



**CARVER PUMP™**

**Built for purpose**

# BUILT FOR PURPOSE

We build American-made pumps with military-grade precision, engineered to your most demanding specifications.

## 85 years of experience

Since we built our first pumps in 1938, Carver Pump has become recognized as one of the leading centrifugal pump companies, building to the most demanding engineering specifications and military standards in the world.

Carver Pump's quality management system is certified by Intertek to conform to ISO 9001:2015. Our commitment to quality includes not only our hardware,

but also superior customer service, leading-edge R&D, and continuous improvement in everything we do.

So whether the job is refueling fighter jets on the deck of an aircraft carrier, supplying paint to an auto assembly line, or bringing water to the fountain in a city park, we put our reputation on the line everyday with every pump we build.



### CARVER SNAPSHOT

Latin America's largest international cargo airport needed a 100% reliable fueling system. The solution: ten of our 6x4x13 carbon steel API Maxum pumps.

### YOUR NEEDS FIRST

Whether you're working with one of our distributors or directly with a team member, we take the time to fully understand your goals, ensuring that our product exactly fits your needs. It's not about selling equipment – it's about solving or eliminating problems before they develop.

### DELIVERING FASTER

All of our pumps are designed and built in the USA. We have full command of our supply chain and know exactly where things are coming from and where they're going. As a result, we respond and deliver faster.

### PROUD OF OUR ROOTS

Our company is headquartered in Muscatine, Iowa, where our pumps are engineered and manufactured. Our third-generation family ownership and commitment to American manufacturing give our customers, partners and employees confidence. We're proud of the fact that we didn't buy our market share – we earned it.

### MILITARY GRADE

For decades, our products have been successfully living up to the intense demands of the US Navy. This increased level of scrutiny has driven us to achieve exceptional durability and the highest level of precision.

# APPLICATIONS

It's hard to find an industry or market that doesn't use a Carver pump as its prime fluid mover.

## CARVER SNAPSHOT

The transfer of crude oil from producer to end user required a pump that could provide sustained high pressure and hold up to the harsh, changing climate of Canada's oil sands region. Carver Pump's RS (Ring Section) line was an easy choice for the LACT system booster pumps needed in this application. Our RS pumps produce up to 3400 ft TDH (Total Dynamic Head) and can easily pump oil long distances over changing elevations.



We build pumps for handling water, oil, chemicals and slurries for both the public and private sectors. Our full product line of horizontal, vertical, single and multistage pumps as well as extensive experience with metallic and composite materials and their applications have allowed us to apply pumps in a wide variety of services.



## OIL & GAS

Our products are used extensively in many upstream, midstream and downstream applications. These products are available fully compliant with API 610 11th Edition and in heavy-duty process configurations. Typical applications include process water injection, LACT systems, pipeline injection, refining, LNG processing and molten sulfur.



## PETROCHEM

We can help you select the right pump for your reactor, transfer or auxiliary system needs. We have solutions for highly corrosive fluids, temperatures to 700° F and challenging suction conditions.



## POWER GENERATION

Boiler feed and low-NPSH condensate applications are routine for us. We also offer highly engineered pumps for flue gas desulfurization filtrate and turbine lube oil systems.



## PULP & PAPER

High-pressure water requirements and vacuum belt filtration systems are common applications for our pumps. General water and drain collection transfer system needs can also be met.



## MINING & MINERALS

Our pumps are commonly used in mine dewatering and washdown services, belt filtration systems and light abrasives processing. We also have the right products for a wide range of water transfer and processing needs.



## MARINE

Our products are used in both commercial and Naval applications for propulsion and generator systems. Common services are general water, fuel and cargo transfer systems. Custom products are routinely developed for special applications to meet rigorous shock, vibration and noise requirements.



## DESALINATION & MUNICIPAL

Our pumps have the capability to solve challenging water and wastewater applications, including effluent transfer, plant water, and booster systems. We also support applications in reverse osmosis, high-pressure fresh water, condensate and brine transfer.



## INDUSTRIAL

Washdown, sump collection and transfer systems are typical applications for our industrial product lines. Pumps can be configured to accommodate special installation requirements, such as custom bases and piping. We offer the right metallurgy for everything from deionized water to sulfuric acid.



## COMMERCIAL

Pumps and packages are available for domestic water boosting, cooling towers, HVAC systems, irrigation and rainwater harvesting. Systems can include variable frequency drives, PLC controls, pressure and flow sensing, and interfaces with most building communication systems.



# INDUSTRIAL

We offer a full industrial product line with horizontal, vertical, single, and multistage pumps. Our pumps are engineered to handle high flows, high pressures, extreme temperatures, aggressive materials and/or entrained solids.



## GH - HORIZONTAL END-SUCTION PUMP

Flow to 2,500 GPM

Head to 520 ft. TDH

Close-coupled or frame-mounted

Fully compatible with standard, off-the-shelf NEMA JP frame motors



## ETA - HIGH-CAPACITY END-SUCTION PUMP

Flow to 10,000 GPM

Head to 360 ft. TDH

Rugged and high-efficiency design

Electric motor, diesel engine or steam turbine-driven



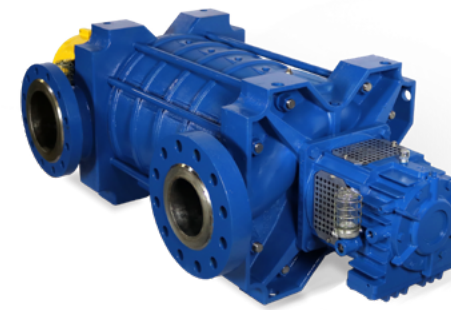
## KWP - NON-CLOGGING PROCESS PUMP

Flow to 1,300 GPM

Head to 240 ft. TDH

Close-coupled or frame-mounted

Designed for fluids with entrained solids and fibrous materials up to 1.5" in diameter



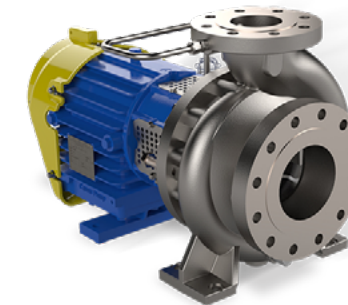
## RS - MULTISTAGE RING SECTION PUMP

Flows to 2,000 GPM

Heads to 3,400 ft. TDH.

Water and fan cooling available for high-temperature applications

Suction and discharge casings can be rotated to meet pipe configurations



## MAXUM OH1 - HEAVY-DUTY END-SUCTION PUMP

Flow to 11,500 GPM

Head to 720 ft. TDH

Designed to the rigorous standards of API 610 specifications

Oil mist lubrication available as a pre-engineered option

Heavy-duty bearing frame maximizes reliability



## API MAXUM OH2 - END-SUCTION PUMP

Flow to 11,500 GPM

Head to 720 ft. TDH

Fully complies with API 610 specifications

Oil mist lubrication available as a pre-engineered option

Operates at fluid temperatures to 600°F (315°C) without cooling water



## 855 - TANK-MOUNTED FILTRATE PUMP

Flow to 700 GPM

Head to 120 ft. TDH

Tank-mounted arrangement

Handles challenging suction conditions

Self-venting casing to prevent airlock

Optional swing-out mount





### 850 - HORIZONTAL FILTRATE PUMP

- Flow to 700 GPM
- Head to 120 ft. TDH
- Self-venting casing to prevent airlock
- Traditional frame-mounted design
- Side-by-side option



### 62C - VERTICAL CANTILEVER PUMP

- Flow to 2,500 GPM
- Solids to 1.25" diameter (32mm)
- Depths to 36"
- Cantilever-style design featuring non-wetted radial and thrust bearings located above support plate, with throttle bushing located immediately above the impeller



### 62S - VERTICAL SUMP PUMP

- Flow to 2,500 GPM
- Sump depths to 22 ft.
- Offered with carbon lineshaft bearings that comply with API-610 spacing guidelines
- A variety of shaft sealing available, including lip seals, packing, and double mechanical seals with a buffer fluid flush



### VLO - VERTICAL LUBE OIL PUMP

- Flow to 2,500 GPM
- Head to 1,800 ft. TDH
- Compatible with AC or DC motors
- Single or multistage



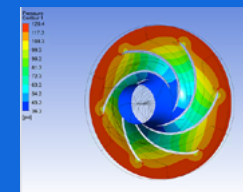
### RSV - VERTICAL INLINE MULTISTAGE PUMP

- Flow to 400 GPM
- Head to 830 ft. TDH
- Standard NEMA motor sizes fitted with no modifications
- Modular construction



## Custom Solutions

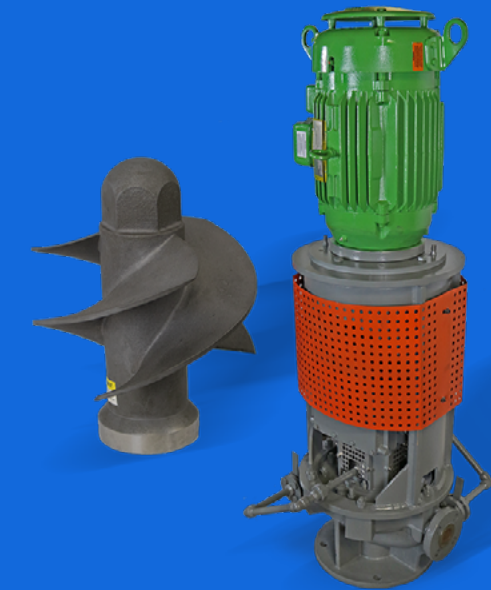
If you require special flows, pressures, temperatures, mounting, or drive configurations, we can create a pump specifically for you. We specialize in developing custom solutions for our customers. Our advanced design tools include cutting-edge solid modeling



software, powerful computer systems for analyzing structural problems and fluid flow, and exceptional hydraulic design

capabilities to address the most challenging performance requirements.

We routinely develop new products for very specific applications such as our tank-mounted 855 Series and new Naval ship systems. Many of our standard products can be highly customized for specific OEM applications such as parts washing systems and boiler/heat exchanger cleaning systems. Our approach is to integrate the pump design with the



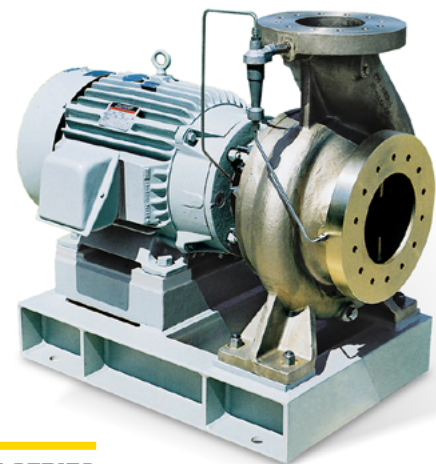
system to create as much value for our customers as possible.

Our engineers are available to help your next pump project excel. Whether it's improved efficiency, reduced horsepower, challenging suction performance or extreme environmental conditions, we will find the best solution to meet your goals for reliability and performance, with the quality and price you need.

# MARINE

Carver Pump has been a supplier in every major US Navy shipbuilding program for the past 60 years. Our pumps can be found on anything that floats: from US Coast Guard cutters and icebreakers, to even luxury yachts. Designed for onboard pumping of fresh water, seawater and other fluids, these include a wide assortment of axially split case, end suction (close-coupled or frame-mounted), horizontally- or vertically-mounted pumps.

Engineered to meet rigorous military specifications for high-impact shock loading, environmental impact, vibration and noise reduction, these pumps are available in cast iron, bronze-fitted, all-bronze, or Ni-Al bronze construction. We've also developed a new, proprietary high-strength, corrosion-resistant composite material for our pump internals, which has been put into service by the Navy.



M SERIES

We are proud of our long-term partnerships with the US Coast Guard and Military Sealift Command, and are active in the Commercial Marine industry, where we offer a full line of both horizontal and vertical pumps.

The MHF is our horizontal, close-coupled series. Our vertical pumps include the MVP vertical in-line, pedestal-mounted series, and the MVS vertical sump series capable of pumping from tanks 20 ft. below deck. Engineered for reliability with minimum space requirements, our Commercial Marine pumps are all built in accordance with ASTM F998, USCG and American Bureau of Shipping (ABS) requirements.

Most importantly, as with all our other pumps, these pumps offer the reliability, low lifetime cost and lasting value that has made Carver one of the most trusted names in pumps.



SND

## SHIPBUILDING PROGRAMS

- Ford Class Aircraft Carriers
- Virginia Class Fast Attack Submarines
- Arleigh Burke Class Destroyers
- Zumwalt Class Destroyers
- Freedom Class Littoral Combat Ships
- Independence Class Littoral Combat Ships
- San Antonio Class Amphibious Transport

## DOCK SHIPS

- America Class Amphibious Assault Ships
- Fortitude Class Joint High Speed Vessel
- Lewis and Clarke Dry Cargo/Ammunition Ships
- Berthoff Class National Security Cutters
- Sentinel Class Fast Response Cutters

## SERVICES & APPLICATIONS

- Fire pump
- Air conditioning, chilled water and seawater cooling
- Radar cooling
- Electronics cooling
- Main propulsion seawater
- Central seawater
- Auxiliary seawater
- Reverse osmosis/desalination
- Potable water
- JP 5 service
- Bilge

We partner with the US defense industry on many leading-edge R&D initiatives, collaborating with it to develop and improve the pumps of tomorrow.



## Contact us

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Approval Certification Number 95-370



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