

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

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