

# section bending machines



**AMOB**

## ABOUT US

AMOB S.A. provides one of the biggest ranges of specialised equipment for the tube and pipe bending industry worldwide.

Founded in 1960 by António Martins Oliveira Barros (AMOB) and followed now by his son Manuel Barros and by their grandchildren Inês Barros and Manuel António Barros, we have progressively become the world's leading manufacturer of metalworking technologies.

We serve the global market with exceptional machinery and tooling for tube and pipe bending, section bending and swaging purposes – ranging from simple, manual appliances to complex, fully electric CNC powered systems. AMOB designs, develops, retails and services a variety of products for a range of leading industrial industries including automobile and shipping, aeronautics and construction amongst others.

## MANUFACTURING

AMOB has a proud history of manufacturing in Portugal, employing over 140 staff members at our main plant in Porto. Our recently-renewed headquarters covers 18000m<sup>2</sup>, and is equipped with the highest technological production equipment including CNC machining centres, lathes and milling machines, as well as sheet metal cutting and bending machinery for guaranteed high fabrication standards. Elsewhere, AMOB has commercial facilities in Russia, Brazil, Spain, Benelux, France and a worldwide network of over 70 agencies and technical centers – providing customer support wherever you are!



## TECHNICAL

Our products are designed in our technical department by a team of highly-skilled engineers - we offer competitive solutions without compromising on quality.

Over the years, AMOB has grown with our customers' requirements and the market demand. We're just as passionate about growing and developing our products as we are about our client relationships.



We thank you for choosing AMOB!

## MAM

**Manual profile** benders

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## MAH

**Hydraulic profile** benders

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## MAH-RIA

**Hydraulic profile** benders

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**CNC profile** benders

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## MAH-AC

**Angle** bending rolls

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## MAH-AC Heavy Duty

**Section** bending rolls

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## MAH-AC Heavy Duty

**Section** bending rolls

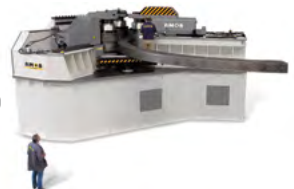
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## MAH-AC Heavy Duty

**Section** bending rolls

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AMOB's MAM series of manual top roll profile bending machines are an entry level to the biggest range of section benders in the world. They are extremely user-friendly and the most economical way of roll bending a wide variety of different profiles. The top roll position is manually adjusted with a linear scale for repeatability. There are also locking nuts to secure the top roll position to ensure repeatability in single pass production runs. The MAM series features both two and three driven rolls to suit every application - the three driven roll machines suit tighter radiuses and minimise material marking. The MAM series' simplicity and reliability ensures that anyone from apprentices through to experienced workers will easily maximise the capabilities of these machines. Both horizontal and vertical working positions ensure that even in the smallest work spaces an MAM series profile bender will have its place. The MAM series is a great, cost-effective way to get into the profile bending market.

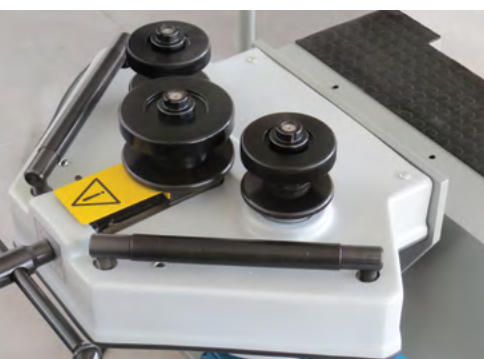
### MAM45/2

- Two driven rolls
- Standard rolls
- Double-speed motor



### MAM50/2

- Two driven rolls
- Standard rolls
- Double-speed motor



## MAM45/2 - MAM50/2

### Standard specification

- Two driven rolls
- Standard rolls
- Lateral guide rolls
- Double speed motors
- Horizontal & vertical working position
- Foot pedal with safety device

### Option specification

- Special rolls for profile/tubes
- Angle bending guide rolls

## MAM40/3

### Standard specification

- Three driven rolls
- Standard rolls
- Lateral guide rolls
- Horizontal & vertical working position
- Foot pedal with safety device

### Option specification

- Special rolls for profile/tubes
- Angle bending guide rolls



## MAM40/3

- Three driven rolls
- Standard rolls
- Lateral guide rolls

	MAM45/2 (all dimensions in mm)	MAM50/2 (all dimensions in mm)	MAM40/3 (all dimensions in mm)
1	50x10 Ø800	60x10 Ø900	60x10 Ø800
2	80x15 Ø700	80x15 Ø700	80x15 Ø600
3	35x35 Ø1400	35x35 Ø1000	35x35 Ø800
4	Ø30 Ø700	Ø35 Ø900	Ø35 Ø700
5	Ø50x2 Ø800	Ø60x2 Ø1100	Ø60x2 Ø1000
6	Ø33,7 x2,6 Ø900	Ø48,3x2,9 Ø1000	Ø60,3x2,9 Ø1000
7	50x30x3	50x40x3	60x30x3
8	40x40x3	40x40x3	45x45x3
9	40x40x5 Ø400	50x50x5 Ø800	50x50x5 Ø600
10	40x40x5 Ø500	50x50x5 Ø950	50x50x5 Ø700
11	50x5 Ø800	50x5 Ø700	60x5- Ø700
12	50x5 Ø950	50x5 Ø900	60x5 Ø900
13	50x5 Ø950	50x5 Ø900	60x5 Ø900
14	UPN 50 Ø400	UPN 60 Ø900	UPN 60 Ø800
15	UPN 50 Ø500	UPN 60 Ø1300	UPN 60 Ø1200
16	-	-	-
17	-	-	-
18	-	-	-
19	-	-	-
20	-	-	-

## Technical specifications

Section mod. (cm <sup>3</sup> )	10	16	16
Power	1,1kW - 1,5hp	1,1kW - 1,5hp	2,2kW - 3hp
RPM	10,6/21,2	13,6/27,2	12
Tool Ø (mm)	149-79/118-59	146/98	146/98
Shaft Ø (mm)	30/30	50/50	45/45
Weight (kg)	250	290	450
Dimensions (mm)	660x760x1420	950x730x1420	1220x640x1440

- Standard rolls
- One set of rolls is required for each tube OD
- Special rolls for thin wall profiles
- Special rolls

Data achieved using special tooling, 240N/mm<sup>2</sup> yield point steel and several bending operations. All data of the machines is not binding and may be subject to change without notice. Pictures are for demonstration purpose only.

# MAH

## Hydraulic profile benders



AMOB's MAH series of hydraulic top roll profile bending machines are the backbone of the biggest selection of roll benders in the world. Extremely user-friendly, again they are completely accessible for apprentices and experienced operatives alike. The top roll position is displayed on the DRO, based within the free standing operator control unit. The MAH series is perfect for those applications that require multiple passes, where repeatability is key. Available in two and three driven roll these machines can cater for the largest range of profiles in the market place. The three driven roll machines suit tighter radiuses and minimise material marking. Both horizontal and vertical working positions ensure that even in the smallest work spaces an MAH series profile bender will have its place. The MAH series is a perfect compromise between capacity, repeatability, ease of use and reduction in production cycle times.

### MAH50/2

Top roll programmable digital read-out  
Two driven rolls  
Double speed motor



### MAH40/3

Top roll programmable digital read-out  
Three driven rolls  
Standard rolls



## MAH50/2

### Standard specification

- Two driven rolls
- Standard rolls
- Lateral guide rolls
- Double speed motors
- Horizontal & vertical working position
- Top roll programmable digital read-out
- Foot pedal with safety device

### Option specification

- Special rolls for profile/tubes
- Angle bending guide rolls

## MAH40/3 - MAH60/3

### Standard specification

- Three driven rolls
- Standard rolls
- Lateral guide rolls
- Horizontal & vertical working position
- Top roll programmable digital read-out
- Foot pedal with safety device

### Option specification

- Digital length measurement system
- Special rolls for profile/tubes
- Angle bending guide rolls

## MAH60/3

- Top roll programmable digital read-out
- Three driven rolls
- Standard rolls



	MAH50/2 (all dimensions in mm)	MAH40/3 (all dimensions in mm)	MAH60/3 (all dimensions in mm)
1	60x10 Ø900	60x10 Ø800	70x12 Ø1800
2	80x15 Ø700	80x15 Ø600	70x20 Ø1000
3	35x35 Ø1000	35x35 Ø800	45x45 Ø1000
4	Ø35 Ø900	Ø35 Ø700	Ø45 Ø1000
5	Ø60x2 Ø1100	Ø60x2 Ø1000	Ø70x3 Ø3000
6	Ø48,3x2,9 Ø1000	Ø60,3x2,9 Ø1000	Ø76,1x3,2 Ø2500
7	50x40x3	60x30x3	70x30x3
8	40x40x3	45x45x3	50x50x3
9	50x50x5 Ø800	50x50x5 Ø600	50x50x5 Ø700
10	50x50x5 Ø950	50x50x5 Ø700	50x50x5 Ø700
11	50x5 Ø700	60x5 Ø700	70x5 Ø700
12	50x5 Ø900	60x5 Ø900	70x5 Ø900
13	50x5 Ø900	60x5 Ø900	70x5 Ø900
14	UPN 60 Ø900	UPN 60 Ø800	UPN 80 Ø1200
15	UPN 60 Ø1300	UPN 60 Ø1200	UPN 80 Ø1200
16	-	-	-
17	-	-	-
18	-	-	-
19	-	-	-
20	-	-	-

### Technical specifications

Section mod. (cm <sup>3</sup> )	16	16	20
Power	2,6kW - 3,5hp	3,7kW - 5hp	5,5kW - 7hp
RPM	13,6/27,2	12	11
Tool Ø (mm)	146/98	146/98	170/108
Shaft Ø (mm)	50/50	45/45	55/55
Weight (kg)	330	490	600
Dimensions (mm)	940x750x1400	1200x770x1400	1300x890x1550

- Standard rolls
- One set of rolls is required for each tube OD
- Special rolls for thin wall profiles
- Special rolls

Data achieved using special tooling, 240N/mm<sup>2</sup> yield point steel and several bending operations. All data of the machines is not binding and may be subject to change without notice. Pictures are for demonstration purpose only.

# MAH-RIA

Hydraulic profile benders



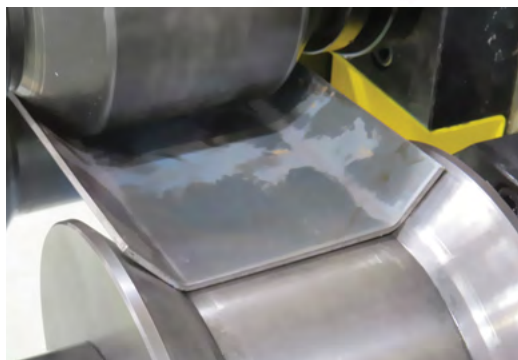
AMOB's MAH-RIA series of hydraulic top roll profile bending machines with adjustable bottom rolls are the next step up. The adjustable bottom rolls allow both a tight radius with reduced capacity and a large radius with increased capacity – the best of both worlds. Plus, by adjusting the position of the bottom rolls you can reduce deformation along with reduced flats, and therefore waste. These additional features remain extremely user-friendly, and we'd recommend these machines for use by both apprentices and experienced operatives alike. The top roll position is displayed on the DRO, based within the free standing operator control unit. The MAH series is perfect for those applications that require multiple passes, where repeatability is key. Available in three driven rolls, these machines can cater for the largest range of profiles in the market place - again, the three driven roll machines suit tighter radiuses and minimise material marking. Both horizontal and vertical working positions ensure that even in the smallest work spaces an MAH-RIA series profile bender will have its place. The MAH-RIA series is the perfect compromise between capacity, repeatability, ease of use and reduction in production cycle times.

## MAH150/3RIA

- Top roll programmable digital read-out
- Digital lengths measuring system
- Adjustment of lower rolls
- Angle bending guide rolls

## MAH80/3RIA

- Top roll programmable digital read-out
- Digital lengths measuring system
- Adjustment of lower rolls





# MAH80/3 - MAH150/3

## Standard specification

- Three driven rolls
- Standard rolls
- Lateral guide rolls
- Horizontal & vertical working position
- Top roll programmable digital read-out
- Digital length measurement system
- Adjustment of lower rolls
- Foot pedal with safety device

## Option specification

- Special rolls for profile/tubes
- Angle bending guide rolls



	MAH80/3RIA <small>(all dimensions in mm)</small>	MAH120/3RIA <small>(all dimensions in mm)</small>	MAH150/3RIA <small>(all dimensions in mm)</small>
1	80x12 Ø2000	100x20 Ø2000	120x20 Ø1600
2	100x20 Ø1000	120x30 Ø1100	160x40 Ø1200
3	50x50 Ø1000	55x55 Ø1100	65x65 Ø1500
4	Ø50 Ø800	Ø55 Ø1100	Ø70 Ø1500
5	Ø100x2 Ø1800	Ø120x2,5 Ø2000	Ø150x3 Ø2600
6	Ø88,9x3,6 Ø1700	Ø114,3x3,6 Ø1400	Ø139,7x5 Ø2600
7	100x40x6	120x60x4	140x70x5
8	80x80x4	100x100x4	100x100x6
9	60x60x6 Ø1000	70x70x10 Ø1500	80x80x12 Ø1500
10	60x60x6 Ø1000	70x70x10 Ø1500	80x80x12 Ø1500
11	80x6 Ø1000	100x10 Ø1400	120x12 Ø1400
12	80x5 Ø1200	100x10 Ø1400	120x10 Ø1400
13	80x5 Ø1000	100x10 Ø1200	120x12 Ø1600
14	UPN100 Ø1000	UPN 120 Ø1200	UPN 140 Ø1400
15	UPN 100 Ø1200	UPN 120 Ø1200	UPN140 Ø1400
16	IPN 80 Ø1200	IPN 120 Ø1100	IPN 140 Ø1500
17	-	-	HEA 100 Ø2000
18	-	-	-
19	-	-	-
20	-	-	-

## Technical specifications

Section mod. <small>(cm<sup>3</sup>)</small>	25	45	60
Power	5,5kW - 7hp	7,5kW - 10hp	10kW - 13,5 hp
RPM	10	7	6
Tool Ø <small>(mm)</small>	187/118	247/138	300/188
Shaft Ø <small>(mm)</small>	65/65	80/80	100/100
Weight <small>(kg)</small>	770	1480	2150
Dimensions <small>(mm)</small>	1520x1080x1650	1615x1260x1760	1900x1400x1850

- Standard rolls
- One set of rolls is required for each tube OD
- Special rolls for thin wall profiles
- Special rolls

Data achieved using special tooling, 240N/mm<sup>2</sup> yield point steel and several bending operations. All data of the machines is not binding and may be subject to change without notice. Pictures are for demonstration purpose only.

# MAH-CNC

CNC profile benders



The MAH-CNC range from AMOB provides outstanding production cycle times, un-matched reliability and the production of products not possible on lower level machines. These are the first machines in AMOB's profile section range that are fully computer-controlled. This technology allows for producing elliptical shapes on a large scale with unbeatable repeatability - plus, the MAH-CNC range is able to put multiple radiuses into a single profile using both progressive and direct pressure, opening up a new sector for product manufacture. The user-friendly 2D CNC controls make this series a popular choice for profile bending sub-contractors and aluminium window and door producers, along with greenhouse manufacturers and other similar industries. The MAH CNC series takes profile bending to the next level and allows the production of products that is just not possible on MAH and MAM series machines.

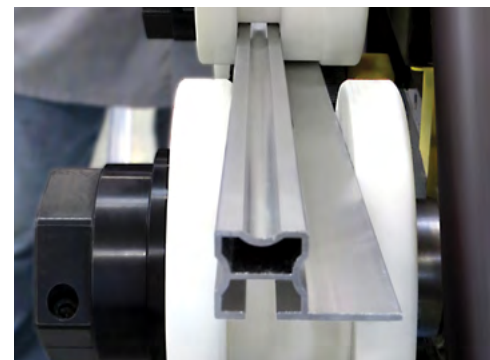
## MAH40/3CNC

- HMI wide touch screen
- High capacity program storage
- Profile name and calibration archive
- Manual and fully automatic working cycle



## MAH60/3CNC

- HMI wide touch screen
- High capacity program storage
- Profile name and calibration archive
- Manual and fully automatic working cycle



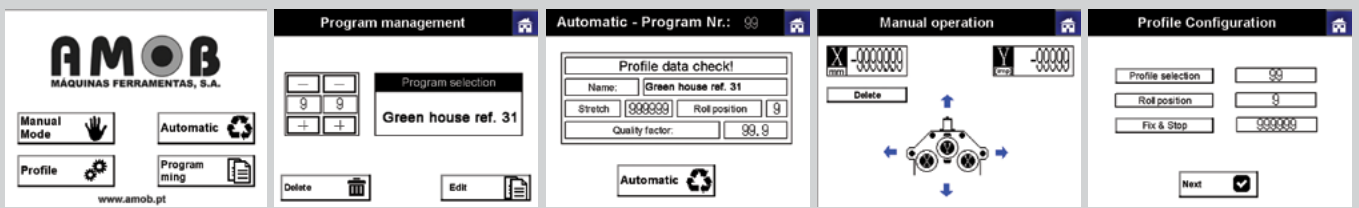
# MAH150/3CNC

- HMI wide touch screen
- Simultaneous axis movements
- High capacity program storage
- Profile name and calibration archive
- Manual and fully automatic working cycle



# MAH-CNC controller

- HMI wide touch screen
- Simultaneous axis movements (reduced cycle time)
- High capacity program storage
- Profile name and calibration archive
- Multi radius bends
- Manual and fully automatic working cycle
- Produced parts counter
- Popup alarm messages
- Userfriendly data insert system
- ...



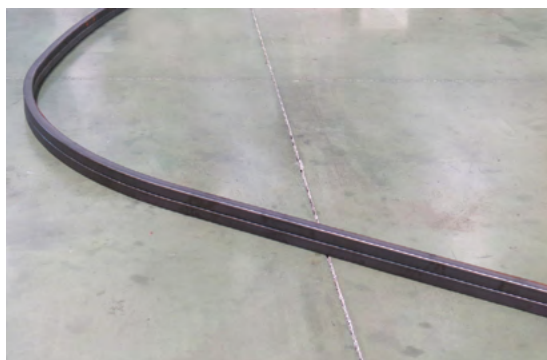
Main menu

Program management

Automatic mode

Manual mode

Profile configuration



# MAH-AC

Angle bending rolls



The MAH-AC series carries the largest capacity profile bending machines in the world. With planetary moving bottom rolls, they can achieve faster, tighter bending with fewer passes, which results in reduced cycle times. This range is available in both CNC and NC with AMOB's specially developed auto learning software, which removes the need to do sacrificial test bends and therefore reduces scrap material and wasted production time.

If bending the largest profiles is a requirement then look no further than the MAH-AC series from AMOB.



## MAH120/3AC

Bottom rolls programmable digital read-out  
Lateral guide rolls  
Electronic overload protection

## MAH150/3AC

Bottom rolls programmable digital read-out  
Hydraulic angle bending guide rolls  
Electronic overload protection



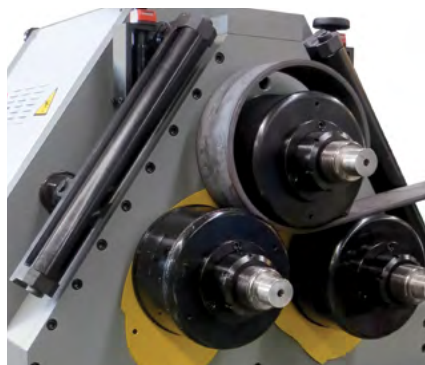
# MAH60/3AC - MAH150/3AC

## Standard specification

- Three driven rolls
- Standard rolls
- Horizontal & vertical working position
- Foot pedal with safety device
- Bottom rolls programmable digital read-out
- Hydraulic adjustment of bottom rolls
- Electronic overload protection
- Lateral guide rolls (MAH60/3AC - MAH120/3AC)
- Hydraulic standard guide rolls (MAH150/3AC)
- Hydraulic angle bending guide rolls (MAH150/3AC)

## Option specification

- Special rolls for profile/tubes
- Hydraulic guide rolls
- Mechanical or hydraulic angle guide rolls
- Guide rolls digital read out
- Variable speed
- Pulling arm device
- Pulling arm device tools



	MAH60/3AC (all dimensions in mm)	MAH80/3AC (all dimensions in mm)	MAH120/3AC (all dimensions in mm)	MAH150/3AC (all dimensions in mm)
1	80x25 Ø2100	100x20 Ø2000	120x25 Ø1600	140x30 Ø3000
2	80x20 Ø1200	120x30 Ø600	200x35 Ø600	220x50 Ø1000
3	35x35 Ø1400	45x45 Ø1000	65x65 Ø680	85x85 Ø1200
4	Ø40 Ø800	Ø60 Ø1000	Ø75 Ø900	Ø90 Ø1100
5	Ø70x2 Ø1400	Ø100x3 Ø3000	Ø141x3,4 Ø3000	Ø168x3,4 Ø2500
6	Ø60,3x3,2 Ø1000	Ø88,9x4 Ø1600	Ø114,3x6 Ø2500	Ø141x6 Ø2500
7	80x30x3	100x40x3,2	140x40x3	150x50x5
8	60x60x3	70x70x4	100x100x5	100x8
9	50x50x5 Ø500	80x80x8 Ø1600	100x100x12 Ø1000	120x120x15 Ø1300
10	50x50x6 Ø1000	80x80x8 Ø2000	100x100x10 Ø1000	120x120x15 Ø1300
11	80x40x7,5 Ø1000	80x80x8 Ø1400	100x12 Ø800	120x15 Ø1000
12	70x35x6 Ø1200	80x80x8 Ø1400	100x10 Ø800	120x13 Ø1000
13	50x50x6 Ø800	80x80x8 Ø1400	120x10 Ø1200	130x10 Ø1300
14	UPN 80 Ø800	UPN 140 Ø1200	UPN 200 Ø1200	UPN 240 Ø1000
15	UPN 80 Ø1000	UPN 140 Ø1200	UPN 200 Ø1200	UPN 240 Ø1200
16	-	IPN 120 Ø500	IPN 200 Ø800	IPN 240 Ø1200
17	-	-	HEA 120 Ø1000	HEA 140 Ø1200
18	-	-	UPN 120 Ø4500	UPN 160 Ø8000
19	-	-	IPE 120 Ø2000	IPE 160 Ø5000
20	-	-	HEB 100 Ø3600	HEB 120 Ø3600

## Technical specifications

Section mod. (cm <sup>3</sup> )	28	35	40-80	80-150
Power	5,5kW - 7hp	7kW - 9hp	11kW - 15hp	15kw - 20 hp
RPM	11,5	5,5	5,5	3,6
Tool Ø (mm)	178	245	315	390
Shaft Ø (mm)	65/65	80/80	100/100	120/120
Weight (kg)	1200	1660	2800	5300
Dimensions (mm)	1280x1170x1445	1410x1380x1615	1435x1470x1760	2000x1815x2070

- Standard rolls
- One set of rolls is required for each tube OD
- Special rolls for thin wall profiles
- Special rolls
- Pulling arm device

Data achieved using special tooling, 240N/mm<sup>2</sup> yield point steel and several bending operations. All data of the machines is not binding and may be subject to change without notice. Pictures are for demonstration purpose only.

# MAH-AC

## Section bending rolls



The MAH-AC 170-300 range of heavy-duty section bending machines caters for high end, heavy duty profile and section bending. With capabilities for bending up to IPE 270 beam, they are extremely heavy-duty and can cater for a huge range of profiles and sections. Like all machines from the MAH-AC range, these are the first products from AMOB to feature planetary moving bottom rolls - allowing for faster and tighter bending and a more efficient production time. This range is available in both CNC and NC with AMOB's specially developed auto learning software, which removes the need to do sacrificial test bends and therefore reduces scrap material and wasted production time. The MAH-AC series is the largest capacity range in the world - look no further than this range for bending the largest profiles.



### MAH170/3AC

Electronic overload protection  
Hydraulic angle bending guide rolls  
Pulling arm device



### MAH250/3AC

Electronic overload protection  
Hydraulic angle bending guide rolls  
Special rolls for profile



# MAH170/3AC - MAH300/3AC

## Standard specification

- Three driven rolls
- Standard rolls
- Hydraulic standard guide rolls
- Horizontal working position
- Bottom rolls programable digital read-out
- Command with safety device
- Hydraulic adjustment of bottom rolls
- Electronic overload protection
- Hydraulic angle bending guide rolls

## Option specification

- Special rolls for profile/tubes
- Guide rolls digital read out
- Variable speed
- Pulling arm device
- Pulling arm device rolls



	MAH170/3AC <small>(all dimensions in mm)</small>	MAH250/3AC <small>(all dimensions in mm)</small>	MAH300/3AC <small>(all dimensions in mm)</small>
1	150x40 Ø1400	180x60 Ø1600	200x60 Ø1600
2	250x60 Ø1400	340x80 Ø1400	420x90 Ø1900
3	105x105 Ø1600	130x130 Ø1700	150x150 Ø2200
4	Ø110 Ø1200	Ø140 Ø1200	Ø160 Ø1500
5	Ø219x2,7 Ø3000	Ø298x4,2 Ø5000	Ø368x4,5 Ø10000
6	Ø168,3 x7,1 Ø2500	Ø254 x8 Ø3500	Ø339,7x8 Ø15000
7	180x70x8	210x90x8	240x110x10
8	120x120x10	160x160x10	200x200x12
9	150x150x16 Ø1200	160x160x20 Ø1600	200x200x28 Ø2500
10	150x150x15 Ø1500	150x150x20 Ø1600	200x200x25 Ø2500
11	150x16 Ø1000	160x20 Ø1400	200x28 Ø2500
12	150x15 Ø1200	150x20 Ø2000	200x25 Ø2000
13	150x16 Ø1000	160x20 Ø1500	200x28 Ø2500
14	UPN 300 Ø1100	UPN 360 Ø1200	UPN 450 Ø2000
15	UPN 300 Ø1100	UPN 360 Ø1400	UPN 450 Ø2000
16	IPN 300 Ø1200	IPN 360 Ø1500	IPN 450 Ø2000
17	HEA 180 Ø1100	HEA 260 Ø2500	HEA 400 Ø4500
18	UPN 180 Ø8000	UPN 240 Ø12000	UPN 260 Ø12000
19	IPE 180 Ø6000	IPE 240 Ø7000	IPE 270 Ø10000
20	HEA160 Ø6000	HEB 200 Ø8000	HEB 240 Ø10000

## Technical specifications

<b>Section mod.</b> <small>(cm<sup>3</sup>)</small>	120-220	240-570	350-940
<b>Power</b>	22kW - 30hp	29kW - 40 hp	41kW - 55hp
<b>RPM</b>	0 - 4,8	0 - 4	0 - 3,3
<b>Tool Ø</b> <small>(mm)</small>	460	550	660
<b>Shaft Ø</b> <small>(mm)</small>	190/170	250/230	290/270
<b>Weight</b> <small>(kg)</small>	9850	17000	21000
<b>Dimensions</b> <small>(mm)</small>	2700x2080x1880	3050x2240x2160	3890x2850x2300

- Standard rolls
- One set of rolls is required for each tube OD
- Special rolls for thin wall profiles
- Special rolls
- Pulling arm device

Data achieved using special tooling, 240N/mm<sup>2</sup> yield point steel and several bending operations. All data of the machines is not binding and may be subject to change without notice. Pictures are for demonstration purpose only.

# MAH-AC

## Section bending rolls



The MAH-AC 400-600 range of section bending machines caters for high end and heavy-duty profile and section bending. Capable of bending up to IPE 550 beam, they are extremely heavy duty and can cater for a huge range of profiles and sections. Like all machines from the MAH-AC range, these are the first products from AMOB to feature planetary moving bottom rolls - allowing for faster and tighter bending and a more efficient production time. Again, this range is available in both CNC and NC with AMOB's specially developed auto learning software which removes the need to do sacrificial test bends and therefore reduces scrap material and wasted production time.

If you're looking to bend the largest profiles, then look no further than the MAH-AC series from AMOB.



### MAH400/3AC

- Electronic overload protection
- Hydraulic angle bending guide rolls
- Pulling arm device



### MAH600/3AC

- Electronic overload protection
- Hydraulic angle bending guide rolls
- Pulling arm device





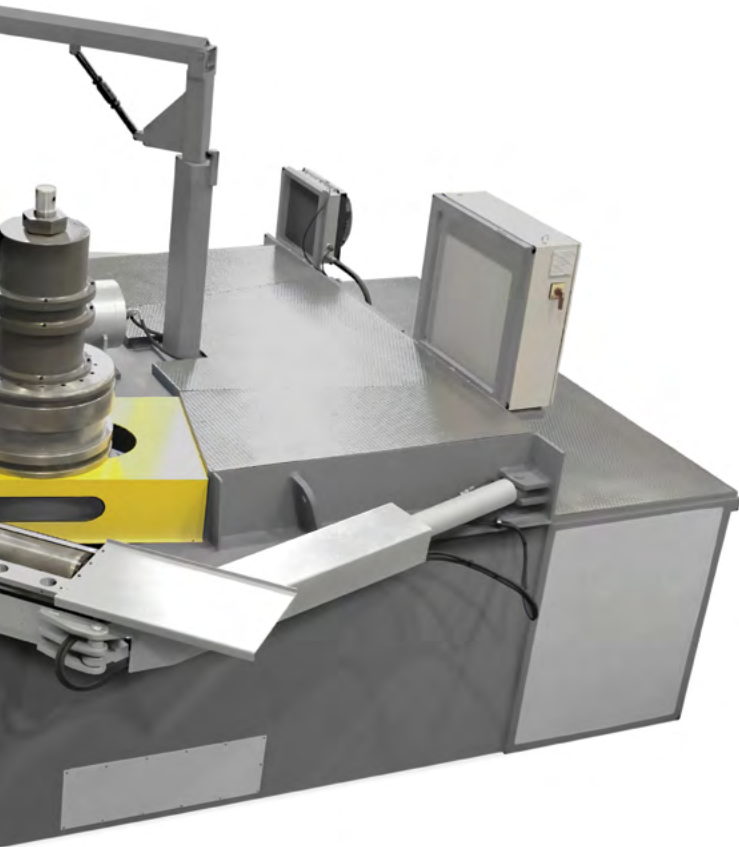
# MAH400/3AC - MAH600/3AC

## Standard specification

- Three driven rolls
- Standard rolls
- Hydraulic standard guide rolls
- Horizontal working position
- Bottom rolls programable digital read-out
- Command with safety device
- Hydraulic adjustment of bottom rolls
- Electronic overload protection
- Hydraulic angle bending guide rolls

## Option specification

- Special rolls for profile/tubes
- Guide rolls digital read out
- Variable speed
- Pulling arm device
- Pulling arm device rolls



	MAH400/3AC <small>(all dimensions in mm)</small>	MAH500/3AC <small>(all dimensions in mm)</small>	MAH600/3AC <small>(all dimensions in mm)</small>
1	250x60 Ø2100	400x60 Ø3000	450x60 Ø3000
2	470x20 Ø1400	650x100 Ø2000	650x120 Ø1500
3	160x160 Ø2200	240x240 Ø2500	280x280 Ø2500
4	Ø180 Ø2000	Ø260 Ø2000	Ø300 Ø2000
5	Ø370x5,5 Ø12000	Ø558x5,5 Ø18000	Ø558x5,5 Ø18000
6	Ø368 x8 Ø15000	Ø508x15 Ø15500	Ø558x15 Ø15000
7	250x125x12	320x150x12	420x200x12
8	220x220x13	400x400x16	450x450x20
9	200x200x28 Ø2000	200x200x28 Ø1700	200x200x28 Ø1600
10	200x200x25 Ø2000	200x200x28 Ø2000	200x200x28 Ø1800
11	200x28 Ø2000	200x28 Ø1500	200x28 Ø1300
12	200x25 Ø1800	200x30 Ø2200	200x30 Ø1800
13	200x28 Ø1800	200x28 Ø1700	200x28 Ø1600
14	UPN 500 Ø2000	UPN 1000 Ø4000	UPN 1000 Ø3500
15	UPN 500 Ø2000	UPN 1000 Ø4000	UPN 1000 Ø3500
16	IPN 500 Ø2000	IPN 1000 Ø5000	IPN 1000 Ø5000
17	HEA 400 Ø3500	HEA 1000 Ø6000	HEA 1000 Ø5000
18	UPN 280 Ø16000	UPN 400 Ø40000	UPN 400 Ø35000
19	IPE 300 Ø11000	IPE 550 Ø20000	IPE 550 Ø18000
20	HEA280 Ø14000	HEB 500 Ø30000	HEA 550 Ø40000

## Technical specifications

<b>Section mod.</b> <small>(cm<sup>3</sup>)</small>	350-1000	1000-4700	2000-5500
<b>Power</b>	65kW - 88hp	75kW - 100hp	90kW - 120hp
<b>RPM</b>	0 - 3	0 - 2,7	0 - 2,7
<b>Tool Ø</b> <small>(mm)</small>	740	800	800
<b>Shaft Ø</b> <small>(mm)</small>	310/290	370/370	370/370
<b>Weight</b> <small>(Kg)</small>	27150	49500	62000
<b>Dimensions</b> <small>(mm)</small>	4350x3350x2350	6620x4900x4150	6620x4900x4250

- Standard rolls
- One set of rolls is required for each tube OD
- Special rolls for thin wall profiles
- Special rolls
- Pulling arm device

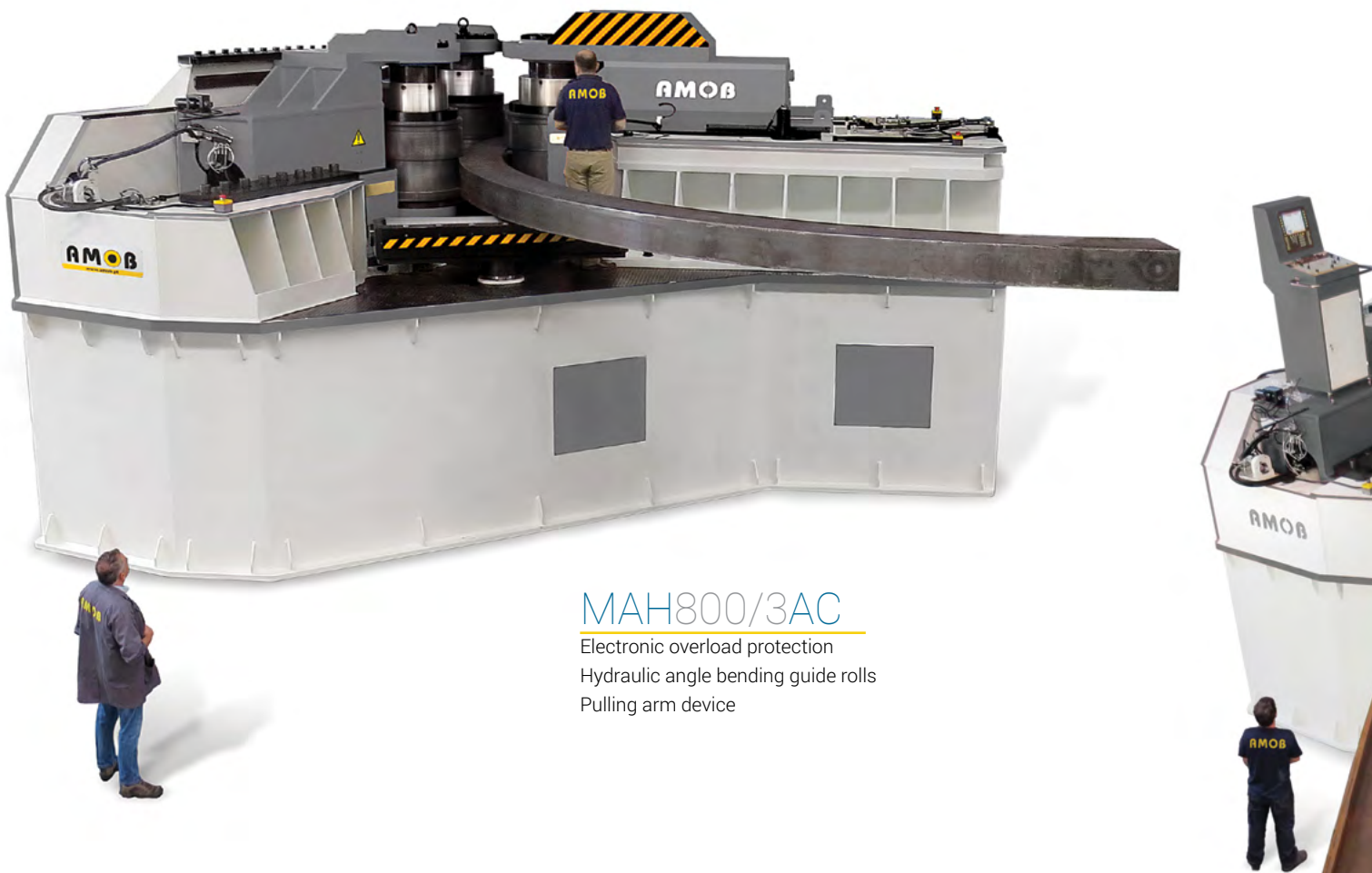
Data achieved using special tooling, 240N/mm<sup>2</sup> yield point steel and several bending operations. All data of the machines is not binding and may be subject to change without notice. Pictures are for demonstration purpose only.

# MAH-AC

Section bending rolls

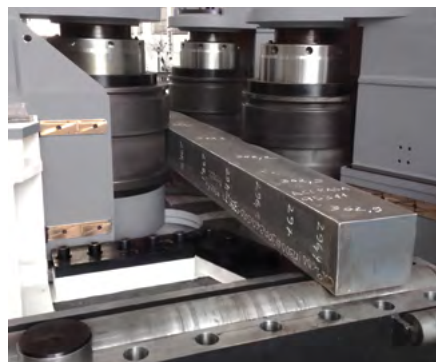


The MAH-AC 700-1000 range of section bending machines caters for high end, heavy-duty profile and section bending. Capable of bending up to IPE 1000 beam, they are the largest roll benders in the world in terms of capacity and size. Like all machines from the MAH-AC range, these are the first products from AMOB to feature planetary moving bottom rolls - allowing for faster and tighter bending and a more efficient production time. This range is available in both CNC and NC with AMOB's specially developed auto learning software, which removes the need to do sacrificial test bends and therefore reduces scrap material and wasted production time. For bending the largest profiles, look no further than the MAH-AC series from AMOB.



## MAH800/3AC

- Electronic overload protection
- Hydraulic angle bending guide rolls
- Pulling arm device



# MAH700/3AC - MAH1000/3AC

## Standard specification

- Three driven rolls
- Standard rolls
- Hydraulic standard guide rolls
- Horizontal working position
- Bottom rolls programable digital read-out
- Command with safety device
- Hydraulic adjustment of bottom rolls
- Electronic overload protection
- Hydraulic angle bending guide rolls

## Option specification

- Special rolls for profile/tubes
- Guide rolls digital read out
- Variable speed
- Pulling arm device
- Pulling arm device rolls



## MAH1000/3AC

- Electronic overload protection
- Hydraulic angle bending guide rolls
- Pulling arm device

	MAH700/3AC (all dimensions in mm)	MAH800/3AC (all dimensions in mm)	MAH1000/3AC (all dimensions in mm)
1	500x130 Ø4000	500x160 Ø3000	550x200 - Ø6400
2	1000x150 Ø3800	1000x180 Ø3800	600x250 - Ø7000
3	310x310 Ø4000	350x350 Ø3000	400x400 - Ø6400
4	Ø380 Ø5000	Ø420 Ø3800	-
5	Ø660x8 Ø18000	Ø711x16 Ø38000	-
6	Ø610x18 Ø14000	Ø610x22 Ø19000	-
7	660x610x16	660x610x20	-
8	508x508x20	600x600x20	-
9	200x28 Ø3200	200x30 Ø1600	-
10	200x28 Ø3200	200x30 Ø1800	-
11	200x28 Ø3200	200x30 Ø1600	-
12	200x28 Ø3200	200x30 Ø1800	-
13	200x28 Ø3200	200x30 Ø1600	-
14	UPN 1000 Ø3500	UPN 1000 Ø3000	-
15	UPN 1000 Ø3500	UPN 1000 Ø3000	-
16	IPE 1000 Ø3000	IPN 1000 Ø3000	-
17	HEM 1000 Ø3000	HEM 1000 Ø3000	-
18	UPN 700 Ø80000	UPN 800 Ø100000	UPN 1000 - Ø90000
19	IPE 800 Ø38000	IPE 1000 Ø55000	IPE 1000 - Ø49500
20	HEA 800 Ø43000	HEB 800 - Ø55000	HEB 1000 - Ø55000

## Technical specifications

Section mod. (cm <sup>3</sup> )	3500-7700	7000-11500	7000-15000
Power	110kW - 150hp	170kW - 230hp	240kW - 320hp
RPM	0 - 7	0 - 7	0 - 6
Tool Ø (mm)	840	940	1025/815
Shaft Ø (mm)	420/420	520/420	520/420
Weight (kg)	75100	85250	195000
Dimensions (mm)	6900x5500x4300	7300x6000x4350	10000x8250x4550

- Standard rolls
- One set of rolls is required for each tube OD
- Special rolls for thin wall profiles
- Special rolls
- Pulling arm device

Data achieved using special tooling, 240N/mm<sup>2</sup> yield point steel and several bending operations. All data of the machines is not binding and may be subject to change without notice. Pictures are for demonstration purpose only.

## Head quarters

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