

ProForm®

HIGH PRESSURE HYDRO FORMING



From the company that pioneered the use of hydro forming for plastics 30 years ago comes the latest generation hydro form machine. The PF60 offers all the benefits of previous hydro form machines with the added benefit of a heated tool. Significant upgrades to the hydraulic and table drive systems **substantially improve reliability and reduces energy consumption by 50%**. The PF60 ProForm® combines the **proven hydro form embossing process with heated tooling in a more efficient cost-effective package.**

1. Registration

Pin registered, single sided tooling insures the tightest registration possible. Typical ProForm registration tolerance is +/- .005 (+/- 1.27mm).

2. Tool Cost

For typical graphic overlay embossing such as pads and rails, simple low cost, photo etched tooling may be used. This significantly reduces tool cost and lead time associated with match metal male female tooling. Photo etched tools can be produced in-house.

3. Material Stress

The hydro form process is the least destructive embossing method. The material is clamped firmly by our patented diaphragm design and then gently formed into place. Lower stress equates to flat parts and less chance for de-lamination in the field.

4. Support

For customers new to the hydro form process Hy•Tech offers all the technical support needed to be productive on day one. In addition to engineering look-up lists for polymer tooling Hy•Tech also offers tooling for more complex geometries. Tools arrive ready to run with no development costs.

ProForm® Series

MODEL	PF 60	
Measurement Type	Imperial	Metric
FORMAT		
Maximum Form Area	324 in ²	8230 mm ²
Standard Sheet Size	18" x 18"	457 x 457
Longest Possible Sheet	26" x 9"	660 x 229
MACHINE SPECIFICATIONS		
Machine Dimensions	110" x 80" x 79"	2794 x 2032 x 2007
Machine Weight	20000 lb	9000 kg
Form Height	.001" - .198"	.025 - 5
Forming Pressure	4500 psi	310 Bar
Forming Temperature	75 - 160°F	24 - 71° C
Cycle Time	20 - 40s	
Operating Noise Level	72 dB	
MACHINE FEATURES		
PC based PLC w/ Touch Screen Interface	Yes	
Remote Diagnostics	Yes	
Linear Drive Table	Yes	
Heated Table Control	Yes	
No Force Table Activation Switches	Yes	
Light Safety Curtains	Yes	
Door Safety Switches	Yes	
Side Tables	Yes	
MACHINE WARRANTY		
Parts	360 Days	
Labor	90 Days	
REQUIRED SERVICE		
ELECTRICITY	380 - 460 V, 3 Ph, 30 kW	
	65 - 85 Amp Service	
SHOP AIR	100 - 140 PSI	6.89 - 9.65 Bar
	25 CFM	.70 CMM
COOLING WATER	5 - 10 Gal/Min	18 - 30 L/Min
	68 - 86°F	20 - 30°C



USA: sales@hytechusa.com
 EURO: sales@hytecheuro.co.uk
 ASIA: sales@hytechasia.com.sg

www.hytechusa.com
 USA +1 602 944 1526