

MG AR 80M Hydraulic Section 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

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

Technical Specification

Flat Bar on Edge at 1500mm Ø	mm	90 x 15
Flat Bar as Flat at 800mm Ø	mm	120 x 30
Square Bar at 600mm Ø	mm	50 x 50
Round Bar at 600mm Ø	mm	60
Round Tube at 1800mm Ø	mm	88.9 x 3
Rectangular Hollow Section at 1000mm Ø	mm	90 x 50 x 4
Square Hollow Section at 1000mm Ø	mm	70 x 70 x 4
Angle Iron Toe Out at 1800mm Ø	mm	80 x 80 x 10
Angle Iron Toe In at 1000mm Ø	mm	70 x 70 x 8
Tee Section Toe Out at 1300mm Ø	mm	80 x 80 x 9
Tee Section Toe In at 1300mm Ø	mm	80 x 80 x 9
Tee Section Toe Up/Down at 1300mm Ø	mm	80 x 80 x 9
Channel Legs Out at 1000mm Ø	mm	UPN 120
Channel Legs In at 1000mm Ø	mm	UPN 120
I Beam Flanges Vertical at 2000mm Ø	mm	IPE 120
Maximum Section Modulus	cm³	40
Shaft Diameter	mm	80
Roll Diameter	mm	265
Rolling Speed	m/min	5
Motor Power	kW	4
Length	mm	1400
Width	mm	1156
Height	mm	1133
Weight	kg	1650