DESCRIPTION



Figure 2 - Piranha 4400MAX w/ Ball Transfer Tables (optional)

The Piranha 4400MAX Combination Machine Tool uses the fastest technologies to make parts – Punching and Plasma Cutting.

- Punched holes provide accurate internal features.
- It is faster to punch holes than to pierce and contour holes with plasma or laser.
- External features are plasma cut. Advanced plasma-cutting technology provides highly productive contouring (much faster than laser) with high quality.
 - Small kerf angle (vertical cuts)
 - Dross-free cutting
- Additional features such as forming (countersinks, tread plate, louvers), drilling and tapping can be added to eliminate additional downstream operations, allowing parts to be completed in a single operation.

Manufacturing costs are lower using the combination machine technology.

- Labor costs are lower because it takes significantly less time to manufacture the parts.
- Operating costs are lower.
- Amortization of capital costs is significantly lower since
- Lower initial capital cost than laser
- Faster cycle time Cost of capital per fabricated part is lower because capital costs are amortized over more fabricated parts.

The PROFIT-DOUBLER

- Higher profit per part —lower overall cost per piece gives a higher profit margin per piece.
- More parts generating profit—more parts are produced (in the same amount of time) on a combination machine, so there are more parts generating profit than on the other technologies.

SPECIFICATIONS – MODEL 4400MAX

	INCH	METRIC
PUNCHING FORCE	100 Tons	900 kN
MATERIAL THICKNESS		
Minimum	.074" (14 GA)	2.0 mm
Maximum	1.000"	25.0 mm
MAXIMUM PUNCH DIAMETER	3.000"	76 mm
PUNCHING CAPACITY A36 (60ksi / 410 MPa Shea	ar Strength)	
.375" (10 mm)	2.828"	71.8 mm
.500" (12 mm)	2.109"	53.5 mm
.750" (19 mm)	1.406"	35.7 mm
1.000" (25 mm)	1.047"	26.6 mm
PUNCHING HIT RATE	12	5 HPM
10 gage (3 mm) material punched on 1" (25.4 mm) c		
To gage (commy material parterior en 1 (2011 mm) c		
MAXIMUM POSITIONING AREA		
X-axis	170"	4325 mm
Y-axis	96"	2450 mm
NOMINAL BLANK SIZE		Z-TOO IIIIII
Without Auxiliary Tables	96" X 160"	2450mm x 4000mm
The 4400MAX can punch and plasma cut a full 8' x 1		
EXTENDED BLANK SIZE	10 2430 x 3000 mmij sneet of mat	errar without repositioning.
With Auxiliary Tables and Repositioning	96" x 320"	2450mm x 4000mm
The 4400MAX can punch and plasma cut a full 8' x 1		
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POSITIONING SPEED PER AXIS POSITIONING ACCURACY	1,200 IPM	30,000 mm/min
	±0.005"	±0.13 mm
MINIMUM PROGRAMMED INCREMENT	0.001"	0.01 mm
MAXIMUM MATERIAL WEIGHT	4,900 #	2,250 kg
MAXIMUM BLANK SIZE		
Standard X-Axis Without Auxiliary Tables	96" x 160"	2450 x 4000 mm
Extended X-Axis Without Auxiliary Tables	96" x 320"	2450 x 8000 mm
Longer plates may be accomodated in certain applic by W. A. Whitney.	cations using automated reposition	ning. These applications must be reviewe
FOUNDATION REQUIREMENT		
An 13" / 330 mm reinforced concrete foundation is re	equired beneath the press frame.	
ELECTRICAL REQUIREMENTS		
460/3/60	17	75 KVA
Contact W. A. Whitney for voltages other than 460/3,	/60.	
APPROXIMATE FLOOR SPACE		
Front - Back	268"	11420mm
Left - Right	370"	9400mm
Height - Machine	120"	2953mm
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