



## Rebel 65mm Series

The Rebel V-65 Servo and Rebel Ecofeed are compact bar loading systems for CNC lathes. With a large magazine capacity allowing for long unattended operation, the Rebel 65mm Series combines the advantages of auto bar loading with a small footprint and an economical price.





The Rebel V-65 Servo and Rebel Ecofeed are automatic Bar Loading Magazines for processing bars in the diameter range of 5 to 65mm and in lengths up to 1520mm on CNC lathes.

## Quick and Easy Programming

User friendly software delivers fast set-up on easier jobs and powerful advanced features for more sophisticated demands.



## Audible Alarm

Triggered by E Stop or fault.



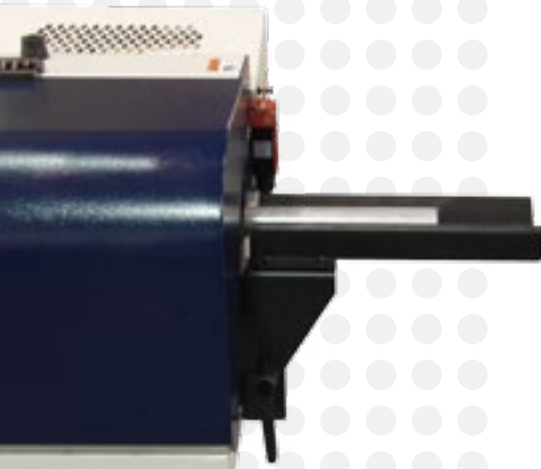
## Remote Control Pendant

Using the control pendant, the operator can choose either forward or reverse pusher travel while the Rebel 65mm series is in manual mode. Other manual movements include: forward and reverse of material, V Tray height, pre-feed material, semi-auto load.



## V Tray Extension

Optional - required on some lathes where coolant collector and sheet metal are not flush with back of lathe, V Tray bridges gap.



## Axial Shift

The axial shift allows for maintenance access to the back of the lathe spindle. The axial track is standard in X axis.



## Pusher Storage

Special rack holds 2 pushers while the 3rd is in use. 6,12 and 19mm pushers included.



## 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.

## Extra Large Magazine

Magazine storage capacity is 650mm (25")

## Bar Stock Lengths

Load bar stock lengths in a range of 48" (1.2 m version) or 60" (1.5m version). Maximum stock length cannot exceed length of the headstock plus the chucking package.

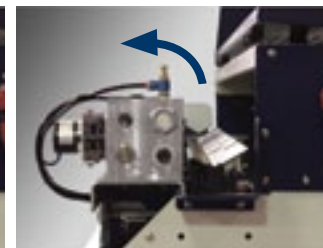
## Soft Load

The magazine incline is adjustable enabling the "soft load" for large diameter bars. Material is lowered onto urethane cushions in the V Tray to the proper center height.



## Bar Diameter Setup

Material is lifted up to centerline height. Manual diameter adjustment is indicated in Metric and English increments.



## Rebel Ecofeed Features

### Control

Easy Access Panel - Mitsubishi PLC



### Feed Force

Feed force set by air pressure gage for fine tuning.



### Encoder

Used in conjunction with pusher location for "end of bar" command, outputs position in control.



## Rebel V-65 Servo Features

### Control

Easy Access Panel - Mitsubishi PLC



### Feed Force

Parameters setting allows for feed force adjustment and bar diameter.

**Sub-spindle mode** allowing you to "feed-on-the-fly" using your lathe's sub-spindle.

**Fixed piece feedout** eliminates the need for a stock stop by allowing you to program a feedout value.

### Slug Load

Optional. Consult Edge Technologies Engineering for custom slug load applications.



### 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 servo motor. This allows for the feeding of the bar stock into position with or without the use of a fixed bar stop.



**(Optional) shaft loading** provides an efficient, off-the-shelf loading system for higher production shaft jobs.



### Adjustable Magazine

Angle adjustment for impact control depending on stock diameter/weight. Assists in ease of loading hex and shaped bars.



## Rebel Ecofeed Technical Data

- **Center Line Height**  
920mm (36.2") - 1300mm (51.1")
- **Bar Diameter**  
5mm (.196") - 65mm (2.56")
- **Rapid Return Rate**  
1300mm/sec.
- **Bar Change Time**  
Approx 20 sec.
- **Operating Voltage**  
230V-60Hz single phase
- **Air Supply**  
70-100 psi
- **(3) Bar Pushers**  
6,12,19mm
- **Weight**  
650 lbs.
- **Positioning Accuracy**  
Turret Stop Required

### Options:

- **Lathe Spindle Liners - Spindle liners sized to bar stock diameter support the rotating bar allowing maximum RPM.**
- **V-Tray Extension (required on some lathes)**
- **1.2M & 1.5M versions available**
- **Pneumatically feeds to a turret stop**

## Rebel V-65 Servo Technical Data

- **Center Line Height**  
920mm (36.2") - 1300mm (51.1")
- **Bar Diameter**  
5mm (.196") - 65mm (2.56")
- **Rapid Return Rate**  
1300mm/sec.
- **Bar Change Time**  
Approx 20 sec.
- **Operating Voltage**  
230V-60Hz single phase
- **Air Supply**  
70-100 psi
- **(3) Bar Pushers**  
6,12,19mm
- **Weight**  
550 lbs.
- **Positioning Accuracy**  
First Infeed +/- .020" +/- .100" in cycle

### Options:

- **Lathe Spindle Liners - Spindle liners sized to bar stock diameter support the rotating bar allowing maximum RPM.**
- **Special Applications Loading**
- **V-Tray Extension (required on some lathes)**
- **1.2M & 1.5M versions available**

## Specifications 2 Size Barfeeders Available

### 1.2 Meter (Bar Length)

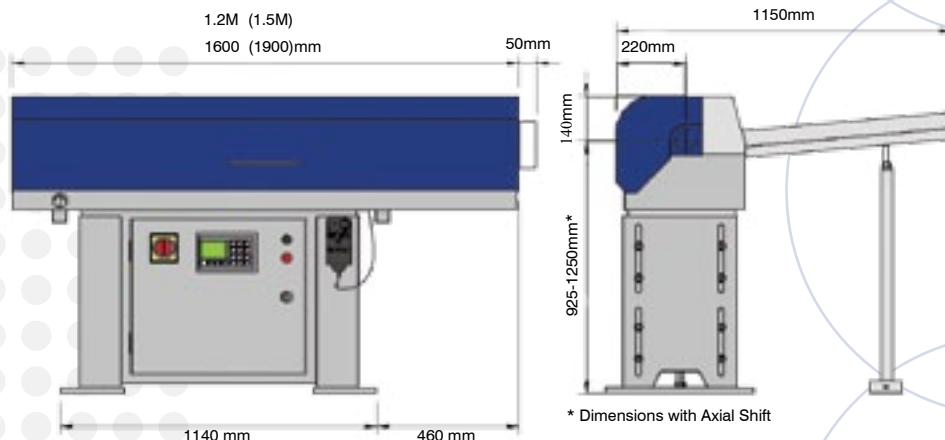
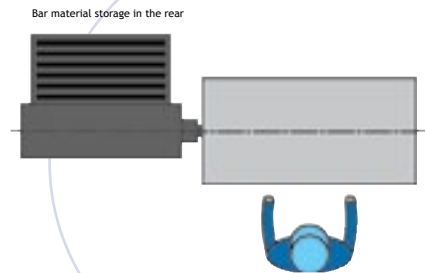
<b>Bar Size</b>	<b>5mm - 65mm</b>
<b>Rack Capacity</b>	<b>650mm</b>
<b>Bar Length *</b>	<b>48" Max</b>
<b>X-Axial Track Travel</b>	<b>X-Axis = 335mm</b>

### 1.5 Meter (Bar Length)

<b>Bar Size</b>	<b>5mm - 65mm</b>
<b>Rack Capacity</b>	<b>650mm</b>
<b>Bar Length *</b>	<b>60" Max</b>
<b>X-Axial Track Travel</b>	<b>X-Axis = 335mm</b>

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

## Configuration



Technical data subject to change without notice

**EDGE TECHNOLOGIES**

11600 ADIE ROAD MARYLAND HEIGHTS, MO 63043

314.692.8388 ● f 314.692.5152 ● www.edgetechnologies.com