

TRIFORM

Sheet Hydroforming

- Proven Performance
- Low Cost Tooling
- Compact Design
- Modern Controls

About Triform...

The Triform line of sheet hydroforming presses is a development of the Pryer Technology Group (PTG). PTG is a union of highly experienced and successful professionals committed to offering solutions to its customers via advancements in new technology and the modernization of existing technology.

Triform sheet hydroforming presses are revolutionary. Since the 1980's there has been a clear and recognized need for an alternative solution to the older style fluid cell presses. By utilizing the latest computerized engineering software, modern hydraulics and advanced CNC-style controls, Triform now provides affordable hydroforming presses that are a must-have for manufacturers involved in sheet metal forming.

How is the Triform Unique?

The use of advanced engineering allowed for the design of a unique pressure containment system that significantly reduced the press size without sacrificing integrity or durability.

Triform Hydroform Presses are available in Deep Draw or Fluid Cell configurations in a variety of sizes.

Most Triform presses are highly portable and install in a matter of hours at any facility with no pit requirements. Each Triform is equipped with the latest in hydraulic and control technology and is standard with applicable guarding.



Benefits of Hydroforming

- Low tooling costs - Single Tool Technology
- Less complex tooling
- Net Shape part production
- Minimal part thinning
- Minimal spring back
- Ideal for high strength materials
- Draw complex parts in one cycle
- Minimal distortion of sheet surface finish
- Low work hardening

View us on the web at:
www.triformpress.com

“Meeting the Needs of Tomorrow’s Manufacturer”

FluidCell

Sheet Hydroforming



**3,560 Ton Fluid Cell
Model 1648-10BD**



Triform 16-5BD Press Specifications

Capabilities:	500 Ton *
Max. Chamber Pressure	5,000 psi (34.5 MPa)
Forming Area	16" dia. (406 mm)
Form Tool Clearance	4-3/4" (120 mm)
Daylight	5-1/2" (140 mm)

* Also available in 16-10BD configuration, featuring 10,000 PSI (69 MPa)

Triform 1648-5BD Press Specifications

Capabilities:	1,740 Ton *
Max. Chamber Pressure	5,000 psi (34.5 MPa)
Forming Area	16" x 48" (406 mm x 1,220 mm)
Form Tool Clearance	6" (152 mm)
Daylight	10" (254 mm)

* Also available in 1648-10BD configuration, featuring 10,000 PSI (69 MPa)

Triform 24-5BD Press Specifications

Capabilities:	1,130 Ton
Max. Chamber Pressure	5,000 psi (34.5 MPa)
Forming Area	24" dia. (610 mm)
Form Tool Clearance	5" (127 mm)
Daylight	6" (152 mm)

Triform 2448-5BD Press Specifications

Capabilities:	2,570 Ton
Max. Chamber Pressure	5,000 psi (34.5 MPa)
Forming Area	24" x 48" (610 mm x 1219 mm)
Form Tool Clearance	6" (152 mm)
Daylight	10" (254 mm)

Triform 2472-5BD Press Specifications

Capabilities:	4,010 Ton
Max. Chamber Pressure	5,000 psi (34.5 MPa)
Forming Area	24" x 72" (610 mm x 1829 mm)
Form Tool Clearance	6" (152 mm)
Daylight	7-7/8" (200 mm)

Triform 42-5SC Press Specifications

Capabilities:	3,460 Ton
Max. Chamber Pressure	5,000 psi (34.5 MPa)
Forming Area	42" dia. (1,067 mm)
Form Tool Clearance	5" (127 mm)

Deep Draw

Sheet Hydroforming

Triform 12-10-7BD Press Specifications

Capabilities:	565 Ton
Max. Chamber Pressure	10,000 psi (69 MPa)
Forming Area	12" dia. (305 mm)
Lower Punch Force	280 Tons
Lower Punch Stroke	7" (178 mm)
Draw Depth Capacity	7-1/2" (191 mm)
Max. Punch Tool Diameter	8-1/2" (216 mm)
Daylight	12" (305 mm)

Triform 16-10-7BD Press Specifications

Capabilities:	1,000 Ton
Max. Chamber Pressure	10,000 psi (69 MPa)
Forming Area	16" dia. (406 mm)
Lower Punch Force	380 Tons
Lower Punch Stroke	7" (178 mm)
Draw Depth Capacity	7-1/2" (191 mm)
Max. Punch Tool Diameter	12" (305 mm)
Daylight	12" (305 mm)

Triform 24-10-10SC Press Specifications

Capabilities:	2,200 Ton
Max. Chamber Pressure	10,000 psi (69 MPa)
Forming Area	24" dia. (610 mm)
Lower Punch Force	630 Tons
Lower Punch Stroke	10" (254 mm)
Draw Depth Capacity	10" (254 mm)
Max. Punch Tool Diameter	16-3/4" (425 mm)
Daylight	19-1/4" (489 mm)

Triform 32-10-12SC Press Specifications

Capabilities:	4,020 Ton
Max. Chamber Pressure	10,000 psi (69 MPa)
Forming Area	32" dia. (813 mm)
Lower Punch Force	2000 Tons
Lower Punch Stroke	12-1/2" (318 mm)
Draw Depth Capacity	13" (330 mm)
Max. Punch Tool Diameter	26" (660 mm)
Daylight	18" (457 mm)



1,000 Ton Deep Draw
Model 16-10-7BD



Why Triform?

The Triform creators are highly experienced engineering and manufacturing professionals with decades of involvement in the aerospace and machine tool industries. Through first-hand experience and extensive research, it was found that existing hydroform presses were too expensive, too heavy and physically impractical for many users. Additionally, quality used hydroform presses are rare and often antiquated with unreliable controls and hydraulic systems.

Performance has been enhanced with CNC controlled Deep Draw capability, while simplicity can be found in Fluid Cell Triforms which provide an economical solution for shallow parts. The Triform Fluid Cell series offers compact efficiency and eliminates high-cost maintenance associated with older tray style hydroform machines.

Triform is the proven solution for modernized sheet hydroform presses.



**500 Ton Fluid Cell
Model 16-5BD**



Triform Hydroform Press Models

Triform BD: Cost efficient 'block design' affords an Ultra Compact and Portable machine platform.

Triform SC: Large blank high pressure capacity 'spherical design' minimizes footprint for maximum portability.

Fluid Cell Process: High performance alternative to Pad Forming. These systems are equipped with modern control systems designed for simplified programmable performance in a rugged and reliable package.

Deep Draw Process: In addition to the Fluid Cell Process, Deep Draw capability is available by utilizing a punch ram. These systems are equipped with fully programmable precision CNC control of the forming pressure (down to 1% of full scale) and punch travel (± 0.002 ").

Triform - Custom: Triform Hydroforming technology is available in many different configurations with forming pressures to 15,000 psi, consult your sales professional for one designed to your specifications.



**2,570 Ton Fluid Cell
Model 2448-5BD
w/ Dual Shuttles**



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