

MULTI^{LS} 6/8 spindle

Multi-Spindle Bar Loaders

Technical Data

BAR LENGHT	3,20 m – 3,30 m – 3,70 m – 4,00 m – 4,30 m – 4,50 m (For different lengths please contact the manufacturer)
BAR STRAIGHTNESS	The prescribed straightness deviation of the bars to be worked should be max 0.5 mm/m
LUBRICATING OIL	Hydraulic 46
OPERATING AIR PRESSURE	Min. 6 bar
VOLTAGE	230/400 V
FEEDING SPEED	Max. 1000 mm sec
MIN. BAR CHANGING TIME	20 sec.
MAGAZINE CAPACITY	From 600 mm to 1000 mm width

Options

BUNDLE

For smooth and efficient production, a model with bundle loading for a maximum capacity of 1.5 tonnes is available. This equipment allows bars of any shape to be fed regularly, rapidly and in safe conditions with minimal operator intervention.

The bundle can be loaded with a crane or with a carriage. All of the operations are managed automatically allowing the lathe to be fed for an extended production run.

The single bar selection is guaranteed by a series of cams.

The Bundle loader is available in two versions:

- bundle integrated in the loader
- retrofit bundle for all existing bar loaders.

Secondhand Loaders

Cucchi BLT offers a selection of overhauled bar loaders assuring, in addition to a competitive price, the guarantee and the after-sales service of the original manufacturer.

Spare Parts

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Cucchi BLT manages a complete stock of spare parts for their machines and those manufactured by the brand Pietro Cucchi S.p.A. We offer quality, compliance and a guarantee of original spare parts at competitive prices.

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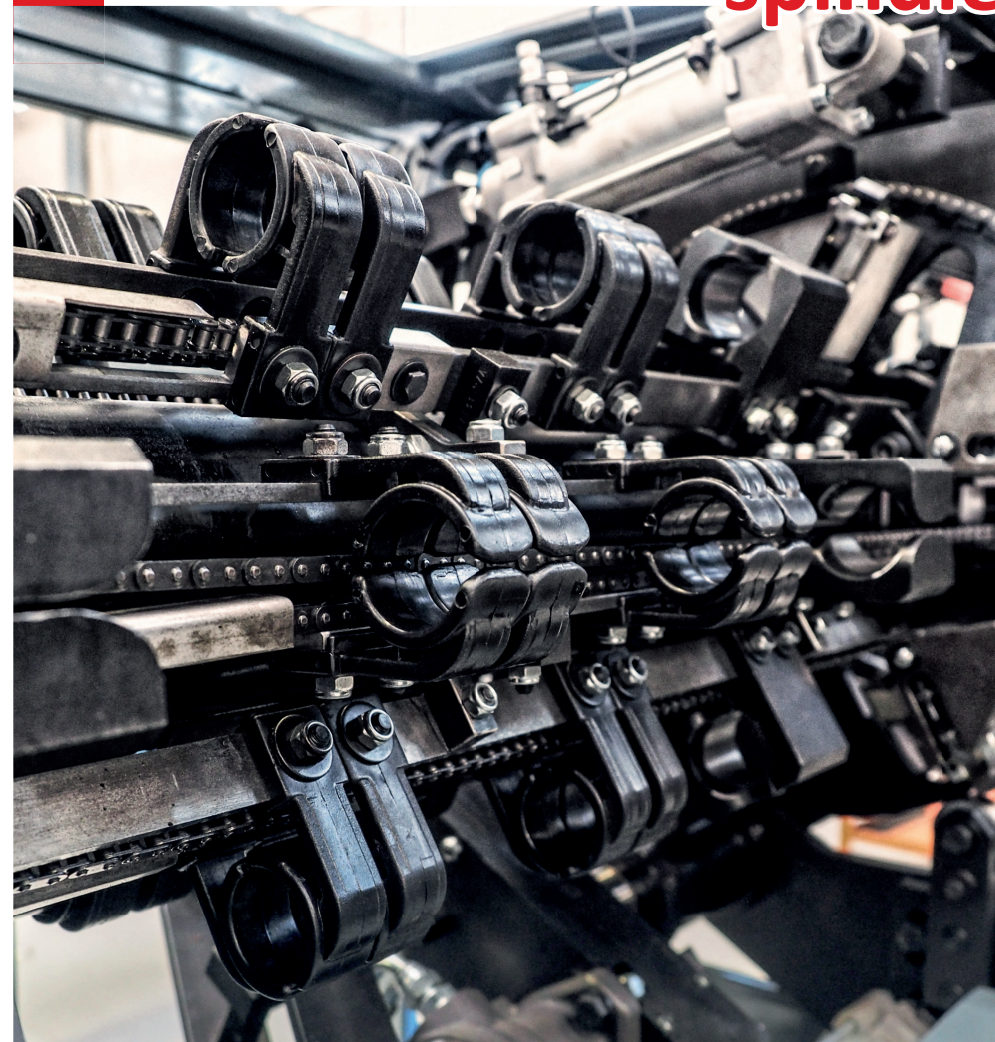
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M U L T I - S P I N D L E B A R L O A D E R S



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Multi-Spindle Bar Loaders

CUCCHI BLT bar loader models **MULTI L** and **MULTI LS** are suitable for connection to all mechanical and CNC multi-spindle lathes.

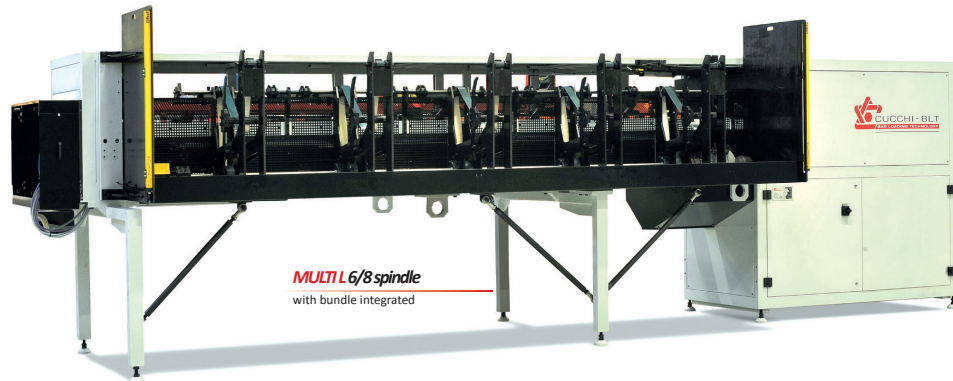
Interface to the lathe is realised by means of a coupling that transfers the indexing movement from the lathe to the loader and this is designed in accordance with the lathe specification/model.

The custom tailoring guarantees the quality of the mechanical and electrical interface.

The characteristics that identify this model are:

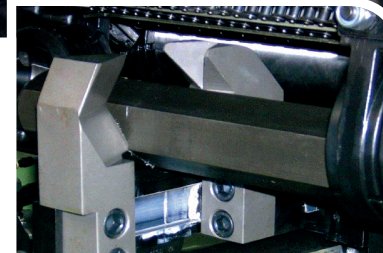
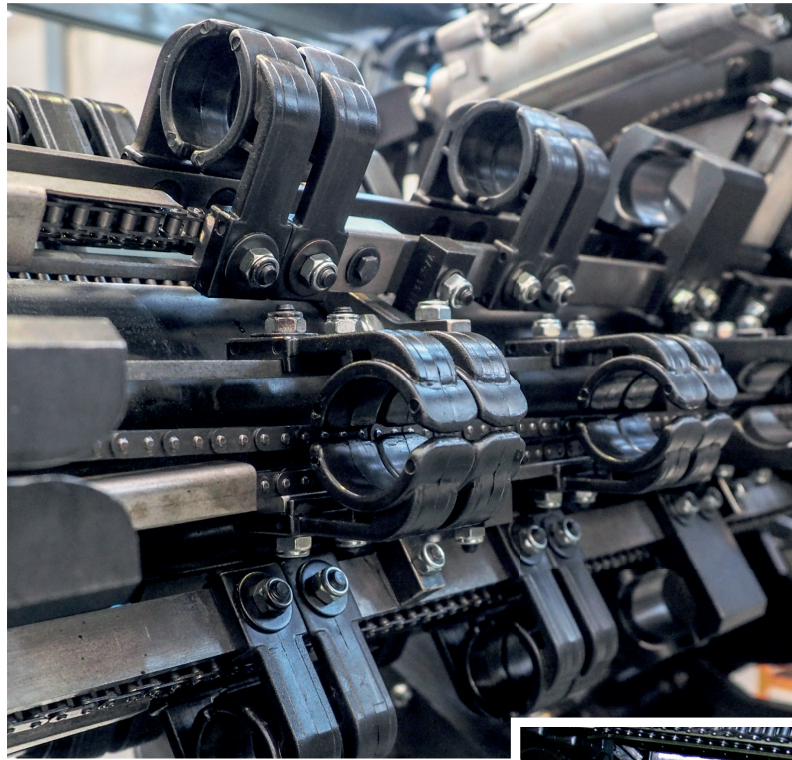
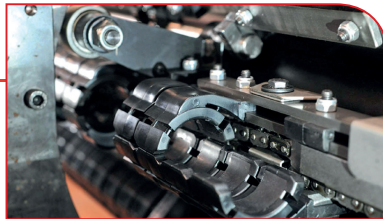
- The use of feeding systems that employ hydraulic motors.
- Removal of the feed fingers and consequent increase in the machining capacity of the lathe.
- Loading operation partially in masked time, in accordance with the lathe.
- The use of die-cast synthetic resin conceived to dampen vibrations and reduce the noise generated by the rotating bars;
- Possibility to run bars of any shape and material: round, hexagonal and square.
- Rear extraction of the bar remnant.

The advantage in MULTI LS is to carry out the same machining operations of the MULTI L model in less space thanks to the use of mechanical solutions that transform the bar loading phase using the space usually occupied by the bar pusher.



BAR GUIDE

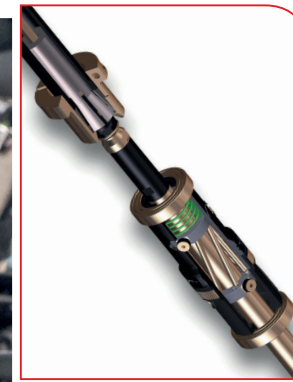
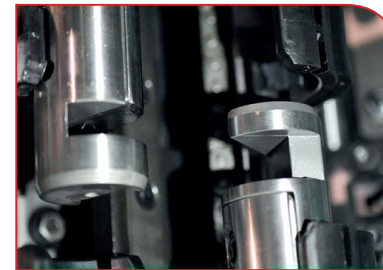
The stock tube elements of the bar-guide drum are realised in die-cast synthetic resin, a self-lubricating, elastic material conceived to dampen vibrations. The guide seat is completed with a hardened-steel insert.



LOADING RACK

The loading rack has an extension of between 600/1000 mm and it is designed in accordance with the lathe devices.

The selection of the single bar from the inclined plane is realised with a single adjustment, simplifying the process and reducing set up time.



ROTARY CENTRING DEVICE

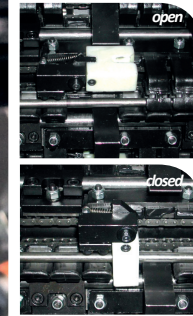
This device is positioned on bearings at the lathe spindle entrance in the area where the loader guides do not support the bar. The device prevents problems of instability and vibration of bars.

The centring of the bar, of any shape (round, hexagonal and square), is ensured by the twisting of the rods on the bar itself, with an automatic release at the point when the pusher passes through.

AUTOMATIC SPRING BUSHING

This device is applied directly to the rear lathe spindle. The bushing has a relief feature which allows it to receive the maximum diameter of the pusher. At the front there is a quick release insert with a nominal diameter equal to the worked bar.

The spring bushing guides the pusher and the bar for the entire length of the spindle to the lathe collet, improving the centring action. The connection and release of the spring bushing is automated.



FORK CENTRING DEVICE

This device is positioned in the loader guide channels and reduces the swinging of the bars in the channel itself.

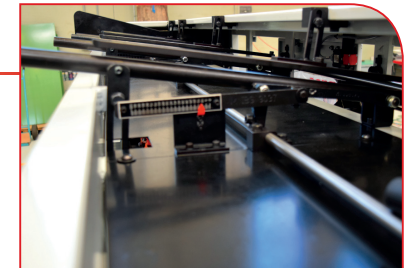
The centring forks are constructed from plastic materials and are positioned at regular intervals along the bar length. They can be easily replaced and cover a working range related to the loader capacity.

The deactivation and activation of the device is automatically operated when the pusher passes through

GRIPPER UNIT

The gripper unit allows the extraction and removal of the unusable bar remnant from the back side. The unit then introduces the new bar into the bar pusher collet. The gripper jaws are hydraulically operated and close in combination with an axial movement. They are designed to work at high operating pressure.

The rear remnant ejection has many advantages when compared to front ejection. For example, it avoids the risk of damage to the tools of the lathe and the components present in the tank. Furthermore it avoids possible obstruction of the swarf conveyor.



MODEL WITH PUSHER RELEASE

This device is available only on the MULTI LS model.

The insertion of the Pusher release between the pushing section and the pusher extension confers on the unit the same solidity as the single pusher solution.

Moving the pusher from the loading channel axis allows the area usually occupied by the pusher itself to be used to receive the new bar. This solution allows a reduction of circa 1m in total length when compared to the MULTI L model.