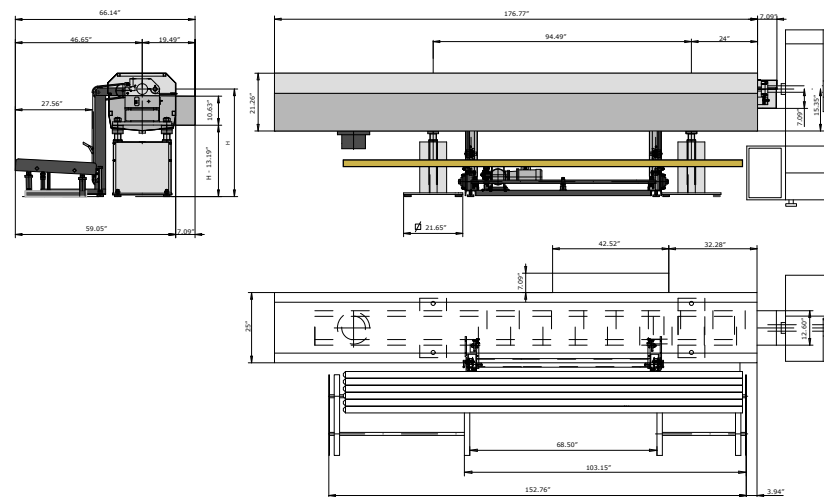


**Features and Benefits**

- Bar Length – bar measuring device, in conjunction with the encoder, accurately feeds random length bar stock into lathes for first part machining (minimum 7’ bar stock, maximum 12’ bar stock)
- Reduced Load Cycle Time – the bar feed will pre-load the next bar as the last piece is being machined, minimizing bar loading time.
- Bearing Elements – each set of bearing elements and pusher assembly has a range of +.000 - .157”
- Hydraulic System – integrated hydraulic system with 22 gallon capacity, including pump motor, removable oil filter, adjustable flow and constant pressure of 35 PSI (ISO 100)
- Patented self-opening hydrostatic support pressurized hydrostatic oil film supports the rotating bar and permits maximum spindle speeds\*
- Rugged compact design withstands the abuse of large bar stock turning at high RPM prompting remote control, menu driven, guides you through setup, 15 seconds diameter change.
- 10 minutes for complete changeover fast and easy, includes quick change bearing elements and pusher, bearing elements handle a full .157” diameter range.
- Servo drive with absolute encoder provides full flexibility for bar feeding.
- Automatic torque and speed adjustment by easy programming of diameter and part length.
- Vertical elevating magazine rack below the center axis of the lathe permits safe large diameter bar stock loading.
- Horizontal floor mounted storage provides additional 27” wide storage capacity, allows the system to run unattended for longer periods of time.
- Front or rear load for optimum utilization of floor space when loading magazine tray.
- Hydrostatic front stabilizer, permits increased RPM, enhance productivity and surface finish, extended tool life.
- Air Blast System prevents excess oil on the bar stock from leaving bar feed and entering lathe.
- Outboard Bearing Support – provides additional bar support for machines with recessed spindles.
- Shipping Weight: 3,800 lbs.

**Technical Specifications**

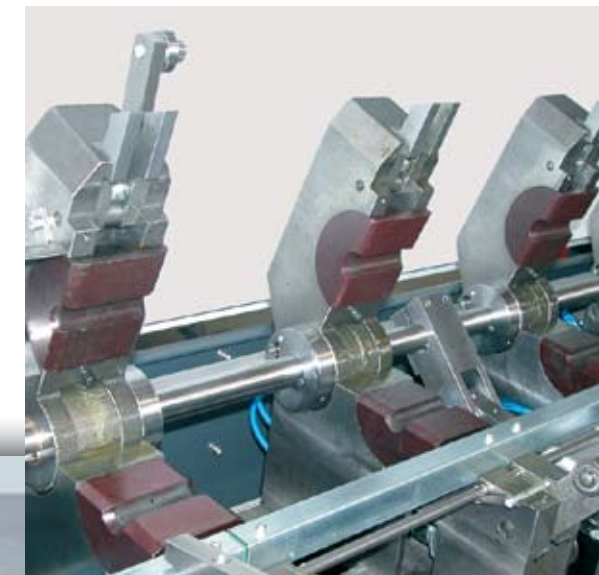
Bar Diameter:	1/2” - 3-1/8”
Bar Length:	Maximum bar length 12’ 6” on 12’ models, available in 3 meter and 4 meter version
Loading System:	Chain Elevator
27-1/2” Large Capacity Magazine	
Weight:	3,800 lbs.
Front or Rear Load Available	



# Hydrobar Sprint S3

Automatic Magazine Bar Loader for 12’ Bar Stock  
Used with Fixed Headstock Lathes

**Hydrostatic high speed magazine barfeed for bar stock diameter from 1/2” to 3-1/8” (12.7 mm to 80 mm)**



LNS America is your one-stop resource for industry leading bar feeding equipment and accessories, chip conveyors, coolant management systems and automatic work support (steady rest) systems. So you get unmatched product range, applications experience, service and support.

The LNS America customer service and technical support teams are the industry’s most experienced. Together, they provide expert product selection and application assistance, professional installation and comprehensive training.

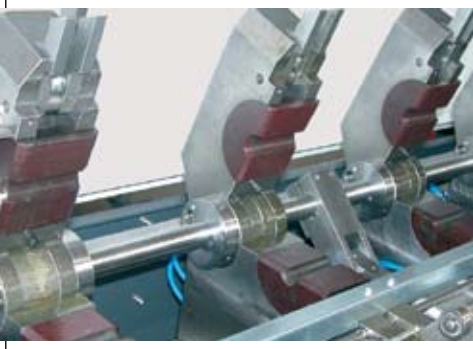


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We support every product we sell with replacement parts, field and factory service by trained technicians strategically placed throughout the North America market. We are able to provide parts and service for LNS bar feeds that have been in service for over twenty years because we design and manufacture all of our bar feeds, chip conveyors and coolant management systems.

Specifications subject to change without notice.  
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Member of the LNS Group



LNS America has set the industry standard in bar feed systems. The Hydrobar Sprint S3 is incredibly efficient and undoubtedly reliable. Designed to safely handle a complete range of sizes, high speed operation, greater workpiece accuracy, shorter machining times, quiet, vibration-free performance, unattended operation, superior surface finish, longer tool life and lower running costs. The Hydrobar Sprint S3 features a patented self-opening bearing block design, permitting you to run round bar stock at your lathe's maximum spindle speed and it guarantees the best bar support in the industry. Hexagonal and square bar stock can also be accommodated.

**Maximizing Your Spindle Speed For Efficiency**

Unsupported bar stock turning at high RPMs produces poor output and over a period of time can cause damage to your barfeed and lathe.



**Designed to Run at High RPMs**

When running at high RPMs, the design of a barfeed contributes greatly to the life of a lathe, surface finish and tool life.



The Hydrobar Sprint S3 features a patented hydrostatic self-opening bearing block design, permitting you to run round bar stock at your lathe's maximum spindle speed and it guarantees the best bar support in the industry. The Hydrobar Sprint S3 hydrostatic bearing element design is capable of continuous operation at maximum RPM's\*.

Its high speed capability also permits full implementation of constant surface speed cutting operations up to 3000 SFM. Pressurized oil penetrates the bearing elements, allowing high speed bar stock rotation.

Ruggedly built to ensure long life, the servo driven automatic magazine bar loader requires minimum maintenance and will give you longer tool life.

The bearing support system is a heavy duty cast iron design that provides continuous, quiet, vibration-free operation without fail. The rugged design includes features that withstand the abuse of large bar stock turning at high RPM. These features make the Hydrobar Sprint S3 reliable, easy-to-use and ensure long life for both the bar feed and your lathe.

**Extended Run Time Keeps Your Production Running Efficiently**

Continuously loading bar stock to keep your production running can become inefficient. Production time is lost and long run times can result in profit lost.



**Intelligent, User Friendly Remote Control For Fast Changeovers**

The latest PLC generation offered with the Hydrobar Sprint S3 is user friendly and production efficient. The ultra light, ergonomic remote control provides clear, concise instructions, text messages and unmatched ease of operation. The remote can be unplugged from the cable for ease of servicing.

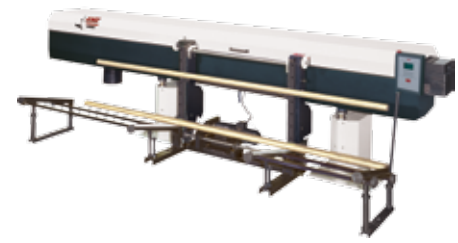
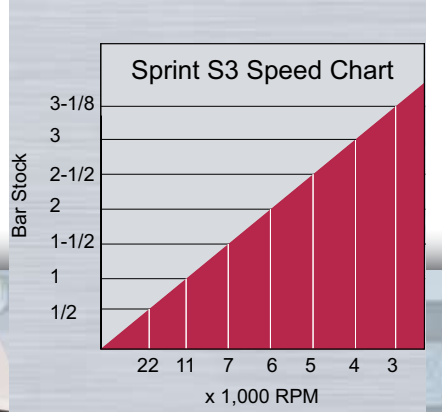


The combination of high speed operation and automatic loading makes the Hydrobar Sprint S3 the ideal bar feed for integration into automated production cells and systems. It meets the high material usage needs of continuous turning operations and unmanned machining operations.

The Hydrobar Sprint S3 is equipped with a large capacity stock magazine providing uninterrupted operation of CNC lathes on average lot runs and extended runs of any length workpiece.

The large capacity (27-1/2") stock magazine is situated alongside the bar feed system and below the center axis of the machine. Barstock automatically loads from the magazine to a chain loading device which lifts bar stock to the barfeed and advance the bar stock into position.

Maximum speed is based on round steel bar straight within .020"/3 ft. with diameter clearance of .020" rotational clearance between bearing elements and bar stock. For relative speeds using other materials, contact manufacturer.



**\*Barstock Straightness Specifications**

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