

**APPROXIMATE TONNAGE REQUIRED
FOR PUNCHING ROUND HOLES IN MILD STEEL (50,000 psi shear strength)
Add 25% for A36 Steel**

Hole Dia. In Inches	20 GA. .036	18 GA. .048	16 GA. .060	14 GA. .075	12 GA. .105	11 GA. .120	10 GA. .135	3/16 .187	1/4 .250	5/16 .312	3/8 .375	1/2 .500
1/8	.35	.47	.59	.74	1.0	1.2	---	---	---	---	---	---
3/16	.53	.71	.89	1.1	1.6	1.8	2.0	2.8	---	---	---	---
1/4	.71	.94	1.2	1.5	2.1	2.4	2.7	3.7	4.9	---	---	---
5/16	.88	1.2	1.5	1.9	2.6	3.0	3.3	4.6	6.2	7.8	---	---
3/8	1.1	1.4	1.8	2.2	3.1	3.5	4.0	5.5	7.4	9.2	11.1	---
7/16	1.2	1.7	2.1	2.6	3.6	4.1	4.6	6.5	8.6	10.8	13.0	17.2
1/2	1.4	1.9	2.4	2.9	4.1	4.7	5.3	7.4	9.8	12.3	14.8	19.7
9/16	1.6	2.1	2.7	3.3	4.7	5.3	6.0	8.3	11.0	13.8	16.6	22.1
5/8	1.8	2.4	2.9	3.7	5.2	5.9	6.6	9.2	12.3	15.4	18.5	24.6
11/16	1.9	2.6	3.2	4.1	5.7	6.5	7.3	10.2	13.5	16.9	20.3	27.1
3/4	2.1	2.8	3.5	4.4	6.2	7.1	8.0	11.1	14.8	18.4	22.1	29.5
13/16	2.3	3.1	3.8	4.8	6.7	7.7	8.6	12.0	16.0	20.0	24.0	32.0
7/8	2.5	3.3	4.1	5.2	7.2	8.3	9.3	12.9	17.2	21.5	25.8	34.4
15/16	2.7	3.5	4.4	5.5	7.7	8.8	10.0	13.8	18.5	23.0	27.7	36.9
1	2.8	3.8	4.7	5.9	8.3	9.4	10.6	14.8	19.7	24.6	29.5	39.4
1 ½	4.2	5.6	7.0	8.8	12.3	14.1	15.8	22.1	29.5	36.8	44.2	58.9
2	5.6	7.5	9.4	11.7	16.4	18.8	21.1	29.5	39.3	49.1	58.9	78.5
2 ½	7.1	9.4	11.7	14.7	20.5	23.6	26.4	36.8	49.1	61.4	73.6	98.2
3	8.5	11.3	14.1	17.6	24.6	28.2	31.7	44.2	58.9	73.6	88.4	118
3 ½	9.9	13.1	16.4	20.5	28.8	32.7	37.0	51.5	68.7	85.9	103	137
4	11.3	15.0	18.8	23.5	32.8	37.6	42.2	58.9	78.5	98.2	118	157
4 ½	12.7	16.9	21.2	26.4	37.0	42.4	47.5	66.3	88.4	110	133	177
5	14.1	18.7	23.5	29.3	41.1	47.1	52.8	73.6	98.2	123	147	196

**To obtain tonnage required for punching round holes in mild steel multiply as follows:
3.1416 x Diameter of Hole x Material Thickness x 25 = Punching Tonnage Required for One Hole**

HMI SPECIFICATIONS

A	Throat Depth	D	Bore
B	Throat Height	E	Tonnage @ 2500 PSI
C	Stroke Length	F	Hydraulics (GPM)

MODEL	A	B	C	D	E	F	HP	Wt.**
3514	14	18	8	6	35	9	10	4,800
5014	14	18	8	7	48	9	10	5,900
6014	14	18	8	8	62	11	15	8,100
8014	14	18	8	9	79	11	15	9,300
10014	14	18	8	10	98	18	20	11,500
12014	14	18	8	11	118	18	20	13,750
14014	14	18	8	12	141	18	20	16,000
16514	14	18	8	13	165	18	20	19,000

Please Note:
ALL measurements
and weights may
vary from the
figures given in
this Specification
Chart.



All dimensions are in inches unless otherwise noted.
 (To convert to centimeters multiply by 2.54)

Engineering data and dimensions are subject to change without notice due to continuing product development.

Foundation plans are available upon request.

**ESTIMATED WEIGHTS. The weight of your machine may vary from the estimated weight listed here. Weights may vary according to options included.

HP	AMPS	
	208/230	460
10	28	14
15	39.6	19.3
20	52	26