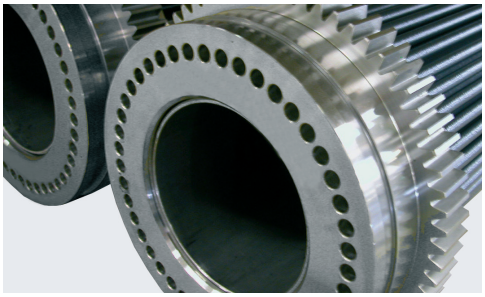
TRYTON 112+ BARFEED

AUTOMATIC MAGAZINE BAR FEEDER FOR SLIDING HEADSTOCK LATHES

Diameter range: .039" to .500" (1 mm - 12.7 mm)
Bar length: 12'2" (other lengths available)

PERIPHERAL VISION
For CNC machine tool peripherals, it's *LNS*, then all the rest



Fast, Efficient, User-Friendly Operation

The Tryton 112+ is the industry standard bar feeder for small-diameter bars. The completely enclosed guide tubes ensure vibration-free operation due to its rigid, compact construction and unique hydraulic feed and guiding system. Self-contained and reliable, the enclosed guide tubes guarantee maximum RPMs (.500" at 12,000 RPMs) and prevents erratic loading of barstock.

Whatever your application, Tryton 112+ is the superior bar feeder system to enable increased efficiency and reliable production for all types of sliding headstock CNC lathes. Users can choose between different types of barrels and options to optimize production.

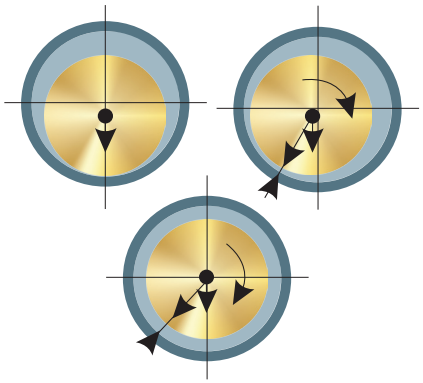
When loading material, inserting barstock into the back or front of the bar feeder's guide tubes eliminates problems with bent bar jams that commonly occur in gravity-loaded magazine bar feeder systems.

Increasing Your Productivity With Quick Production Setup Changeovers

Start-up and diameter changing can be performed in record time. The user friendly, ultra-light touch screen HMI with prompting menu screens ensures the interaction between the bar feeder and the lathe, and therefore the production process can be run safely and efficiently.

Valuable features of the HMI include:

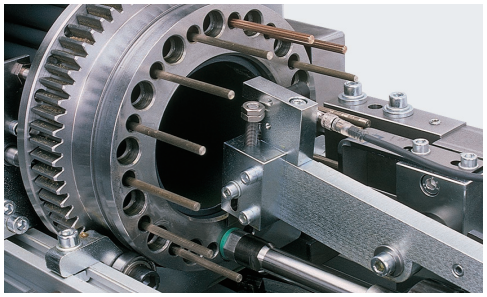
- Displays alarm descriptions
- Alarm history of operation errors and position tracking (inch/metric programming)
- Enhanced serviceability through the QR code technology that instantly lists diagnostic data and automatically populates an email to be sent to an LNS Customer Service Representative
- Enables monitoring of interface signals via a diagnostic timing chart
- Makes troubleshooting faster and easier by using diagnostics to access codes that quickly identify inconsistencies



Hydrodynamic Effect

If the spindle speed is zero, the hydrodynamic support is zero and the bar rests on the feed tube. The revolving bar produces increased oil pressure and the bar is lifted from the bottom of the feed tube. With increasing speed, they hydrodynamic force increases and the bar revolves centrally, ensuring a smooth feed. The hydrodynamic effect created inside the enclosed tubes gives you vibration-free operation for round or profiled bars.

Maximum RMPs of the Tryton 112+ ensure peak productivity. Speeds may vary depending on application and type of barstock.



Combo Barrel Option and Pusher System

With the "Combo Barrel" you'll achieve superior performance that covers the total range from .039" to .500". Its reserve of 14 bars allows hours of uninterrupted, high-performance operation.

The patented hydraulic feeding system supplies constant oil pressure to the tube and the adjustable hydraulic flow and pressure regulator ensures a synchronized headstock feed rate.

The Tryton 112+ is ideal for feeding square bars and delicate, small diameter bar stock such as gold and silver.

Swing Out System

A standard swing out system allows easy front loading and allow convenient access to the machine's spindle. Swings smoothly left or right for easy access. The barrel assembly is securely supported in swing out position.

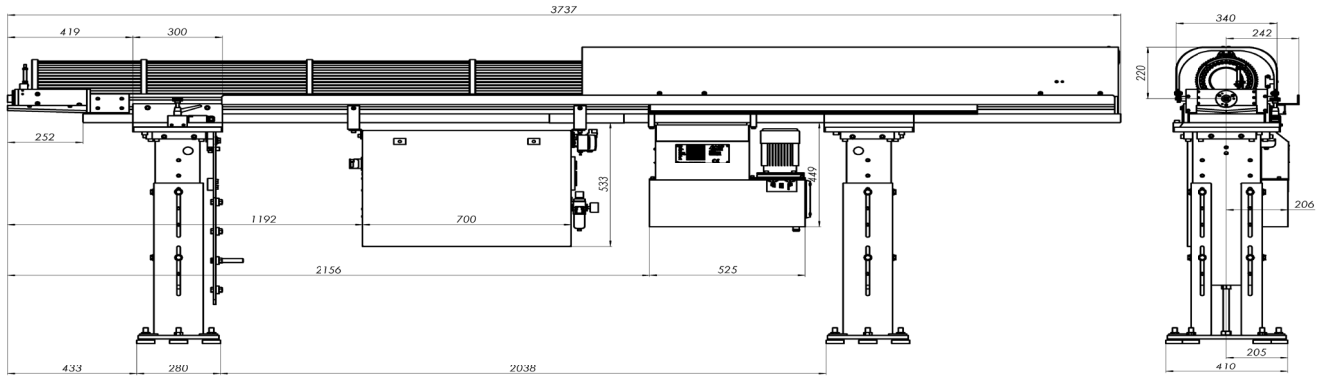
Specifications subject to change without notice

TRYTON+ BARFEED
TECHNICAL SPECIFICATIONS

Capacity		
Diameter	mm	1 - 12.7 (34 max. with bar prep)
Bar Length	mm	2100 mm / 3200 mm / 3710 mm / 4200 mm
Loading System	mm	Barrel
Loading Capacity	bars	45 (Ø 1-5), 36 (Ø 1-7), 24 (Ø 3-10), 24 (Ø 4-12.7)
Loading Side		Front / Rear
Shipping Weight	lbs	2,050
Applications		
Type of Headstock		Sliding
Remnant Length	mm	Max. 230
Synchronization		Pressure valve
Controls		Hand Held, Touch Screen with Parts Library (500 Parts
Changeovers		
Partial changeover	min	2 within the guide tube range
Complete changeover	min	5-10 with combo barrel
Driving Systems and Bar Support		
Guiding		Hydrodynamic / tube
Drive		Hydraulic pressure
ISO 100 oil	liters	25

Available Capacities of Standard Barrels		
Number of Guide Tubes	Barstock Dia. Range with Preparation	Bar Stock dia. Range Without Preparation
45 (6.4mm I.D.)	.039" through .197"	.039" through .157"
36 (8mm I.D.)	.039" through .276"	.039" through .236"
24 (11mm I.D.)	.117" through .393"	.117" through .314"
24 (14mm I.D.)	.157" through .500"	.157" through .393"
Available Capacities of "Combo" Barrels		
Number of Guide Tubes	Barstock Dia. Range with Preparation	Bar Stock Dia. Without Preparation
(14 tubes: 6.4mm I.D.) (14 tubes: 11mm I.D.)	.039" through .197" .117" through .393"	.039" through .157" .117" through .314"
(14 tubes: 8mm I.D.) (14 tubes: 14mm I.D.)	.039" through .276" .157" through .500"	.039" through .236" .157" through .393"

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.



PERIPHERAL VISION

Peripherals, by definition, are an outer boundary. But at LNS, that boundary is where we put our focus. Because here's the secret—with LNS peripherals on your side, you can turn your attention to what you do best—making chips and making money.

That's why we do what we do. Five product categories and industry-best expertise means no company on earth can match the passion and vision we have for machine tool peripherals.

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