

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

About the Pryer Technology Group (PTG)

The Pryer Technology Group is a union of highly experienced and successful manufacturing professionals that are committed to offering solutions to its customers via advancements in new technology and the modernization of past technology.

PTG has demonstrated this ability through its introduction of a revolutionary hydroform press system for sheet hydroforming applications. Since the 1980's, there has been a clear and recognized need for an alternative solution to the older styled bladder presses. By utilizing the latest computerized engineering software, modern hydraulics and advanced CNC styled controls, PTG has created affordable hydroforming presses that are a must have for manufacturers in the sheet hydroforming industry.

Pryer Technology Group's experience in the Aerospace, Automotive and Lighting industries adds value to its product offering. Our customers benefit from cross over technologies such as net shape part production, single tool technology and deep draw applications.

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 with CNC Deep Draw or bladder only capabilities in a variety of sizes.

All Triform Presses are highly portable and install in a matter of hours at any facility. Each hydroform press is equipped with the latest in hydraulic and control technology and is standard with applicable guarding.



Benefits of Hydroforming

- Lower 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 press cycle
- No distortion of sheet surface finish
- Low work hardening

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www.hydroformingpress.com

“Meeting the Needs of Tomorrow’s Manufacturer”

TRIFORM-BD

Sheet Hydroforming



500 ton Triform-BD
Model 16-5BD



Triform 16-5BD Press Specifications

Capabilities:	500 Ton
Max. Chamber Pressure	5,000 psi (34.5 Mpa)
Bladder	16" (406 mm)
Form Tool Clearance	5" (127 mm)
Daylight	6" (152 mm)

Triform 1632-5BD Press Specifications

Capabilities:	1,140 Ton
Max. Chamber Pressure	5,000 psi (34.5 Mpa)
Bladder	16" x 32" (406 mm x 812 mm)
Form Tool Clearance	5" (127 mm)
Daylight	6" (152 mm)

Triform 24-5BD Press Specifications

Capabilities:	1,130 Ton
Max. Chamber Pressure	5,000 psi (34.5 Mpa)
Bladder	24" (609 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)
Bladder	24" x 48" (610 mm x 1219 mm)
Form Tool Clearance	6" (152 mm)
Daylight	7-7/8" (200 mm)

Triform 12-10-7BD Press Specifications

Capabilities:	565 Ton
Max. Chamber Pressure	10,000 psi (69 Mpa)
Max. Blank Diameter	12" (305 mm)
Lower Punch Force	280 Tons
Lower Punch Stroke	7" (178 mm)
Draw Depth Capacity	7.5" (191 mm)
Max. Punch Tool Diameter	8.5" (215 mm)
Daylight	12" (305 mm)

Triform 16-10-7BD Press Specifications

Capabilities:	1,000 Ton
Max. Chamber Pressure	10,000 psi (69 MPa)
Max. Blank Diameter	16" (406 mm)
Lower Punch Force	280 Tons
Lower Punch Stroke	7" (178 mm)
Draw Depth Capacity	8" (203 mm)
Max. Punch Tool Diameter	12" (432 mm)
Daylight	17.25" (438 mm)

Blow-Down,
Bladder Only
Hydroform Systems

Provides
Blow-Down Only or
Blow-Down with Punch
for Deep Draw Capability

TRIFORM-SC

Sheet Hydroforming

Triform 24-10-10SC Press Specifications

Capabilities:	2,200 Ton
Max. Chamber Pressure	10,000 psi (69 MPa)
Max. Blank Diameter	24" (609 mm)
Lower Punch Force	630 Tons
Lower Punch Stroke	10" (254 mm)
Draw Depth Capacity	10" (254 mm)
Max. Punch Tool Diameter	17" (432 mm)
Daylight	19.25" (489 mm)



2,200 ton Triform-SC Model 24-10-10SC

Triform 32-10-12SC Press Specifications

Capabilities:	4,020 Ton
Max. Chamber Pressure	10,000 psi (69 MPa)
Max. Blank Diameter	32" (813 mm)
Lower Punch Force	2000 Tons
Lower Punch Stroke	12.5" (318 mm)
Draw Depth Capacity	13" (330 mm)
Max. Punch Tool Diameter	26" (660 mm)
Daylight	19.25" (489 mm)



Triform 42-5-5C Press Specifications

Capabilities:	3,460 Ton
Max. Chamber Pressure	5,000 psi (34.5 MPa)
Bladder Diameter	42" (1,067 mm)
Daylight	19.25" (489 mm)



Provides Blow-Down Only or Blow-Down with Punch for Deep Draw Capability

Blow-Down, Bladder Only Hydroform Systems



The Genesis of the Triform

The founders of PTG are highly experienced engineers and manufacturing professionals with decades of experience in the aerospace and machine tool industries. From their own experience and 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 questionable control and hydraulic systems.

After development of the CNC controlled Deep Draw Triform systems, it was evident that there was an additional need for a simple, economical solution for shallow hydroformed parts. The Triform-BD series was created to provide the benefits of the Triform where a deep draw is not required.

PTG realized the need for modernized sheet hydroform presses and has engineered a proven solution.



Triform Hydroform Press Models

Triform SC: High performance CNC Deep Draw

- Precision CNC control of the forming pressure (down to 1% of full scale) and punch travel ($\pm 0.002''$)

Triform BD: High performance alternative to Pad Forming

- Modern Control System designed for rugged and reliable performance
- Standard Bladder only design with optional shallow draw available
- Cost efficient

Triform - Custom

- Triform Hydroforming technology is available in many different configurations, consult your sales professional for one designed to your specifications



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