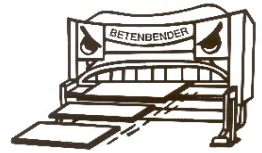




# HMI PRESS SPECIFICATIONS

Standard Equipment: Remote Foot Control and Reservoir Filled  
Punching Attachment Available



HYDRAULIC MACHINES, IOWA

MODEL	HMI 3514	HMI 5014	HMI 6014	HMI 8014
Tonnage Capacity	35 Ton	48 Ton	62 Ton	79 Ton
Length of Stroke	8"	8"	8"	8"
Throat Depth	14"	14"	14"	14"
Throat Height	18"	18"	18"	18"
Press Platen L-R F-B	36" x 16"	38" x 16"	42" x 17"	42" x 17"
Floor to Press Platen	36"	36"	36"	36"
Distance between Housing	22.5"	22.5"	22.5"	22.5"
Open Height	18"	18"	18"	18"
Shut Height	10"	10"	10"	10"
Rod Diameter	3"	3"	3"	3"
Cylinder Bore Diameter	6"	7"	8"	9"
1" Cycles per Minute	42	59	44	34
Pump Capacity G.P.M.	9 GPM	17 GPM	17 GPM	17 GPM
Operating Pressure PSI	2500 PSI	2500 PSI	2500 PSI	2500 PSI
Pump Type	VANE	VANE	VANE	VANE
Motor 3 P.H. 208/230/460V	10HP (Single PH. Optional)	15 HP	15 HP	15 HP
Reservoir Capacity	27 Gallons Filled	50 Gallons Filled	50 Gallons Filled	50 Gallons Filled
Press Dimensions L x W x H	47" x 36" x 81.5"	47" x 36" x 83.3"	52" x 42" x 81.8"	52" x 42" x 84.5"
Net Weight	4,800 Lbs.	5860 Lbs.	8,100 Lbs.	9,300 Lbs.

MODEL	HMI 10014	HMI 12014	HMI 14014	HMI 16514
Tonnage Capacity	98 Ton	118 Ton	141 Ton	165 Ton
Length of Stroke	8"	8"	8"	8"
Throat Depth	14"	14"	14"	14"
Throat Height	18"	18"	18"	18"
Press Platen L-R F-B	44" x 17"	44" x 17"	44" x 17"	44" x 17"
Floor to Press Platen	36"	36"	36"	36"
Distance between Housing	22.5"	22.5"	22.5"	22.5"
Open Height	18"	18"	18"	18"
Shut Height	10"	10"	10"	10"
Rod Diameter	3"	3"	3"	3"
Cylinder Bore Diameter	10"	11"	11"	11"
1" Cycles per Minute	28	23	25	25
Pump Capacity G.P.M.	17 GPM	17 GPM	19 GPM	19 GPM
Operating Pressure PSI	2500 PSI	2500 PSI	2500 PSI	2500 PSI
Pump Type	VANE	VANE	VANE	VANE
Motor 3 P.H. 208/230/460V	15 HP	15 HP	20 HP	20 HP
Reservoir Capacity	50 Gallons Filled	50 Gallons Filled	50 Gallons Filled	50 Gallons Filled
Press Dimensions L x W x H	52" x 42" x 84.5"	57" x 44" x 88"	63.7" x 44" x 82.5"	65" x 44" x 82.5"
Net Weight	11,100 Lbs.	13,750 Lbs.	15900 Lbs.	19000 Lbs.

**Betenbender Manufacturing, Inc.**  
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**E-Mail:** sales@betenbender.com  
**Web:** www.betenbender.com

**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**