

**"UNPARALLELED PERFORMANCE AND SAFETY UNDER PRESSURE!"** <sup>®</sup>



SelectForm<sup>®</sup>

## Model 400

### Hydraulic Power Pack

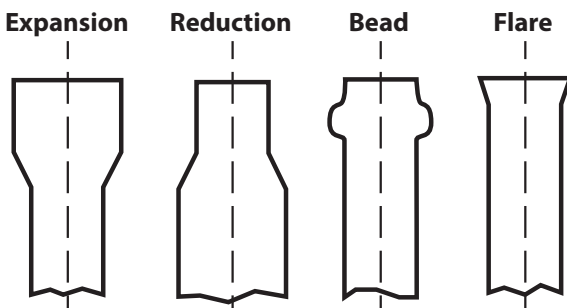
- Pressures from 0 up to 3,000 psi (207 bar)
- Power source for tube end forming tools
- Continuous duty cycle
- Cycle times as fast as 2 seconds
- Portable system mounted on casters
- Manufactured to customer specifications

#### DESCRIPTION

The SelectForm<sup>®</sup> Model 400 Hydraulic Power Pack is designed specifically to meet the needs of Airmo End Forming Tooling. This power pack is equipped with valves and circuitry to reliably operate hand-held and modular end forming tools. The standard Model 400 Hydraulic Power Pack is supplied with an integral oil to air heat exchanger for cooling the hydraulic fluid, and provides for a continuous duty cycle.

The Airmo SelectForm<sup>®</sup> hand-held or modular tooling can produce the end forms shown below. Either tooling style can be mounted to the top of the hydraulic power pack using optional stand and clamps.

#### COMMON END FORMS



#### OPERATION

The SelectForm<sup>®</sup> Model 400 Hydraulic Power Pack when used with Airmo tooling is easy to operate. Simply insert the tube into the tool and actuate the electronically operated foot switch. The system cycles automatically, producing a finished form in 2 to 5 seconds. End forming tools can be quickly changed over using quick disconnect couplings.

#### APPLICATION

The SelectForm<sup>®</sup> Model 400 Hydraulic Power Pack can be operated as a stand alone unit or in-line with other processes.

End forming tools are used for manufacturing processes in a variety of industries, including:

- Aerospace/aircraft
- On/off road mobile vehicles
- Boiler manufacturers
- Outdoor power equipment
- Heat exchanger/radiator
- Plumbing fittings
- Military/defense
- Sports equipment
- Metal furniture
- Tube and pipe mills
- Nuclear/hydro-electric
- Boats/water craft

#### SYSTEM CONFIGURATION

Machine Size:	25 in. x 17 in. x 35 in. (635 mm x 432 mm x 889 mm)
Maximum Pressure:	3,000 psi (207 bar)
Hydraulic Fluid	10 US gallon (38 liters)
Reservoir:	
Maximum Oil Flow:	.66 gpm (2.5 lpm)
Valves:	24 Vdc for safety
Electrical:	Tailored to electrical service used
Options:	Auxiliary top plate to mount clamps for holding larger tools

#### OPERATING CONDITIONS

Temperature:	32° F to 120° F (0° C to 49° C)
Cycle Time:	2 seconds for small end forming tools
Noise Level:	System runs quietly

**MAXIMUM PRESSURE**  
**3,000 psi**  
**207 bar**

SelectForm®  
**Model 400**  
Hydraulic Power Pack

## BASIC SYSTEM

The Model 400 Hydraulic Power Pack basic system is configured as follows:

- **Electric motor**, 1.5 horsepower
- **Gear pump**, with pressure output of 3,000 psi (207 bar)
- **Electrical enclosure**, contains controls and circuitry to run system
- **Hydraulic fluid reservoir**, 10 US gallons (38 liters)
- **Reservoir oil level and temperature indicator**
- **Heat exchanger**, to maintain oil at safe temperature
- **Pressure gauge**, 3,000 psi (207 bar)
- **Pressure relief valves**
- **Directional control valve**
- **Integral filter with indicator**
- **Casters**, for easy portability
- **Foot pedal**, controls pressure cycle
- **High-pressure hoses and quick disconnect couplings**

## POPULAR OPTIONS

Popular options available for the Model 400 Hydraulic Power Pack include:

- **Digital pressure switch**, automatically reverses the end forming tool after form is made. Enables easy pressure adjustment.
- **Slide mechanism**, to initiate forming cycle by inserting tube into tool.
- **Auxiliary stand with top plate**, provides work surface above power pack; convenient for mounting end forming tools.
- **Tool clamp**, secures tool on top plate, auxiliary stand, or another work surface.

## CUSTOM-DESIGNED OPTIONS

The Model 400 End Forming System can be custom-built with features such as:

- **PLC touch screen**, provides visual display for accurate, repeatable performance with no pressure loss.
- **Optical touch switch**, uses LED indicators to sense finger placement to activate system pressure cycle.
- **Hydraulic manifold**, ability to add up to seven hydraulic hoses for mounting handle-held end forming tools.



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