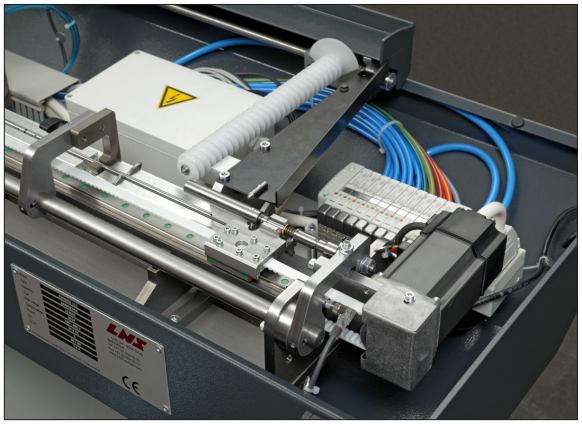
EXPRESS 112+

AUTOMATIC BAR FEEDER FOR
SLIDING HEADSTOCK LATHES

Diameter range: 0,8 – 12 mm

YOUR ONE-STOP-SHOP
FOR MACHINE-TOOL PERIPHERALS



ESPECIALLY SUITABLE FOR HIGH-PRECISION INDUSTRIES

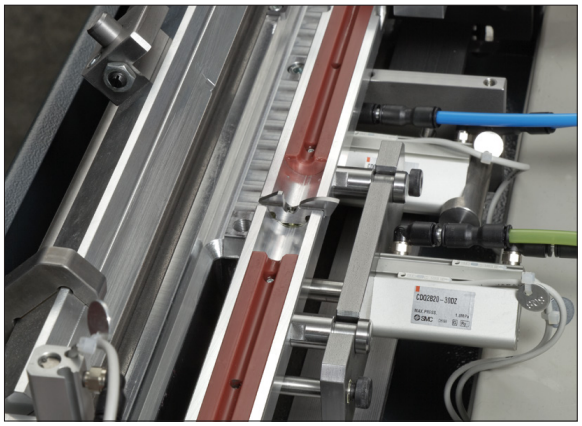
Innovative and efficient, the Express 112+ provides maximum productivity and sets a new standard offering the smallest footprint in its class. The barfeed ensures perfect guiding of bars at the highest speeds, over the entire range of diameters thanks to the Hydrobar® technology.

TOTAL CONTROL OF THE BAR MOVEMENT

The servo drive accurately manages the feeding and pushing torques.
The pusher is connected to a linear guiding rail allowing smooth and effortless movement.

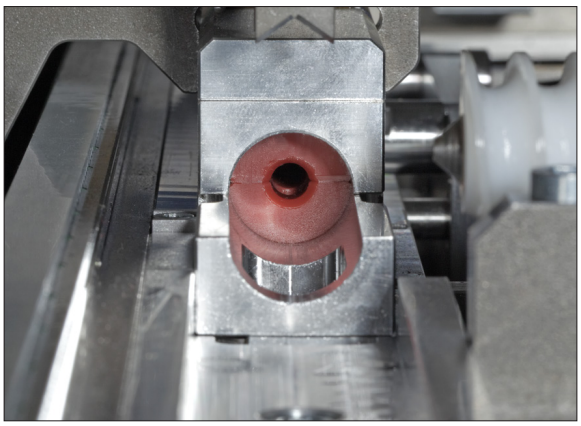
ERGONOMIC

The Express 112+ offers ease of operation to the operator. The external loading rack allows storing of the bars and manual bar separation before easy insertion on the loading screws, thus avoiding overlap. The loading is done safely without opening the cover, even in automatic cycle.



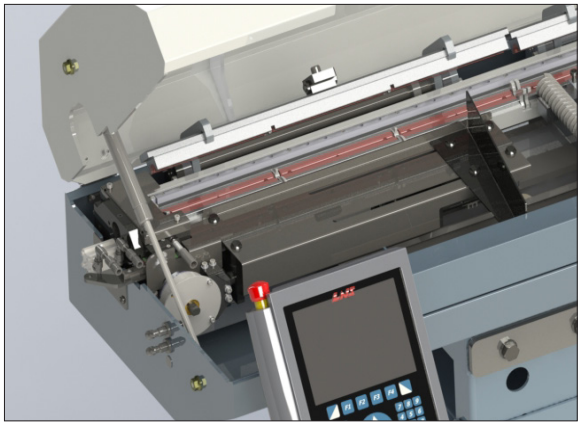
CONTROLLED REMNANT EVACUATION

In production cycle, the slot of the remnant tray is covered by a mobile channel to improve the quality of the bar guiding. For remnant extraction, the mobile channel is actuated and the remnant is evacuated in the dedicated tray. The Express 112+ controls the evacuation of the remnant, and secures the loading of a new bar.



EXCELLENT GUIDING QUALITY

The Express 112+ is built around on a steel beam providing maximum stability and perfect alignment. The guiding system consists of elastomer plastic half-shells which recreate a tube and gradually open when the pusher advances. Associated to the reduction tubes proposed by LNS, the Express 112+ provides continuous bar guiding up to the rear of the lathe's clamping device at the highest rotating speeds.



TRACKING THE SPINDLE MOVEMENTS

The low inertia of the kinematic drive on the Express 112 and the mechanical synchronization system allow the barfeed to follow the movements of the spindle at the highest feed rates. This ensures that there are no buckling or twisting of bars.

NEW HMI

The Express 112+ has a new user-machine interface (HMI). The HMI improves the interaction between the bar feeder and the operator by displaying information visually via pictograms and images.

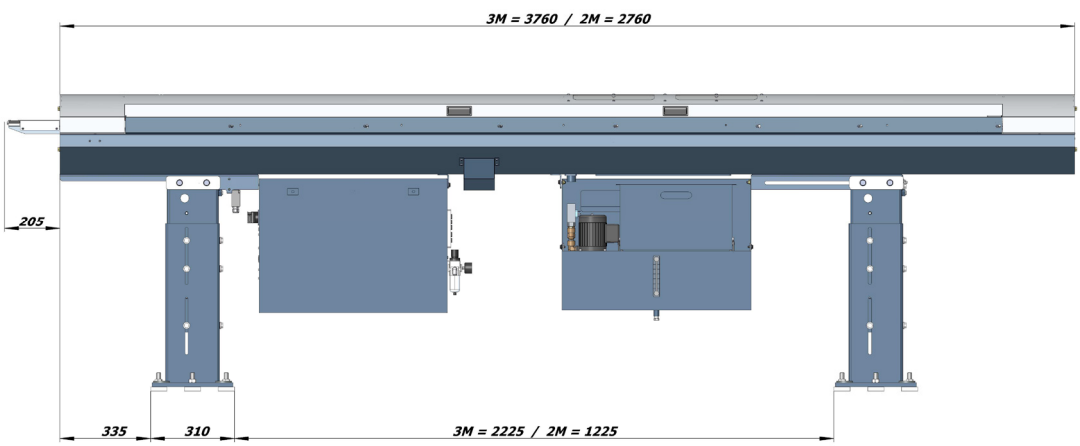
TECHNICAL SPECIFICATIONS

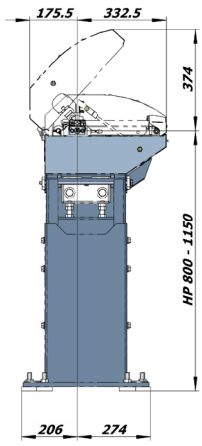
Capacity		EXPRESS 112+
Diameter	mm	⌀ 0,8 – 12
Bar length 2M/3M	mm	2200/3200
Loading system		Screw
Loading capacity		up to 30 bars
Loading side		Right/Left
Application		
Headstock type		Fixed /Sliding
Synchronization		Mechanical
Remnant length	mm	Min. 70/Max. 230
Partial changeover		
Partial changeover	min	2 min. (within the guiding channel range)
Total changeover	min	6 min. (all guiding elements)
Driving system		
Motor		Servo
Drive		Belt
Guiding		Hydrodynamic Round channel
Oil		30L, ISO VG 32 or 68
Weight 2M/3M		40/500 kg
Options		
350 mm longitudinal movement		
Adjustable 2-positions longitudinal movement		
Screw loading sets for various capacities		

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.

THE MOST COMPACT BAR FEEDER IN ITS CLASS





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Subject to modifications / Express 112+ – V2.0-EU-DEV/ 06-2025