

## MG AR 110 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

## Technical Specification

Flat Bar on Edge at 1400mm Ø	mm	110 x 25
Flat Bar as Flat at 1000mm Ø	mm	180 x 30
Square Bar at 1200mm Ø	mm	60 x 60
Round Bar at 750mm Ø	mm	75
Round Tube at 2800mm Ø	mm	140 x 3
Rectangular Hollow Section at 1200mm Ø	mm	100 x 50 x 5
Square Hollow Section at 2000mm Ø	mm	90 x 90 x 5
Angle Iron Toe Out at 2000mm Ø	mm	100 x 100 x 10
Angle Iron Toe In at 2600mm Ø	mm	90 x 90 x 10
Tee Section Toe Out at 1600mm Ø	mm	100 x 100 x 12
Tee Section Toe In at 1600mm Ø	mm	100 x 100 x 12
Tee Section Toe Up/Down at 1600mm Ø	mm	100 x 100 x 12
Channel Legs Out at 1200mm Ø	mm	UPN 160
Channel Legs In at 1200mm Ø	mm	UPN 160
I Beam Flanges Vertical at 2000mm Ø	mm	IPE 160
Maximum Section Modulus	cm <sup>3</sup>	157
Shaft Diameter	mm	110
Roll Diameter	mm	350
Rolling Speed	m/min	5
Motor Power	kW	7.5
Length	mm	1600
Width	mm	1496
Height	mm	1475
Weight	kg	2950

## 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