



TUBE BENDING MACHINES

ABM 38 CNC-3

ABM 50 CNC-3

ABM 76 CNC-3

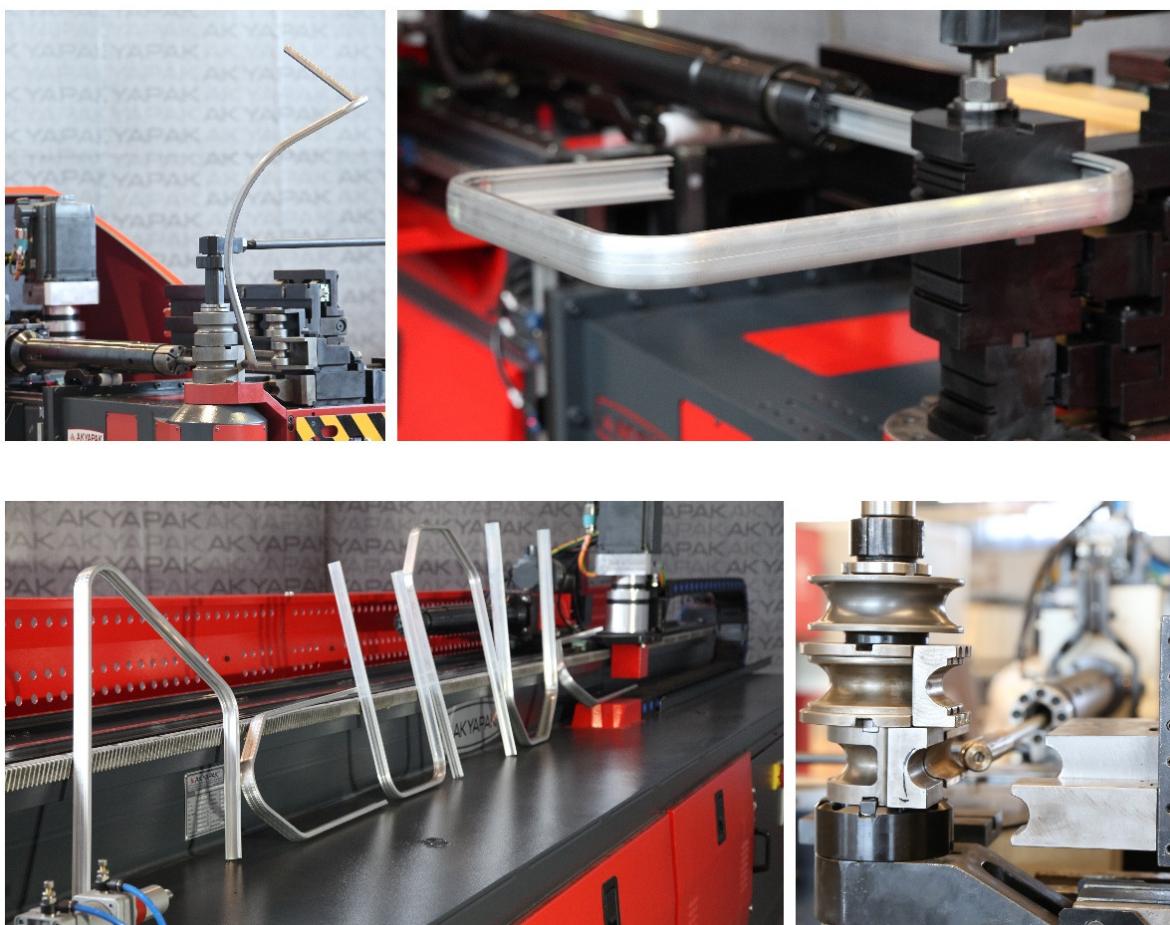


CYM MATERIALES S.A.
INDUSTRIAL SOLUTIONS

TECHNICAL SPECIFICATIONS

ADVANCED SOLUTIONS FOR TUBE BENDING

The ABM series of tube benders in NC and CNC versions bend metal tubes with perfection and ease. High technology together with quality components and materials result in excellent bends on tubes of various lengths in diameters 25, 38, 50 and 76 mm. ABM benders process carbon steel, stainless steel, aluminum and similar materials in simple or complex shapes. ABM is the first choice of automotive, furniture, refrigeration-heating and insulation manufacturers.



ABM-CNC tube bending machines emphasize convenience and efficiency through sequential and automatic bending processes. In this way, production cost is significantly reduced by processing single or multiple volumes of parts. With simple-to-use CNC programming, all operators have to do is load a tube into the machine and select the desired program.



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TECHNICAL DATA

	ABM 38 CNC3	ABM 50 CNC3	ABM 76 CNC3	
Capacity				
Max. Diam Ext	Ø 38	Ø 50	Ø 76	mm
Max. Thickness	2	3.04	3.04	mm
Bending Degree Max.	180	180	180	Grados
Bending Radius Max.	150	170	260	mm
Movements				
Feeding speed	1000	1000	1000	mm/seg
Rotation Speed	200°	200°	200°	°/seg
Bending speed	90°	90°	30°	° /seg
Tolerance				
Feeding	+/- 0,1	+/- 0,1	+/- 0,1	mm
Rotation	+/- 0,1	+/- 0,1	+/- 0,1	Grados
Bending	+/- 0,1	+/- 0,1	+/- 0,1	Grados
Hydraulic System				
Total Power	7.5 5.5	10 7.5	10 7.5	HP Kw
Max Hyd. Preassure	140	140	180	BAR
Oil Tank Capacity	120	120	120	Lts



ABM-38 CNC-3



ABM-50 CNC-3



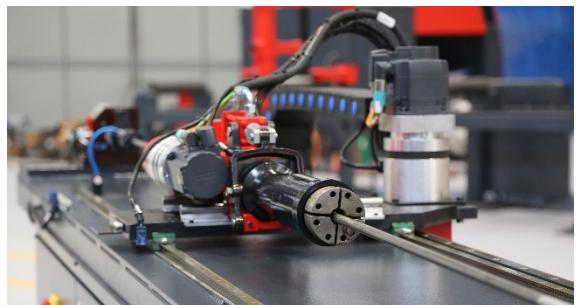
ABM-76 CNC-3



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EQUIPMENT COMPONENTS

Servomotor-driven bending, turning, feeding and traversing axes.



Hydraulic auxiliary shafts



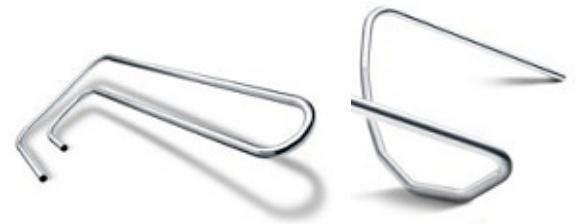
Multi-stack bending
(up to 3 matrices)



Working with or without mandrel
(Automatic lubrication of the
mandrel is provided with the
mandrel selection)



Bending mild steel, aluminum,
stainless steel or similar materials
into simple or complex shapes.



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Spiral bending (available only with certain pipe diameters)



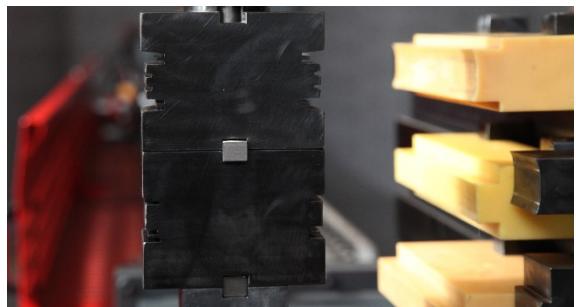
Pedal control



Bending in a wide range of angles



Dies for any size and variety of profiles required



Safety contact mat



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Hydraulic oil cooler



High-quality motion components for greater precision. These components are chosen from high quality products from INA - Schaeffler Group® (Germany), EISELE®, Brevini® or equivalent.



Control panel

- Simple to use interface
- Programming in YBC mode
- Automatic tube length calculation
- 3D part preview
- 15" touch screen
- Adjustment of servo-driven axis speeds



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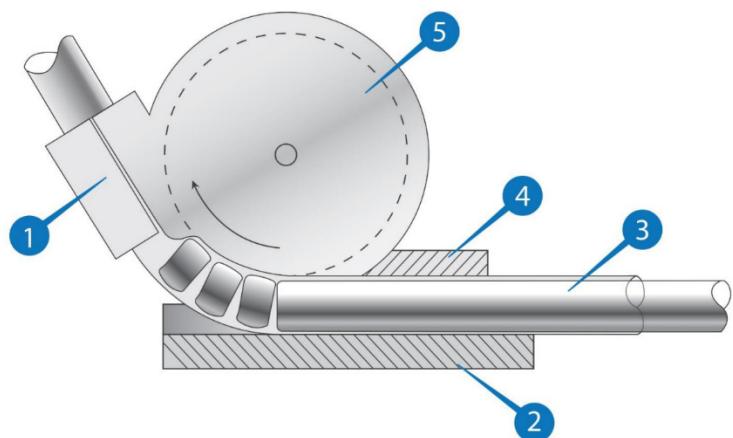
OPTIONAL

- Step-by-step and fully automatic bending capability
- Bending tubes longer than the machine length (available for certain tube diameters)
- Safety light curtain (optional)
- Tube punching unit (optional)
- Top protection cover (optional)



TOOLING GUIDE

- 1- Clamp die
- 2- Pressure die
- 3- Mandrels
- 4- Wiper Die
- 5- Bend Die



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ADMINISTRATION AND FACTORY

Brig. Estanislao Lopez N° 6
[S2108AIB] Soldini - Santa Fé - Argentina

📞 +54 341 490 1100

📠 +54 9 341 515-0249

✉️ info@cym.com.ar

www.cym.com.ar

OFFICE BUENOS AIRES

Eizaguirre 1073
[B1754FLA] San Justo - Buenos Aires - Argentina
📞 +54 11 3979-4111
📠 +54 9 11 3345-8578 +54 9 11 2630-8077
✉️ cymba@cym.com.ar
www.cym.com.ar

