

SL325 / SL326 / SL385 / SL386

Large-bar capacity for precision, slender-part production



SL326 SHOWN

A FOUR-MODEL SWISS-TYPE SERIES

Capacity and tooling options for complex, slender components

- Ø32 / Ø38 mm bar capacity Choose the model size that matches the workpiece envelope.
- Guide-bushing flexibility Switch between no-guide-bushing and rotating guide-bushing configurations.
- Combined machining Radial live tooling and spindle indexing support turning, milling and drilling.
- Automation ready An optional bar feeder supports continuous production.

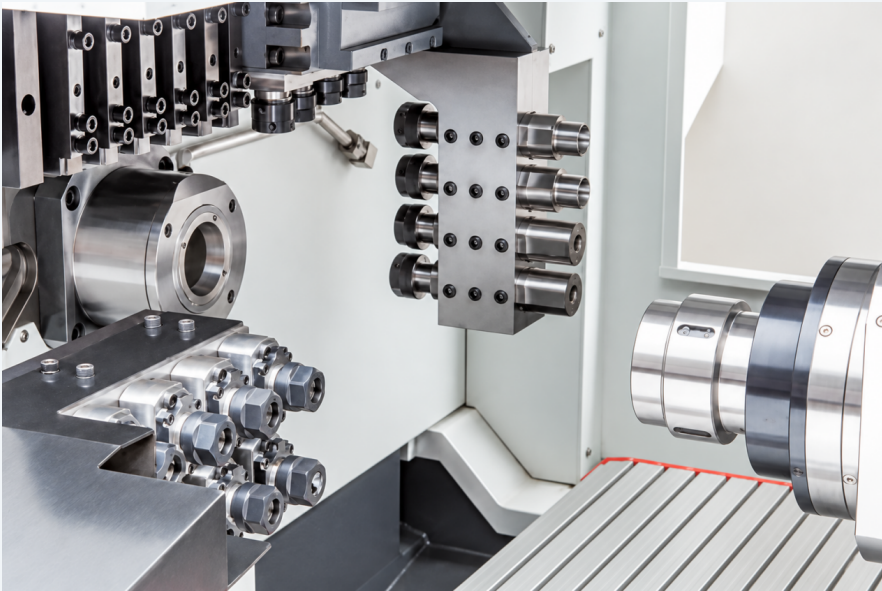
AT A GLANCE

Main spindle runout ≤ 0.002 mm

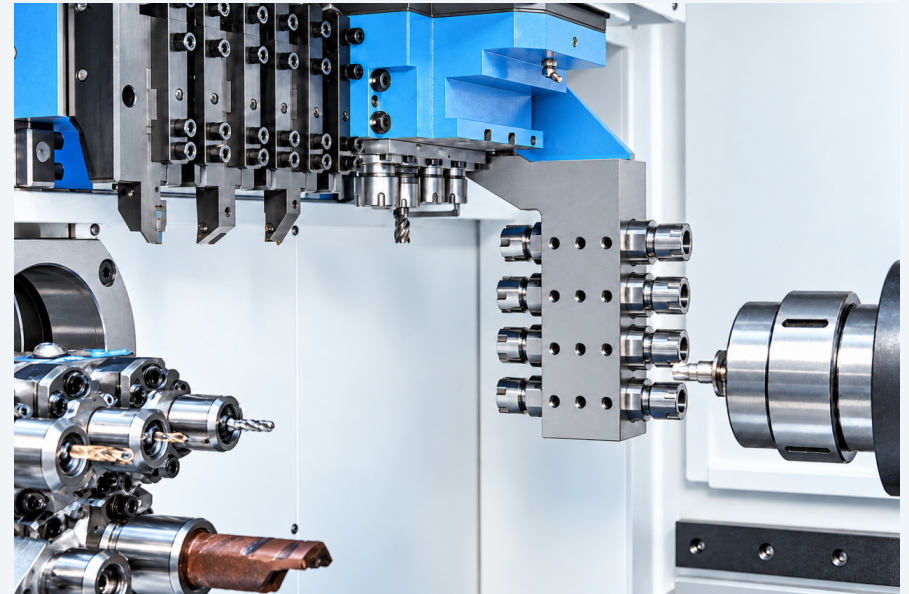
Repeat positioning accuracy ≤ 0.003 mm

Maximum bar diameter Ø32 / Ø38 mm

Rigid platform, flexible tooling



Work zone and main/back spindle layout



Linear tool stations and live-tool configuration

CONTROL

Taiwan Syntec dual-channel CNC is standard. FANUC or Mitsubishi controls are available as options.

STRUCTURE

High-rigidity Meehanite cast-iron bed and slides support stable cutting and long-term accuracy.

FEED & SPINDLE

Imported angular-contact spindle bearings; servo feed axes with imported precision screw and guideway components, plus roller guides at key positions.

For precision slender-part production



APPLICATIONS

Communications, electronics, automotive, pneumatic and hydraulic equipment, medical devices, instrumentation and aerospace. The series is suited to complex, small-diameter, precision and slender shaft components. Six-axis versions, multiple live-tool configurations and an optional bar feeder can be selected to match the part and production plan.

Machining capacity & spindle performance

SPECIFICATION	SL325	SL326	SL385	SL386
Maximum bar stock diameter	Ø32 mm	Ø32 mm	Ø38 mm	Ø38 mm
Main spindle through-hole diameter	Ø37 mm	Ø37 mm	Ø39 mm	Ø39 mm
Max. machining length - no guide bushing	2.5D (max. 80 mm)	2.5D (max. 80 mm)	2.5D (max. 90 mm)	2.5D (max. 90 mm)
Max. machining length - rotating guide bushing	310 mm	310 mm	310 mm	310 mm
Back spindle maximum bar diameter	Ø32 mm	Ø32 mm	Ø38 mm	Ø38 mm
Main spindle maximum drilling diameter	Ø13 mm	Ø13 mm	Ø13 mm	Ø13 mm
Main spindle maximum tapping size	M12	M12	M12	M12
Back spindle maximum drilling diameter	Ø10 mm	Ø10 mm	Ø10 mm	Ø10 mm
Back spindle maximum tapping size	M10	M10	M10	M10
Radial live-tool maximum drilling diameter	Ø10 mm	Ø10 mm	Ø10 mm	Ø10 mm
Radial live-tool maximum tapping size	M8	M8	M8	M8
Back live-tool maximum drilling diameter	Ø8 mm (optional)	Ø8 mm	Ø8 mm (optional)	Ø8 mm
Back live-tool maximum tapping size	M6 (optional)	M6	M6 (optional)	M6
Main spindle speed	8,000 rpm (6,000 with rotating guide bushing)	8,000 rpm (6,000 with rotating guide bushing)	6,000 rpm (rotary hydraulic cylinder)	6,000 rpm (rotary hydraulic cylinder)
Back spindle speed	8,000 rpm	8,000 rpm	8,000 rpm	8,000 rpm
Radial live-tool speed	6,000 rpm	6,000 rpm	6,000 rpm	6,000 rpm
Back live-tool speed	6,000 rpm (optional)	6,000 rpm	6,000 rpm (optional)	6,000 rpm

Optional items are marked. Specifications may change without notice.

Axes, tooling & machine data

SPECIFICATION	SL325	SL326	SL385	SL386
Rapid traverse - common axes	30 m/min (X2, Y1, Z1, Z2)	30 m/min (X2, Y1, Z1, Z2)	30 m/min (X2, Y1, Z2)	30 m/min (X2, Y1, Z2)
Rapid traverse - additional axes	24 m/min (X1)	24 m/min (X1, Y2)	24 m/min (X1, Z1)	24 m/min (X1, Y2, Z1)
Main spindle runout	≤0.002 mm	≤0.002 mm	≤0.002 mm	≤0.002 mm
Repeat positioning accuracy	≤0.003 mm	≤0.003 mm	≤0.003 mm	≤0.003 mm
External tools	6 × □16	6 × □16	1 × □20 + 5 × □16	1 × □20 + 5 × □16
End-machining tools	4 × ER20	4 × ER20	4 × ER20	4 × ER20
Radial live tools	1 × ER20 + 3 × ER16	1 × ER20 + 3 × ER16	1 × ER20 + 3 × ER16	1 × ER20 + 3 × ER16
Deep-hole tool holders	2 × ER16	2 × ER16	2 × ER16	2 × ER16
Back-machining tools	4 × ER16	4 × ER16	4 × ER16	4 × ER16
Back live tools	Optional	4 × ER16	Optional	4 × ER16
Main spindle motor	6.3 kW	6.3 kW	6.3 kW	6.3 kW
Back spindle motor	4.2 kW	4.2 kW	4.2 kW	4.2 kW
Linear-drive axis motor	1.1 kW (X1, X2, Y1, Z1, Z2)	1.1 kW (X1, X2, Y1, Z1, Z2)	1.1 kW (X1, X2, Y1, Z1, Z2)	1.1 kW (X1, X2, Y1, Z1, Z2)
Y2 axis motor	—	1 kW	—	1 kW
Radial live-tool motor	1.1 kW	1.1 kW	1.1 kW	1.1 kW
Back live-tool motor	1 kW (optional)	1 kW	1 kW (optional)	1 kW
Coolant pump	0.4 kW	0.4 kW	0.4 kW	0.4 kW
Machine weight	3,750 kg	3,750 kg	3,750 kg	3,750 kg
Overall dimensions (L × W × H)	2,960 × 1,660 × 1,920 mm	2,960 × 1,660 × 1,920 mm	3,100 × 1,660 × 1,920 mm	3,100 × 1,660 × 1,920 mm

Tooling notation: □ indicates a square tool shank. Optional configurations are marked. Specifications may change without notice.