

PM SERIES

Hydraulic Punching Machine

- The patented dual-piston hydraulic cylinder enables the machine to retract faster, and also makes our cylinder slimmer, which brings a better appearance to the machine.
- Punching machines ranging from 38 to 220 tons of punching capacities, combined with different throat depths to choose from, provides a complete range of models to meet our customer's wide range of requirements.
- All optional tooling used on the punching station of S/SD ironworkers can also be used on the PM models, turning the punching machine into a universal machine.



PM-60LT



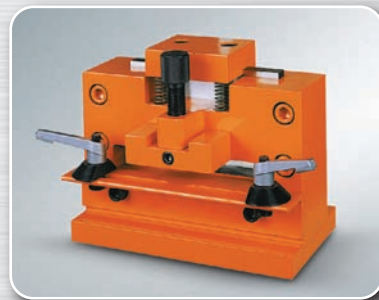
*Bar shearing.



*Channel shearing.



*Angle shearing.



*Flat bar shearing.



*Rectangular notcher.

Capacities and Specifications

Unit: inch

MODEL	PM-38T PM-38LT PM-38XT	PM-60T PM-60LT PM-60XT	PM-88T PM-88LT PM-88XT	PM-130LT PM-130XT	PM-175LT PM-175XT	PM-220LT PM-220XT
PUNCHING						
Punching Pressure	38 Ton	60 Ton	88 Ton	130 Ton	175 Ton	220 Ton
Punch Capacity (Diameter x Thickness)	$\phi 1\frac{1}{16} \times \frac{9}{16}$ $\phi 2 \times \frac{3}{16}$	$\phi \frac{7}{8} \times \frac{11}{16}$ $\phi 2 \times \frac{5}{16}$	$\phi 1 \times \frac{7}{8}$ $\phi 2 \times \frac{7}{16}$	$\phi 1\frac{1}{4} \times \frac{11}{16}$ $\phi 2 \times \frac{11}{16}$	$\phi 1\frac{3}{8} \times \frac{11}{4}$ $\phi 2 \times \frac{7}{8}$	$\phi 1\frac{5}{8} \times \frac{13}{8}$ $\phi 2 \times \frac{11}{8}$
Channel Flange Punch (Height)	7	7	7	7	7	7
Throat Depth	T: 12 LT: 20 XT: 30	12 20 30	12 20 30	— 20 30	— 20 30	— 20 30
Maximum Stroke Length	4	4	4	4	4	4
Cycles/Min. (3/4" stroke)	41	28	28	26	27	28
Table Size (W x D)	T: $27\frac{1}{2} \times 20$ LT: $27\frac{1}{2} \times 27\frac{1}{2}$ XT: $27\frac{1}{2} \times 37\frac{1}{2}$	$27\frac{1}{2} \times 20$ $27\frac{1}{2} \times 27\frac{1}{2}$ $27\frac{1}{2} \times 37\frac{1}{2}$	$27\frac{1}{2} \times 20$ $27\frac{1}{2} \times 27\frac{1}{2}$ $27\frac{1}{2} \times 37\frac{1}{2}$	— $27\frac{1}{2} \times 27\frac{1}{2}$ $27\frac{1}{2} \times 37\frac{1}{2}$	— $27\frac{1}{2} \times 27\frac{1}{2}$ $27\frac{1}{2} \times 37\frac{1}{2}$	— $27\frac{1}{2} \times 27\frac{1}{2}$ $27\frac{1}{2} \times 37\frac{1}{2}$
Working Height Up to Die	$41\frac{1}{4}$	$41\frac{1}{4}$	$41\frac{1}{4}$	$41\frac{1}{4}$	$41\frac{1}{4}$	$41\frac{1}{4}$
OPTIONAL TOOLING						
Largest Hole*	$\phi 6 \times \frac{1}{16}$	$\phi 6 \times \frac{1}{8}$	$\phi 6 \times \frac{3}{16}$	$\phi 8 \times \frac{1}{4}$	$\phi 8 \times \frac{5}{16}$	$\phi 8 \times \frac{3}{8}$
Single Vee Press Brake (W x T)*	$10 \times \frac{1}{2}$	$10 \times \frac{5}{8}$	$10 \times \frac{5}{8}$	$10 \times \frac{3}{4}$	$10 \times \frac{3}{4}$	$10 \times \frac{3}{4}$
Multi Vee Press Brake (W x T)*	$20 \times \frac{1}{8}$	$20 \times \frac{3}{16}$	$20 \times \frac{3}{16}$	$27\frac{1}{2} \times \frac{3}{16}$	$27\frac{1}{2} \times \frac{3}{16}$	$27\frac{1}{2} \times \frac{3}{16}$
Angle Bending*	$4 \times \frac{1}{4}$	$4 \times \frac{3}{8}$	$4 \times \frac{1}{2}$	$4 \times \frac{1}{2}$	$4 \times \frac{1}{2}$	$4 \times \frac{1}{2}$
Rectangular Notcher (WxDxT)*	$2\frac{1}{2} \times 3\frac{1}{2} \times \frac{1}{4}$	$2\frac{1}{2} \times 3\frac{1}{2} \times \frac{5}{16}$	$2\frac{1}{2} \times 3\frac{1}{2} \times \frac{3}{8}$	$2\frac{1}{2} \times 3\frac{1}{2} \times \frac{1}{2}$	$2\frac{1}{2} \times 3\frac{1}{2} \times \frac{1}{2}$	$2\frac{1}{2} \times 3\frac{1}{2} \times \frac{1}{2}$
Vee Notcher (Side x Side x T)*	$5\frac{3}{4} \times 5\frac{3}{4} \times \frac{3}{16}$	$5\frac{3}{4} \times 5\frac{3}{4} \times \frac{1}{4}$	$5\frac{3}{4} \times 5\frac{3}{4} \times \frac{3}{8}$	$5\frac{3}{4} \times 5\frac{3}{4} \times \frac{1}{2}$	$5\frac{3}{4} \times 5\frac{3}{4} \times \frac{1}{2}$	$5\frac{3}{4} \times 5\frac{3}{4} \times \frac{1}{2}$
Pipe Notcher (Max diameter)*	$\phi 4$	$\phi 4$	$\phi 4$	$\phi 4$	$\phi 4$	$\phi 4$
Flat Bar Shearing*	$7 \times \frac{3}{16}$	$7 \times \frac{1}{4}$	$7 \times \frac{3}{8}$	$7 \times \frac{1}{2}$	$7 \times \frac{5}{8}$	$7 \times \frac{5}{8}$
Angle Shearing*	$3 \times 3 \times \frac{1}{4}$	$4 \times 4 \times \frac{1}{4}$	$4 \times 4 \times \frac{1}{2}$	$4 \times 4 \times \frac{1}{2}$	$4 \times 4 \times \frac{1}{2}$	$4 \times 4 \times \frac{1}{2}$
Round Bar Shearing*	$\phi 1\frac{1}{4}$	$\phi 1\frac{1}{4}$	$\phi 1\frac{1}{4}$	$\phi 1\frac{1}{4}$	$\phi 1\frac{1}{4}$	$\phi 1\frac{1}{4}$
Square Bar Shearing*	$1\frac{1}{8} \times 1\frac{1}{8}$	$1\frac{1}{4} \times 1\frac{1}{4}$	$1\frac{1}{4} \times 1\frac{1}{4}$	$1\frac{1}{4} \times 1\frac{1}{4}$	$1\frac{1}{4} \times 1\frac{1}{4}$	$1\frac{1}{4} \times 1\frac{1}{4}$
Channel Shearing*	4×2	4×2	4×2	4×2	4×2	4×2
OTHER						
Electric Power	5 HP	5 HP	7.5HP	10 HP	15 HP	20 HP
Net Weight (Apr.)	T: 2650 lb LT: 3325 lb XT: 4075 lb	3200 lb 4100 lb 4875 lb	3925 lb 4640 lb 6275 lb	— 6275 lb 7950 lb	— 7840 lb 10275 lb	— 9790 lb 12350 lb
Gross Weight (Apr.)	T: 2875 lb LT: 3625 lb XT: 4425 lb	3600 lb 4525 lb 5350 lb	4325 lb 5075 lb 6750 lb	— 6800 lb 8525 lb	— 8525 lb 11025 lb	— 10600 lb 13150 lb
Machine Dimension (Apr.)	T: $43 \times 33 \times 70$ (L x W x H) LT: $56 \times 33 \times 71$ XT: $72 \times 33 \times 72$	$46 \times 33 \times 77$ $60 \times 33 \times 77$ $76 \times 33 \times 77$	$51 \times 34 \times 78$ $64 \times 34 \times 78$ $81 \times 34 \times 78$	— $68 \times 38 \times 80$ $86 \times 38 \times 80$	— $74 \times 41 \times 82$ $94 \times 41 \times 84$	— $78 \times 50 \times 83$ $98 \times 50 \times 86$
Packing Dimension (Apr.)	T: $56 \times 38 \times 79$ (L x W x H) LT: $69 \times 38 \times 80$ XT: $85 \times 38 \times 81$	$59 \times 38 \times 87$ $73 \times 38 \times 87$ $88 \times 38 \times 87$	$63 \times 40 \times 87$ $77 \times 40 \times 87$ $93 \times 40 \times 87$	— $81 \times 44 \times 90$ $98 \times 44 \times 90$	— $87 \times 47 \times 91$ $106 \times 47 \times 94$	— $91 \times 56 \times 92$ $110 \times 56 \times 95$

* : Optional Tooling

Note: Based on low carbon / mild steel material strength of 65,000 PSI tensile.

Design and specifications subject to change without notice.

A 2-hole structural die holder and a 2-piece gauging table are provided as standard equipment on all punching machines.