



EXPRESS 220 S2/320 S2

AUTOMATIC BAR FEEDERS FOR
FIXED AND SLIDING HEADSTOCK LATHES

Diameter range: 2 – 23 mm



YOUR ONE-STOP-SHOP
FOR MACHINE-TOOL PERIPHERALS



CONSTRUCTION

The design of the Express 220 S2 and 320 S2 is based on the stable structure of the Express 332 S2. The functionalities and reliability of the chosen components and the quality of the finish on the mechanical parts guarantee high-quality production over the long term. This rigidity guarantees maximum absorption of vibrations, even at high speed. This ensures compliance with the tolerances and surface finishes required for the parts produced.



LOADING CAPACITY

At a depth of 240 mm, the loading ramp allows a large number of bars to be prepared. An optional internal extension up to 340 mm is available for bars from 4 to 12 mm.

DIAMETER CHANGE

The production setup for a new bar diameter can be done in record time and without the need for tools.

It takes no more than 2 minutes to change a diameter in a single channel. It takes 8 minutes to change everything – channels, pusher, collet, etc.



REMOTE CONTROL/PROGRAMMABLE

The front rest and the bar selector are set electrically when the data is entered on the remote control. The feed force and speed are automatically calculated when the bar diameter is entered on the control. Its touchscreen makes data entry easy thanks to the clear functions.

LIBRARY OF PARTS

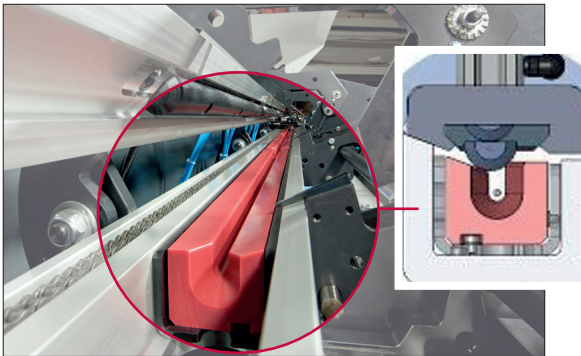
One of the new features is the option to save up to 500 parts and the related bar feeder settings. The saved data is as follows: material diameter, top-cut position, feed length and end of bar position.

Certain specific functions of the Express 220 S2 allow 2 mm bars to be loaded and guided safely and efficiently.



3S SYNCHRONIZATION WITH THE SPINDLE

This patented electronic synchronization system comes with the standard version. The encoder is coupled to the servomotor. The movements of the spindle and the bar feeder pusher are perfectly synchronised. This prevents buckling of the bar when the headstock returns, or loss of the bar from the pusher collet.



GUIDING 2 MM BARS

The channels are completely closed by a special cover which prevents the bars from slipping out of their guide. The cover opens when the pusher and its drive system arrive.

OPTIONS EXPRESS 220 S2/320 S2

BAR FEEDER LONGITUDINAL MOVEMENT

This movement system, with 450 mm travel, frees up access to the spindle and facilitates replacement of the reduction tubes and other maintenance operations. As this option is located between the bar feeder and its supports anchored to the ground, the alignment with the spindle is still guaranteed.



LONGITUDINAL MOVEMENT WITH 2 POSITIONS

This option has been specially developed to equip latest generation lathes which can operate with or without a guide bush. When machining without a guide bush, the bar feeder is in the farthest forward position, as close as possible to the spindle, to reduce the free space to the minimum. When machining with a guide bush, the bar feeder is moved back to an adjustable position between 100 and 350 mm, to keep the bar feeder as close as possible to the spindle. When retracted, this mechanism allows total movement of 450 mm.

DIAMETER RANGE

An optional extension to increase the capacity to 26 mm is available for both models.

TECHNICAL SPECIFICATIONS

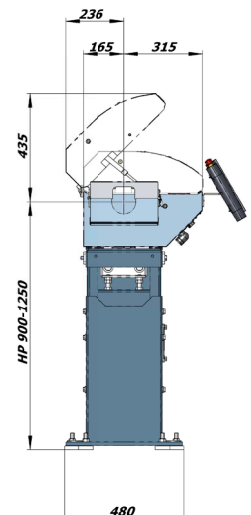
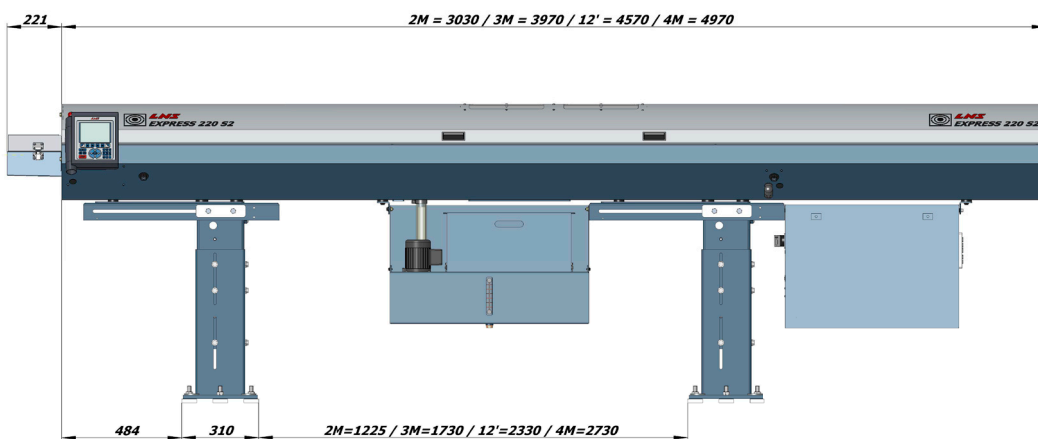
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LNS provides a full range of bar feeders, chip conveyors, coolant management systems and air filtration systems which is second to none on the market. We are known in the industry for the solid expertise we have gained over several decades in an exceptionally 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.

Capacity		EXPRESS 220 S2	EXPRESS 320 S2
Diameter	mm	ø 2 - 23*	ø 3 - 23*
Bar length 2m/3m/12"/4m	mm	2200/3200/3800/4200	
Loading system		Lateral magazine	
Loading capacity	mm	240**	
Loading side		Right/Left	
Applications			
Type of headstock		Fixed/Sliding	
Remnant length	mm	Min. 70/Max. 400	
Synchronization		Electronic "3S"	PLC/Servo motor
Remote control		Colour touchscreen with library of 500 parts	
Diameter change			
Partial change	min	2 (in the same channels)	
Complete change	min	8 (for all guide components)	
Driving system			
Motor		Servo	
Drive		Chain	
Guide channels		Standard and active bearings	Standard
Oil		30 L, ISO VG 100	
Options			
450 mm longitudinal movement			
Adjustable 2-positions longitudinal movement			

* Extension to 26 mm

** Internal extension of the magazine up to 340 mm for bars from 4 to 12 mm



LNS SA
Route de Frinvillier
2534 Orvin
Switzerland

+41 32 358 02 00
LNS@LNS-europe.com
www.LNS-europe.com