



SL327 SHOWN

BUILT FOR COMPLEX, SLENDER COMPONENTS

Swiss-type turning with integrated B-axis live tooling

- Ø32 mm bar capacity Supports a broad range of precision bar components.
- Guide-bushing flexibility Quickly switch between guide-bushing and no-guide-bushing modes.
- Turn-mill-drill capability Radial and B-axis live tools support compound machining.
- Production automation An optional bar feeder enables continuous machining.

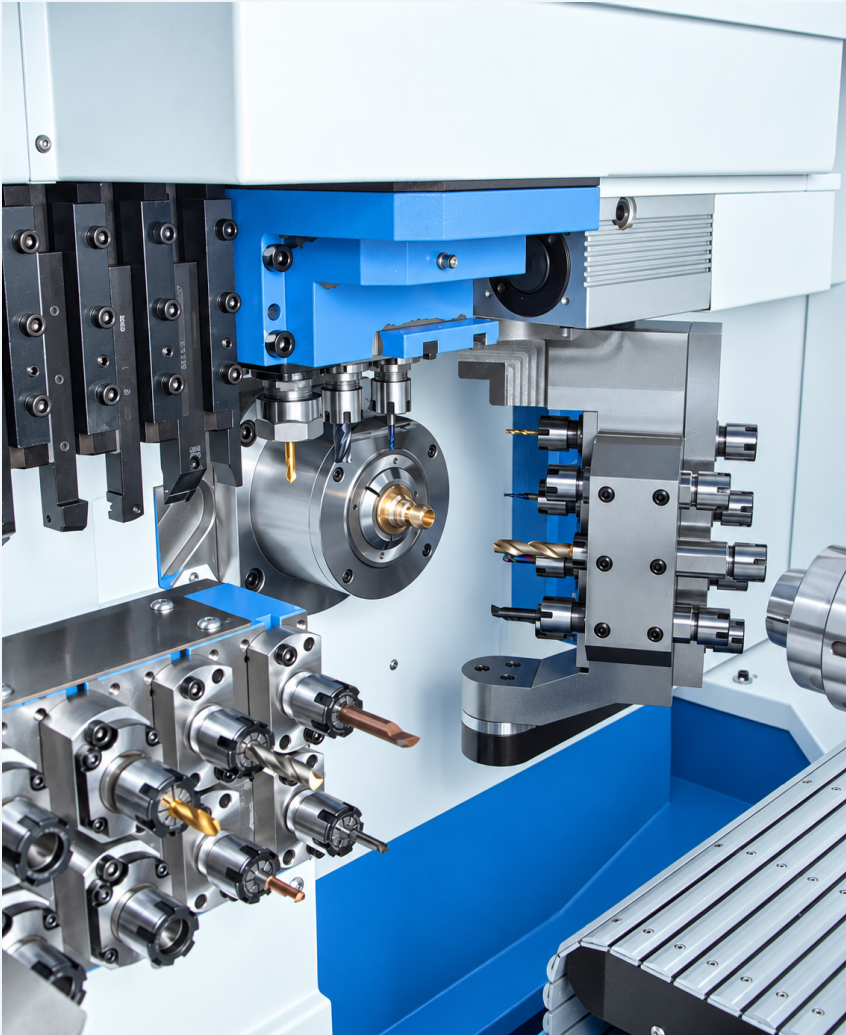
AT A GLANCE

Main spindle runout ≤ 0.002 mm

Repeat positioning accuracy ≤ 0.003 mm

Max. bar diameter Ø32 mm

Designed for precision and process flexibility



7-AXIS, DUAL-CHANNEL CONTROL

Taiwan Syntec CNC is standard. Other control systems are available on request.

HIGH-PRECISION SPINDLE

Imported precision angular-contact bearings support spindle rigidity and long-term accuracy. Spindle runout is $\leq 2 \mu\text{m}$.

RIGID CAST-IRON STRUCTURE

A high-rigidity Meehanite cast-iron bed and slides are designed for stability.

SERVO FEED AXES

Imported precision screw bearings and guideways, with roller guides at key positions. Repeat positioning accuracy is $\leq 3 \mu\text{m}$.

FLEXIBLE GUIDE-BUSHING MODES

Quick changeover between guide-bushing and no-guide-bushing operation.

COMPACT TOOLING LAYOUT

Horizontal linear tool arrangement promotes chip evacuation. Radial and B-axis live tooling supports turning, milling and drilling.

AUTOMATION & APPLICATIONS

Add a bar feeder for continuous machining. Applications include communications, electronics, automotive, pneumatic and hydraulic equipment, medical devices, instrumentation and aerospace, especially complex, small, precise and slender shafts.

Machining capacity & spindle performance

SPECIFICATION	SL327
Maximum bar stock diameter	Ø32 mm
Main spindle through-hole diameter	Ø37 mm
Maximum machining length - no guide bushing	2.5D (max. 80 mm)
Maximum machining length - rotating guide bushing	310 mm
Back spindle maximum bar diameter	Ø32 mm
Main spindle maximum drilling diameter	Ø13 mm
Main spindle maximum tapping size	M12
Back spindle maximum drilling diameter	Ø10 mm
Back spindle maximum tapping size	M10
Radial live-tool maximum drilling diameter	Ø10 mm
Radial live-tool maximum tapping size	M8
Main spindle speed	8,000 rpm (6,000 rpm with rotating guide bushing)
Back spindle speed	8,000 rpm
Radial live-tool speed	6,000 rpm
Back live-tool speed	6,000 rpm
B-axis rotation angle	0° to 135°
B-axis live-tool speed	6,000 rpm
Feed-axis rapid traverse - X2, Y1, Z1, Z2	30 m/min
Feed-axis rapid traverse - X1, Y2	24 m/min
B-axis rapid indexing speed	36,000°/min
Main spindle runout	≤ 0.002 mm
Repeat positioning accuracy	≤ 0.003 mm

The source specifies a 2.5D no-guide-bushing length with an 80 mm maximum. Optional items and configurations are identified on the tooling page.

Tooling, drive & machine footprint

SPECIFICATION	SL327
External tools	6 × □16
Radial live tools	1 × ER20 + 2 × ER16
B-axis live tools	4 × ER16
End-face drilling tools	3 × ER16
Deep-hole tool holders	2 × ER16 (optional)
Back-machining tools	4 × ER16
Back live tools	4 × ER16
Main spindle motor	6.3 kW
Back spindle motor	4.2 kW
Linear-drive axis motor	1.1 kW (X1, Y1, Z1, X2, Z2)
Y2 axis motor	1 kW
Radial live-tool motor	1.1 kW
B-axis live-tool motor	1 kW
B-axis drive motor	0.4 kW
Back live-tool motor	1 kW
Coolant pump	0.4 kW
Machine weight	3,750 kg
Overall dimensions (L × W × H)	2,960 × 1,660 × 1,920 mm

Tooling notation: □ indicates a square tool shank. Specifications may be changed without notice.