

## DESCRIPTION



*Figure 2 - 3400XP with skeleton unload table & small parts conveyor (optional)*

The Whitney 3400XP 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 3400XP**

	<b>INCH</b>	<b>METRIC</b>
<b>PUNCHING FORCE</b>	40 Tons	360 kN
<b>MATERIAL THICKNESS</b>		
Minimum	.060"	1.5 mm
Maximum	.500"	12.7 mm
<b>MAXIMUM PUNCH DIAMETER</b>	5.000"	127 mm
<b>PUNCHING CAPACITY A36 (60ksi / 410 MPa Shear Strength)</b>		
.250" (6 mm)	4.703" (shear)	119.5 mm (shear)
.375" (10 mm)	2.344" (shear)	59.5 mm (shear)
.500" (12.7 mm)	1.406" (shear)	35.7 mm (flat)
<b>PUNCHING HIT RATE</b>	125 HPM	
<i>10 gage (3 mm) material punched on 1" (25.4 mm) centers</i>		
<b>MAXIMUM POSITIONING AREA</b>		
X-axis	141.3"	3590 mm
Y-axis	61.6"	1565 mm
<b>NOMINAL BLANK SIZE</b>		
Without Auxiliary Tables	60" x 120"	1500 x 3000 mm
<i>The 3400XP can punch and plasma cut a full 5' x 10' (1500 x 3000 mm) sheet of material without repositioning.</i>		
<b>EXTENDED BLANK SIZE</b>		
With Auxiliary Tables and Repositioning	60" x 240"	1500 x 6000 mm
<i>Longer plates may be accommodated in certain applications using multiple automated repositioning cycles. These applications must be reviewed by W. A. Whitney.</i>		
<b>POSITIONING SPEED PER AXIS</b>	1,200 in/min	30 M/min
<b>POSITIONING ACCURACY</b>	±0.005"	±0.13 mm
<b>MINIMUM PROGRAMMED INCREMENT</b>	0.001"	0.01 mm
<b>MAXIMUM MATERIAL WEIGHT</b>	1,000 #	450 kg
<b>APPROXIMATE SHIPPING WEIGHT</b>		
Base Machine & Accessories	28,000 #	12,700 kg
<i>Optional accessories will increase overall shipping weight. Largest component weight is less than 20,000 # / 9,100 kg</i>		
<b>FOUNDATION REQUIREMENT</b>		
<i>An 8" / 200 mm reinforced concrete foundation is required beneath the press frame. See specific foundation requirements.</i>		
<b>ELECTRICAL REQUIREMENTS</b>		
480/3/60	120 KVA	
<i>Contact W. A. Whitney for voltages other than 480/3/60</i>		
<b>APPROXIMATE FLOOR SPACE</b>		
Front - Back	288"	7,306 mm
Left - Right	328"	8,333 mm
Height - Machine	96"	2,437 mm
Height - Including Dust Collector	172"	4,381 mm
<i>Base machine and required accessories only. Actual floor space and height requirements can vary with options. Contact W. A. Whitney for detail floor space requirements.</i>		