



## Rebel 80 Servo

The Rebel 80 Servo 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



The Rebel 80 Servo 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 stock stop by allowing you to program a feedout value.
- **(Optional) shaft loading** provides an efficient, off-the-shelf loading system for higher production shaft jobs.

- **Remote Control Axis Jog**

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



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

Control stores up to 300 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.

- **Feed Force**

Feed Force automatically set by the controller after the bar diameter is entered into the user-friendly touch screen control.



- **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 the feeding of the bar stock into position without the use of a fixed bar stop.



- **Free Of Noise And Vibration**

The rotating stock does not come in contact with the loading magazine 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.



- **All Electric Operation**

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



- **Spindle Liner Storage**

Includes storage for (3) Spindle Liners under magazine



- **Bar Stock Length**

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



- **Extra Large Magazine**

Magazine storage capacity is 760mm (30")

- **Soft Load**

The magazine incline is adjustable enabling the loader to "soft load" large diameter bars.



- **Axial Shift**

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



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## 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.

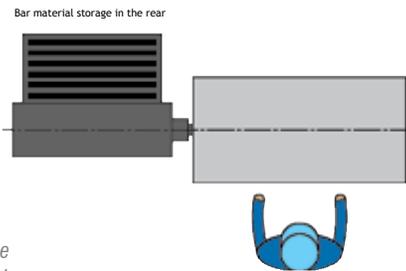
## Options Available

- Z axial shift device
- Lathe spindle liners
- 6mm diameter bar pusher kit
- Magazine extension rack

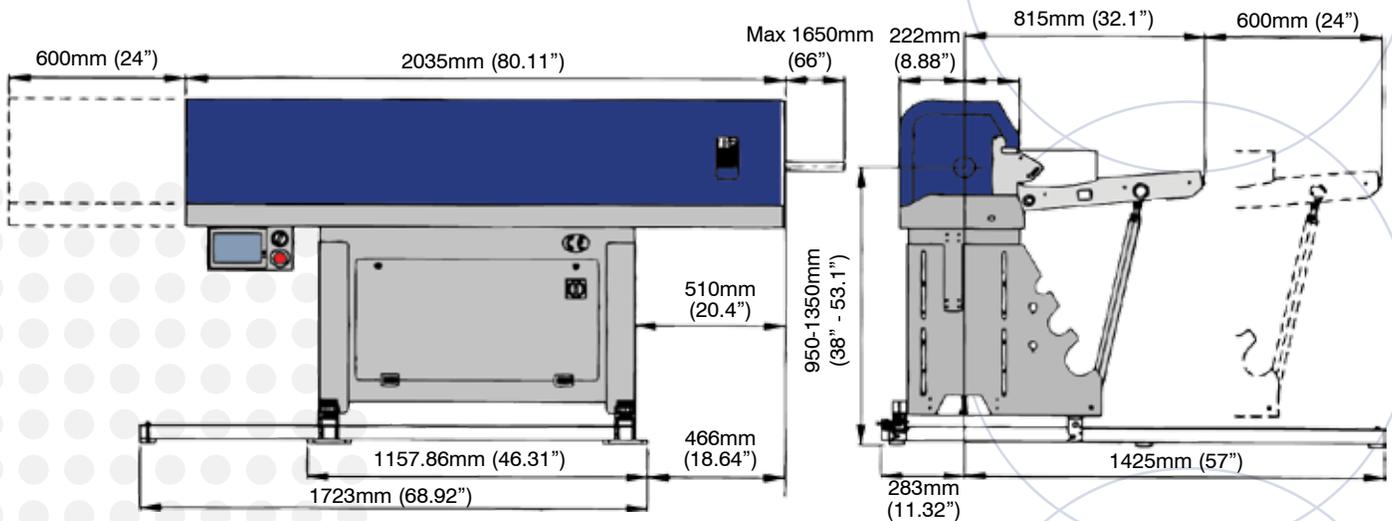
## Specifications

<b>Bar Size</b>	8mm (.315") - 80mm (3.15")
<b>Rack Capacity</b>	760mm (30") deep
<b>Bar Length</b>	152mm (6") - 1520mm (60")
<b>X &amp; Z Axial Track Travel</b>	X Axis = 680mm Z Axis = 680mm

## Configuration



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



Technical data subject to change without notice

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