



Rebel 80 Servo Unloader

The Rebel 80 Servo Unloader is a compact unloading system for CNC lathes for parts in the diameter range of 8 - 80mm. Parts are gently extracted from the sub-spindle of single-spindle lathes. With a large magazine capacity allowing for long unattended operation, the Rebel combines the advantages of auto part unloading with a small footprint and an economical price.



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The Rebel 80 Servo Unloader is an automatic Part Removal System for unloading parts in the diameter range of 8 - 80mm from the sub-spindle of single-spindle lathes.



Conversational Programming

- User friendly software delivers fast set-up on easier jobs and powerful advanced features for more sophisticated demands.
- Servo controlled positioning for unloading of parts
- Enter pickup and drop off value and the unit automatically adjusts



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 part diameter, part length, and pickup position and the Rebel will automatically adjust for part unloading.

Linear Feed & Servo Drive

Tooth belt and servo motor used for accurate positioning, smooth acceleration, deceleration, and unloading.



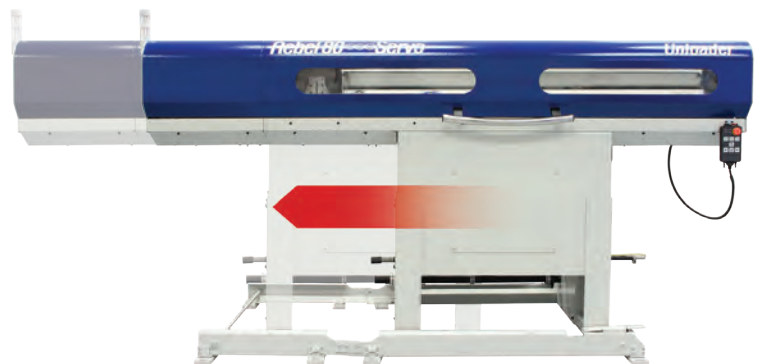
Remote Control Pendant

Using the control pendant, the operator can choose either forward or reverse extractor travel while the Rebel Unloader 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 Unloader runs on electricity, no shop air required. Air is offered as an option as some end effectors may require it depending on specific applications.



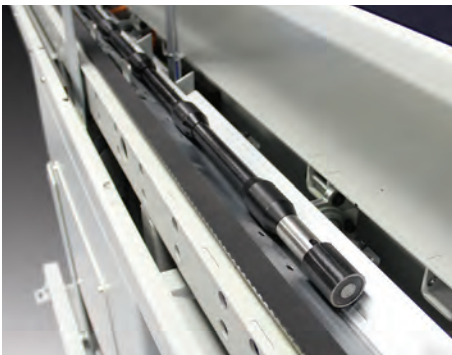
- **Belt Drive**

Maintenance free, no adjustments required.



- **Quick Change Extractor**

The Rebel 80 Servo Unloader offers several options; magnetic tips for steel parts, OD collets and ID gripper collets for aluminum and brass, and special engineered solutions for profiled stock and odd shaped stock.



- **Extraction V-Tray**

The V-tray is used to accommodate various lengths of parts.

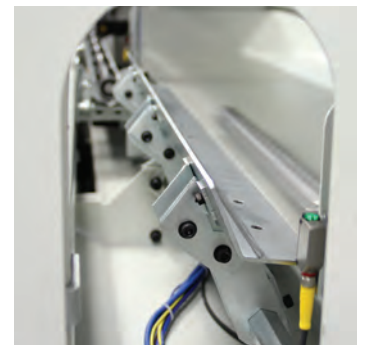
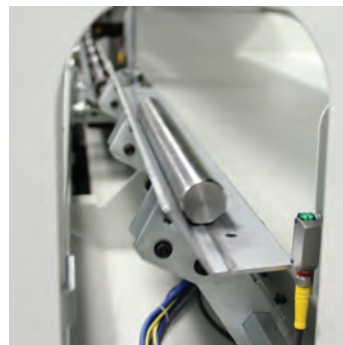
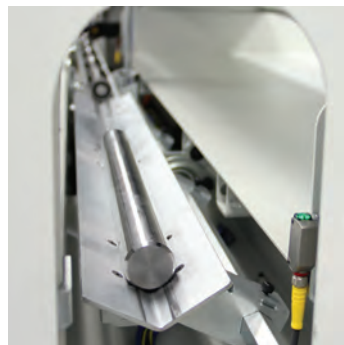
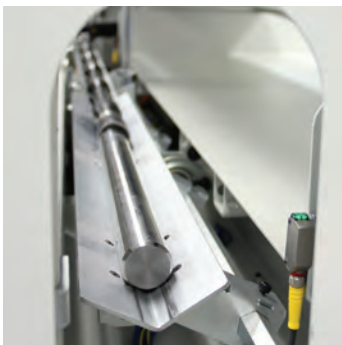
- **Easy Unload Simulation**

Magnetic Extractor retrieves part from sub-spindle.

The de-energized Extractor retracts from the front V-Tray.

The V-Tray slowly rotates down..

depositing the part softly onto the tray.



Effectors



Bar Collets



Electromagnet



Expansion ID Gripper



Feed Finger



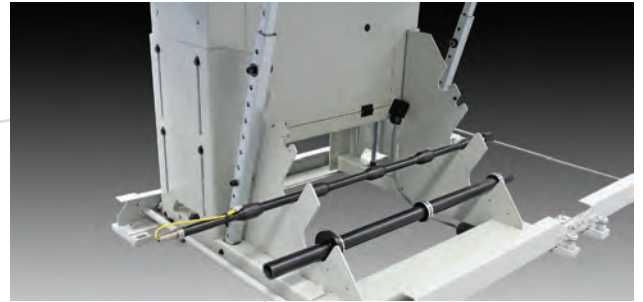
Angular Gripper



3-Point Gripper

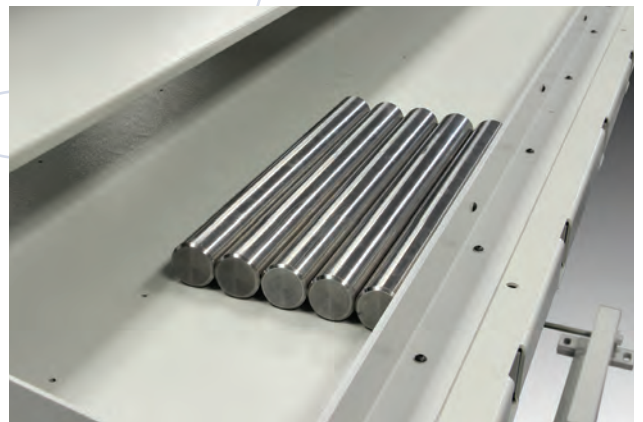
- **Spindle Liner Storage**

Includes storage for (3) Spindle Liners under magazine.



- **Extra Large Magazine**

Magazine storage capacity is 720mm (28").



- **Easy Unload**

The magazine's incline is adjustable enabling the unloader to "easy unload" large diameter parts.



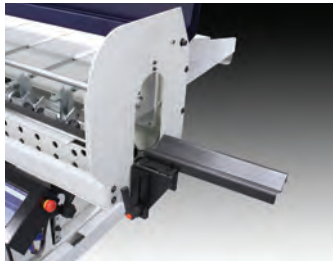
Technical Data

- **Center Line Height**
950mm (38") - 1350mm (53.1")
- **Bar Diameter**
8mm (.315") - 80mm (3.15")*
- **Bar Length**
152mm (6") - 915mm (36")*
- **Rapid Return Rate**
1300mm/sec. (4"/sec.)
- **Unload Time**
5-20 seconds
- **Operating Voltage**
Electric supply 230V (60Hz) - 3 Ph
- **Power Consumption**
1kW - (1.5kVA)
- **Extraction Rod**
One included
- **Weight**
1100 lbs.

*The maximum bar length must not exceed the measured length from front of chuck jaw/collet

Options Available

- Z axial shift device
- Lathe spindle liners
- 90° Rollers
- Rear Unload
- Load/Unload Option
- V-Tray Kit
- **Optional V-Tray**
Used when gap between lathe sheet metal and spindle coolant collector exceeds 8 inches.

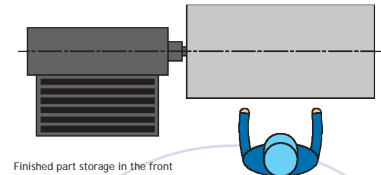


Specifications

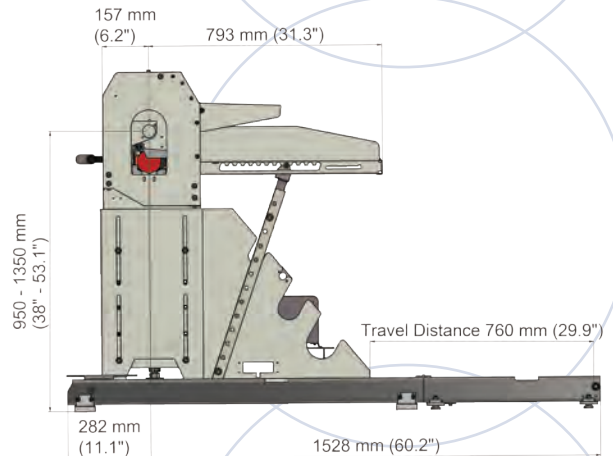
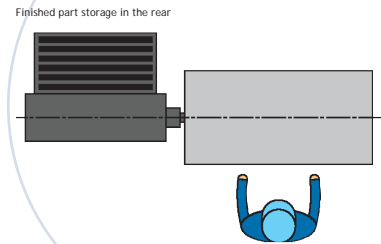
Bar Size	8mm (.315") - 80mm (3.15")
Rack Capacity	720mm (28") deep
Bar Length	152mm (6") - 915mm (36")*
X & Z Axial Track Travel	X Axis = 760mm Z Axis = 760mm
Chip Conveyor	Low Profile or Rear Required

Configurations

Front Unload (Standard)



Rear Unload (Optional)



Technical data subject to change without notice