

MG AR 140M Hydraulic Selection Ring Rolling Machine



The MG AR Line section rolls are available in a huge range of capacities from 60mm shaft diameter up to an enormous 540mm shaft diameter; this model AR530 weighs in at an incredible 297 tonnes and has the capacity to roll beams of up to 1000mm. These superb quality Italian built machines are of a double pre-bending design and feature three rolls individually driven by powerful hydraulic motors via planetary gearboxes. The universal rolls supplied can roll a whole spectrum of standard sections and profiles, while special tooling is available for tubes or specific profiles. A wide range of optional equipment is offered including special attachments for the rolling of spirals and a very user friendly touch screen NC control.

Features

- Double pre-bending design
- All three rolls driven for excellent traction
- Rolls driven by powerful hydraulic motors with planetary gearboxes
- Universal hardened rolls suitable to roll a wide range of profiles
- Smooth rolls ensure minimal material marking
- Permanent lubrication to main machine components during manufacture
- Double spherical roller bearings for rolls shafts in place of traditional bushes
- Works in either horizontal or vertical orientation
- Hydraulic lateral guide rolls with movement in 3 axis
- Moveable control panel
- Digital read outs indicating both lower roll positions

Technical Specification

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|--|-----------------|----------------|
| Flat Bar on Edge at 1800mm Ø | mm | 140 x 25 |
| Flat Bar as Flat at 1600mm Ø | mm | 190 x 40 |
| Square Bar at 1200mm Ø | mm | 80 x 80 |
| Round Bar at 1000mm Ø | mm | 90 |
| Round Tube at 4000mm Ø | mm | 141.3 x 6.5 |
| Rectangular Hollow Section at 2500mm Ø | mm | 140 x 70 x 5 |
| Square Hollow Section at 1000mm Ø | mm | 100 x 100 x 8 |
| Angle Iron Toe Out at 3600mm Ø | mm | 120 x 120 x 15 |
| Angle Iron Toe In at 3000mm Ø | mm | 100 x 100 x 12 |
| Tee Section Toe Out at 1250mm Ø | mm | 120 x 120 x 13 |
| Tee Section Toe In at 1250mm Ø | mm | 120 x 120 x 13 |
| Tee Section Toe Up/Down at 1250mm Ø | mm | 120 x 120 x 13 |
| Channel Legs Out at 1000mm Ø | mm | UPN 180 |
| Channel Legs In at 1000mm Ø | mm | UPN 180 |
| I Beam Flanges Vertical at 1800mm Ø | mm | IPE 180 |
| Maximum Section Modulus | cm ³ | 310 |
| Shaft Diameter | mm | 140 |
| Roll Diameter | mm | 400 |
| Rolling Speed | m/min | 5 |
| Motor Power | kW | 15 |
| Length | mm | 1813 |
| Width | mm | 1646 |
| Height | mm | 1605 |
| Weight | kg | 4000 |

Options

- Special rolls for tubes and other profiles
- Special rolls in nylon for sensitive materials
- Traction and compression tooling
- Overhead support
- Spiral staircase device
- Coiling attachments
- Lateral guide roll extension for rolling small coils
- Digital read outs for lateral roll positions
- NC Control Unit
- CNC Control Unit