



Rebel 80 ○○○ *Servo V3*

The Rebel 80 Servo V3 is a compact bar loading system for CNC lathes. With a large magazine capacity allowing for long unattended operation, the Rebel combines the advantages of auto bar loading with a small footprint and an economical price.



Rebel 80 Servo V3

EDGE ○○○
TECHNOLOGIES

The Rebel 80 Servo V3 is an automatic Bar Loading Magazine for processing bars in the diameter range of 8 - 80mm and in lengths up to 1520mm (5') on CNC lathes.



Conversational Programming

- User friendly software delivers fast set-up on easier jobs and powerful advanced features for more sophisticated demands.
- **Sub-spindle mode** allowing you to “feed-on-the-fly” using your lathe’s sub-spindle.
- **Return & wait mode** which slashes 30% of bar change time from the load cycle by staging the next bar while the lathe is still cycling.
- **Fixed piece feedout** eliminates the need for a turret stop by allowing you to program a feedout value.
- **Multiple feedout mode** features up to 10 feedouts per part using any combination of the above functions.
- **(Optional) shaft loading** provides an efficient, off-the-shelf loading system for higher production shaft jobs.



Conversational Control Features State-of-the-Art Touch Screen and Menu Driven Programming

Control stores unlimited part programs.

Programmable Bar Diameter & Part Length

The operator simply enters the bar diameter and part length, the Rebel will automatically adjust the parameters for loading, feedout, and bar change.

Linear Feed & Servo Drive

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 bar stock to be fed into position without the use of a fixed bar stop.



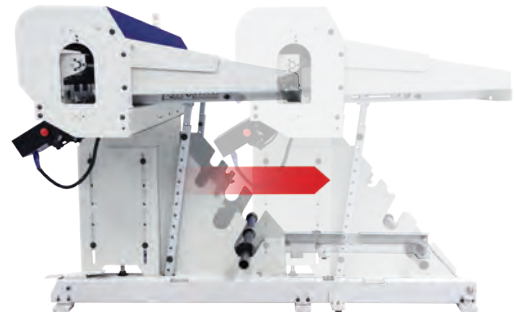
Remote Control Pendant

Using the control pendant, the operator can choose either forward or reverse pusher travel while the Rebel is in manual mode.



Axial Shift

The axial shift allows for spindle liner changes as well as maintenance access to the back of the lathe spindle. The Axial Track is standard in X or Z axis. Please specify axis style at the placement of the order.



Fold Away Axial Track

When not in use, the axial track folds up to eliminate tripping hazards when loading magazine.

- **All Electric Operation**

The Rebel 80 Servo V3 runs entirely on electricity, no shop air required.



- **Bar Stock Length**

Load bar stock lengths in a range of 6" to 60". Maximum bar stock length cannot exceed length of the headstock plus the chucking package.

- **Belt Drive**

Maintenance free, no adjustments required.



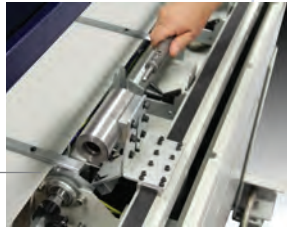
- **Quick Change Pusher**

Push plunger forward out of carrier, release pusher from front sleeve....



...the pusher lifts out. Quickly insert new pusher.

Process takes less than 10 seconds.



- **V-Tray Rollers**

Roller design reduces friction and noise. These rollers are very helpful for loading large diameter bar stock.

Optional 90° rollers available for loading profiled material.



- **Free Of Noise And Vibration**

The rotating stock does not come in contact with the Rebel 80 Servo V3, allowing high speed machining; especially in hex, square, or profiled stock.

- **Spindle Liner Access**

Spindle liners sized to bar stock diameter support the rotating bar allowing maximum RPM.

- **Spindle Liner Storage**

Includes storage for (3) Spindle Liners under magazine.

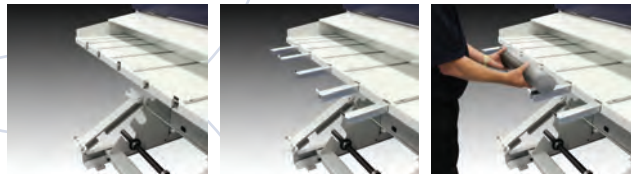


- **Extra Large Magazine**

Magazine storage capacity is 720mm (28").

- **Safety Load**

Magazine extensions used to load large diameter bars without a pinch point hazard.



- **Easy Load**

The magazine's incline is adjustable enabling the loader to "easy load" large diameter bars.



- **Easy Load Simulation**



Technical Data

- **Center Line Height**
950mm (38") - 1350mm (53.1")
- **Bar Diameter**
8mm (.315") - 80mm (3.15")
- **Bar Length**
152mm (6") - 1520mm (60")*
- **Rapid Return Rate**
1300mm/sec. (4'/sec.)
- **Bar Change Time**
Approx. 20 seconds
- **Operating Voltage**
Electric supply 230V (60Hz)
- **Bar Pushers**
10mm dia. Hardened steel
19mm dia. Hardened steel
- **Weight**
1100 lbs.

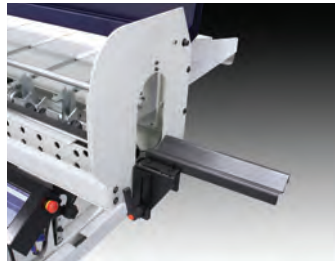
*The maximum bar length must not exceed the measured length from front of chuck jaw/collet to rear of headstock guard.

Options Available

- Z axial shift device
- Lathe spindle liners
- 6mm diameter bar pusher
- Magazine extension rack
- 90° Rollers
- Front load
- V-Tray

● **Optional V-Tray**

Used when gap between lathe sheet metal and spindle coolant collector exceeds 8 inches.



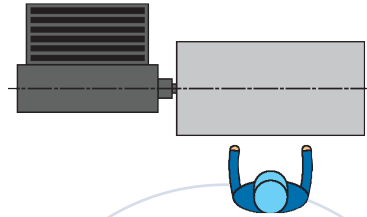
Specifications

Bar Size	8mm (.315") - 80mm (3.15")
Rack Capacity	720mm (28") deep
Bar Length	152mm (6") - 1520mm (60")*
X & Z Axial Track Travel	X Axis = 760mm Z Axis = 760mm

Configurations

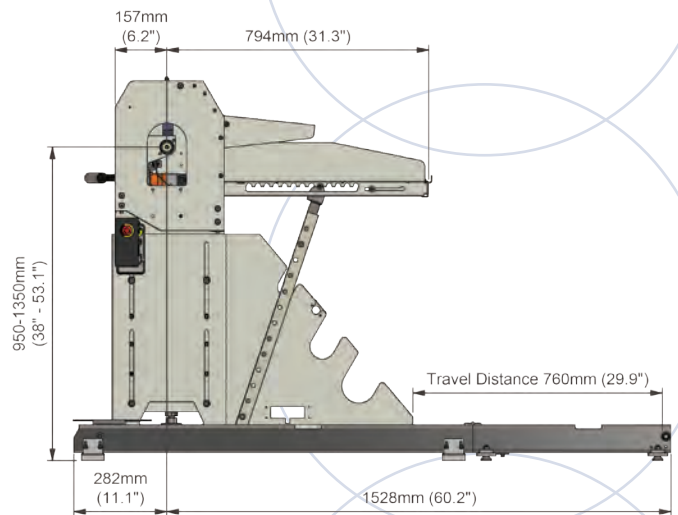
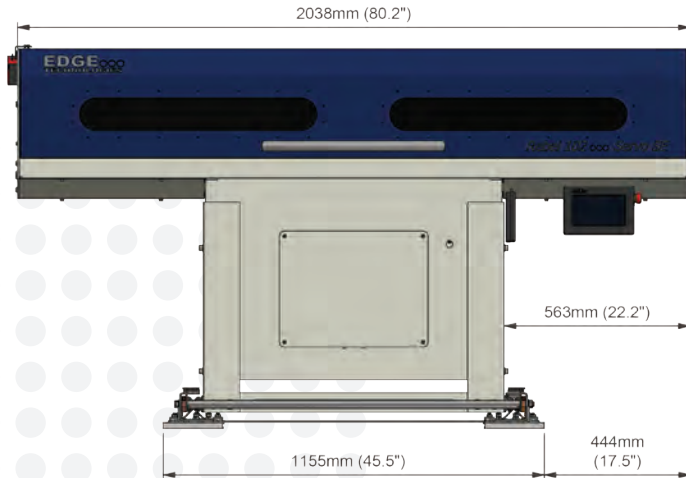
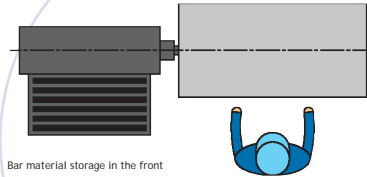
Rear Load (Standard)

Bar material storage in the rear



Front Load (Optional)

Bar material storage in the front



Technical data subject to change without notice

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