



FABRICATION SOLUTIONS & TECHNOLOGIES

AN IMCAR® COMPANY



3RHT

**3 ROLL PLATE BENDING MACHINES
WITH VARIABLE GEOMETRY**



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3 ROLL PLATE BENDING MACHINE WITH VARIABLE GEOMETRY



3RHT

Variable, or translating, geometry plate rolls provide a premium option of robust design, high functionality, modern innovation and an ideal range of material thickness optimization. These machines are also a premium option for cone applications as the dual-plane movements of both bottom rolls offer a high degree of precision. For heavy plate applications the variable geometry is often the preferred choice as the economical design provides heavy duty capacity with a minimal footprint and maximum power and function.



3 ROLL PLATE BENDING MACHINE WITH VARIABLE GEOMETRY



TECHNICAL FEATURES

- 3RHT models combine precision and power in a compact design for maximum efficiency
- Wider working range in comparison to 4 roll plate rolls
- Combines the best features of 3 roll and 4 roll machines into one design
- Pre-bending on both ends of material without removing from machine
- Offset between lateral and top roll provides a more secure pre-bend operation over traditional 4 roll machines
- Lateral rolls incorporate brakes to insure no slippage or back-travel of material
- Material maintains a more level plane during bending than with traditional 3 roll machines
- Top roll functions like a press or in traditional method for optimum quality in pre-bending operations
- More than 28 standard models to cover a wide range of applications
- Increasing distance between lateral rolls and top roll allows for wider capacity range per model
- Decreasing distance between lateral rolls allows for precision pre-bending and rolling
- Proportional valve and PLC compensation of lateral roll parallelism for high precision and maximum quality
- With reduced working height over standard 4 roll machines, many models require no foundation
- All three rolls adjust for cone rolling applications
- With top roll capable of working as a press, cone rolling/pressing applications can be performed at near full machine capacity
- Easy and rapid replacement of top roll for various thicknesses and/or material ranges and applications not achievable by 4 roll machines



3RHT TECHNICAL SPECIFICATIONS

3RHT Model	Plate Width	Top roll Ø	Side rolls Ø	N/mm² Capacity based on A36 Material			HP	Overall Dimensions L x W x H	Weight (lbs.)
				Pre bending thickness 1.5 times x Top Roll Ø	Pre bending thickness 3 times x Top Roll Ø	Rolling thickness 5 times x Top Roll Ø			
25/4	8'	15"	13.4"	7/8"	1"	1-1/2"	45	197 x 92.5 x 71	35,300
30/4	8'	16.9"	15.4"	1-1/8"	1-1/4"	1-3/4"	55	209 x 110 x 79	44,100
35/4	8'	19.3"	17.3"	1-1/4"	1-3/8"	2"	65	236 x 110 x 79	61,800
40/4	8'	21.7"	18.5"	1-3/8"	1-1/2"	2-3/8"	85	256 x 114 x 95	72,800
50/4	8'	23.2"	19.7"	2"	2-1/4"	3"	107	256 x 126 x 109	105,900
60/4	8'	24.8"	21.3"	2-3/8"	2-1/2"	3-1/2"	145	276 x 146 x 128	135,500
70/4	8'	27.2"	22.8"	2-1/2"	2-3/4"	4"	165	288 x 158 x 134	161,000
80/4	8'	28.7"	24.8"	3"	3-1/4"	4-5/8"	185	296 x 165 x 138	187,400
25/5	10'	15.7"	13.8"	3/4"	7/8"	1-3/8"	45	217 x 92.5 x 71	39,700
30/5	10'	17.7"	15.7"	1"	1-1/8"	1-3/4"	55	228 x 103 x 79	49,650
35/5	10'	20.1"	17.7"	1-1/4"	1-3/8"	2"	65	256 x 110 x 87	72,800
40/5	10'	22.4"	18.9"	1-3/8"	1-1/2"	2-3/8"	85	276 x 114 x 95	88,200
50/5	10'	24.4"	20.5"	1-3/4"	2"	2-5/8"	107	276 x 126 x 108	119,100
60/5	10'	26"	22"	2-1/4"	2-3/8"	3-1/4"	145	295 x 146 x 128	143,300
70/5	10'	28.3"	23.6"	2-1/2"	2-5/8"	3-3/4"	165	307 x 158 x 134	172,000
80/5	10'	29.9"	25.6"	2-3/4"	3"	4-3/8"	185	315 x 165 x 138	198,500
30/7	12'	17.7"	15.7"	5/8"	11/16"	1-1/8"	45	256 x 96.5 x 75	55,200
35/7	12'	20.1"	17.7"	3/4"	7/8"	1-1/2"	55	296 x 110 x 87	77,200
40/7	12'	22.4"	18.9"	1"	1-1/8"	1-3/4"	65	315 x 114 x 94.5	92,600
50/7	12'	24.4"	20.5"	1-1/4"	1-3/8"	2-1/4"	85	315 x 126 x 108	121,300
60/7	12'	26"	22"	1-3/8"	1-1/2"	2-3/8"	107	335 x 146 x 128	145,600
70/7	12'	28.3"	23.6"	1-3/4"	2"	2-3/4"	145	347 x 158 x 134	172,000
80/7	12'	29.9"	25.6"	2-1/4"	2-3/8"	3-1/4"	165	355 x 165 x 138	198,500
90/7	12'	31.9"	27.2"	2-1/2"	2-5/8"	4"	185	370 x 181 x 158	231,500