

# TRIFORM-BD

## Sheet Hydroforming

*Press Model  
12-10-7BD*

### The New Technology in Sheet Hydroforming

The Triform Press is a Sheet Hydroformer with a unique and specially engineered system. It is based upon a century of proven techniques that has been modernized to meet the demands of today's sheet hydroforming manufacturers. The Pryer Technology Group (PTG) has engineered and modernized a system that is compact, highly versatile and cost efficient. The result is a portable, CNC controlled press with 1/3 the weight of traditional systems.

### Why Triform?

The Triform family of presses was developed by Pryer Technology Group (PTG). The founders of PTG are highly experienced engineers and manufacturing professionals with backgrounds 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. PTG realized the need for a modernized sheet hydroformer and engineered a proven solution.

### 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. The 565 ton press requires no special flooring or ceiling height requirements which eliminates the need for expensive pits and foundations. It is highly portable and installs in one day at any facility. The Triform Sheet Hydroformer is equipped standard with CNC controls for fast job set up and tight control of the forming process.



**565 ton Triform-BD  
Model 12-10-7BD**

### Hydropress Features and Benefits

- Deep Draw Hydroforming
- High pressure containment system allows for the production of complex shapes for tight tolerance parts
- Single Tool Technology
- Compact and lightweight design allows for portability and flush floor operation
- Easy setup and quick installation
- Value Engineered
- Designed for low maintenance and durability
- Precision control of the forming pressure down to 1% of full scale and .002" of punch travel
- Low tooling costs and greater flexibility with processes and part design
- High speed cycle times for product productivity
- Net shaped part capability

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**[www.hydroformingpress.com](http://www.hydroformingpress.com)**

## 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)

System Dimensions:	
Overall System Length	36" (91 cm)
Overall System Width	110" (279 cm)
Overall System Height	100" (254 cm)
Floor Space Required	146" x 48" (370 x 122 cm)
Total System Weight	25,000 lbs. (11,340 kg)

Control System:	
CNC/PLC	Allen Bradley
Electrical By	Allen Bradley
Touchscreen Interface	AB PanelView (Color)
Job Storage/Recall	500+ Job Capacity

Power System:	
Main Motor Horsepower	75 HP
Pump Manufacturer	Oil Gear
Working Fluid	ISO 46 W
Heat Exchanger	Included
Temp/Level Sight Gauge	Included
Main Power	480V
Phase	3 Phase
Hz	60 Hz
Control System Voltage	110V
FLA Draw	85 Amps
Alternative Power Configurations Available	

Performance:	
Forming Pressure Control	(+/-) 1%
Forming Position Control	(+/-) .002" (0.05mm)

## CNC Control

The hydroform press is fully programmable:

- Bladder only mode
- Punch mode

The full featured control offer job storage and recipe handling with expansion capabilities. In addition to sequential programming of pressure and position, the operator interface data/program screens include:

- System Diagnostics
- Alarm Handling and Logging
- Multi-level password protection
- OEM set-up screen for remote system performance adjustments
- PLC Input / Output visualization
- Batch Counter
- Cycle Timer

Optional remote VPN connection via Ethernet allows for the press system to be monitored by the factory for immediate technical support.



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