



Scan the QR code to see the machine working

SUITABLE FOR SLIDING-HEAD CNC LATHES WITH SPINDLE CAPACITY FROM 12 mm TO 38 mm, FOR MACHINING BARS FROM Ø5 mm TO Ø38 mm*.

POWER IS EQUIPPED WITH A QUICK COUPLING/ DECOUPLING SYSTEM FOR RAPID REPLACEMENT OF THE BAR GUIDE CHANNELS.

THE FRONT SUPPORT SYSTEM ENSURES STABILITY AT HIGH SPINDLE SPEEDS THANKS TO SEMI-CYLINDRICAL BUSHINGS, WHICH PERFECTLY MATCH THE DIAMETER OF THE MACHINED BAR. SUITABLE FOR SLIDING-HEAD CNC LATHES IN ALL CONFIGURATIONS, WITH OR WITHOUT GUIDE BUSHING.

AVAILABLE IN STANDARD SINGLE-LEVEL BAR LOADING VERSION, WITH OPTIONAL STEP-BY-STEP SYSTEM.

*Minimum and maximum values depends on the lathe model.

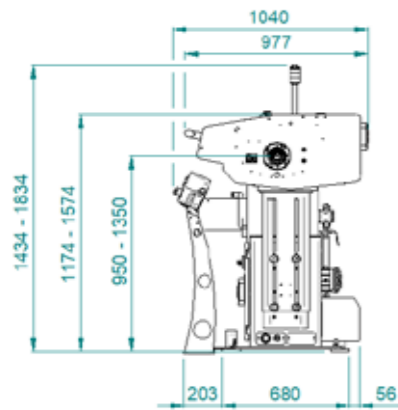


POWER

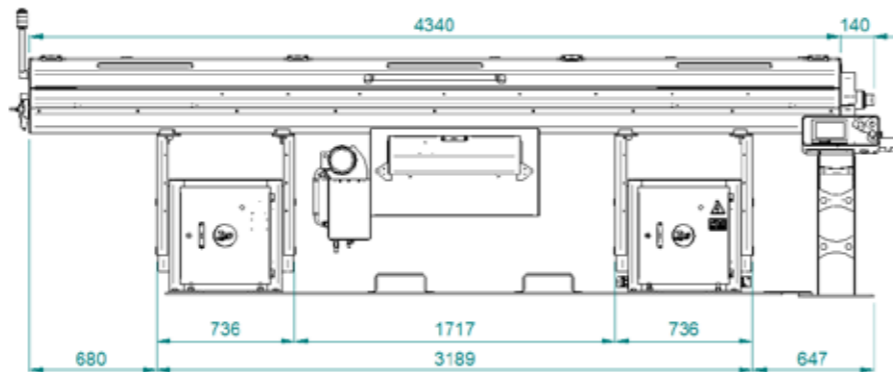
| LENGHT | VERSIONE |
|----------|----------|
| 3 meters | Dx - Sx |



BAR FEEDER LAYOUT



POWER 3 mt SINGLE LEVEL MAGAZINE



TECHNICAL DATA

| | POWER |
|-------------------------|--------------------------------------|
| Ø ROUND BARS | 5 mm - 38 mm / 0.15" - 1.49" |
| ⊠ HEXAGONAL BARS | 5 mm - 32 mm / 0.19" - 1.29" |
| □ SQUARE BARS | 5 mm - 27 mm / 0.19" - 1.06" |
| ⇄ BAR LENGTH | 1200 mm - 3200 mm / 47.24" - 125.98" |
| ⌚ MAX FEED SPEED | 100 m/min / 328,08'/min |
| ⇄ MAX REMNANT LENGTH | 400 mm / 15,74" |
| ⊕ AIR PRESSURE REQUIRED | 6.5 - 7.5 bar |

7" GRAPHIC TOUCH-SCREEN PLC WITH INTEGRATED REMOTE CONNECTION

The graphic touch-screen PLC with Codesys3 programming protocol ensures instantaneous page changes in the graphic interface, developed and patented by Top Automazioni.

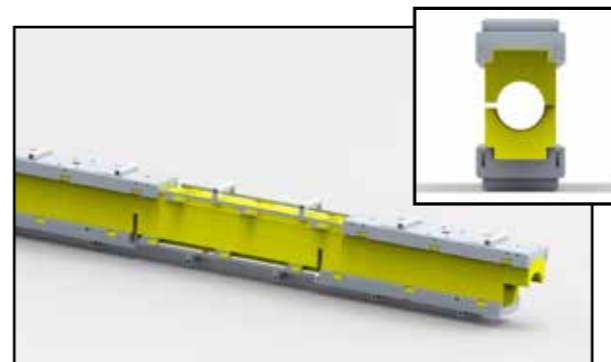
The interface allows real-time management of: axis position data, loader-lathe signals, proximity status, sensors, pneumatic valves and actuators, as well as work phase and piece counting. The 7" color touch screen offers intuitive control of the loader's functions and parameters. The system includes advanced diagnostics and alarm management, also available remotely.



QUICK-CHANGE GUIDE CHANNEL SYSTEM

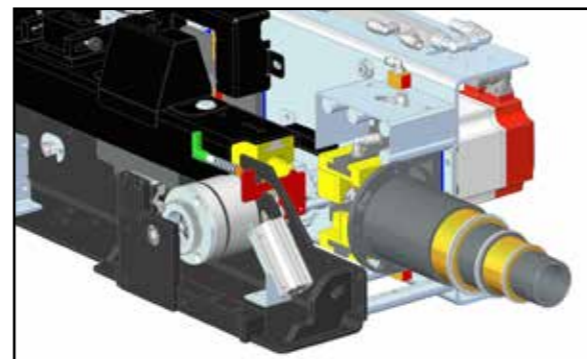
POWER is equipped with a quick coupling/decoupling guide channel change system, reducing setup times when guide channel replacement is required.

Available guide channels: Ø12, Ø15, Ø18, Ø20, Ø22, Ø23, Ø25, Ø28, Ø30, Ø32, Ø34, Ø35, Ø37, Ø38



BAR MEASUREMENT SYSTEM WITH MECHANICAL PROBE

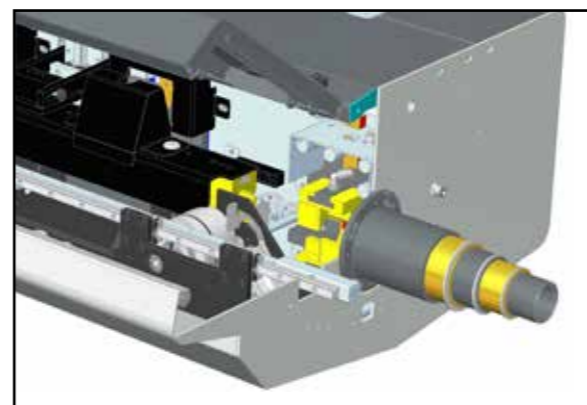
The POWER mechanical measuring device (flap) accurately detects the bar length and ensures high reliability under all operating conditions, including: presence of oil on the bar or in the reading area; different bar sections or materials; variations in light or reflectance in the reading area.



SLIDING HEADSTOCK SYNCHRONIZATION

POWER synchronizes the movements of the lathe spindle with the bar feeder axis (pusher) via a mechanical arm connected to the sliding headstock carriage.

The PLC controls the engagement and disengagement of the bar feeder axis from the spindle movements by activating or deactivating a pneumatic toothed clutch in a fraction of a second, ensuring precise synchronization.



TOP® PATENTS: CENTERING DEVICE AND 5/6-STAGE TELESCOPIC SYSTEM

POWER can be equipped with the following innovative solutions patented by Top Automazioni: Self-centering mobile centering device Featuring 6 rollers, mounted integrally at the rear of the sliding headstock carriage. The centering device replicates the movements of the sliding headstock to support the bar up to the spindle entrance, reducing vibrations and improving both surface finish and cycle times. Compact telescopic system Available in 5-stage or 6-stage versions, installed between the bar feeder front plate and the rear of the lathe spindle. The system extends and retracts following the sliding headstock movements, protecting the rotating bar and supporting the pusher. Both versions measure 130 mm when retracted, with a stroke of: 315 mm (5 stages), 425 mm (6 stages).



RETRACTABLE SCRAP DISCHARGE BOX AND CONTINUOUS GUIDE CHANNEL

POWER integrates an ergonomic and functional retractable bar end discharge drawer, concealed within the bodywork during operation.

The drawer has a usable volume of 40 cm³ and a maximum load capacity of 120 kg, and can be manually opened from the front for easy unloading of unprocessed bar ends.

The POWER guide channel is made of oil-bath polyurethane and remains uninterrupted even in the scrap discharge area, where a pneumatically operated tilting guide system allows bar ends up to 400 mm to be discharged smoothly.



SINGLE-LEVEL MAGAZINE

POWER features a single-level magazine usable in two modes:

- Inclined loading tray:** capacity of 315 mm + 1 bar of the set diameter, ideal for bars from Ø6 to Ø38 mm.

OPTIONAL

- Step-by-step system** (22 positions) for safely machining bars from Ø5 to Ø6 mm.

Switching between configurations requires manual adjustment of the bar supports and tightening of the locking screws, a simple operation completed in approximately 2 minutes.

