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Edge Technologies Introduces Rebel V-65 Servo Short Bar Loader For The CNC Lathe Automation Marketplace

ST. LOUIS, MO – The new Rebel V-65 Servo is a compact, economically priced short bar loader that features an 5-65mm diameter capacity range for feeding spindle length round, square, hexagonal and shaped bar stock into CNC lathes. With a large magazine capacity allowing for long unattended operation, the Rebel V-65 Servo combines the advantages of auto bar loading with a small footprint and an affordable price tag. While processing the bar there is no contact between the bar stock and the loading magazine, so high speed machining is possible with the use of a properly sized lathe spindle liner.

The loading storage capacity is 650 mm (25.6") deep. Bars are loaded from the rear of the bar feeder. The inclination of the storage table can be adjusted to give the V-65 Servo a "soft-load" effect. The bars are then lowered gently into the feeding channel by urethane guides, eliminating the potential for marring of the surface of the bars. Bar stock with lengths up to 1200mm (48") can be loaded by the V-65 Servo. The maximum bar length is determined by the spindle length of the lathe and the chucking package. The bar stock is loaded into the main spindle of the lathe by a linear feed mechanism with a servo and encoder. This allows for the feeding of the bar stock into position with the use of a fixed bar stop or accurate position. A quick and accurate adjustment mechanism sets the correct height for the lathe's centerline according to the bar's diameter for precise loading into the spindle liner. The V-65 Servo comes equipped with 3 pusher rods to cover the full range of diameters.

The Rebel V-65 Servo features a Mitsubishi PLC controller and a push button screen interface with a LCD display. Feed force is automatically set by the controller after the bar diameter is entered into the conversational touch screen control. The user-friendly multi-line display and operation station includes all needed information to allow rapid setting and productive operation of the loading process. The operator enters the bar diameter and part length, the Rebel V-65 Servo automatically adjusts the parameters for loading, feedout, and bar change. It also includes a shaft loading option as well as a sub-spindle "feed-on-the-fly" option with a "return and wait" pusher feature. The Rebel V-65 Servo can store up to 20 standard setup parameters. The remote control pendant provides control and adjustment capabilities from the lathe area.

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Spindle liner changeover is accomplished very quickly by the open architecture design of the top cover and an Axial Track mechanism configured for X axis movement allows for maintenance access to the back of the lathe spindle.

Edge Technologies is a leading productivity solutions provider to the precision metal working industry. Edge Technologies has extensive experience and a history of success and innovation demonstrated by over 23 years providing bar feeder and lathe automation solutions, including over 7000 successful installations of magazine bar feeders in the North American marketplace. For more information visit: www.edgetechnologies.com

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(caption) Edge Technologies introduces the Rebel V-65 Servo, a economically priced short bar loader that features an 5-65mm diameter capacity range for automatically feeding spindle length round, square, hexagonal and shaped bar stock into CNC lathes. The space-saving V-65 Servo comes standard with a Mitsubishi PLC controller, a touch screen interface and hand-held pendant.