

FMB



SL 80s

The FMB SL 80s is an automatic Bar Loading Magazine Feeder for processing bars in the diameter range of 10 - 80 mm and in lengths up to 1250 mm (4') on CNC lathes.

Designed with a small footprint, the SL 80s still offers many of the features associated with a 12' magazine feeder. Optimally utilized when running small and medium batch production runs or work pieces with short bar lengths, features designed into the SL 80s allow for quick changeovers and ease in set-ups.

With the added advantages of Fixed Piece Feedout, Sub-Spindle Mode, Return & Wait function and Shaft Loading, the SL 80s will meet or surpass all of your short bar loader requirements.

FMB SL 80s

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M a c h i n e r y

The FMB SL 80s is an automatic Bar Feeder for processing bars in the diameter range of 10 - 80 mm and in lengths up to 1200 or 4' on machine tools



- **Free Of Noise And Vibration**

While processing the bar there is no contact between the bar stock and the loading magazine, so whether the bar is round, square or hexagonal, high speed machining is possible with the use of a properly sized lathe spindle liner.

- **Minimum Maintenance**

Smart design requires very little preventative maintenance.

- **Minimum Space Requirement**

The compact design of the SL 80s bar feeder results in the minimum amount of floor space being used.

- **Side Loading**

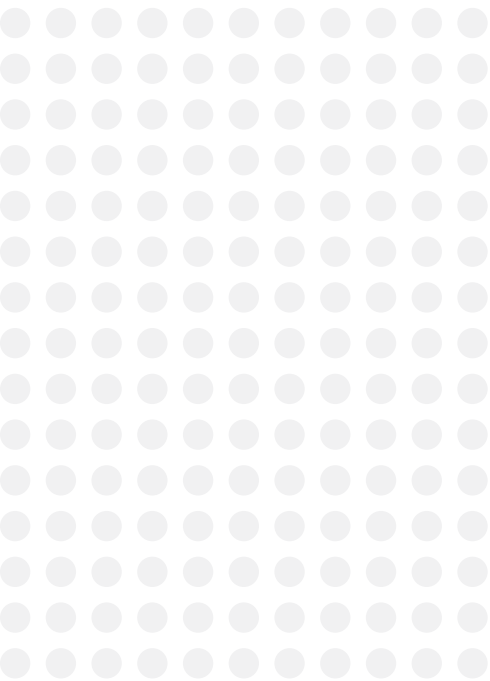
The storage capacity is 530 mm (20.8") deep. The inclination of the storage table can be adjusted. The SL 80s can be ordered with the storage table mounted on the front or the rear of the bar feeder.

- **Bar Diameter Adjustment**

By means of a handwheel, with an easy and quick central adjustment, the change-over time of different bar diameters is kept to a minimum.

- **Axial Shift Device**

The SL 80s is equipped with a axial shift device which allows for easy movement so the spindle liners of the main spindle can be changed efficiently. The moving device can be configured for Z or X axis movement of the SL 80s. (to be determined at installation)



- **Linear Feed & Servodrive**

The bar stock is loaded into the main spindle of the lathe by a linear feed mechanism with a toothed belt and servomotor. This allows for the feeding of the bar stock to a precise position without the use of a fixed bar stop.

- **Loading Of The Lathe**

The bar stock is loaded into the lathe spindle and is guided there. Spindle liners are necessary to accommodate different bar diameters. These liners should be changed every .080" of bar diameter variance.

- **Maximizing Length Of The Bars**

Bar stock with maximum lengths of 4' can be loaded. The maximum length depends on the spindle length of the lathe and chucking package.

- **Software**

Multifaceted software includes fixed piece feedout to correct length without a part stop. Includes a shaftloading option as well as a sub-spindle "feed-on-the-fly" option with a return and wait pusher feature.

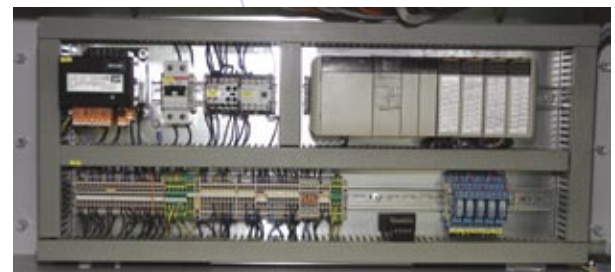
- **Control Panel**

Extensive options of control guarantee the interaction between the bar feeder and the lathe. All parameters are shown on the clear text display.



- **Control**

Omron SPS control. The numerous possibilities of the control guarantee a practical and economic use of the bar feeder.

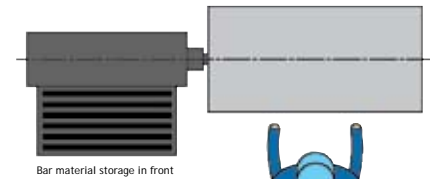


Technical Data

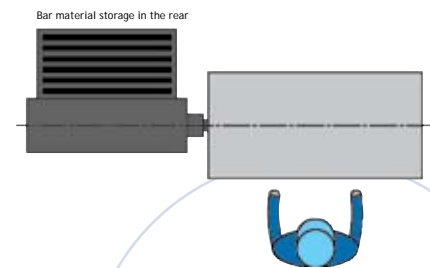
- **Power consumption**
1 KW
- **Operating voltage**
230 V/60 Hz (standard)
- **Feed force**
adjustable, max. 450 N
- **Forward feed rate**
adjustable, max. 500 mm/sec
- **Return feed rate**
700 mm/sec
- **Loading time**
20 sec
- **Weight**
1200 mm - 350 kg (770 lbs)
- **Maximum bar length**
1250 mm (4')
- **Bar diameters**
10 – 80 mm
- **Axial movement**
x axis = 660 mm
z axis = 350 mm
- **Compressed air supply**
80-90 psi
- **Compressed air consumption**
approx. 30 liters per bar change

Loading Options

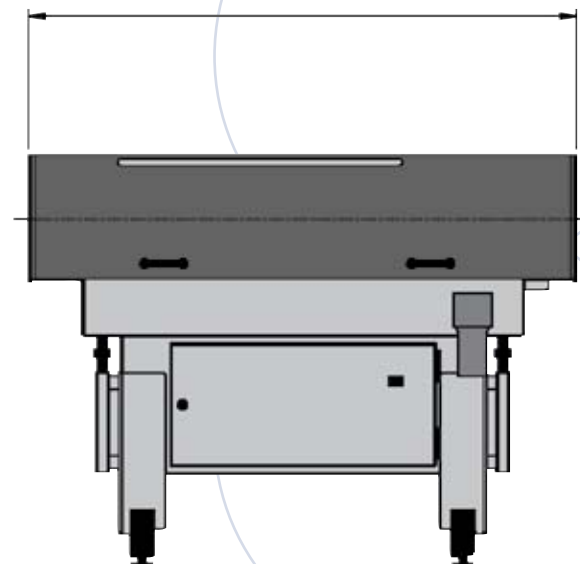
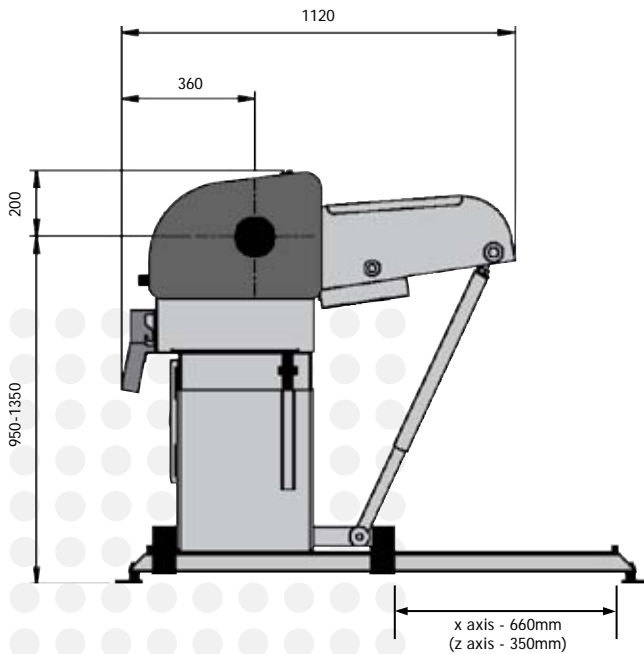
Type A - Feeding from left (Optional)
Possible Special Order



Type B - Feeding from left (Standard)



1656 (Bar length 1250 - 4')



As per 1/1/2006 - Technical data subject to change without notice

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