

MultiLine MS22C lean

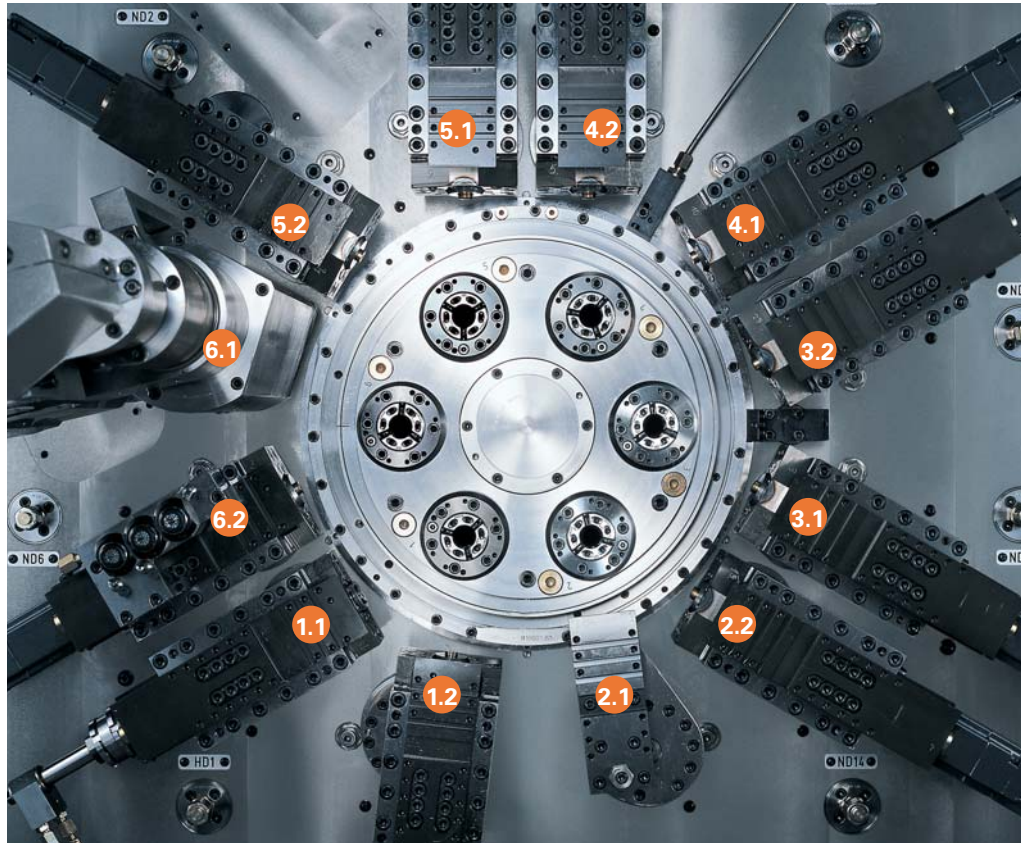
CNC Multi spindle turning
machine



High dynamics exhibiting all CNC advantages

Its high dynamics allows the MS22C lean to achieve cycle time values previously reserved to cam-controlled multi spindle machines only. Its performance is only reached by few multi spindle machines.

- Machine open at the front for bar work
- Freely accessible and thus easy to use
- High-dynamics slide equipped with plain-bearing slideways (X axis)
- Wear-resistant Z axis, since quills are mounted on hydrostatic bearings
- Extremely high-speed synchronous spindle
- 3 tools in position 6 for backworking



Machining axes

Tool carriers	1.1	1.2	2.1	2.2	3.1	3.2	4.1	4.2	5.1	5.2	6.1	6.2
X	(•)*	(•)*		•	•	•	•	•	•	•		•
Z	•	•	•	•	•		•		•		•	•

Optionally, four more axes possible

*Depending on bar guide unit/bar loading magazine

The centerpiece

Maximum precision in any position through three-part Hirth coupling. An infinitely variable speed range for each spindle position, high torque, small compact design, low maintenance and the latest AC synchronous drive technology: that's what INDEX CNC multi spindle automatics stand for.

cutting edge can be optimized, even while cutting is in progress. This results in good chip control, optimum surface finishes, short cycle times and longer tool life.

More than just turning

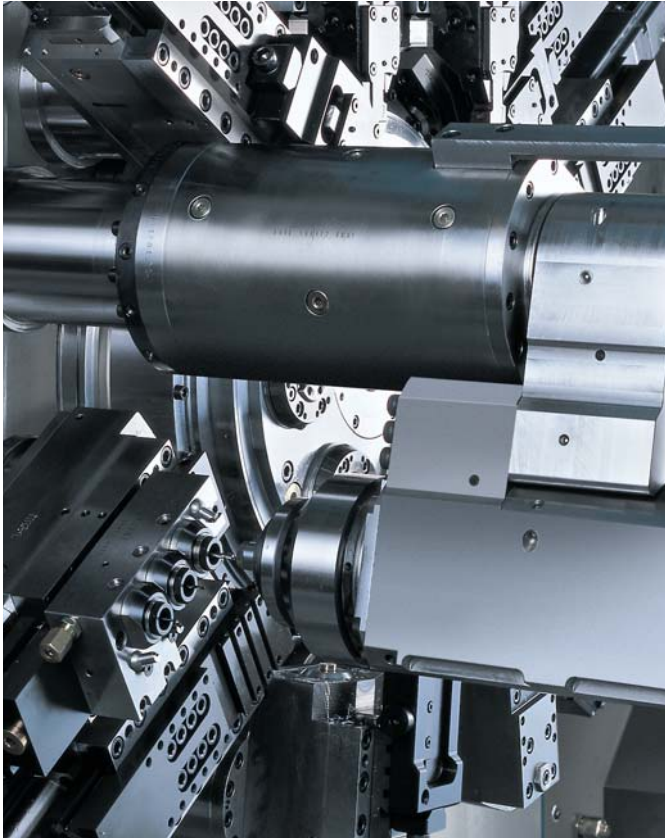
INDEX CNC multi spindle automatics equipped with driven tools and C axes open up completely new opportunities, for example:

- off-center holes and tapping
- milling operations

Independent speeds

The spindle speed for each spindle position and each





Backworking

- using up to three tools outside the main working area (e.g. drilling, outside diameter turning, facing, thread chasing, turning)
- no impairment of the tools caused by chip fall in the main working area

An efficient combination

Productivity and economy, linked to precision and flexibility, is only found in the INDEX multi spindle machines.

Additional advantages

- 11 tool carriers equipped with 1 or 2 travel axes
- variable use of the tool carriers for O.D. and I.D. tools
- cross machining with driven tools
- C axis and polygon turning for extended applications

Tool carrier and working area

Spacious working area due to the absence of a slide mounting block allows unhindered machining. This enables the simultaneous use of several tools on each spindle. The machining type is determined by the tool holder. All machining operations (outside – outside, inside – outside, fixed – driven and driven – driven) can be freely defined in almost all spindle positions. Another advantage: A free chip fall is guaranteed.

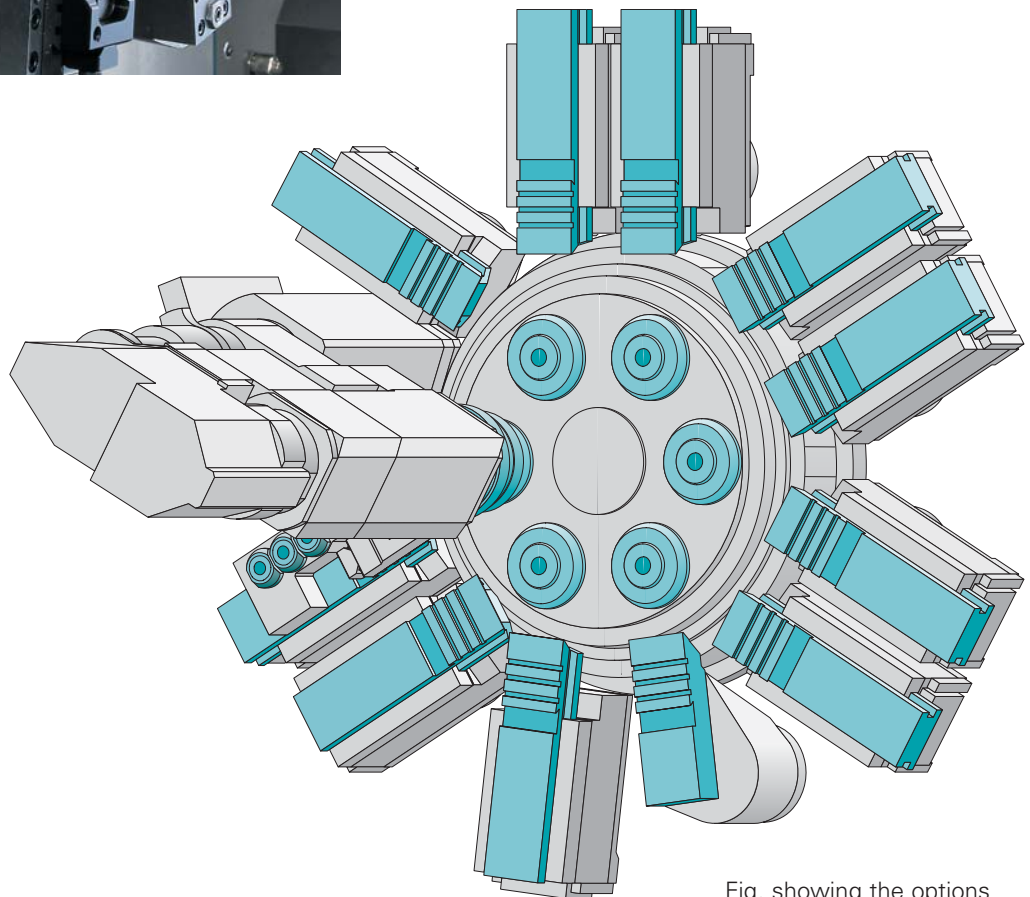


Fig. showing the options

Technical Data

Work spindles		6
Max. bar capacity	mm (inch)	22 (0.9)
Speed *	rpm	10000
Power at 100%/25%	kW (hp)	8.6/14 (11.6/18.9)
Torque at 100%/25%	Nm (ft lbs)	12/19 (9/14)
Synchronous spindle		1
Max. clamping diameter		22
Speed *	rpm	10000
Power at 100%/25%	kW (hp)	9.2/13.5 (12.4/18.2)
Torque at 100%/25%	Nm (ft lbs)	11/16 (8/12)
Swiveling angle of the synchronous spindle	degrees	99
Slide travel Z	mm (inch)	120 (4.7)
Number of tools for backworking		3
Tool carrier max.		11
Slide travel X	mm (inch)	62 (2.4)
Slide travel Z	mm (inch)	85 (3.3)

Dimensions, weights and connecting power

(with max. configuration, without bar guide unit or loading magazine)

Weight	kg (lbs)	approx. 6000 (13200)
Length	mm (inch)	3300 (129.9)
Width	mm (inch)	1830 (72)
Height	mm (inch)	2854 (112.4)
Connecting power		67 kW, 80 kVA, 114 A
A/C		400 V, 50/60 Hz

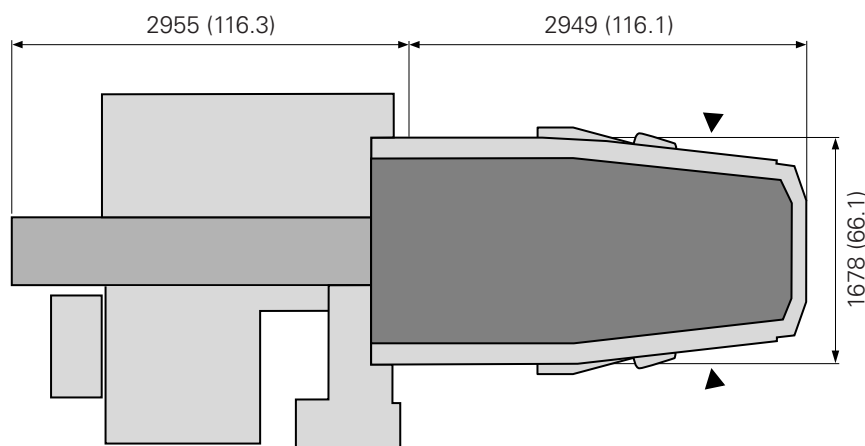
Control

INDEX C200-4D (Basis Siemens 840D powerline) teleservice, spindle stop, C axis included in standard package

Options

Polygon turning, gear hobbing, tool monitoring, Y axis, transmit function

*Depending on bar capacity, bar guide unit and part clamping, speed limits are necessary



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