

Steering your
investments safely

HYDROBAR EXPRESS 220

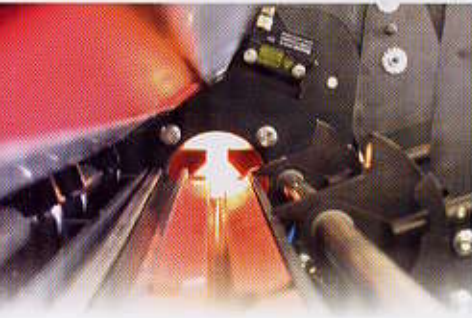


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HYDROBAR EXPRESS 220



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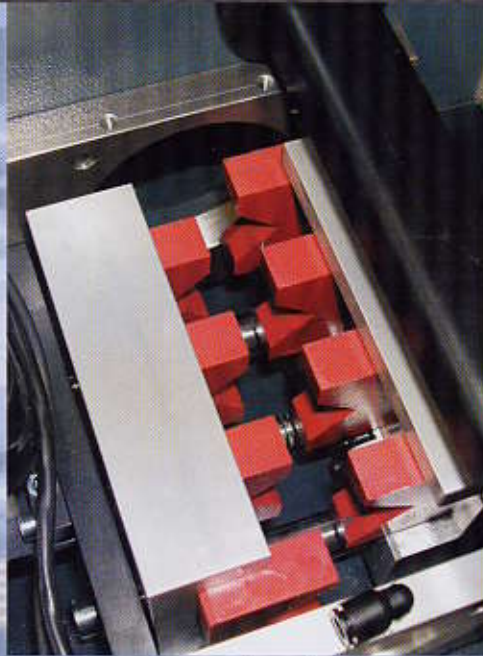
The Hydrobar Express 220 is a continuation of the proven concept of the 332, but with a new, modular dimension. It is a development based on its big brother, designed in response to technical and commercial developments in machine tool. In its standard version, the bar feed carries out 80% of the most frequent applications. Due to its modular construction the Express 220 can quickly be equipped with options, depending on specific needs at a given time.

Easy diameter changer over

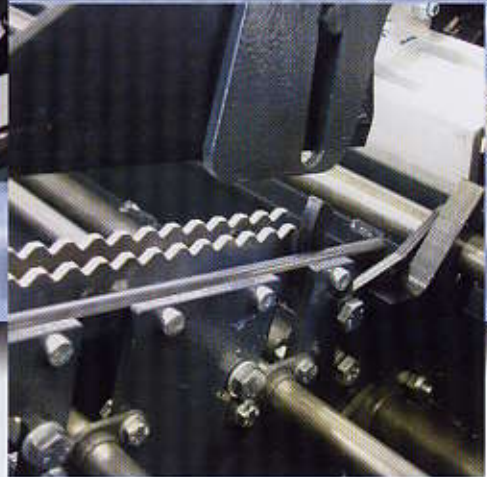
A change in diameter is a factor in production costs that must be closely monitored. With its automatic option, the Express 220 permits to change the diameter in 2 minutes within the range of channel and in 8 minutes with a complete change of guiding elements.

Precision to 2 mm

The physical particularities of materials mean that selecting a bar for small diameters is a critical stage. With its specific 2mm loading system option, the Express 220 allows reliable bar selection.



By simply entering the new diameter, the steady rest support and the bar selection system adjust automatically. When the guiding elements are changed, the prompting remote control automatically regulates the speed and torque according to the recorded parameters, such as the part length, bar diameter, pusher diameter, and channel diameter.



A double cam system allows to separate and advance bars on the sloped plane, independently of the straightness and the properties of the material. Finally, the bars are placed one by one in the guiding channels.

Anticipation of lathe action

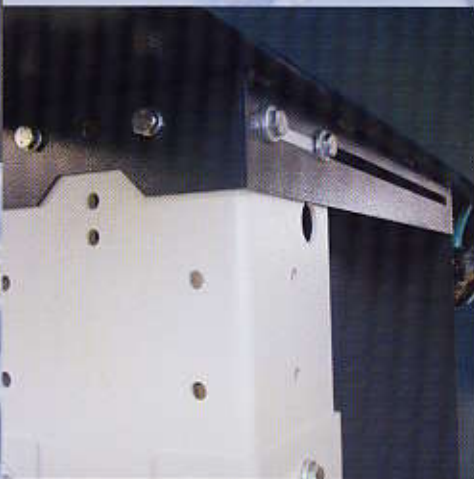
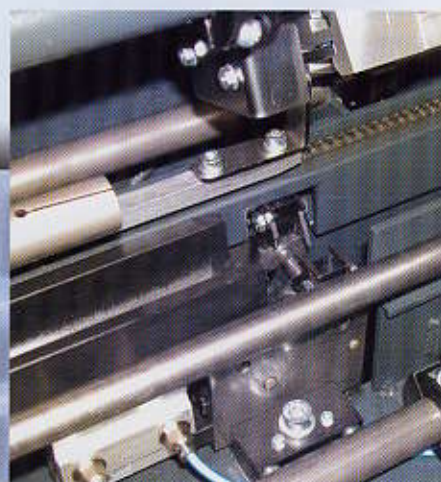
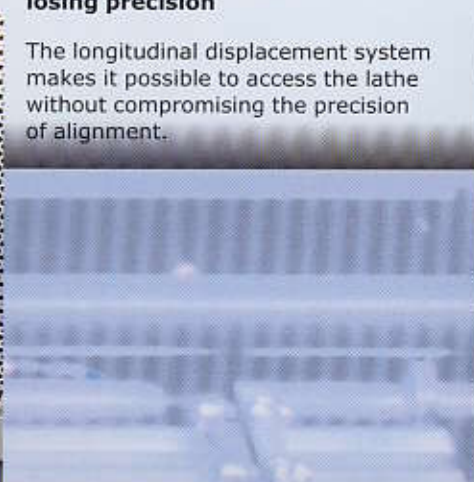
The Express 220 learns the headstock displacements from the first part processed, and then anticipates them from the second part onward. With high feed rates of headstock on modern lathes, the system prevents bars buckling.

Making space without losing precision

The longitudinal displacement system makes it possible to access the lathe without compromising the precision of alignment.

Remnant extraction

The standard Express 220 has a remnant retract system with automatic centering. An infrared cell confirms the remnant drop (maximum length 450mm) in a storage drawer to safely load a new bar.



In the standard version, the bar movements are performed by servomotors, controlled by a PLC. The system detects the headstock motion and provides optimum synchronization of the pusher movements.

With its «3S» option, the Express 220 achieves perfect synchronization. This new system permits simultaneous movements between the lathe headstock and the bar stocks. It is recommended for new-generations lathes equipped with high-performance linear motors, for applications below 3mm diameter, and for machining specific material.

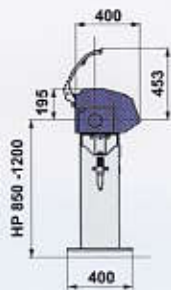
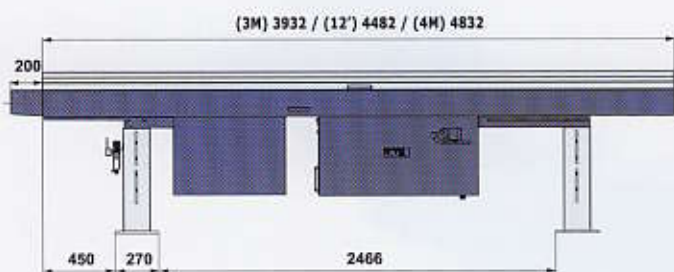
The 500mm longitudinal movement of the chassis facilitates access to the spindle for all interventions on the lathe or to change the spindle liners. This operation is carried out on the upper part of the stands, which ensures that alignment with the spindle repeats. This device reduces time loss for realignment of the machine.

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HYDROBAR EXPRESS 220

Hydrobar Express 220: a complete, evolutionary bar feed system



| Bar diameter | Guiding channels | Pushers | Rotating sleeves | Collets Ext. / Int. |
|--------------|------------------|---------|------------------|---------------------|
| 22-12 | 23 | 22 | 15 | 22 20 |
| 20-10 | 21 | 20 | | 20 18 |
| 18-8 | 19 | 18 | | 18 16 |
| 16-4 | 17 | 16 | 10 | 16 14 |
| 12-4 | 14 | 12 | | 12 10 |
| 10-4 | 11 | 10 | | 10 8 |
| 5-2 | 8 | 7 | | 7 5 |

| | |
|----------------------|--|
| Bar diameter : | (2)* 3-20 mm *with optional 2mm bar loading system |
| Bar loading system : | Side loading rack 160 mm |
| Remnant length : | 90 - 400 mm |
| Option 1 : | Automatic guiding steady rest and bar selection system |
| Option 2 : | Specific 2 mm bar loading system |
| Option 3 : | Z-Axis retraction system of the barfeed - 500 mm |
| Option 4 : | «3S» headstock synchronization system |

The price of guiding channels

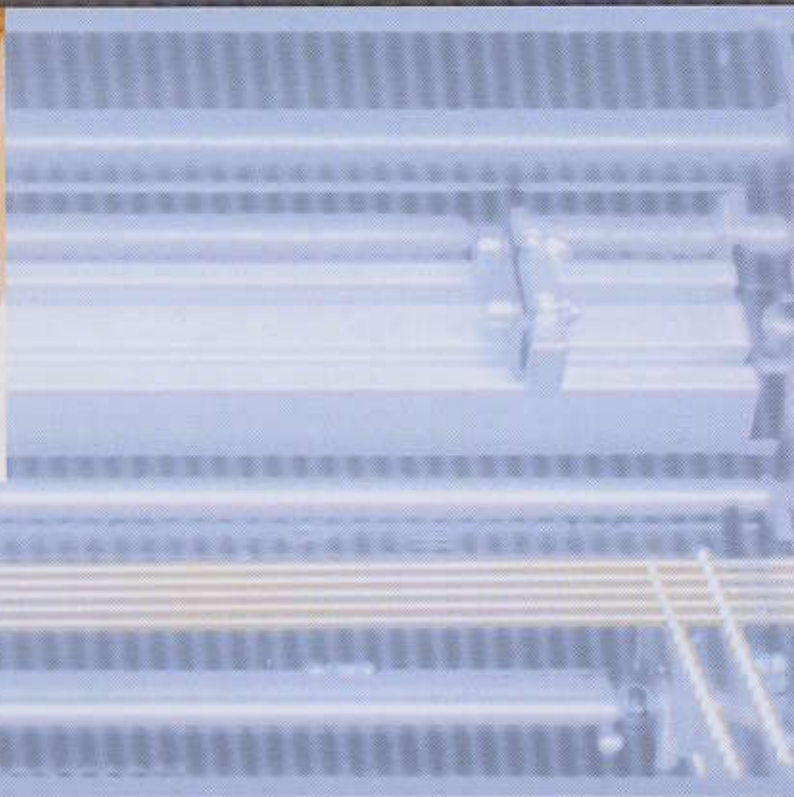
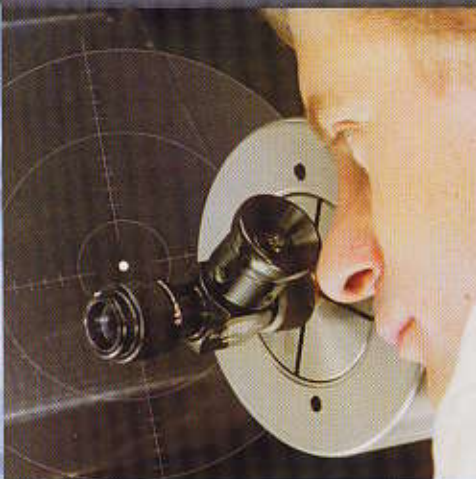
Buying a barfeed at its lowest price is not sufficient to meet future needs, optional equipment and guiding channels are critical. The hydrodynamic effect created in the channels ensures optimum rotational speeds of the bar without vibration at optimum cut speeds. A storage bin located in the barfeed receives all additional accessories.

The way in which the bar loader is set up has an impact on the performance of the lathe / magazine bar loader duo

At this stage, the technician's skills, experience, and knowledge, in addition to the equipment's features, is added value.

Telescopic tubes

Telescopic tubes with combination Reduction/Spindle Liner reduces vibration and bar oscillation between the bar feed and the lathe, provides operator protection



The user-friendly remote control helps the operator to set up the unit, and provides self-diagnosis and monitoring. The LNS worldwide technical support, with direct access to qualified assistance, provides solutions without delay to any production breakdown.



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