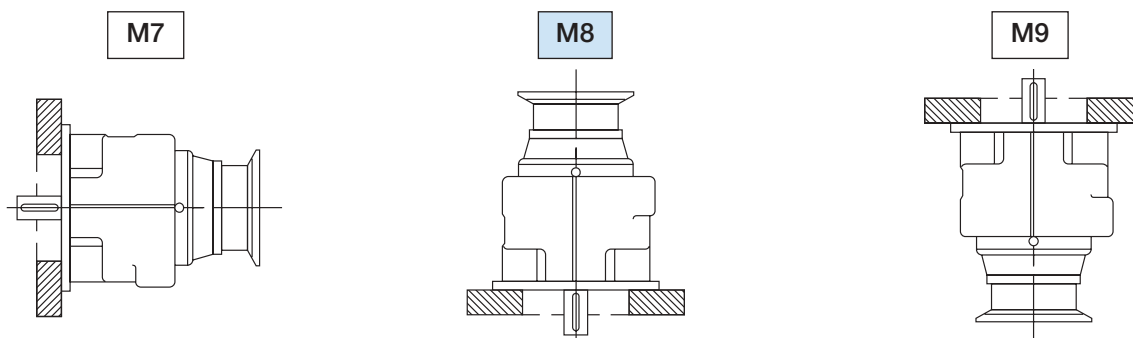


FOOT MOUNTED VERTICAL



OUTPUT FLANGE MOUNTED

STANDARD



Positions M1 & M8 are standard and will be supplied with oil for this position unless otherwise specified.

CAUTION: Mounting of gear drives in overhead positions may be hazardous. Use of external guides or supports is strongly recommended for overhead mounting.

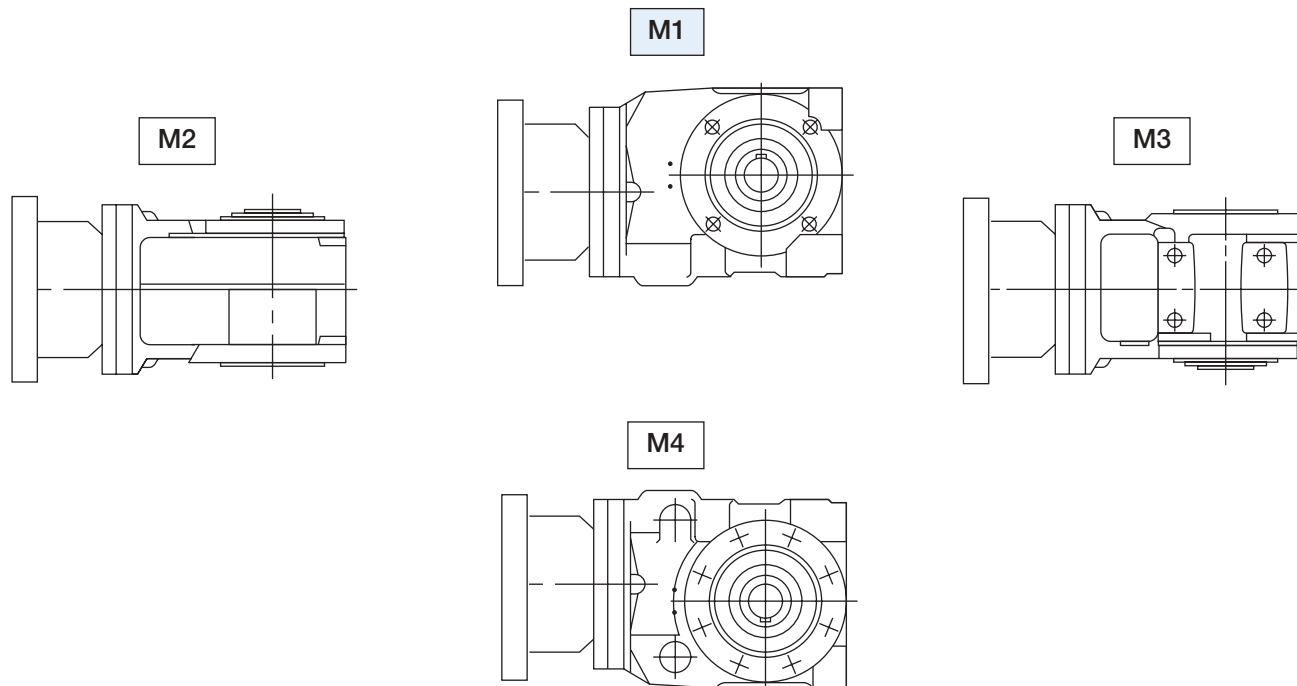
Avoiding those positions where the high speed oil seal is immersed in oil will provide greater security against high speed input seal wear.

NOTE: The above drawings will serve to represent both flanged and non-flanged styles.

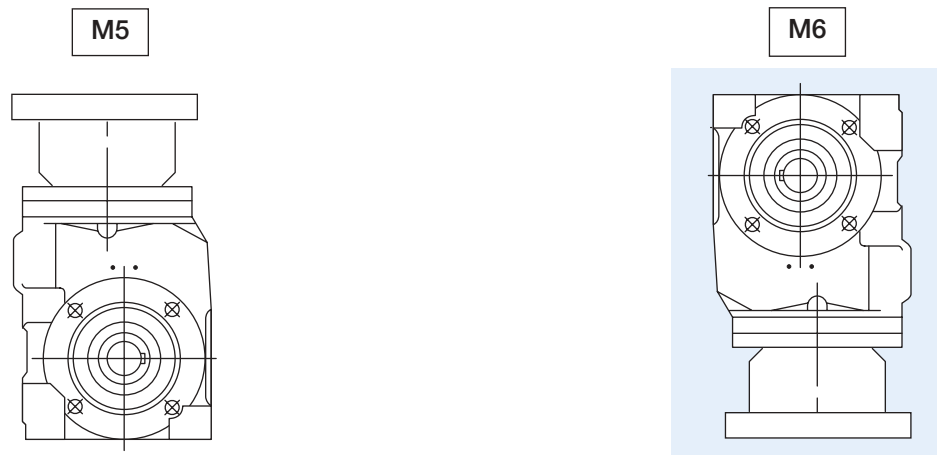
1000 Series In-Line Helical-Worm Gear Drives

HORIZONTAL MOUNTINGS

STANDARD



VERTICAL MOUNTINGS



Positions M1 is standard and will be supplied with oil for this position unless otherwise specified.

CAUTION: Mounting of gear drives in overhead positions may be hazardous. Use of external guides or supports is strongly recommended for overhead mounting.

Avoiding those positions where the high speed oil seal is immersed in oil will provide greater security against high speed input seal wear.

NOTE: The above drawings will serve to represent both flanged and non-flanged styles.

M6 is not a recommended mounting position. High speed oil seal is immersed in oil.

900 Series
Single Reduction

900 Series
Double Reduction

Accessories

Universal Series
Single Reduction

Universal Series
Double Reduction

Ratio Multiplier

1000 Series
In-Line Helical

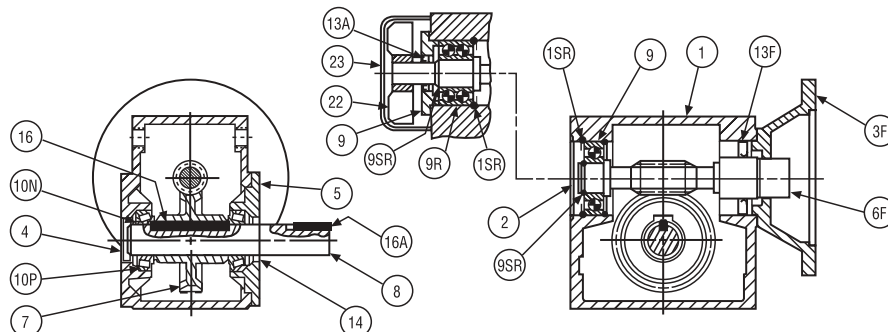
1000 Series
Helical-Worm

Engineering

900 Series Parts Lists

Single Reduction

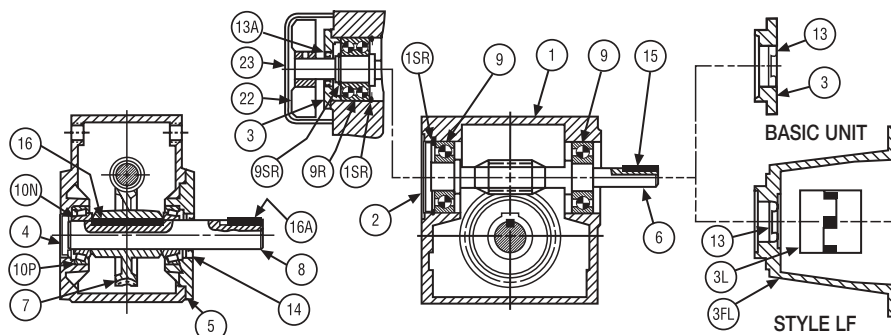
Model F – Sizes 913 through 932



Item No.	Quantity	Description
1	1	Housing
1SR	2	Retaining ring-housing (size 913-926)
1SR	1	Retaining ring-housing (size 932)
2	1	I/P bore end cap
3	1	Worm end cap (size 932)
3F	1	Motor flange
4	1	O/P bore end cap
5	1	O/P bearing carrier
6F	1	Worm
7	1	Worm gear
8	1	O/P shaft-single projection
8A	1	O/P shaft-double projection (not shown)
9	1	I/P bearing (size 913-926)
9R	1	I/P bearing (size 932)
9SR	1	Retaining ring-worm
10N	2	O/P bearing-cone

Item No.	Quantity	Description
10P	2	O/P bearing-cup
13A	1	I/P oil seal-rear (size 932)
13F	1	I/P Oil seal-front
14	1	O/P oil seal
16	1	Gear key
16A	1	O/P shaft key
17	1	Vent plug (not shown)
18	4	Oil level and drain plugs (not shown)
22	1	Fan (size 932)
23	1	Fan guard (size 932)
31	1	Baffle (not shown)
71 A/B	1	Horizontal mounting base (not shown)
81 D/F	2	Angle feet (low base) (not shown)
91 C/E	2	Angle feet (high base) (not shown)

Models S & LF – Sizes 913 through 932



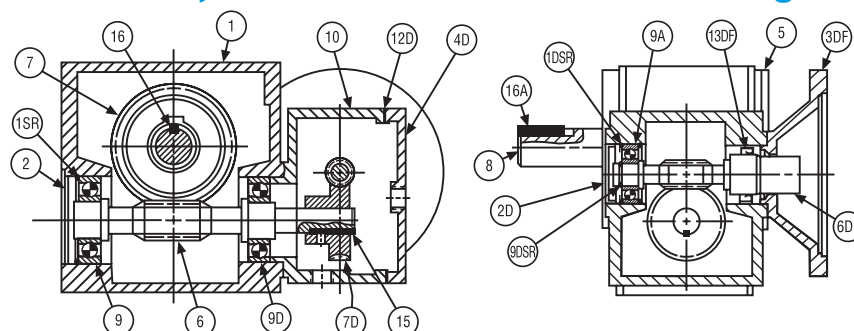
Item No.	Quantity	Description
1	1	Housing
1SR	1	Retaining ring-housing (size 913-926)
2	1	I/P bore end cap
3	1	Worm end cap (size 913-926)
3	2	Worm end cap (size 932)
3FL	1	Extended Motor flange
3L	1	Coupling (complete)
4	1	O/P bore end cap
5	1	O/P bearing carrier
6	1	Worm
7	1	Worm gear
8	1	O/P shaft-single projection
8A	1	O/P shaft-double projection (not shown)
9	2	I/P bearing (size 913-926)
9	1	I/P bearing-front (size 932)
9R	1	I/P bearing-rear (size 932)
9SR	1	Retaining ring-worm (size 932)
10N	2	O/P bearing-cone

Item No.	Quantity	Description
10P	2	O/P bearing-cup
13	1	I/P oil seal
13A	1	I/P Oil seal-rear (size 932)
14	1	O/P oil seal
15	1	I/P shaft key
16	1	Gear key
16A	1	O/P shaft key
17	1	Vent plug (not shown)
18	4	Oil level and drain plugs (not shown)
22	1	Fan (size 932)
23	1	Fan guard (size 932)
31	1	Baffle (not shown)
71 A/B	1	Horizontal mounting base (not shown)
81 D/F	2	Angle feet (low base) (not shown)
91 C/E	2	Angle feet (high base) (not shown)

900 Series Parts Lists

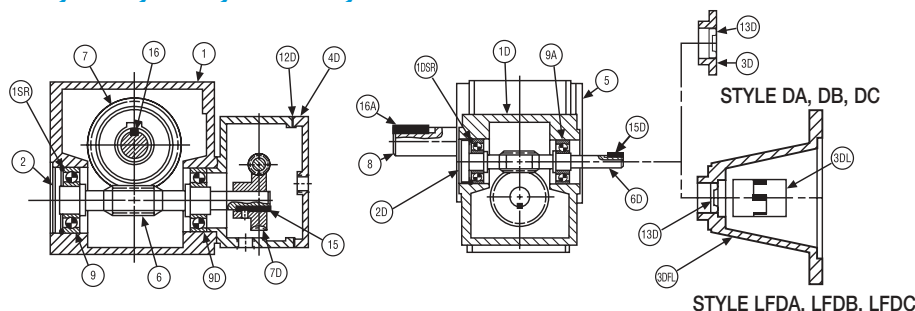
Double Reduction

Models FDA, FDB & FDC – Sizes 918 through 932



Item No.	Quantity	Description	Item No.	Quantity	Description
1	1	Housing-second reduction	9DSR	1	Retaining ring-worm-first reduction
1D	1	Housing-first reduction	9R	1	I/P bearing-rear-second reduction (size 932) (not shown)
1DSR	2	Retaining ring-first reduction housing	9SR	1	Retaining ring-worm-second reduction (size 932) (not shown)
1SR	1	Retaining ring-second reduction housing	10N	2	O/P bearing-cone-second reduction (not shown)
2	1	I/P bore end cap-second reduction	10P	2	O/P bearing-cup-second reduction (not shown)
2D	1	I/P bore end cap-first reduction	12D	1	Housing cover gasket-first reduction
3	1	Worm end cap-second reduction (size 932) (not shown)	13DF	1	I/P oil seal-first reduction
3DF	1	Motor flange	14	1	O/P oil seal-second reduction
4	1	O/P bore end cap-second reduction (not shown)	15	1	I/P shaft key-second reduction
4D	1	Housing cover-first reduction	16	1	Gear key-second reduction
5	1	O/P bearing carrier-second reduction	16A	1	O/P shaft key-second reduction
6	1	Worm-second reduction	17	1	Vent plug (not shown)
6DF	1	Worm-first reduction	18	8	Oil level and drain plugs (not shown)
7	1	Worm gear-second reduction	31	1	Baffle (not shown)
7D	1	Worm gear-first reduction	71 A/B	1	Horizontal mounting base (not shown)
8	1	O/P shaft-single projection-second reduction	81 D/F	2	Angle feet (low base) (not shown)
8A	1	O/P shaft-double projection-second reduction (not shown)	91 C/E	2	Angle feet (high base) (not shown)
9	1	I/P bearing rear-second reduction			
9A	1	I/P bearing-first reduction			
9D	1	I/P bearing-front-second reduction			

Models DA, DB, DC, LFDA, LFDB & LFDC – Sizes 913 through 932



Item No.	Quantity	Description	Item No.	Quantity	Description
1	1	Housing-second reduction	9D	1	I/P bearing-front-second reduction
1D	1	Housing-first reduction	9R	1	I/P bearing-rear-second reduction (size 932) (not shown)
1DSR	1	Retaining ring ring-housing-first reduction	9SR	1	Retaining ring-worm-second reduction (size 932) (not shown)
1SR	1	Retaining ring-housing-second reduction	10N	2	O/P bearing-cone-second reduction (not shown)
2	1	I/P bore end cap-second reduction	10P	2	O/P bearing-cup-second reduction (not shown)
2D	1	I/P bore end cap-first reduction	12D	1	Housing cover gasket-first reduction
3	1	Worm end cap-second reduction (size 913-926) (not shown)	13D	1	I/P oil seal-first reduction
3D	1	Worm end cap-first reduction	14	1	O/P oil seal-second reduction
3DFL	1	Extended Motor flange	15	1	I/P shaft key-second reduction
3DL	1	Coupling (complete)	15D	1	I/P shaft key-first reduction
4	1	O/P bore end cap-second reduction (not shown)	16	1	Gear key-second reduction
4D	1	Housing cover-first reduction	16A	1	O/P shaft key-second reduction
5	1	O/P bearing carrier-second reduction	17	1	Vent plug (not shown)
6	1	Worm-second reduction	18	8	Oil fill and drain plugs (not shown)
6D	1	Worm-first reduction	31	1	Baffle (not shown)
7	1	Worm gear-second reduction	71 A/B	1	Horizontal mounting base (not shown)
7D	1	Worm gear-first reduction	81 D/F	2	Angle feet (low base) (not shown)
8	1	O/P shaft-single projection-second reduction	91 C/E	2	Angle feet (high base) (not shown)
8A	1	O/P shaft-double projection-second reduction (not shown)			
9	1	I/P bearing-rear-second reduction			
9A	2	I/P bearing-first reduction			

 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

 1000 Series
In-Line Helical

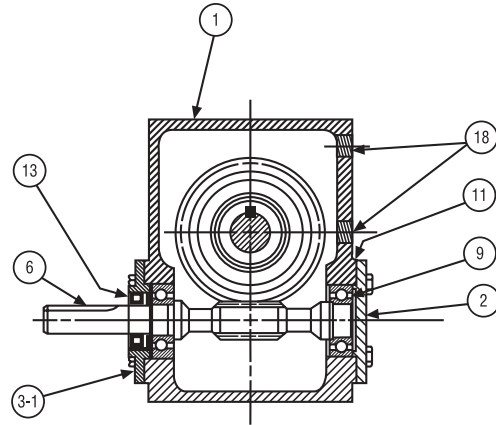
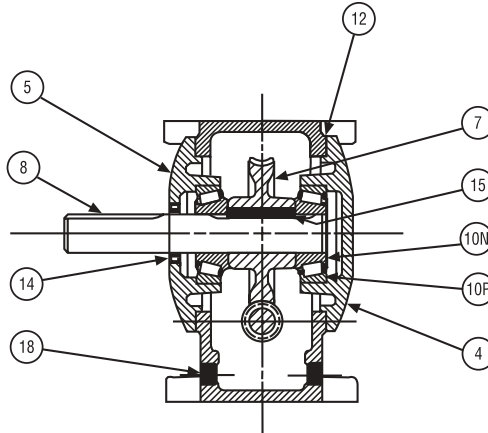
 1000 Series
Helical-Worm

Engineering

Universal Series Parts Lists

Single Reduction

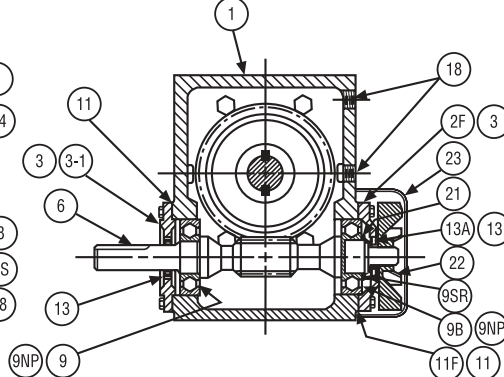
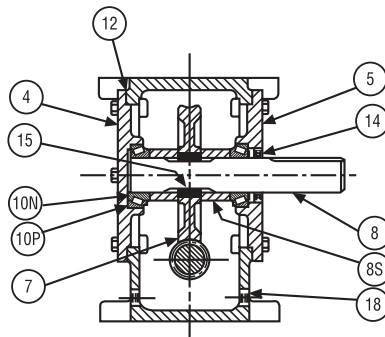
Styles SB, ST, SV – Sizes 133 through 300



Item No.	Quantity	Description
1	1	Housing
2	1	Worm gland-closed
3-1	1	Worm gland-open
4	1	Gear gland-closed
5	1	Gear gland-open
6	1	Worm and shaft integral
7	1	Worm gear-bronze forging
8	1	Worm gear shaft-single proj.
8A	1	Worm gear shaft-double proj. (not shown)
9	1	Worm shaft ball bearing

Item No.	Quantity	Description
10N	2	Output shaft taper roller bearings
10P	2	Output shaft bearing cup
11	4	Input gland gaskets
12	4	Output gear gland gaskets
13	1	Input worm shaft oil seal
14	1	Output gear shaft oil seal
15	1	Gear shaft key
17	1	Vent plug (not shown)
18	6	Oil level and drain plugs
20	1 pr.	Angle feet for SV mtg. (not shown)

Styles SB, ST, SV – Sizes 350 through 600



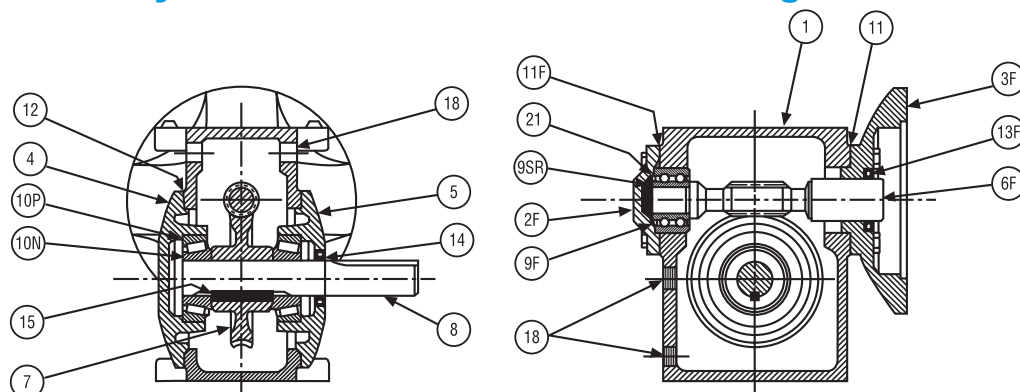
Item No.	Quantity	Description
1	1	Housing
2F	1	Worm gland-open (350-400 only)
3	1	Worm gland-open (500-600 only)
3-1	1	Worm gland open (350-400 only)
4	1	Gear gland-closed
5	1	Gear gland-open
6	1	Worm and shaft integral
7	1	Worm gear-bronze forging
8	1	Output gear shaft single ext.
8A	1	Output gear shaft double ext. (not shown)
8S	2	Gear shaft spacers
9	1	Input shaft-bearing front (350-400 only)
9B	1	Input shaft-bearing rear (350-400 only)
9N	2	Input shaft-taper roller bearing (500-600 only)
9P	2	Input shaft-bearing cup (500-600 only)
9SR	1	Input shaft-snap ring (350-400 only)

Item No.	Quantity	Description
10N	2	Output shaft taper roller bearing cone
10P	2	Output shaft bearing cups
11	2	Worm gland-gaskets
11F	2	Input gland-gaskets (350-400 only)
12	4	Gear gland gaskets
13	1	Input motor flange oil seal-front (front & rear 500 and 600 only)
13A	1	Input shaft oil seal-rear (350 and 400 only)
14	1	Gear shaft oil seal
15	2	Gear shaft keys
17	1	Vent plug (not shown)
18	6	Oil level and drain plugs
20	1 pr.	Angle feet for SV mtg. (not shown)
21	1	Input shaft washer
22	1	Fan
23	1	Fan guard

Universal Series Parts Lists

Single Reduction

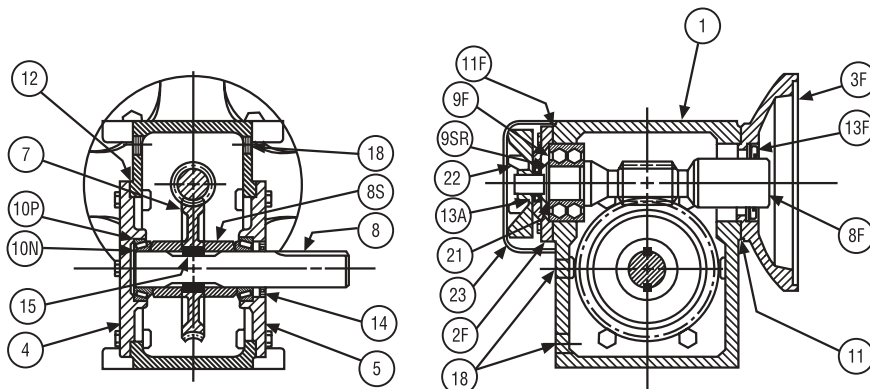
Styles STF & SVF – Sizes 133 through 300



Item No.	Quantity	Description
1	1	Housing
2F	1	Worm gland-closed
3F	1	N.E.M.A. frame motor flange
4	1	Worm gear gland-closed
5	1	Worm gear gland-open
6F	1	Worm and shaft integral
7	1	Worm gear-bronze forging
8	1	Worm gear shaft-single proj.
8A	1	Worm gear shaft-double proj. (not shown)
9F	1	Motor worm ball bearing
9SR	1	Input shaft-snap ring

Item No.	Quantity	Description
10N	2	Output shaft taper roller bearing cone
10P	2	Output shaft bearing cup
11	1	Input gland gaskets
11F	1	Input gland gaskets
12	4	Output gear gland gaskets
13F	1	Input motor flange oil seal
14	1	Output shaft oil seal
15	1	Gear shaft key
17	1	Vent plug (not shown)
18	6	Oil level and drain plugs
20	1 pr.	Angle feet for SV mtg. (not shown)
21	1	Input worm washer

Styles STF & SVF – Sizes 350 and 400



Item No.	Quantity	Description
1	1	Housing
2F	1	Worm gland-open (350-400 only)
3F	1	N.E.M.A. frame motor flange
4	1	Worm gear gland-closed
5	1	Worm gear gland-open
6F	1	Worm and shaft integral
7	1	Worm gear-bronze forging
8	1	Worm gear shaft-single proj.
8A	1	Worm gear shaft-double proj. (not shown)
8S	2	Gear shaft spacers
9F	1	Motor worm ball bearing
9SR	1	Snap ring (350-400 only)
10N	2	Output shaft taper roller bearing cone

Item No.	Quantity	Description
10P	2	Output shaft bearing cup
11	1	Input motor flange gasket
11F	1	Input gland gasket
12	4	Output gear gland gaskets
13	1	Input motor flange oil seal-front (front & rear 500 and 600 only)
13A	1	Input gland oil seal-rear
13F	1	Input motor flange oil seal-front
14	1	Output shaft oil seal
15	2	Gear shaft keys
17	1	Vent plug (not shown)
18	6	Oil level and drain plugs
20	1 pr.	Angle feet for SV mtg. (not shown)
21	1	Input worm washer
22	1	Fan
23	1	Fan guard

 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

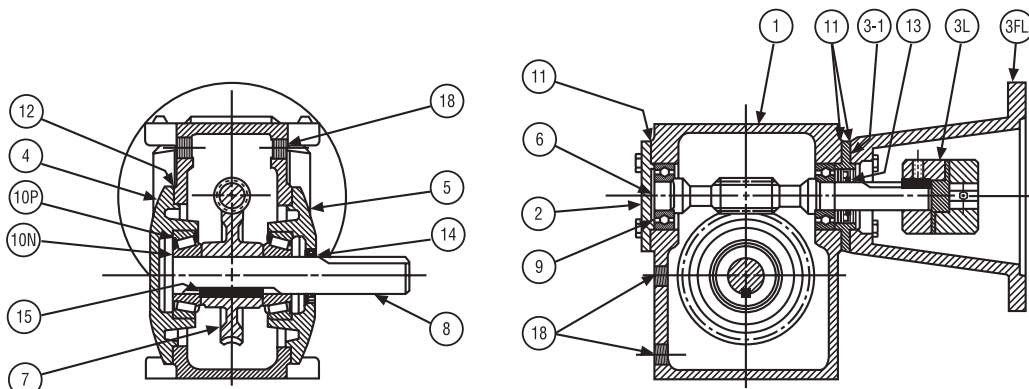
 1000 Series
In-Line Helical

 1000 Series
Helical-Worm

Engineering

Universal Series Parts Lists Single Reduction

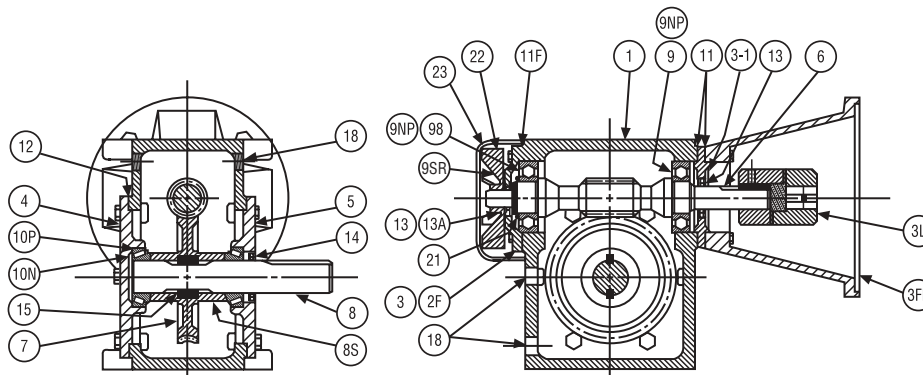
Styles STI & SVI – Sizes 133 through 300



Item No.	Quantity	Description
1	1	Housing
2	1	Worm gland-closed
3L	1	Complete coupling
3-1	1	Input gland-open
3FL	1	N.E.M.A. frame motor flange
4	1	Worm gear gland-closed
5	1	Worm gear gland-open
6	1	Worm and shaft integral
7	1	Worm gear-bronze forging
8	1	Worm gear shaft-single proj.
8A	1	Worm gear shaft-double proj. (not shown)

Item No.	Quantity	Description
9	2	Motor worm ball bearing
10N	2	Output shaft taper roller bearing cone
10P	2	Output shaft bearing cup
11	3	Input gland gaskets
12	4	Output gear gland gaskets
13	1	Input motor flange oil seal
14	1	Output shaft oil seal
15	1	Gear shaft key
17	1	Vent plug (not shown)
18	6	Oil level and drain plugs
20	1 pr.	Angle feet for SV mtg. (not shown)

Styles STL & SVL – Sizes 350 and 600

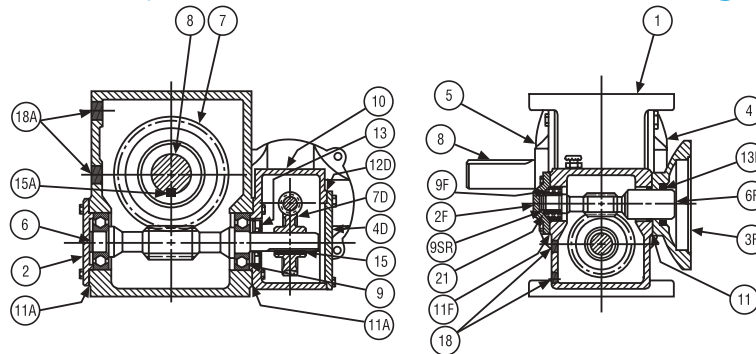


Item No.	Quantity	Description
1	1	Housing
2F	1	Worm gland-open (350-400 only)
3	1	Worm gland-open (500-600 only)
3-1	1	Input gland-open (300-400 only)
3L	1	Complete coupling
3FL	1	N.E.M.A. frame motor flange
4	1	Worm gear gland-closed
5	1	Worm gear gland-open
6	1	Worm and shaft integral
7	1	Worm gear-bronze forging
8	1	Worm gear shaft-single proj.
8A	1	Worm gear shaft-double proj. (not shown)
8S	2	Gear shaft spacers
9	1	Input bearing-front (350-400 only)
9B	1	Input bearing-rear (350-400 only)
9N	2	Input shaft-roller bearings (500-600 only)
9P	2	Input shaft bearing cups (500-600 only)

Item No.	Quantity	Description
9SR	1	Input shaft snap ring (350-400 only)
10N	2	Output shaft taper roller bearings
10P	2	Output shaft bearing cups
11	2	Input gland gaskets
11F	2	Input gland gaskets
12	4	Output gear gland gaskets
13	1	Input motor flange oil seal-front (front & rear 500 - 600 only)
13A	1	Input shaft oil seal-rear (350-400 only)
14	1	Output shaft oil seal
15	2	Gear shaft keys
17	1	Vent plug (not shown)
18	6	Oil level and drain plugs
20	1 pr.	Angle feet for SV mtg. (not shown)
21	1	Input shaft-washer
22	1	Fan
23	1	Fan guard

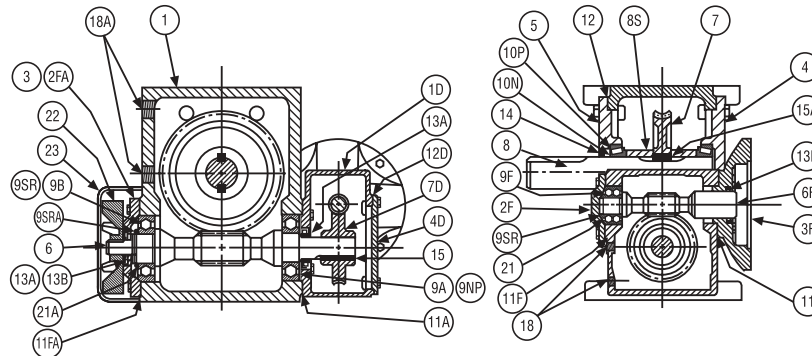
Universal Series Parts Lists Double Reduction

Styles DBF, DTF & DVF – Sizes 175 through 300



Item No.	Quantity	Description	Item No.	Quantity	Description
1	1	Housing-second reduction	10N	2	Output shaft taper roller bearing cone-second reduction (not shown)
1D	1	Housing-first reduction	10P	2	Output shaft bearing cup-second reduction (not shown)
2	1	Worm gland-closed-second reduction	11	3	Input motor flange gasket-first reduction
2F	1	Worm gland-closed-first reduction	11A	4	Worm gland gaskets-second reduction
3F	1	N.E.M.A. frame motor flange-first reduction	11F	1	Input gland gasket-first reduction
4	1	Output gear gland-closed-second reduction	12	4	Gear gland gaskets-second reduction (not shown)
4D	1	Housing cover-first reduction	12D	1	Housing cover gasket-first reduction
5	1	Output gear gland-open-second reduction	13	1	Worm shaft oil seal-second reduction
6	1	Worm and shaft integral-second reduction	13F	1	Input motor flange oil seal-first reduction
6F	1	Worm & shaft integral-first reduction	14	1	Output shaft oil seal-second reduction (not shown)
7	1	Worm gear-bronze forging-second reduction	15	1	Worm gear key-first reduction
7D	1	Worm gear bronze forging-first reduction	15A	1	Worm gear key-second reduction
8	1	Output worm gear shaft-single proj.-second reduction	17	1	Vent plug-first reduction (not shown)
8A	1	Output worm gear shaft-double proj.-second reduction (not shown)	17A	1	Vent plug-second reduction (not shown)
9	2	Worm shaft ball bearings-second reduction	18	6	Oil level and drain plugs-first reduction
9F	1	Worm shaft ball bearing-first reduction	18A	6	Oil level and drain plugs-second reduction
9SR	1	Input worm snap ring-first reduction	20	1 pr.	Angle feet for DVF mtg. (not shown)
			21	1	Worm washer-first reduction

Styles DBF, DTF & DVF – Sizes 350 through 600



Item No.	Quantity	Description	Item No.	Quantity	Description	Item No.	Quantity	Description
1	1	Housing-second reduction	9B	2	Worm bearing-rear-second reduction (350-400 only)	12D	1	Housing cover gaskets-first reduction
1D	1	Housing-first reduction	9F	1	Worm shaft bearing-first reduction	13A	1	Worm shaft oil seal-front-second reduction (front & rear 500 - 600 only)
2F	1	Worm gland-closed-first reduction	9N	2	Worm taper roller bearing cone-second reduction (500-600 only)	13B	1	Worm shaft oil seal-rear-second reduction (350-400 only)
2FA	1	Worm gland-open-second reduction (350-400 only)	9P	2	Worm bearing cup-second reduction (500-600 only)	13F	1	Input motor flange oil seal-first reduction
3	1	Worm gland-open-second reduction (500-600 only)	9SR	1	Worm snap ring-first reduction	14	1	Output shaft oil seal-second reduction
3F	1	N.E.M.A. frame motor flange-first reduction	9SRA	1	Worm snap ring-second reduction (350-400 only)	15	1	Gear shaft key-first reduction
4	1	Output gear gland-closed-second reduction	10N	2	Output shaft taper roller bearing cone (500-600 only)	15A	1	Worm gear key-second reduction
4D	1	Housing cover-first reduction	10P	2	Output shaft bearing cups-second reduction	17	1	Vent plug-first reduction (not shown)
5	1	Output gear gland-open-second reduction	11	1	Input gland gasket-first reduction	17A	1	Vent plug-second reduction (not shown)
6	1	Worm and shaft integral-second reduction	11A	4	Worm gland gaskets-second reduction (350-400 only)	18	6	Oil level and drain plugs-first reduction
6F	1	Worm and shaft integral-first reduction	11FA	1	Worm gland gasket-second reduction (350-400 only)	18A	6	Oil level and drain plugs-second reduction
7	1	Worm gear-bronze forging-second reduction	11F	2	Input gland gaskets-first reduction (350-400 only)	20	1 pr.	Angle feet for DVF mtg. (not shown)
7D	1	Worm gear-bronze forging-first reduction	12	4	Gear gland gaskets-second reduction (350-400 only)	21	1	Worm washer-first reduction
8	1	Output worm gear shaft-single proj.-second reduction				21A	1	Worm washer-second reduction (350-400 only)
8A	1	Output worm gear shaft-double proj.-second reduction (not shown)				22	1	Fan
8S	2	Gear shaft spacers-second reduction				23	1	Fan guard
9A	2	Worm bearing-front-second reduction (350-400 only)						

 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

 1000 Series
In-Line Helical

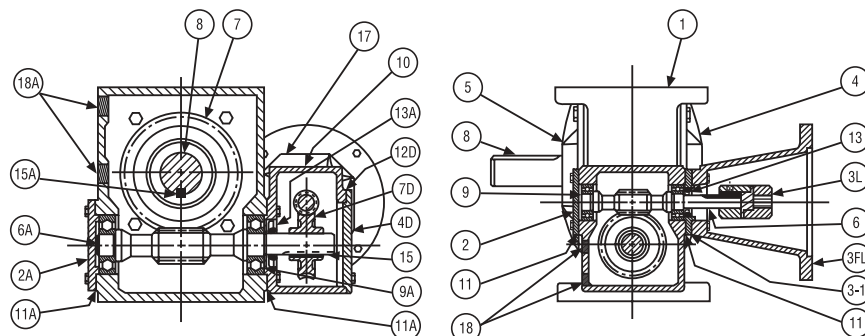
 1000 Series
Helical-Worm

Engineering

Universal Series Parts Lists

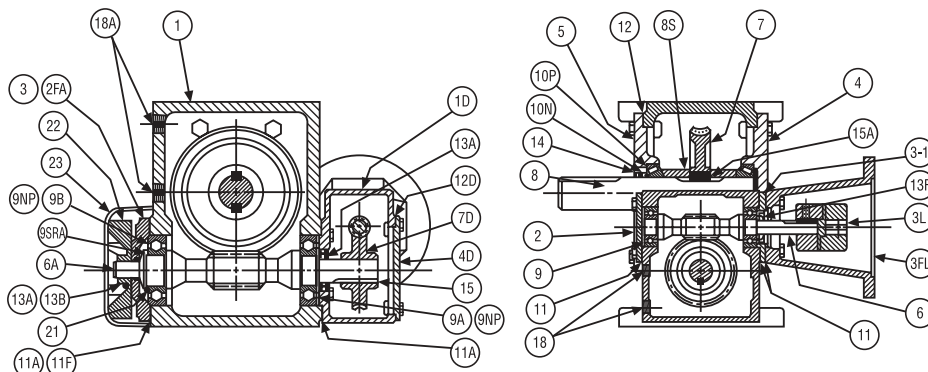
Double Reduction

STYLES DBL, DTL & DVL SIZES 175 THROUGH 300



Item No.	Quantity	Description	Item No.	Quantity	Description
1	1	Housing-second reduction	9	2	Worm shaft ball bearing-first reduction
1D	1	Housing-first reduction	10N	2	Output shaft taper roller bearing cone-second reduction (not shown)
2	1	Worm gland-closed-first reduction	10P	2	Output shaft bearing cup-second reduction (not shown)
2A	1	Worm gland-closed-second reduction	11	2	Input gland gaskets-first reduction
3-1	1	Worm gland-open	11A	4	Worm gland gaskets-second reduction
3L	1	Complete coupling	12	4	Gear gland gaskets-second reduction (not shown)
3FL	1	N.E.M.A. frame motor flange-first reduction	12D	1	Housing cover gasket-first reduction
4	1	Output gear gland-closed-second reduction	13	1	Input motor flange oil seal-first reduction
4D	1	Housing cover-first reduction	13A	1	Worm shaft oil seal-second reduction
5	1	Output gear gland-open-second reduction	14	1	Output shaft oil seal-second reduction (not shown)
6	1	Worm and shaft integral-first reduction	15	1	Worm gear key-first reduction
6A	1	Worm & shaft integral-second reduction	15A	1	Worm gear key-second reduction
7	1	Worm gear-bronze forging-second reduction	17	1	Vent plug-first reduction (not shown)
7D	1	Worm gear bronze forging-first reduction	17A	1	Vent plug-second reduction (not shown)
8	1	Output worm gear shaft-single proj.-second reduction	18	6	Oil level and drain plugs-first reduction
8A	1	Output worm gear shaft-double proj.-second reduction (not shown)	18A	6	Oil level and drain plugs-second reduction
9A	2	Worm shaft ball bearings-second reduction	20	1 pr.	Angle feet for DVL mtg. (not shown)
9	2	Worm shaft ball bearing-first reduction			

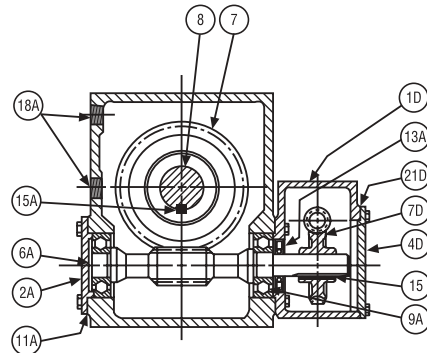
STYLES DBL, DTL & DVL SIZES 350 THROUGH 600



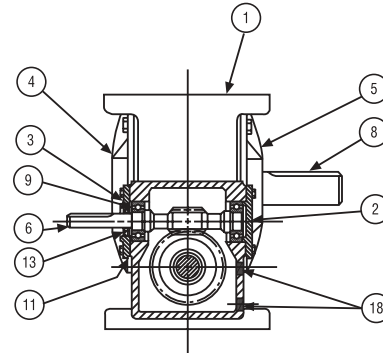
Item No.	Quantity	Description	Item No.	Quantity	Description	Item No.	Quantity	Description
1	1	Housing-second reduction	8S	2	Gear shaft spacers-second reduction	12	4	Gear gland gaskets-second reduction
1D	1	Housing-first reduction	9	2	Worm shaft ball bearing-first reduction	12D	1	Housing cover gasket-first reduction
2	1	Worm gland-closed-first reduction	9A	1	Worm bearing-front-second reduction (350-400 only)	13A	1	Worm shaft oil seal-front-second reduction (front & rear 500 - 600 only)
2FA	1	Worm gland-open-second reduction (350-400 only)	9B	1	Worm bearing-rear-second reduction (350-400 only)	13B	1	Worm shaft oil seal-rear-second reduction (350-400 only)
3-1	1	Worm gland-open	9N	2	Worm taper roller bearing-second reduction (500-600 only)	13F	1	Input motor flange oil seal-first reduction
3L	1	Complete coupling	9P	2	Worm bearing cup-second reduction (500-600 only)	14	1	Output shaft oil seal-second reduction
3FL	1	N.E.M.A. frame motor flange-first reduction	9SRA	1	Worm snap ring-second reduction (350-400 only)	15	1	Worm gear key-first reduction
4	1	Output gear gland-closed-second reduction	10N	2	Output shaft taper roller bearing cone-second reduction	15A	2	Worm gear keys-second reduction
4D	1	Housing cover-first reduction	10P	2	Output shaft bearing cups-second reduction	17	1	Vent plug-first reduction (not shown)
5	1	Output gear gland-open-second reduction	11	3	Input gland gaskets-first reduction	17A	1	Vent plug-second reduction (not shown)
6	1	Worm and shaft integral-first reduction	11A	1	Worm gland gasket-second reduction (350-400 only)	18	6	Oil level and drain plugs-first reduction
6A	1	Worm & shaft integral-second reduction	11F	1	Worm gland gasket-second reduction (350-400 only)	18A	6	Oil level and drain plugs-second reduction
7	1	Worm gear-bronze forging-second reduction				20	1 pr.	Angle feet for DVL mtg. (not shown)
7D	1	Worm gear-bronze forging-first reduction				21	1	Worm washer-second reduction (350-400 only)
8	1	Output worm gear shaft-single proj.-second reduction				22	1	Fan
8A	1	Output worm gear shaft-double proj.-second reduction (not shown)				23	1	Fan guard

Universal Series Parts Lists Double Reduction

STYLES WDB, WDT & WDV SIZES 175 THROUGH 300

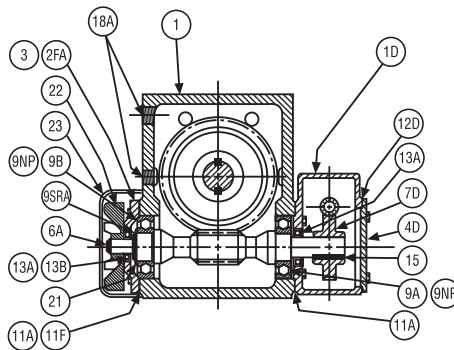


Item No.	Quantity	Description
1	1	Housing-second reduction
1D	1	Housing-first reduction
2	1	Worm gland-closed-first reduction
2A	1	Worm gland-closed-second reduction
3	1	Worm gland-open-first reduction
4	1	Gear gland-closed-second reduction
4D	1	Housing cover-first reduction
5	1	Gear gland-open-second reduction
6	1	Worm and shaft integral-first reduction
6A	1	Worm and shaft integral-second reduction
7	1	Worm gear-bronze forging-second reduction
7D	1	Worm gear-bronze forging-first reduction
8	1	Output gear shaft-single proj.-second reduction
8A	1	Output gear shaft-double proj.-second reduction (not shown)
9	2	Worm shaft ball bearings-first reduction
9A	2	Worm shaft ball bearing-second reduction



Item No.	Quantity	Description
10N	2	Output shaft taper roller bearing cone-second reduction (not shown)
10P	2	Output shaft bearing cups-second reduction (not shown)
11	4	Worm gland gaskets-first reduction
11A	4	Worm gland gaskets-second reduction
12	4	Gear gland gaskets-second reduction (not shown)
12D	1	Housing cover gasket-first reduction
13	1	Worm shaft oil seal-first reduction
13A	1	Worm shaft oil seal-second reduction
14	1	Gear shaft oil seal-second reduction (not shown)
15	1	Gear shaft key-first reduction
15A	1	Gear shaft key-second reduction
17	1	Vent plug-first reduction (not shown)
17A	1	Vent plug-second reduction (not shown)
18	6	Oil level and drain plugs-first reduction
18A	6	Oil level and drain plugs-second reduction
20	1 pr.	Angle feet for WDV mtg. (not shown)

STYLES WDB, WDT & WDV SIZES 350 THROUGH 600



Item No.	Quantity	Description
1	1	Housing-second reduction
1D	1	Housing-first reduction
2	1	Worm gland-closed-first reduction
2FA	1	Worm gland-open-second reduction (350-400 only)
3-1	1	Worm gland-open-first reduction (350-400 only)
3	1	Worm gland-open-second reduction (500-600 only)
4	1	Output gear gland-closed-second reduction
4D	1	Housing cover-first reduction
5	1	Gear gland-open-second reduction
6	1	Worm and shaft integral-first reduction
6A	1	Worm and shaft integral-second reduction
7	1	Worm gear-bronze forging-second reduction
7D	1	Worm gear-bronze forging-first reduction
8	1	Output gear shaft-single proj.-second reduction
8A	1	Output gear shaft-double proj.-second reduction (not shown)
8S	2	Gear shaft spacers-second reduction

Item No.	Quantity	Description
9	2	Worm shaft ball bearings-first reduction
9A	1	Worm shaft ball bearing-front-second reduction (350-400 only)
9B	1	Worm shaft ball bearing-rear-second reduction (350-400 only)
9N	2	Worm taper roller bearing cone-second reduction (500-600 only)
9P	2	Worm bearing cup-second reduction (500-600 only)
9SRA	1	Worm shaft snap ring-second reduction (350-400 only)
10N	2	Gear shaft taper roller bearing cone-second reduction
10P	2	Gear shaft bearing cups-second reduction
11	4	Gland gaskets-first reduction
11A	2	Worm gland gaskets-second reduction
11F	2	Worm gland gaskets-second reduction (350-400 only)

Item No.	Quantity	Description
12	4	Gear gland gaskets-second reduction
12D	1	Housing cover gasket-first reduction
13	1	Worm shaft oil seal-first reduction
13A	1	Worm shaft oil seal-front-second reduction (front & rear 500 - 600 only)
13B	1	Worm shaft oil seal-rear-second reduction (350-400 only)
14	1	Gear shaft oil seal-second reduction
15	1	Worm gear key-first reduction
15A	2	Worm gear keys-second reduction
17	1	Vent plug-first reduction (not shown)
17A	1	Vent plug-second reduction (not shown)
18	6	Oil level and drain plugs-first reduction
18A	6	Oil level and drain plugs-second reduction
20	1 pr.	Angle feet for WDV mtg. (not shown)
21	1	Worm shaft washer-second reduction (350-400 only)
22	1	Fan
23	1	Fan guard

 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

 1000 Series
In-Line Helical

 1000 Series
Helical-Worm

Engineering

Seal Kits

900 SERIES KIT PART NUMBERS

Size	F	S/LF	DA/DB/DC LFDA/LFDB/LFDC	FDA/FDB/FDC	HF	HS/HLF
913	GS5000A13SP	GS5000A01SP	—	—	GS5000A66SP	GS5000A65SP
915	GS5000A59SP	GS5000A60SP	—	—	—	—
918	GS5000A16SP	GS5000A02SP	GS5000A08SP	GS5000A19SP	GS5000A70SP	GS5000A69SP
921	GS5000A12SP	GS5000A05SP	GS5000A011SP	GS5000A22SP	GS5000A72SP	GS5000A71SP
921G	GS5000A75SP	—	—	—	—	—
924	GS5000A15SP	GS5000A04SP	GS5000A09SP	GS5000A20SP	GS5000A74SP	GS5000A73SP
926	GS5000A17SP	GS5000A06SP	GS5000A07SP	GS5000A18SP	GS5000A77SP	GS5000A76SP
930	GS5000A62SP	GS5000A61SP	—	—	GS5000A79SP	GS5000A78SP
932	GS5000A14SP	GS5000A03SP	GS5000A10SP	GS5000A21SP	GS5000A81SP	GS5000A80SP
938	GS5000A63SP	GS5000A64SP	—	—	GS5000A82SP	GS5000A83SP

UNIVERSAL SERIES KIT PART NUMBERS

Size	ST/SB/SV STL/SVL	STF/SVF	DBF/DTF/DVF	DBL/DTL/DVL WDB/WDT/WDV
133	GS5000A27SP	GS5000A45SP		
175	GS5000A30SP	GS5000A48SP	GS5000A52SP	GS5000A36SP
200	GS5000A24SP	GS5000A42SP	GS5000A56SP	GS5000A38SP
225	GS5000A25SP	GS5000A46SP	GS5000A58SP	GS5000A40SP
258	GS5000A29SP	GS5000A43SP	GS5000A54SP	GS5000A33SP
300	GS5000A32SP	GS5000A49SP	GS5000A50SP	GS5000A34SP
350	GS5000A31SP	GS5000A47SP	GS5000A53SP	GS5000A41SP
400	GS5000A23SP	GS5000A44SP	GS5000A57SP	GS5000A37SP
500	GS5000A26SP		GS5000A55SP	GS5000A39SP
600	GS5000A28SP		GS5000A51SP	GS5000A35SP

900 Series Style LF Coupling Part Numbers

	Bore	Manufacturing Number	Baldor Number	Bore	Manufacturing Number	Baldor Number
	913B5			913B7		
Motor Coupling Half	0.625	L070-5/8	913-3L070-5	0.875		
Spider		S-070	913-3S070			
Gear Coupling Half	0.500	L070-1/2	913-3L070-4	0.500		
	918B5			918B7		
Motor Coupling Half	0.625	L075-5/8	918-3L075-5	0.875	L075-7/8	918-3L075-7
Spider		S-075	918-3S075		S-075	918-3S075
Gear Coupling Half	0.625	L075-5/8	918-3L075-5	0.625	L075-5/8	918-3L075-5
	921B5			921B7		
Motor Coupling Half	0.625	L090-5/8	921-3L090-5	0.875	L090-7/8	921-3L090-7
Spider		S-090	921-3S090		S-090	921-3S090
Gear Coupling Half	0.625	L090-5/8	921-3L090-4	0.625	L090-5/8	921-3L090-5

	Bore	Manufacturing Number	Baldor Number	Bore	Manufacturing Number	Baldor Number
	924B5			924B7		
Motor Coupling Half	0.625	L090-5/8	918-3L075-5	0.875	L075-7/8	918-3L075-7
Spider		S-090/L-095 S0X-OCT	918-3S075		S-075	918-3S075
Gear Coupling Half	0.625	L075-5/8	918-3L075-5	0.625	L075-5/8	918-3L075-5
	926B5			926B7		
Motor Coupling Half	0.625	L095-5/8	926-3L095-5	0.875	L095-7/8	926-3L095-7
Spider		S-090	921-3S090		S-090	921-3S090
Gear Coupling Half	0.750	L095-1/2	926-3L095-6	0.750	L095-3/4	926-3L095-6
	932B5			932B7		
Motor Coupling Half	0.625	L099-5/8	932-3L099-5	0.875	L099-7/8	932-3L099-7
Spider		S-099	932-3S099		S-099	932-3S099
Gear Coupling Half	0.875	L099-7/8	932-3L099-7	0.875	L099-7/8	932-3L099-7

 900 Series
Single Reduction

 900 Series
Double Reduction

Accessories

 Universal Series
Single Reduction

 Universal Series
Double Reduction

Ratio Multiplier

 1000 Series
In-Line Helical

 1000 Series
Helical-Worm

Engineering

Limited Warranty

Baldor Electric Company and its employees are proud of our products and are committed to providing our customers and end users with the best designed and manufactured motors, drives and other Baldor products. This Limited Warranty and Service Policy describes Baldor's warranty and warranty procedures.

Comments and Questions: We welcome comments and questions regarding our products. Please contact us at:

Customer Service
Baldor Electric Company
P. O. Box 2400
Fort Smith, Arkansas 72902
Telephone: (479) 646-4711
Facsimile: (479) 648-5792

Scope of Warranty: All Baldor standard motors are warranted against defects in Baldor workmanship and materials.

Warranty Period: Most Baldor motors and gear reducers are warranted for 18 months from the date of shipment to Baldor's customer from Baldor's district warehouse, or, if applicable, from Baldor's factory. Baldor Standard-E™ standard efficient motors are warranted for 24 months. Baldor Super-E® premium efficiency motors are warranted for 36 months. Baldor control products are warranted for 24 months. All warranty claims must be submitted to a Baldor Service Center prior to the expiration of the warranty period.

Warranty Service Center Locations: Warranty service is available for all Baldor products from Baldor's Customer Service Center in Fort Smith, Arkansas, and from Baldor Authorized Service Centers. A list of Baldor's Authorized Service Centers is available in catalog #505 from any Baldor District Office or by contacting us at the above location.

Procedure to Receive Warranty Service: Customers should take or ship prepaid the Baldor product requiring warranty service to a Baldor Authorized Service Center. Please include an explanation of the defect or problem, a description of the way in which the Baldor product is used, and your name, address and telephone number.

Repair by Other than a Baldor-Authorized Service Center: Customers who are unable to take or ship the Baldor product to a Baldor Authorized Service Center, or who desire a repair to be made by other than a Baldor Authorized Service Center, should contact the local Baldor District Office. A repair by anyone other than a Baldor Authorized Service Center must be approved in advance by Baldor.

Repairs or Replacement Within the Scope of the Warranty: If a Baldor product is defective due to Baldor workmanship or materials and the defect occurs during the warranty period, then Baldor will either repair the product or replace it with a new one, whichever Baldor believes to be appropriate under the circumstances. Baldor is not responsible for removal and shipping of the Baldor product to the service center, the reinstallation of the Baldor product upon its return to the customer, or any incidental or consequential damages resulting from the defect, removal reinstallation, shipment or otherwise.

Repairs Outside the Scope of the Warranty: Problems with Baldor products can be due to improper maintenance, faulty installation, non-Baldor additions or modifications, or other problems not due to defects in Baldor workmanship or materials. If the Baldor Authorized Service Center determines that the problem with a Baldor product is not due to defects in Baldor workmanship or materials, then the customer will be responsible for the cost of any necessary repairs. Customers not satisfied with a determination that a problem is outside of warranty coverage should contact the Baldor District Office for further consideration.

Intended Use: Baldor products are designed for industrial, commercial and agricultural use rather than household, family or personal use.

Product Specifications: All product specifications, applications and other information provided in Baldor's catalog and publications are subject to correction and change without notice and should be confirmed with the Baldor District Office prior to ordering.

Extended Warranties: Extended warranties are available for certain Baldor products. These warranties are described in Baldor's catalog and other sales literature. Extended warranties are subject to the terms and procedures of this Limited Warranty and Service Policy as modified by the additional terms of the extended warranty.

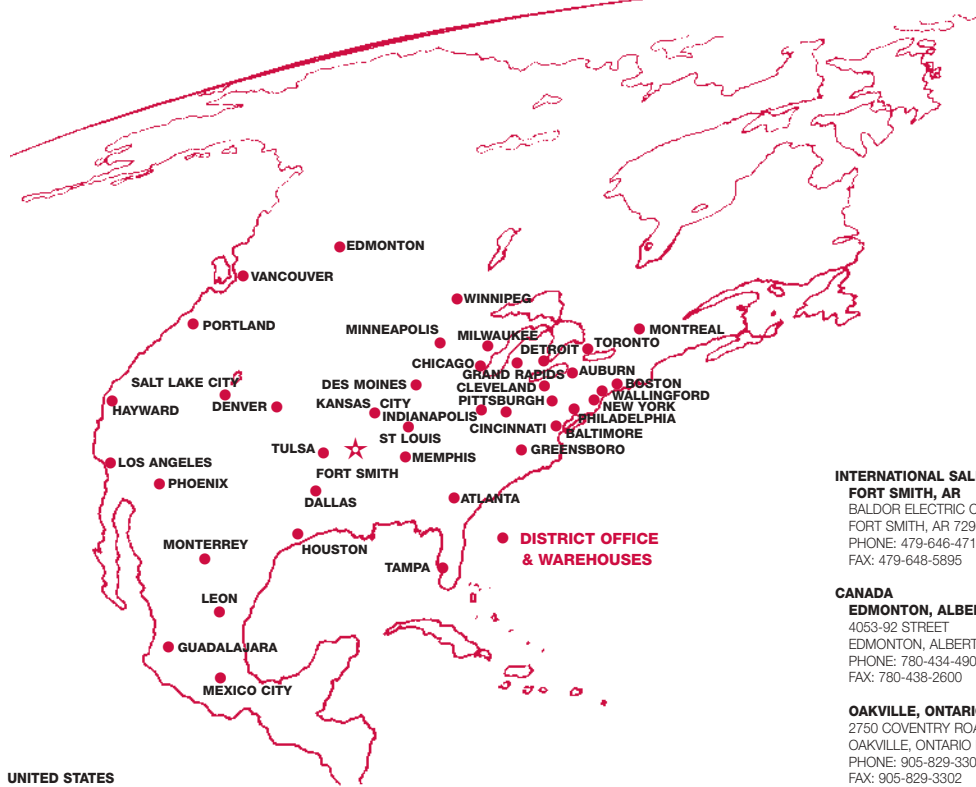
No Other Warranties and Liability Limitation: This Limited Warranty and Service Policy represents Baldor's sole and exclusive warranty obligation with respect to Baldor products. Baldor's liability to a customer or any other person shall not exceed the Baldor's sales price of the applicable Baldor product. BALDOR DISCLAIMS ALL OTHER EXPRESS AND IMPLIED WARRANTIES INCLUDING THE IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY.

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Baldor has made every effort to make this catalog complete and accurate as of the time of printing. Since products are continuously being improved, all data is subject to change or correction. The data presented here is for general information to provide an overview of Baldor's capabilities. For specific applications, installation and operating instructions, certified dimensions, capabilities and performance data, and pricing and availability, contact your Baldor District Sales Office listed on the inside back cover.

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FAX: 918-366-9338

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