



## TRYTON 112

AUTOMATIC BARFEEDER FOR FIXED  
AND SLIDING HEADSTOCK LATHES

Diameter range: 1 – 12.7 mm



Image: Tryton 112 CNC



YOUR ONE-STOP-SHOP  
FOR MACHINE-TOOL PERIPHERALS

## TRYTON 112



### MARKET STANDARD

After more than 40 years, the Tryton remains the market standard for small diameter bars. Its special guidance system gives it unequalled performance. The completely closed guide tubes ensure extremely high rotational speeds and allow for guidance without the bars vibrating. The Tryton product range can equip fixed and sliding headstock lathes, CNC or Cam machines with up to a 12.7 mm diameter capacity. According to the application, the user can choose between different types of barrel and options thus optimizing production.

### THE ADVANTAGES

#### SYNCHRONIZATION

The synchronization of movements between the bar and the lathe headstock is vital for preventing the bar from buckling and thus guarantee maximum productivity.

The Tryton has an advanced hydraulic system regulated by a pressure valve in order to achieve and optimise this synchronization.

This process ensures that optimum performance is always guaranteed whatever the type of material machined.

The system carefully monitors itself so that the remnants are extracted properly and ensures that the next bar is loaded correctly.

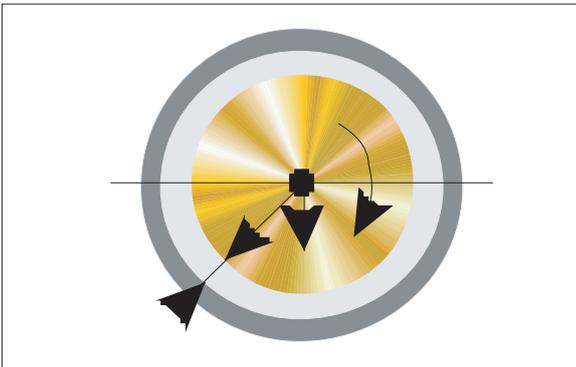
#### HYDRODYNAMIC EFFECT

The rotation of round and profiled bars up to the highest speeds without vibration is possible thanks to the original HYDROBAR® technology used on the Tryton.

Pressurized oil makes the bar advance into the lathe spindle and creates the hydrodynamic effect when the rotation starts.

#### BARREL

The barrel of the Tryton, the central element in the guiding of bars, guarantees robustness and total reliability of the production process.



### EASE OF USE

#### BAR LOADING

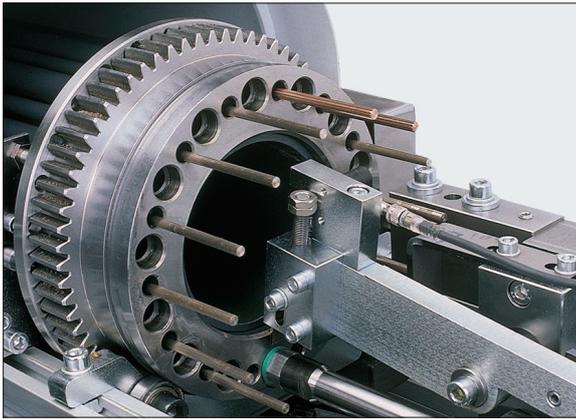
The bars are inserted in every guide tube at the back of the barfeeder, this means that all of the errors that can occur with small diameter bars such as those resulting from imperfect straightness are avoided.

#### ADJUSTMENT

The ergonomic remote control, with integrated screen, simplifies set up and allows freedom of movement around the barfeeder and the lathe during the set up process.

The icons show the options for controlling the equipment allowing diameter change in record time.





## HYBRID TRYTON

LNS provides different types of barrels. The optional hybrid barrel of the Tryton 112 guarantees, without limitation, the loading of bars of all possible diameters between 1 to 10 mm respectively or from 1 to 12.7 mm according to the machine capacity. Its reserve of 14 bars per diameter ensures a long period of manufacture between bar reloading.



## ACCESS TO THE LATHE

The pivoting system of the Tryton 112 allows access to the lathe spindle without compromising the alignment of the equipment while enabling the bars to be loaded in front of the magazine barfeeder.

Pivoting system  
Tryton 112

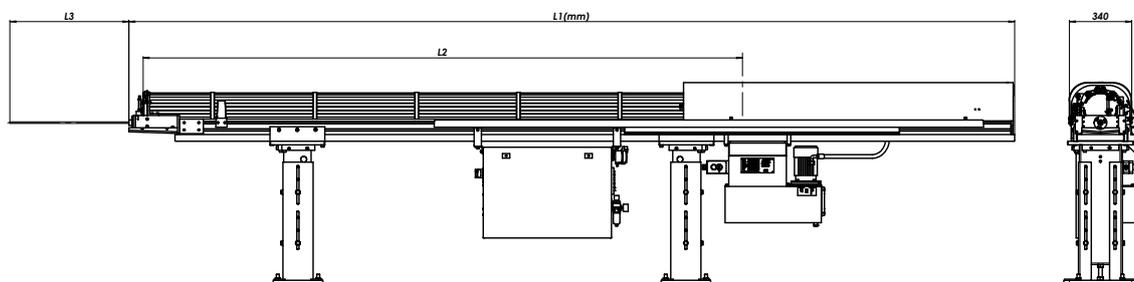
Technical specifications		Tryton 112
Versions available		CNC / Cam
Diameter	mm	ø 1 – 12.7
Bar length "L2"		2m: 2100 3m: 3200 12': 3710 4m: 4200
Loading system		Barrel
Loading capacity (bars)		A: 45 (ø 1-5) B: 36 (ø 1-7) C: 24 (ø 3-10) D: 24 (ø 4-12.7)
Loading side		Right / left
Headstock type		Fixed / sliding
Synchronization		Pressure valve
Partial changeover		2 min within the guiding channel range
Total changeover (hybrid barrel)	min	5–10
Drive		Hydraulic pressure
Guiding		Hydrodynamic / tube
Oil ISO 100	lt	25

Options	
Hybrid barrel	A+C: 2 x 14 bars (ø 1-10) B+D: 2 x 14 bars (ø 1-12.7)
Barrel pivoting	Yes

Floor plan (mm)			
Length "L1"*		CNC	Cam
2m	mm	3737 / 4047	3680
3m	mm	4837 / 5147	4780
12'	mm	5347 / 5657	5290
4m	mm	5837 / 6147	5780
Useable pusher length "L3"	mm	865 / 1175	918

\* The length of the barfeeder depends on the type of machine.

\* Depending on the type of lathe, a pusher extension may be necessary. Therefore, the total length of the machine "L1" will be extended by 310 mm. Please contact your LNS agent to obtain the specific floor plan.



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

LNS provides a full range of bar feeders, chip conveyors, coolant management systems and air filtration systems which is second to none on the market. We are known in the industry for the solid expertise we have gained over several decades in an exceptionally wide range of applications, our excellent customer service and technical support. This support is ensured by highly qualified technicians who are available at key locations throughout Europe.



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