
















MAX. PERFORMANCES

POS. / TYPE	ALFA 40 W=4,2 cm ³ Mat.R=40 kg cm ²			ALFA 50 W=6,5 cm ³ Mat.R=40 kg cm ²			ALFA 70 W=21 cm ³ Mat.R=40 kg cm ²		
	Sizes in mm	Min. Radii	Remarks (*)	Sizes in mm	Min. Radii	Remarks (*)	Sizes in mm	Min. Radii	Remarks (*)
	20x10	100	●	20x10	100	●	40x10	150	●
	50x8	300	●	50x12	200	●	70x10	250	●
	50x10	300	●✦	50x15	500	●✦	100x15	450	●✦▲
	40x5	80	●	50x5	100	●	50x10	130	●
	60x15	130	●	80x16	200	●	80x20	200	●
	60x20	300	●✦	80x20	600	●✦	130x30	400	●✦✧
	15	130	●	15	150	●	30	150	●
	25	250	●	30	300	●	40	250	●
	28	600	●✦	35	700	●✦	50	500	●✦
	20	80	■	20	150	■	35	150	■
	28	150	■	35	300	■	50	250	■
	30	300	■✦	40	400	■✦	60	400	■✦
	30x30x3	130	●	30x30x3	125	●	35x35x3	250	●
	50x50x5	300	●✦	50x50x5	250	●✦	70x70x8	500	●✦
	50x50x7	500	●✦	60x60x6	500	●✦	80x80x8	600	●✦
	30x30x3	200	●▲	30x30x3	200	●▲	40x40x4	300	●▲
	40x40x4	300	●▲	40x40x5	300	●▲	70x70x9	500	●▲
	45x45x5	600	●▲	50x50x6	500	●▲	80x80x8	600	●▲✧
	30x30x3	100	●	30x30x3	150	●	70x30x4	200	●
	60x30x5,5	250	●	60x60x7	300	●	70x70x8	500	●
	50x50x5	500	●✦	80x40x7,5	500	●✦	80x80x8	700	●✦
	30x30x3	150	●	30x30x3	150	●	30x30x4	200	●
	60x30x5,5	300	●	50x50x6	300	●	70x70x8	500	●
	45x45x6	600	●✦	70x35x6	500	●✦	80x80x8	700	●✦
	30x15x4	150	●	30x15x4	150	●	60x30x6	200	●
	50x25x5	250	●	60x30x6	200	●	120x55x6	400	●
	60x30x6	400	●✦	80x45x6	400	●✦	140x60x7,5	600	●✦✧
	30x15x4	130	●	30x15x4	150	●	60x30x6	200	●
	50x25x5	250	●✦	50x25x5	250	●	120x55x6	400	●
	60x30x5	350	●	80x45x6	500	●✦	140x60x7,5	600	●✦✧
	21,3x2,35 (1/2")	80	○	26,9x2,3 (3/4")	100	○	48,3x3,2 (1,5")	200	○
	33,7x2,6 (1")	250	○	48,3x2,9 (1,5")	300	○	88,9x3,2 (3")	400	○
	48,3x2,9 (1,5")	300	○✦	60,3x3,2 (2")	500	○✦	101,6x3,6 (3,5")	600	○
	25x1,5	150	○	25x1,5	100	○	40x2	200	○
	50x1,8	700	○	60x2	400	○	100x2	1000	○
	60x2	800	○✦	70x2	800	○✦	100x3	1200	○✦
	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	INP 120	250	○✧
	-	-	-	-	-	-	-	-	-
	20x20x1,5	200	*	20x20x2	120	*	40x40x2,7	250	*
	40x40x2	600	*	50x50x2,5	800	*	80x80x3,2	600	*
	45x45x2,5	1000	*✦	60x60x3	2000	*✦	80x80x4	900	*
	30x10x1,5	200	*	30x15x1,5	150	*	50x25x2	300	*
	40x20x2,5	700	*	60x30x2,5	1000	*	80x40x5	1000	*
	50x25x2,5	600	*✦	80x30x3	3000	*✦	120x30x3,2	1500	○✧
	30x10x1,5	300	*	30x15x2	150	*	50x25x2	300	*
	50x25x2,5	700	*	60x30x2,5	1000	*	100x30x3,2	1000	*
	60x30x2,5	1000	*✦	80x30x3	2000	*✦	120x40x3	1500	*✦
	30x10x1,5	200	○✧	30x15x1,5	150	○✧	50x25x2	300	○✧
	40x20x2,5	600	○✧	60x30x2,5	800	○✧	100x30x3,2	1000	○✧
	50x25x2,5	900	○✦✧	80x30x3	3000	○✦✧	100x50x3,2	1500	○✦✧
	30x10x1,5	300	○✧	30x15x2	150	○✧	50x25x2	300	○✧
	50x25x1,5	700	○✧	60x30x2,5	800	○✧	100x30x3,2	1000	○✧
	60x30x2,5	1000	○✦✧	80x30x3	2500	○✦✧	120x40x3	1500	○✦✧

MAXIMUM CAPACITIES, MINIMUM RADII AND NOTES ARE INDICATIVE AND NOT BINDING.

For sections and particular works not indicated in the above-mentioned table,

please contact our technical office.

For each kind of profile:

The 1st size is the min. radius obtainable with small profiles.

The 2nd size shows the machine standard performances for continuous works.

The 3rd size shows the machine max. performance, only for occasional works.

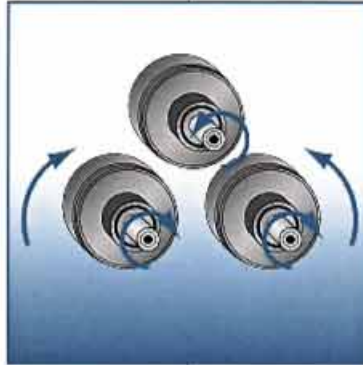


BENDINGMACHINES • CINTREUSES • PROFILBIEGEMASCHINEN • CURVADORAS • CURVAPROFILATI

OPERATING FEATURES

Double independent adjusted bending machines with three driving rolls. Very flexible for any kind of work and suitable especially for bending:

- **TUBES** to manufacture coils, furniture, toys for kids, skeletons, etc.
- **FLATS AND ANGLE BARS FOR FLANGES** to manufacture flanges and circles in general.
- **NORMAL AND SPECIAL PROFILES** For any other application.



Specialised toolings are available to make the machine more suitable to your needs.

These machines can be equipped with a two or three axis numerical control allowing bending of multi-radius parts with any kind of profile.

TAURING Bending machines ALFA 40-50-70 are available in the following versions:

• **"H2" VERSION**

Both lower rolls are hydraulically independent adjusted. The double hydraulic adjustment allows the bending of tubes and sections at very reduced radii. These machines are perfect for the bending of right-hand and left-hand coils.

• **"PQI" VERSION**

ALFA models are equipped with an intelligent quote positioner that not only allows setting different values, but also to insert directly bending radii; ALFA models are therefore able to calculate the correct position of the bending roll to get any desired bending radius. 20 storageable quotas on a single program • 10 additional programs of 10 quotas each • bending radii pre-determination in single pass and multipass • quota entering by means of keypad or self-learning procedure • instrument configuration for mm/inches radii programming • easy and quick programming.

• **CNC VERSIONS**

Machines equipped with computerised numerical control for the manufacture of any regular and irregular bending shape with direct entry of bending radii.

This machine is ideal for the manufacture of chairs, armchairs and other furniture; suitable for the execution of any parts made of tube as for example frames and other articles for the automotive industry. *Ask for specific catalogue.*

GENERAL FEATURES

Machines are composed of a rugged steel frame (ALFA 70) or cast iron frame (ALFA 40 and 50). All the important mechanical parts are in alloy steel, casehardened, tempered and rectified.

The ALFA 50 and ALFA 70 models can work either in horizontal or vertical position; the ALFA 40 model can be equipped with tilting accessory.

Before shipment each machine is tested. This operation is considered very important, as satisfied customers and a reliable high quality product are our objectives.

Our technicians are at your complete disposal to give you advice about exact performances on your application. Please don't forget to let us have profile's size, bending position and min. bending radii.



All our machines are equipped with self braking motors and are in conformity with "CE" Regulations.



TECHNICAL DATA	u.m.	ALFA 40	ALFA 50	ALFA 70
Roll-holding shafts diam.	mm	40	50	70
Standard shafts working length	mm	95	115	160
Universal upper diam.	mm	137	165	245
Universal lower rolls diam.	mm	147	175	245
Centre distance of lower rolls positioned at zero run	mm	201	229	368
Centre distance of lower rolls positioned at max. run	mm	180	207	319
Lower rolls max. run	mm	47	84	102
Shaft speed	min ⁻¹	13	8	5,5
Rolls rotation main motor (*)	kW	3	3	4
Hydraulic gearbox (*)	kW	0,75	0,75	1,1
Total power (*)	kW	3,75	3,75	5,1
Power of each hydraulic cylinder (*)	kN	85	95	158
Noise level during bending operation (*)	db	80	75	75
Machine approx. weight (*)	kg	400~	650~	1300~
Wooden box weight (*)	kg	48	95	109
Machine dimensions (*)	cm	105x75x120h	138x101x132h	164x122x158h
Wooden box dimensions (*)	cm	110x85x145h	150x124x150h	182x152x192h

(*) Data refer to machine H version

ACCESSORIES	ALFA 40	ALFA 50	ALFA 70
Universal rolls	Ⓢ	Ⓢ	Ⓢ
Articulated side straighteners, with mechanical adjustment	Ⓢ	Ⓢ	Ⓢ
Single control straightener	Ⓝ	Ⓝ	Ⓝ
Tube rolls (*)	Ⓡ	Ⓡ	Ⓡ
Short shafts without external threads and nuts (*) or extended	Ⓡ	Ⓡ	Ⓡ
Tilting base	Ⓡ	Ⓢ	Ⓢ
Double side straighteners	Ⓡ	Ⓡ	Ⓡ
Rolls for special sections (*)	Ⓡ	Ⓡ	Ⓡ
Special leg in straightener (pos. 6*)	Ⓡ	Ⓡ	Ⓡ
Calibrating tool to keep bending radii steady	Ⓡ	Ⓡ	Ⓡ
Shafts tensioning brace rods	Ⓡ	Ⓡ	Ⓡ
Special straightener for small diameters	Ⓡ	Ⓡ	Ⓡ
Roll positioner on one or both bending rolls	Ⓡ	Ⓡ	Ⓡ
ROS winding staircase device	Ⓡ	Ⓡ	Ⓡ
Lifting eye	Ⓢ	Ⓢ	Ⓢ
Service keys	Ⓢ	Ⓢ	Ⓢ
Use and Maintenance Manual	Ⓢ	Ⓢ	Ⓢ
ARC 50 130/300/500	Ⓡ	Ⓡ	Ⓡ

LEGEND: * SEE BENDING EXAMPLES

Ⓢ STANDARD EQUIPMENT.

Ⓡ ON REQUEST.

Ⓝ NOT AVAILABLE.



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