Flexform™ Fluid Cell Presses

Type QFC 0.7x1.8-800

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.
- Flexform 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.

High Performance Fluid Cell Press

The QFC 0.7x1.8-800 fluid cell press is designed specifically for the needs of small and medium sized lower tier aerospace providers. With its capacity, low initial and operating costs, ease of use and maintenance features, it dramatically lowers the cost and risk of entry into structural sheet metal part manufacturing. It is also suitable equipment for large volume producers in need of off-load and redundancy options.

The press design is based upon field proven technology and incorporates many new features to reach new levels of reliability and performance. The system is designed with a floor space efficient footprint and equipped with globally available standard low pressure hydraulics, linked to the well proven proprietary Quintus high-pressure intensifier pumping system.

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.

Fluid Cell Press Type QFC 0.7x1.8-800

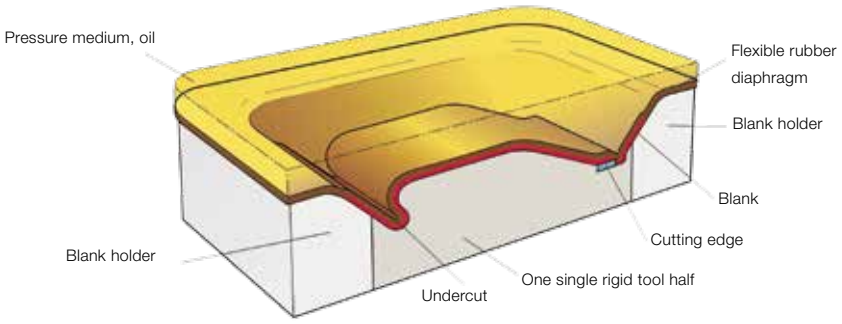
Maximum operating pressure	80 MPa / 11,600 psi
Press force	170 MN / 19,000 short ton
Total press length, including 2 tray stations	11 m / 36.1 ft
Total press length, including diaphragm exchange area	15 m / 49.2 ft
Total press width	2.3 m / 7.5 ft
Foundation depth	Placed at floor level
Total weight (on press foundation)	32,000 kg / 71,000 lb
(The above dimensions include the hydraulic equipment)	
Tray data	
Number of tray stations	1 or 2
Maximum tray depth	175 mm / 6.9”
Tray depth with one filler plate	125 mm / 4.9”
Tray depth with two filler plates	95 mm / 3.7”
Usable tray area with filler plate	700 x 1,830 mm / 27.6” x 72.0”
Usable tray area at full depth	700 x 1,830 mm / 27.6” x 72.0”
Transportation data	
Gross weight of heaviest item	32,000 kg / 71,000 lb
Gross dimensions of heaviest item (LxWxH)	3.0 x 2.5 x 3.0 m / 9.8 x 8.2 x 9.8 ft
Control system	
Programmable controller (PLC)	Allen-Bradley
HMI panel	Allen-Bradley
Flat color touch screen size	10.4”
Cycle time	
Cycle time at 95mm tray depth to full pressure with 50% tray loading	80 s
Sound level	
Noise level at operator’s station	<80 dB (A) equivalent
Site utilities – electric power	
Incoming current protection	160 A
Installed power	68 kW / 75 kW
Voltage (three-phase + ground)	380–480 V (± 5%)
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.

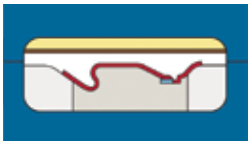
Flexformed parts for prototyping and small series production.

The Flexform Principle



Before forming

During forming



After forming

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