



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.



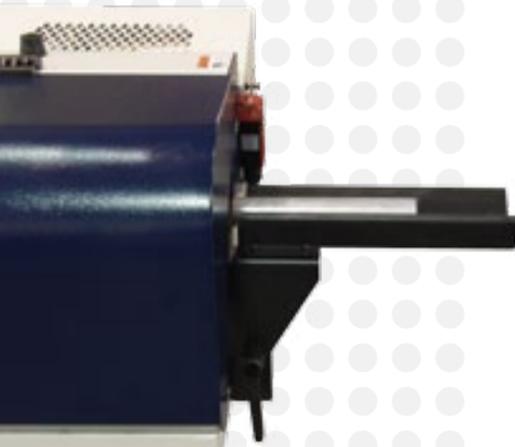
Remote Control Pendant

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.

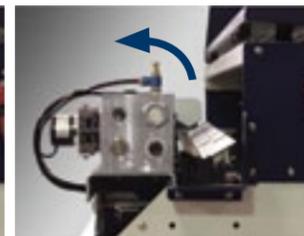
Soft Load

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)

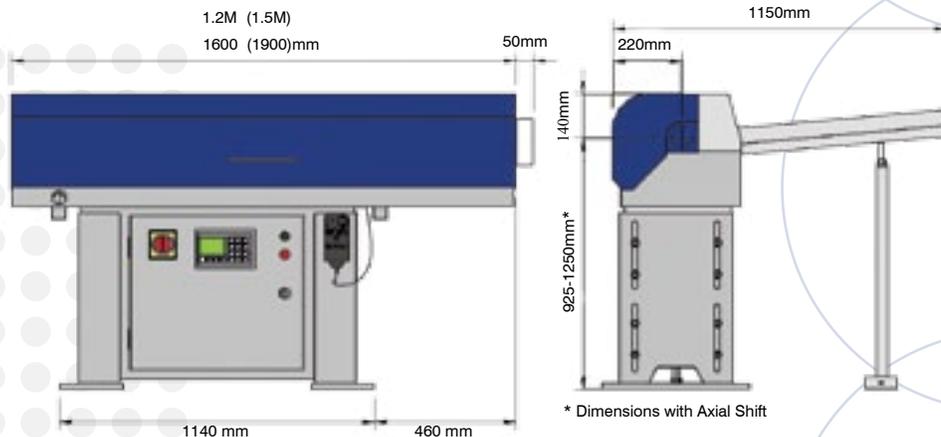
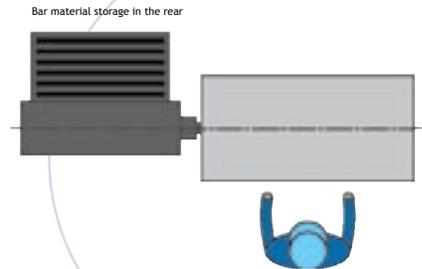
Bar Size	5mm - 65mm
Rack Capacity	650mm
Bar Length *	48" Max
X-Axial Track Travel	X-Axis = 335mm

1.5 Meter (Bar Length)

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

*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

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