

MS22-L

*CNC multi-spindle automatic lathe
with swiss type function*

INDEX



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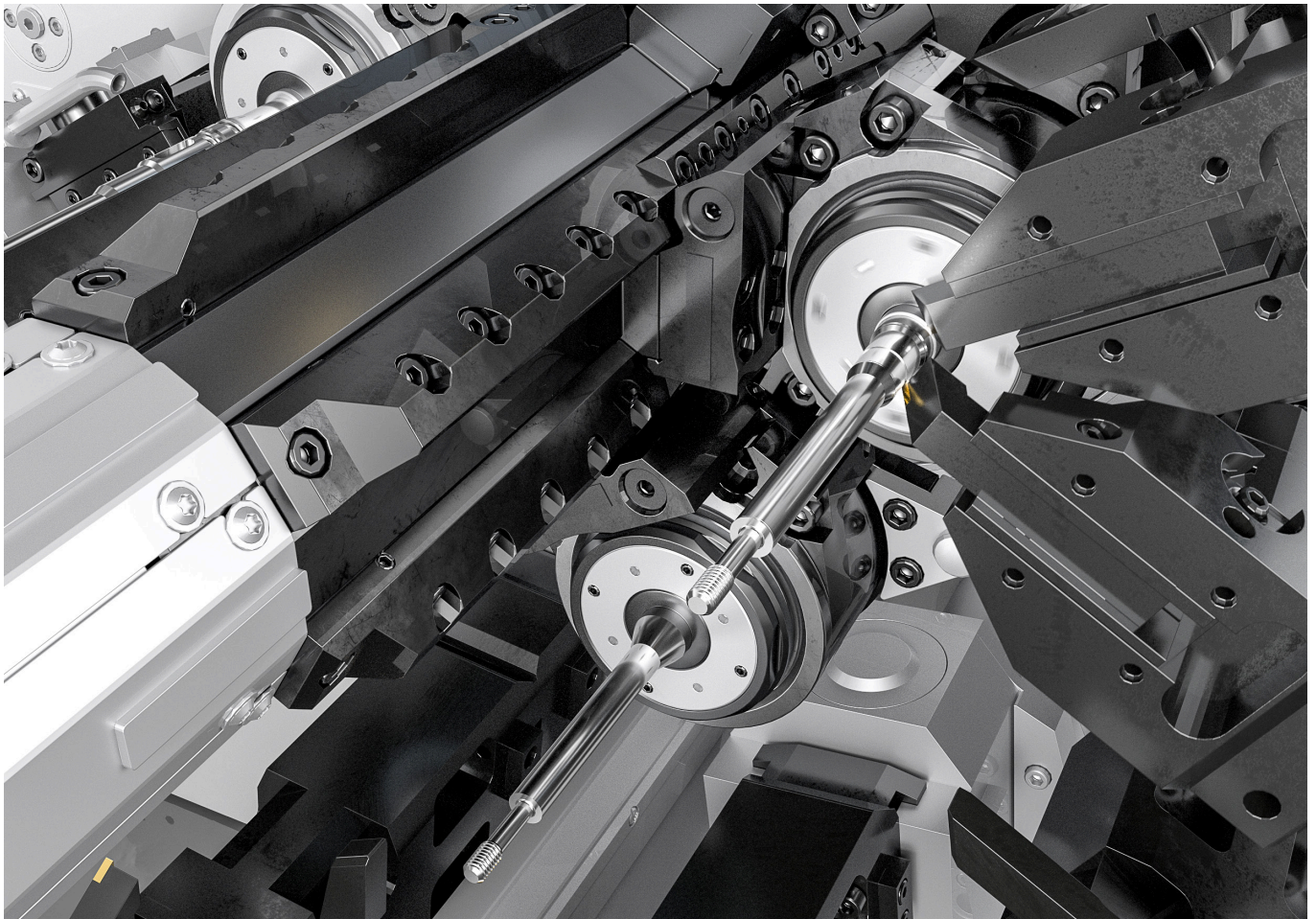
The new INDEX MS22-L

The multi-spindle automatic lathe for highly productive machining of long parts

The newly developed swiss type function of INDEX MS22-L also enables the highly productive machining of typical long-turned parts on a multi-spindle automatic lathe. The new automatic lathe is based on INDEX MS22 which is known for its reliability. By simultaneous use of up to 11 tools (2 cutting edges per spindle) on the total of 6 work spindles, the MS22-L is the world's most productive solution for producing long-turned parts of all kinds. A synchronized spindle also makes rear-end machining possible with up to 6 tools (of which 2 are live).

The machine concept

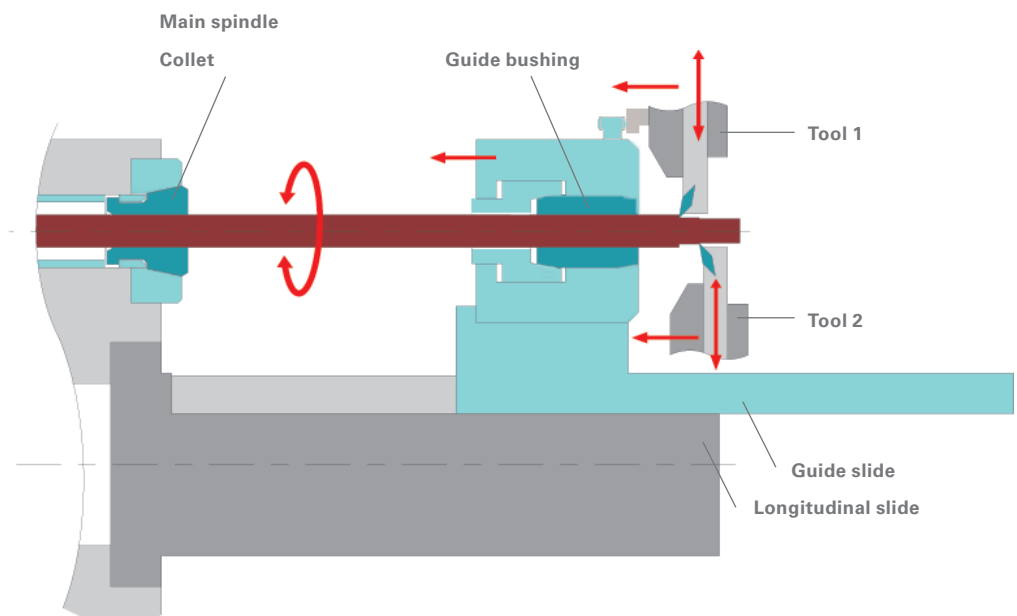
- Compact front-open design
- 6 high-precision motorized spindles
- Bar clearance 5 mm to 22 mm
- Workpiece length up to 200 mm
- 2 tool carriers per work spindle
- Integrated swiveling synchronized spindle for rear-end machining and damage-free placing of finished parts on a conveyor belt
- Wide range of machining possibilities by C and Y axes
- Use of live tools (e.g., milling)
- Including iXpanel-i4.0 ready (based on Siemens S840D sl)



INDEX Multi-spindle swiss type principle

The core of the newly designed swiss type turning unit is the centered guide block, set up on the spindle drum, on which the six long turning sleeves are moving.

- Solid guide block with 6 high-precision hydrodynamic slideways for utmost machining accuracy
- Ball-bearing guide bush unit with double-cone guide collet and programmable pressures
- The guide bush unit is moved during long turning by a tool carrier towards the work spindle



Parts range

Parts with a diameter of 5 – 22 mm and a turning length of up to 200 mm can be machined on the MS22-L.

The range of parts includes workpieces from all industries such as injection components, shafts, pistons for the automotive and machinery industries, as well as implants and medical instruments, including components for electric drives.



Control slider

Dimensions, mm $\varnothing 18 \times 120$

Material 1.4305



Drive shaft

Dimensions, mm $\varnothing 14 \times 100$

Material 1.4305



Medical screw

Dimensions, mm $\varnothing 11 \times 64$

Material Titan



Shaft

Dimensions, mm $\varnothing 16 \times 180$

Material 1.4305

One INDEX MS22-L can achieve a part output up to 6 single-spindle CNC sliding headstock automatic lathes.

The advantage of multi-spindle technology is obvious: the customer only needs one handling, one coolant preparation, and saves energy and personnel.

Technical data

Work spindles		6
Turning length	mm	200
Max. bar diameter	mm	22
Speed	rpm	7,500
Tool carrier		11
Slide travel X	mm	62
Slide travel Z	mm	85
Synchronized spindle		1
Slide travel Z	mm	120
Speed	rpm	max. 10,000
Number of tools for rear-end machining		6
of which are driven		2
Guide bushing unit		
Displacement	mm	> 200
Dimensions, weight, and connected power (for max. configuration level, without bar guide or loading magazine)		
Weight	kg	approx. 5,700
Length	mm	3330
Width	mm	1830
Height	mm	2854
Connected power		62 kW, 75 kVA, 105 A, 400 V, 50/60 Hz

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