

S205 / S206 / S265 / S266

A four-model platform for precision small-part production

BUILT FOR COMPLEX, SLENDER PARTS

Precision turning with flexible process configurations

- Four model options S205, S206, S265 and S266 configurations support different bar capacities and tooling requirements.
- Swiss-type or guide-bushing-free Switch between guide-bushing and no-guide-bushing operation to match the part and process.
- Turn, mill and drill Radial live tooling and main-spindle indexing support combined machining operations.
- Automation ready Add a bar feeder for continuous production.

AT A GLANCE

Main spindle runout ≤ 0.002 mm

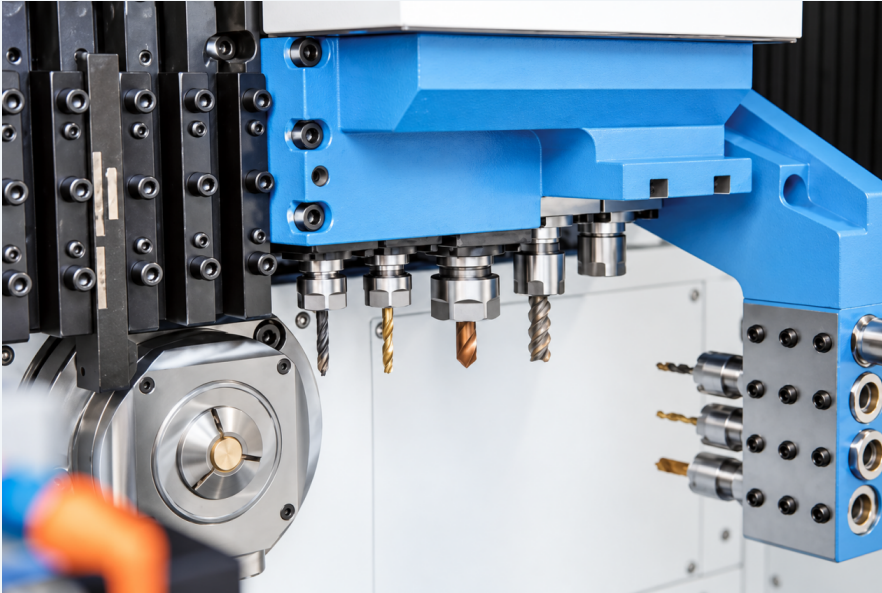
Repeat positioning accuracy ≤ 0.003 mm

Maximum bar diameter $\varnothing 20 / \varnothing 26$ mm

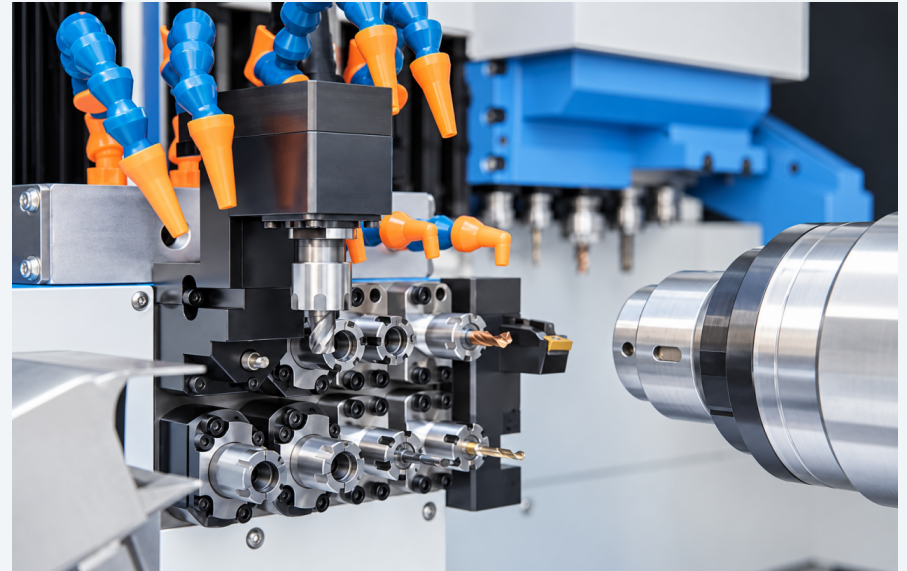


S206F SHOWN

A compact, capable machining zone



Linear tool arrangement and machining area



Main and back spindle machining 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.

Designed around demanding small components



APPLICATIONS

Communications, electronics, automotive, pneumatic and hydraulic equipment, medical devices, instrumentation and aerospace. The machine 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 workpiece and production plan.

Machining capacity & spindle performance

SPECIFICATION	S205	S206	S265	S266
Maximum bar stock diameter	Ø20 mm	Ø20 mm	Ø26 mm	Ø26 mm
Main spindle through-hole diameter	Ø25 mm	Ø25 mm	Ø30 mm	Ø30 mm
Max. machining length - no guide bushing	2.5D (max. 50 mm)	2.5D (max. 50 mm)	2.5D (max. 50 mm)	2.5D (max. 50 mm)
Max. machining length - fixed guide bushing	220 mm (optional)	220 mm (optional)	220 mm (optional)	220 mm (optional)
Max. machining length - rotating guide bushing	180 mm	180 mm	180 mm	180 mm
Back spindle maximum bar diameter	Ø20 mm	Ø20 mm	Ø26 mm	Ø26 mm
Main spindle maximum drilling diameter	Ø10 mm	Ø10 mm	Ø10 mm	Ø10 mm
Main spindle maximum tapping size	M10	M10	M10	M10
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	Ø8 mm	Ø8 mm	Ø8 mm	Ø8 mm
Radial live-tool maximum tapping size	M6	M6	M6	M6
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	10,000 rpm (8,000 rpm with rotating guide bushing)	10,000 rpm (8,000 rpm with rotating guide bushing)	10,000 rpm (8,000 rpm with rotating guide bushing)	10,000 rpm (8,000 rpm with rotating guide bushing)
Back spindle speed	10,000 rpm	10,000 rpm	10,000 rpm	10,000 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 configurations are marked. Specifications may be changed without notice.

Axes, tooling & machine data

SPECIFICATION	S205	S206	S265	S266
Rapid traverse - common axes	24 m/min (X2, Y1, Z1, Z2)	24 m/min (X2, Y1, Z1, Z2)	24 m/min (X2, Y1, Z1, Z2)	24 m/min (X2, Y1, Z1, Z2)
Rapid traverse - X1 / Y2	20 m/min (X1)	20 m/min (X1, Y2)	20 m/min (X1)	20 m/min (X1, Y2)
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	1 × □16 + 6 × Ø12	1 × □16 + 6 × Ø12	1 × □16 + 6 × Ø12	1 × □16 + 6 × Ø12
End-machining tools	4 × ER16	4 × ER16	4 × ER16	4 × ER16
Radial live tools	2 × ER11 + 3 × ER16	2 × ER11 + 3 × ER16	2 × ER11 + 3 × ER16	2 × ER11 + 3 × ER16
Deep-hole tool holder	2 × ER16 (optional)	2 × ER16 (optional)	2 × ER16 (optional)	2 × ER16 (optional)
Back-machining tools	4 × ER16	4 × ER16	4 × ER16	4 × ER16
Back live tools	Optional	4 × ER16	Optional	4 × ER16
Back tool holder	—	2 × □16 (optional)	—	2 × □16 (optional)
Main spindle motor	4.2 kW	4.2 kW	4.2 kW	4.2 kW
Back spindle motor	4.2 kW	4.2 kW	4.2 kW	4.2 kW
Direct-drive axis motor	1 kW	1 kW	1 kW	1 kW
Radial live-tool motor	1 kW	1 kW	1 kW	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	2,900 kg	3,000 kg	2,900 kg	3,000 kg
Overall dimensions (L × W × H)	2,565 × 1,350 × 1,850 mm	2,565 × 1,350 × 1,850 mm	2,565 × 1,350 × 1,850 mm	2,565 × 1,350 × 1,850 mm

Tooling symbols: □ indicates a square tool shank. Optional configurations are marked in the source specification.