

# Sharp machine tools

website: [sharpmachinetools.com](http://sharpmachinetools.com) email: [sales@sharpmachinetools.com](mailto:sales@sharpmachinetools.com) toll free: 1 877 986 3221



## HYDRAULIC PLATE ROLLS

- All three rolls are powered
- Hardened & ground rolls
- Wire grooved rolls
- Hydraulic rotation
- Hydraulic prebend
- Hydraulic roll tilt
- Electronic digital readout
- Remote control console



These machines are of initial pinch design and can pre-bend the edges of the workpiece for rolling or curving metal plates into cylindrical

forms. The hydraulic pre-bend can provide a nearly perfect circle by reversing the workpiece after pre-bending. The top roll swings open to allow removal of the finished workpiece.

The rolls are arranged in asymmetrical form with the top roll being fixed in height. The bottom or pinch roll adjusts up and down to clamp different thicknesses of material. The rear or pre-bending roll is hydraulically raised to pre-bend and form the selected radius. This function is controlled by push buttons on the remote console. The speed rate of the prebend is infinitely variable. Push buttons also control hydraulic tilting of the pre-bending roll to allow for conical work.

All three rolls are hydraulically rotated which allows instant stopping for accuracy. An electronic digital readout displays the position of the prebending roll to allow accurate repositioning for multiple workpieces. All rolls are hardened to RC55 and are machined with three round grooves to permit rolling round bars. The top roll is a precision ground cylinder, while the bottom roll and pre-bending roll are crowned in the center.

MODEL	Maximum Rolling Thickness	Maximum Pre-bend Thickness	Roll Length	Roll Diameter	Motor Power	Gross Weight
R-0440	.187"	.115"	51"	4 <sup>3/4</sup> "	2HP	4,000lbs
R-5035	.187"	.115"	61"	4 <sup>3/4</sup> "	2HP	4,200lbs
R-6035	.157"	.115"	80"	6"	3HP	5,800lbs
3/16-80	.200"	.140"	80"	7"	5HP	7,000lbs
1/4-51	.255"	.181"	51"	6"	3HP	3,500 lbs
5/16-61	.350"	.250"	61"	7"	5HP	5,800 lbs
5/8-51	.710"	.500"	51"	10"	7 <sup>1/2</sup> HP	14,000 lbs

\* Nominal capacity only

\*\* For A-36 plate 60,000 PSI tensile, full width rolling. If narrower material is rolled, the maximum thickness can be greater.

Specifications are subject to change.