

MACKMA[®]

GRUPPOMASSARO[®]

NON-MANDREL BENDING MACHINES

Features Include:

- All-Electric w/ Inverter
- Left/Right Bending
- Under-head Bending (models BM 42 to BM 76)
- Minimal Distance between Bends
- Optional Programmable Control w/ up to 100 Program Storage
- Adaptation to accept other manufacturer's tools

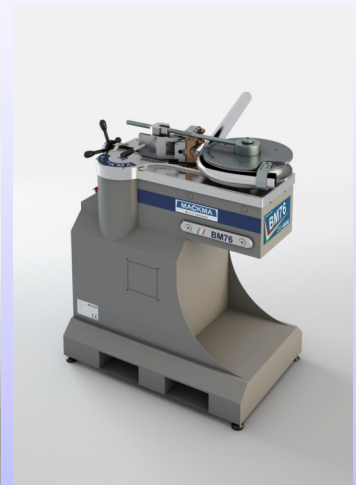
BM 42



BM 48



BM 76



BM 110



BM 200



Industries Served:

- Furniture
- Automotive & Marine
- Food Processing
- Fitness Equipment
- Hydraulics
- ... and Many More



Under-head Bending

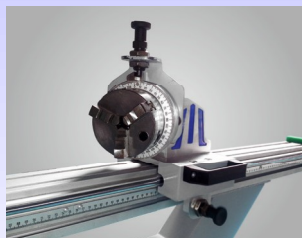


Left and Right Bending

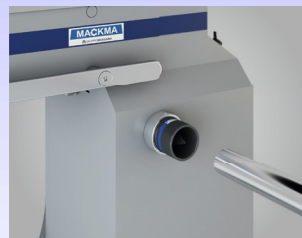
Optional Equipment



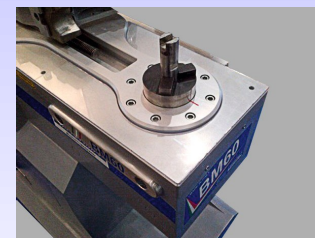
Expert Control



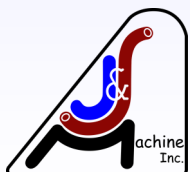
Positioning Device



Deburring Device



Adaptation to accept other manufacturer's tools



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Model	BM 34	BM 42	BM 42/A	BM 48	BM 60	BM 76
Maximum Tube	38 x 2 mm 1.5 x .078"	48 x 1.5 mm 1.890 x .060"	48 x 1.5 mm 1.890 x .060"	48 x 4 mm 1.890 x .157"	64 x 5 mm 2.50 x .200"	76 x 3 mm 3.00 x .120"
Maximum Pipe - Sch 80	1"	1-1/4"	1-1/4"	1-1/2"	2"	2-1/2"
Stainless Steel - 304	33.4 x 1.5 mm 1.315 x .060"	42 x 1.5 mm 1.650 x .060"	42 x 1.5 mm 1.650 x .060"	48 x 2 mm 1.890 x .078"	64 x 3 mm 2.50 x .120"	70 x 4 mm 2.750 x .157"
Maximum Radius	170 mm / 6.690"	260 mm / 10.20"	260 mm / 10.20"	260 mm / 10.20"	380 mm / 14.950"	380 mm / 14.950"
Minimum Rotation Speed	2 RPM	2 RPM	2 RPM	2 RPM	1 RPM	1 RPM
Maximum Rotation Speed	3 RPM	3 RPM	3 RPM	3 RPM	2 RPM	2 RPM
Torque	914 N/m / 675 ft lbs	1800 N/m / 1327 ft lbs	1800 N/m / 1327 ft lbs	2400 N/m / 1770 ft lbs	8000 N/m / 5900 ft lbs	10,000 N/m 7,375 ft lbs
Installed Power	0.55 Kw / 0.75 Hp	0.75 Kw / 1 Hp	0.75 Kw / 1 Hp	1.1 Kw / 1.5 Hp	1.5 Kw / 2 Hp	1.8 Kw / 2.4 Hp
Weight	33 Kg / 73 lbs	90 Kg / 198 lbs	110 kg / 242 lbs	110 kg / 242 lbs	210 kg / 465 lbs	306 kg / 675 lbs
Dimensions (WxHxL)	268 x 310 x 478 mm	347 x 550 x 655 mm 14 x 22 x 26"	440 x 970 x 700 mm 17.5 x 38.2 x 28"	440 x 970 x 700 mm 17.5 x 38.2 x 28"	660 x 1100 x 1000 mm 26 x 43.5 x 40"	700 x 1120 x 972 mm 28 x 44 x 39"
Bend Head Thickness	N / A		188 mm / 7.40"	188 mm / 7.40"	300 mm / 11.815"	315 mm / 12.40"
Bending Head Projection	N / A	242 mm / 9.50"	242 mm / 9.50"	285 mm / 11.220"	360 mm / 14.170"	384 mm / 15.1"
Underneath Bending	No	Yes	Yes	Yes	Yes	Yes

Model	BM 110	BM 125	BM 150	BM 200	BM 250	BM 300
Maximum Tube	110 x 4 mm 4.330 x .157"	141.3 x 4.78 mm 5.56 x .188"	168.3 x 7.11 mm 6.625 x .280"	165.1 x 5.4 mm 6.50 x .212"	273 x 7 mm 10.750 x .275"	323.9 x 17.47 mm 12.750 x .687"
Maximum Pipe - Sch 80	3-1/2"	4"	5"	6"	8"	10"
Stainless Steel - 304	110 x 2.6 mm 4.330 x .100"	114.3 x 4.78 mm 4.50 x .188"	141.3 x 6.55 mm 5.560 x .250"	141.3 x 6.5 mm 5.560 x .250"	219.1 x 8.18 mm 8.625 x .322"	273 x 12.7 mm 10.750 x .500"
Maximum Radius	400 mm / 15.750"	700 mm / 27.550"	850 mm / 33.400"	900 mm / 35.40"	1400 mm / 55.100"	1700 mm / 66.900"
Minimum Rotation Speed	0.6 RPM	N / A	N / A	0.5 RPM	N / A	N / A
Maximum Rotation Speed	1.4 RPM	0.98 RPM	1 RPM	1 RPM	0.6 RPM	0.4 RPM
Torque	20,000 N/m 14,750 ft lbs	22,000 N/m 16,226 ft lbs	37,000 N/m 27,289 ft lbs	77,000 N/m 56,792 ft lbs	230,000 N/m 169,639 ft lbs	500,000 N/m 368,780 ft lbs
Installed Power	4 Kw / 5.36 Hp	4 Kw / 5.36 hp	7.5 Kw / 10 hp	11 Kw / 14.75 hp	22 Kw / 30 hp	50 Kw / 67 hp
Weight	900 kg / 1,985 lbs	1200 kg / 2,645 lbs	1500 kg / 3,310 lbs	2400 kg / 5,300 lbs	3800 kg / 8,400 lbs	6500 kg / 14,330 lbs
Dimensions (WxHxL)	700 x 1100 x 1000 mm 28 x 43.5 x	800 x 1200 x 1400 mm 32 x 47.5 x 55"	1000 x 1200 x 1600 mm 39 x 47.5 x 63"	900 x 1300 x 1800 mm 35.5 x 51 x 71"	1400 x 1500 x 2150 mm 55 x 59 x 85"	1700 x 1800 x 3500 mm 67 x 71 x 138"
Bend Head Thickness	N / A	N / A	N / A	N / A	N / A	N / A
Bending Head Projection	N / A	N / A	N / A	N / A	N / A	N / A
Underneath Bending	No	No	No	No	No	No

Note: Technical data and machine design subject to change without notice.