



SL125

Swiss-Type CNC Turning Center

A dual-channel platform for machining complex, small-diameter and long slender parts from bar stock.

KEY CAPABILITIES

Ø12 mm

Maximum bar capacity

12,000 rpm

Main and back spindle speed

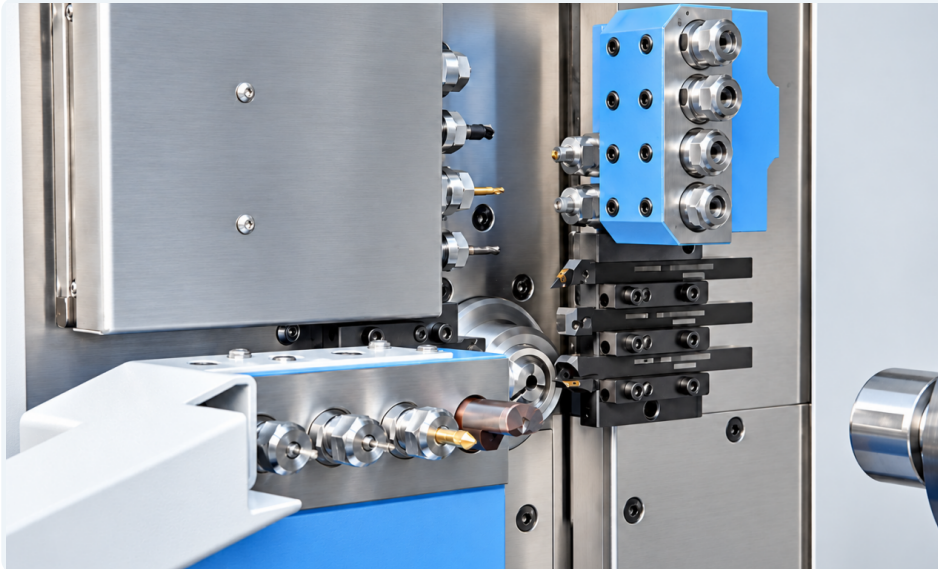
Dual channel

Standard Syntec CNC

CONTROL OPTIONS

Syntec standard

FANUC or Mitsubishi available
on request.



DUAL-ROW TOOL ARRANGEMENT

Compact vertical tool layout with radial live tooling for combined turning, milling and drilling operations.



PRECISION TOOLING AREA

Clear access to the tool plate and work zone supports setup and process changes.

Engineering highlights

DUAL-CHANNEL CONTROL

Standard Taiwan Syntec control; 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 high-precision angular-contact bearings; all feed axes are servo-driven.

FLEXIBLE PROCESSING

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



Precision tools and slender turned components

The SL125 is designed for small, complex and precision long-shaft parts. Actual process suitability depends on the part drawing, material, tolerances, tooling and selected machine configuration.

TYPICAL INDUSTRIES

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

Technical specifications

SL125

SPECIFICATION	SL125
Maximum bar stock diameter	Ø12 mm
Main spindle through-hole diameter	Ø16 mm
Maximum machining length - no guide bushing	2.5D (max. 30 mm)
Maximum machining length - fixed guide bushing	180 mm
Maximum machining length - rotating guide bushing	60 mm
Back spindle maximum bar diameter	Ø12 mm
Main spindle maximum drilling diameter	Ø7 mm
Main spindle maximum tapping size	M6
Back spindle maximum drilling diameter	Ø7 mm
Back spindle maximum tapping size	M6
Radial live-tool maximum drilling diameter	Ø6 mm
Radial live-tool maximum tapping size	M5
Main spindle speed	12,000 rpm (8,000 rpm with rotating guide bushing)
Back spindle speed	12,000 rpm
Radial live-tool speed	6,000 rpm
Rapid traverse	30 m/min (X2, Y1, Z1); 24 m/min (X1, Z2)
Main spindle runout	≤0.002 mm
Repeat positioning accuracy	≤0.003 mm
External tools	5 × Ø10 mm
End-machining tools	4 × ER11
Radial live tools	4 × ER11
Back-machining tools	4 × ER11
Main spindle motor	1.5 kW
Back spindle motor	1.5 kW
Direct-drive spindle motor	0.75 kW
Radial live-tool motor	0.75 kW
Back live-tool motor	0.75 kW (optional)
Coolant pump	0.25 kW
Machine weight	1,800 kg
Overall dimensions (L × W × H)	2,100 × 1,100 × 1,700 mm

Optional features are identified as such. Specifications may be changed without notice.