



compatible with commercially-available **C tools**

The combined radial and axial tube end former is extremely flexible, thanks to its sophisticated technology

When used with commercially-available C tools, the machine functions radially for expanding and impanding (reduction)

In combination with clamping jaws and mandrels or drawing rings, the machine is used for axial formings such as roll necks, etc.

Technical data

Forming unit

- Tube diameter expanding 20 – 70 mm *
- Tube diameter impanding 10 – 70 mm *
- Tube diameter C-IO 20 – 70 mm *
- Tube diameter axial form. 5 – 150 mm *
- Form length radial 40 – 80 mm *
- Form length axial 40 – 100 mm *
- Tube wall thickness max. 4 mm *
- Axial stroke \varnothing 100 x 100 mm – 24 t
- Expanding/Impanding stroke in \varnothing 7 mm *
- Clamping stroke \varnothing 100 x 50 mm – 24 t
- Mean cycle duration: ~3 s

Hydraulic equipment

- Tank capacity 63 L
- Delivery capacity 16 L/min
- Pressure 300 bar
- Motor 5.5 kW – connection 400 V / 16 A
- Valves 24 V Bosch Rexroth

Machine structure

- Universal housing HW-Flex
- Electrical unit with adequate reserve
- Hydraulic unit with screwed housing
- C tool holder for commercially-available C / C-IO tools
- Axial forming unit
- Clamping tool holder for axial forming
- Forward and return stroke configuration via touchscreen
- Touchscreen integrated in machine housing
- Safety sliding door
- Dimension L = 1200; W = 800; H = 1500 mm
- Emission sound pressure level: 75 dB (A)
- Colour of housing – Ral 5010 gentian blue
- Colour of electrical unit – Ral 7035 light grey
- Colour AX tool holder – polished
- Weight approx. 500 kg

Electrical equipment

- PLC Möller XC100 24V
- 3.5" touchscreen
- Pulse control (minimising of segment gap marks)
- „ON/OFF“ main switch
- „Control ON/OFF“ selector switch
- Tool cover safety switch
- Emergency STOP
- „Acknowledge emergency STOP“ illuminated switch
- „Process end“ indicator lamp
- Foot pedal

Options

- Choice of colour
- Siemens electrical equipment
- Emergency Stop via safety relay
- Connection without neutral conductor
- Special voltage
- Connection for robot handling via RS232
- Profibus interface
- Oil cooler
- Oil sump
- Central lubricating sys. for sliding surfaces (Pico)
- Central lubricating sys. for sliding surfaces (Vogel)
- Lubricant level monitoring
- Oil level and oil temperature monitoring
- Filter dirt monitoring
- Axial stroke 12 t (up to -50% cycle duration)
- Axial stroke 34 t (up to +100% cycle duration)
- Output boost 7.5 kW – 20 L/min
- Output boost 11 kW – 25 L/min
- Range extension to 12" (Tube- \varnothing max. 170mm)



TUBIMATIC-AX

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