

SL205 / SL265

Swiss-Type CNC Turning Centers

Dual-channel machines for complex turning, milling and drilling of small precision parts from bar stock.

MODEL RANGE

SL205

Ø20 mm max. bar

SL265

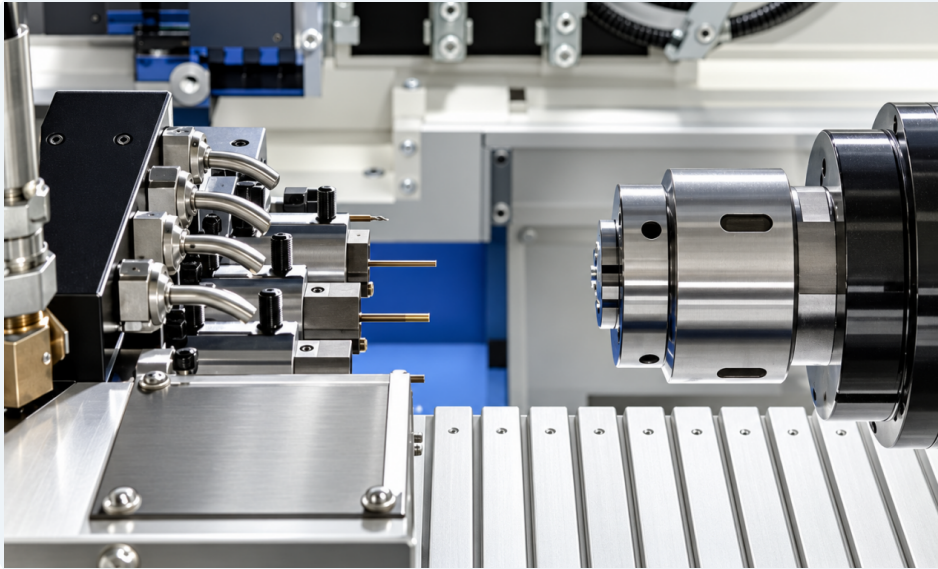
Ø26 mm max. bar

STANDARD CONTROL

Syntec dual-channel CNC

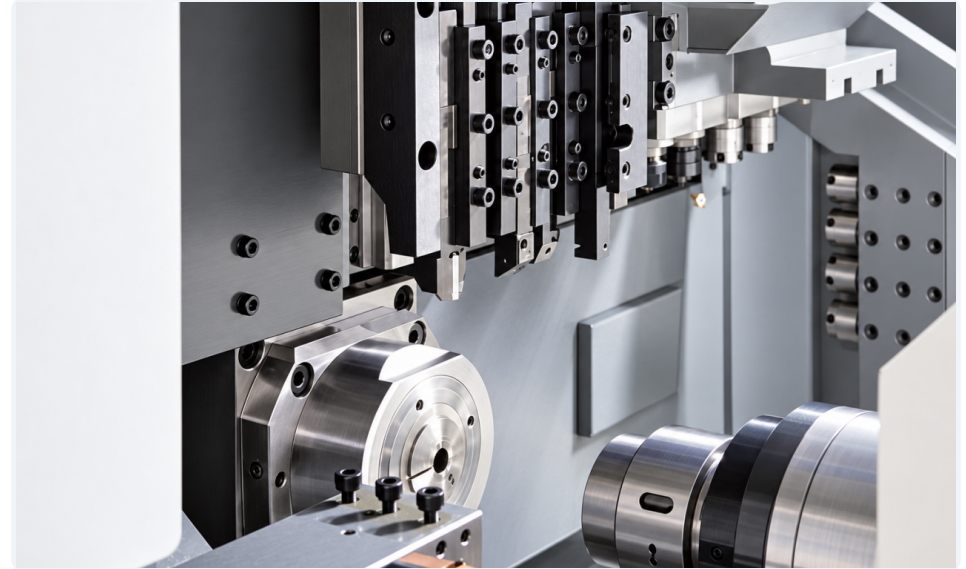
FANUC or Mitsubishi available
on request.





RADIAL LIVE-TOOL CONFIGURATION

Horizontal linear tool layout supports chip evacuation and compact machine setup.



MAIN AND BACK SPINDLE AREA

Spindle indexing and live tooling enable combined turning, milling and drilling operations.

Engineering highlights

DUAL-CHANNEL CONTROL

Standard Taiwan Syntec CNC; FANUC or Mitsubishi control can be specified.

RIGID MACHINE STRUCTURE

One-piece bed and slides made from Meehanite cast iron for rigidity and stability.

SPINDLE AND FEED

Imported precision angular-contact spindle bearings. All feed axes are servo-driven.

FLEXIBLE PRODUCTION

Quick change between guide-bushing and non-guide-bushing modes; automatic bar feeding is available.



Long, slender and precision-machined components

The SL205 and SL265 are intended for complex small parts and slender shaft components. Process suitability should be confirmed against the part drawing, material, tolerances and selected tooling.

TYPICAL INDUSTRIES

Communications · electronics · automotive · pneumatic and hydraulic components · medical · instrumentation · aerospace

Technical specifications

SL205 / SL265

SPECIFICATION	SL205	SL265
Maximum bar stock diameter	Ø20 mm	Ø26 mm
Main spindle through-hole diameter	Ø25 mm	Ø30 mm
Maximum machining length - no guide bushing	2.5D (max. 50 mm)	2.5D (max. 50 mm)
Maximum machining length - fixed guide bushing	220 mm (optional)	220 mm (optional)
Maximum machining length - rotating guide bushing	180 mm	180 mm
Back spindle maximum bar diameter	Ø20 mm	Ø26 mm
Main spindle maximum drilling diameter	Ø10 mm	Ø10 mm
Main spindle maximum tapping size	M10	M10
Back spindle maximum drilling diameter	Ø10 mm	Ø10 mm
Back spindle maximum tapping size	M8	M8
Radial live-tool maximum drilling diameter	Ø8 mm	Ø8 mm
Radial live-tool maximum tapping size	M6	M6
Back live-tool maximum drilling diameter	Ø8 mm (optional)	Ø8 mm (optional)
Back live-tool maximum tapping size	M6 (optional)	M6 (optional)
Main spindle speed	10,000 rpm (8,000 with rotating guide bushing)	10,000 rpm (8,000 with rotating guide bushing)
Back spindle speed	10,000 rpm	10,000 rpm
Radial live-tool speed	5,000 rpm	5,000 rpm
Back live-tool speed	6,000 rpm (optional)	6,000 rpm (optional)
Rapid traverse	24 m/min (X2, Y1, Z1, Z2); 20 m/min (X1)	24 m/min (X2, Y1, Z1, Z2); 20 m/min (X1)
Main spindle runout	≤0.002 mm	≤0.002 mm
Repeat positioning accuracy	≤0.003 mm	≤0.003 mm
External tools	1 × Ø16 mm + 5 × Ø12 mm	1 × Ø16 mm + 5 × Ø12 mm
End-machining tools	4 × ER16	4 × ER16
Radial live tools	2 × ER11 + 2 × ER16	2 × ER11 + 2 × ER16
Back-machining tools	4 × ER16 + 1 × Ø20 mm	4 × ER16 + 1 × Ø20 mm
Main spindle motor	4.2 kW	4.2 kW
Back spindle motor	3.1 kW	3.1 kW
Direct-drive spindle motor	1 kW (X1, X2, Y1, Z1); 0.75 kW (Z2)	1 kW (X1, X2, Y1, Z1); 0.75 kW (Z2)
Radial live-tool motor	1 kW	1 kW
Back live-tool motor	0.75 kW (optional)	0.75 kW (optional)
Coolant pump	0.4 kW	0.4 kW
Machine weight	2,400 kg	2,400 kg
Overall dimensions (L × W × H)	2,380 × 1,300 × 1,770 mm	2,380 × 1,300 × 1,770 mm

Optional configurations are marked. Specifications may be changed without notice.