



QUICK LOAD SERVO 80 S2 BARFEED

SHORT AUTOMATIC BAR FEEDER FOR
SPINDLE LENGTH BARS FOR FIXED OR
TRAVELING HEADSTOCK TURNING
MACHINES

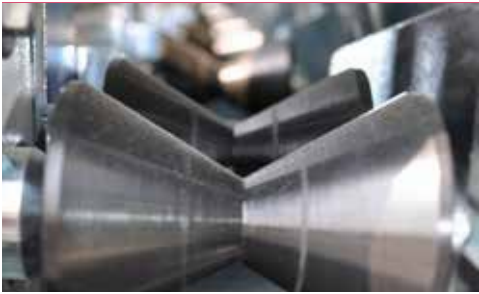
Diameter range: 1/4" to 3 - 1/8"
(6 mm to 80 mm)

Overall barstock length: 14" to 63"*

*Not to exceed overall length of spindle



YOUR "ONE-STOP-SHOP"
FOR MACHINE-TOOL PERIPHERALS



Simplicity For Efficiency

The Quick Load Servo 80 S2 is designed for automatic loading of spindle length bars up to 63" and 3-1/8" in diameter without exceeding the spindle length. Using the proven concept of the Quick Load Servo 80, the Quick Load Servo 80 S2 is fully electric and does not require shop air. It is equipped with an automatic diameter changing system with linear motors and LNS servo motor technology. Centerline and bar loading fingers adjust automatically as the new bar diameter is entered in the prompting remote HMI. No manual adjustment is required reducing changeover time to a minimum.



Increasing Your Productivity With Quick Production Setup Changeovers, The Fastest In The Industry

Difficult and time consuming diameter changeovers can slow your production down. Simplified and quick diameter changeovers can keep your production running efficiently and allow you to meet customer demands.

Start-up and diameter changing can be performed in record time thanks to the intuitive controls. The Quick Load Servo 80 S2 automatically makes all changeover adjustments by answering three simple questions when prompted by the remote control:

1. Shape?
2. Diameter?
3. Part Length?

Within the pusher diameter your changeover is complete in seconds. The Quick Load Servo 80 S2 takes the information and automatically makes these adjustments:

- Bar to centerline of the lathe
- Magazine storage bar selection mechanism to bar diameter ensuring one bar is loaded at a time
- Feed and torque rates



All Electric Operation

Modern manufacturing facilities require the most reliable equipment designs for maximum uptime.

The Quick Load Servo 80 S2 uses a linear motor for the table elevating precisely the bar stock to the centerline of the lathe. The pusher is controlled by a servo drive for accurate positioning and optimum loading speed. Only field proven and readily available components are used to increase reliability over a long life time.



Faultless Unattended Operation

Downtime can be costly. You need to rely on your machines to produce the highest quality parts keeping you at maximum productivity through all shifts, even unattended operation.

The LNS servo motor control technology provides the Quick Load Servo 80 S2 with a precision of bar positioning which is unrivalled on the market. It guarantees accurate bar feedout control with or without turret help and prevents from hitting the turret with its soft touch positioning.



Space Saving Design

Large, over-sized machines consume valuable floor space. A machine occupying less floor space creates minimal footprints and increases production.

The Quick Load Servo 80 S2 requires minimum floor space allowing the operators to maneuver around the machine and bar feeder in ease.



No-Mess, No-Hassle Changeovers

Facility cleanliness can boost production morale and keep your production running smoothly free from debris.

The machine has a loading ramp with adjustable inclination, which also acts as an on board storage for arranging the spindle liners and pushers.

Standard Z or X axis retraction system can be chosen at time of installation and allows E-Z spindle liner changes and machine access.



Increasing Production Efficiency Through Innovation

Any amount of time saved during production increases efficiency resulting in a better ROI.

The Quick Load Servo 80 S2 has surpassed industry technology by incorporating a "Parts Library", which is a 500 parts storage feature. The "Parts Library" allows the user to store specific parameter configurations that are unique to a machining program.

Simply enter part parameters:

- Stock Shape
- Stock Diameter
- Part Length
- Any additional parameter information...

The part parameters are entered ONE time into the "Parts Library". After all the parameters have been entered, the configuration is saved as a unique number that will be associated to a specific machining program.

Whether you need to run the job now or at a later time, simply selecting the desired part number from the "Parts Library" will instantly restore the appropriate data.

The "Parts Library" is a standard benefit and can be used with a Standard or Ethernet interface.





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TECHNICAL SPECIFICATIONS

Capacity

| | | |
|-------------------------|-----|---|
| Diameter | mm | 6 - 80 |
| Bar Length (14" to 63") | mm | 300 - 1600 not to exceed overall length of spindle |
| Loading System | | Side Load Rack |
| Loading Capacity | mm | 650 |
| Loading | | Front / Rear |
| Shipping Weight | lbs | 1,150 |

Applications

| | | |
|------------------------|----|-------------------|
| Type of Headstock | | Fixed / Traveling |
| X or Z Axis Retraction | mm | 600 |

Changeovers

| | | |
|---------------------|-----|------------|
| Partial changeover | sec | 15 or less |
| Complete changeover | min | 1 or less |

Driving Systems and Bar Support

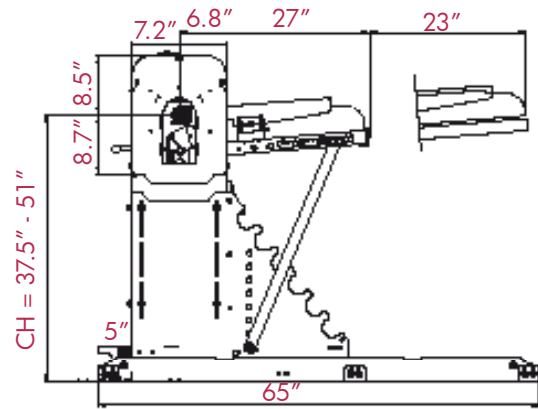
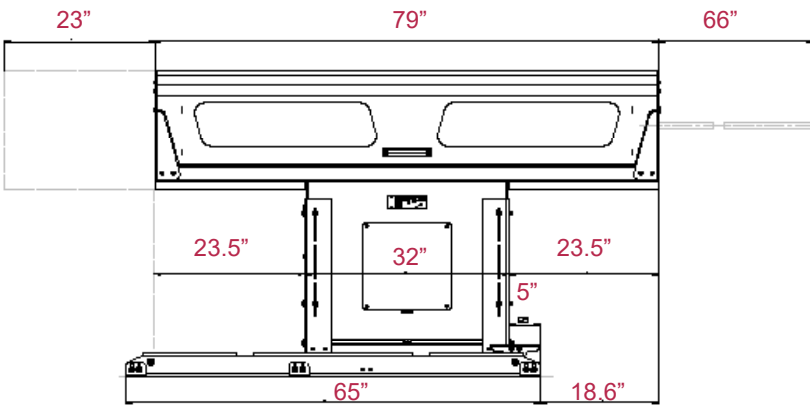
| | | |
|-------|--|--------------|
| Motor | | Servo |
| Drive | | Notched Belt |

Other

| | | |
|---------------|--|---------------------------|
| Parts Library | | 500 Parts Program Storage |
|---------------|--|---------------------------|

Barstock Straightness Specifications and Performance

For optimum rotational performance speeds, bar stock straightness needs to be .020" per 3.25 feet, non accumulative. Bar stock out of this tolerance will not run at optimum RPM. Other factors such as material type (brass, copper, bronze and other malleable materials), clamping efficiency of the machine workholding, alignment of the bar feed, oil type, bar preparation and spindle liners will affect optimum RPM capability of the system.



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LNS provides a full range of barfeeders, chip conveyors, coolant management systems, air filtration systems, and workholding systems that is second to none on the market. We are known in the industry for the solid experience we have gained over several decades in an exceptionally wide range of applications, our excellent customer service, and our technical support. This support is ensured by highly qualified technicians who are available throughout North America.



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Facilities covered by this mark have been evaluated to international quality assurance standards by UL DQS Inc.