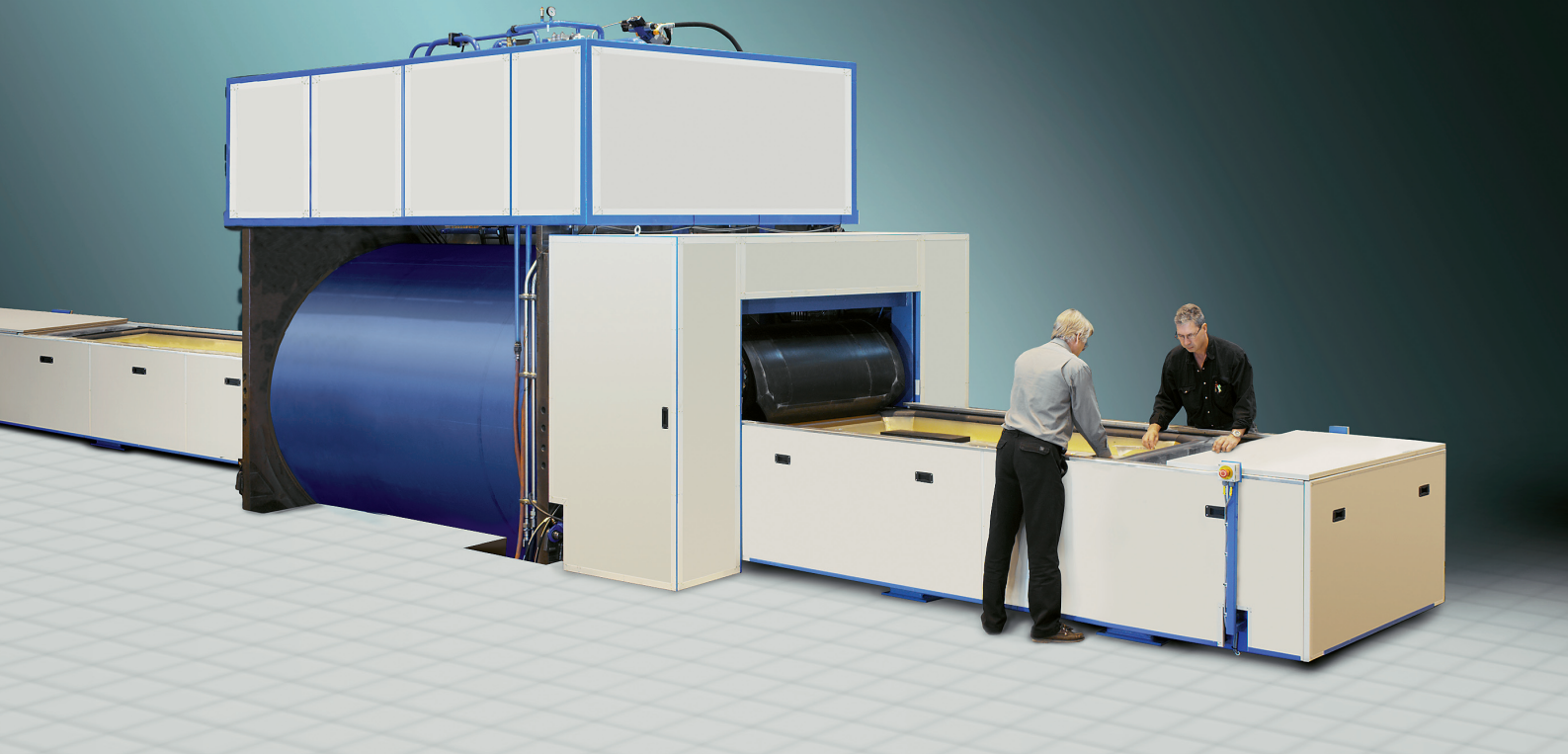


# Flexform™ Fluid Cell Press Type QFC 1x2-800



## Features and benefits

High pressure (80 MPa, 11,600 psi) produces complex shapes to close tolerances with little or no manual rework.

Very low tooling cost and greater flexibility in part design.

Fast cycles for higher throughput and productivity.

1x2 meter forming trays accept multiple sheet metal parts and tools, offering a flexible off-load or stand-alone system.

Compact, lightweight design allows quick and simple installation directly on the plant floor. No pit required.

## Low Cost Sheet Metal Forming

Flexform high pressure technology has been used for decades by such industry leaders as Airbus, Boeing, British Aerospace, Bombardier, Cessna, Lockheed, and many, many others. Users report shorter part lead times, significantly lower tooling costs (one piece instead of three), fast prototyping, and easy tool modification after component design changes. Formed parts can include small shallow components, large panels, and complex deep-drawn shapes.

The QFC 1x2-800 brings this same parts forming efficiency to the hundreds of major contract suppliers of aerospace components. Its intermediate size, affordable cost, and excellent productivity present a golden opportunity to suppliers that aim to be more globally competitive and profitable.

The Flexform concept is simple: sheet metal blanks are formed over a single rigid, shape defining tool half by a flexible rubber diaphragm under uniform hydrostatic pressure. Tool halves and blanks are freely placed in rectangular trays which shuttle in and out of the press frame containing the pressurized diaphragm. The process results in scratch-free parts regardless of the sheet thickness or complexity of the tool, including undercuts. High forming pressure ensures close tolerance parts direct from the press with little or no secondary hand work required.



## PRODUCT SPECIFICATION

### QUINTUS® Type QFC 1x2-800

Maximum operating pressure	80 MPa (11,600 psi)
Total press length, including tray stations	13.5 m (44.3 ft)
Total press length, including diaphragm exchange area	17.7 m (58.1 ft)
Total press width	2.2 m (7.2 ft)
Foundation depth	Placed at floor level
Total weight (on press foundation) (The above dimensions include the hydraulic equipment)	65 ton

#### Tray data

Number of tray stations	2
Maximum tray depth	220 mm (8.7")
Tray depth with one filler plate	170 mm (6.7")
Tray depth with two filler plates	120 mm (4.9")
Usable tray area with filler plate	1,000x2,000 mm (39.4"x78.7")
Usable tray area at full depth	1,000x2,000 mm (39.4"x78.7")

#### Transportation data

Gross weight of heaviest item	40 ton
Gross dimensions of heaviest item (LxWxH)	4.0x2.5x2.5 m (13.1x8.2x8.2 ft)

### Control system

Programmable controller (PLC)	Siemens
HMI panel	Siemens
Flat color touch screen size	10.4"

### Cycle time

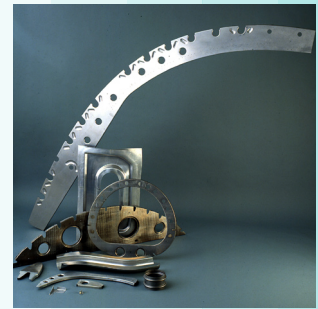
Cycle time at 120 mm (4.9") tray depth to full pressure with 50% tray loading	120 s
---	-------

### Sound level

Noise level at operator's station	<85 dB (A) equivalent
-----------------------------------	-----------------------

### Site utilities

<b>Electric power</b>	
Incoming current protection	150 A
Installed power	75 kW
Voltage (three-phase + ground)	380-480 V
Frequency	50/60 Hz



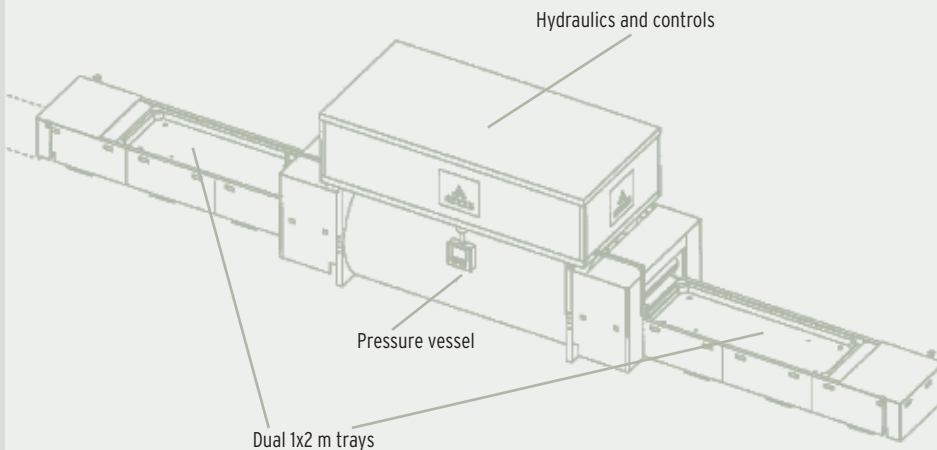
Aerospace parts made in aluminium alloys, stainless steel and titanium



Automotive prototypes and parts produced in low volumes for niche vehicles



Flexformed parts for prototyping and small series production



**Avure Technologies Inc  
Headquarters**  
22408 66th Avenue South  
Kent, WA 98032, U.S.A.  
Phone: +1 800 610 1798  
Fax: +1 253 981 6229

**Avure Technologies Inc  
Americas Sales & Service**  
3721 Corporate Drive  
Columbus, OH 43231, U.S.A.  
Phone: +1 614 891 2732  
Fax: +1 614 891 4568

**Avure Technologies AB  
Europe/Asia Sales & Service**  
Quintusvägen 2  
SE 721 66 Västerås, Sweden  
Phone: +46 21 327000  
Fax: +46 21 141817



For more  
information  
please visit:  
[www.avure.com](http://www.avure.com)

Or email:  
[sales@avure.com](mailto:sales@avure.com)