

PD20II / PDJ20II / PD30II / PDJ30II



PDJ30II SHOWN

FOUR MODEL OPTIONS

Choose 20 mm or 30 mm bar capacity, with FANUC or Syntec control configurations.

- High-speed spindle Up to 8,000 rpm on 20-series models and 6,000 rpm on 30-series models.
- Compact precision Built-in electric spindle with imported angular-contact bearings.
- Fast axis travel X/Z rapid traverse up to 24 m/min.
- Automation ready Optional bar feeder or custom loading/unloading robot.

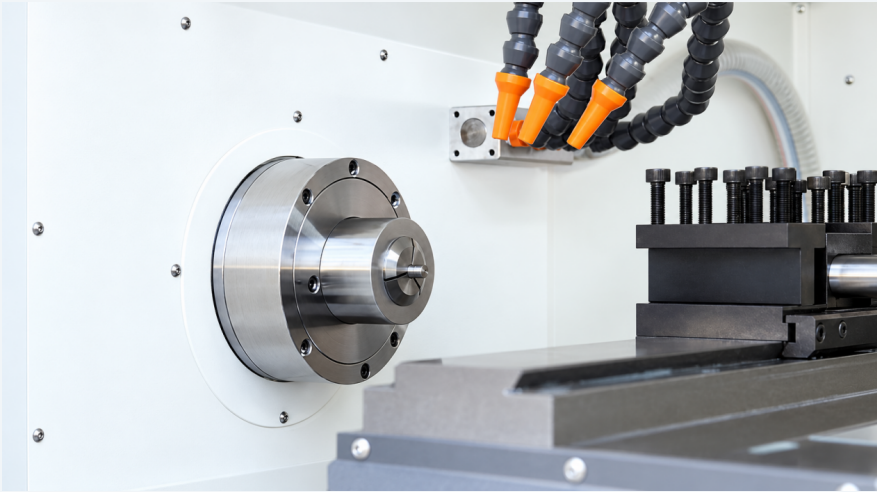
KEY PERFORMANCE

Spindle runout ≤ 0.002 mm

Repeat positioning $\leq 0.002 / 0.003$ mm

Bar capacity $\varnothing 20 / \varnothing 30$ mm

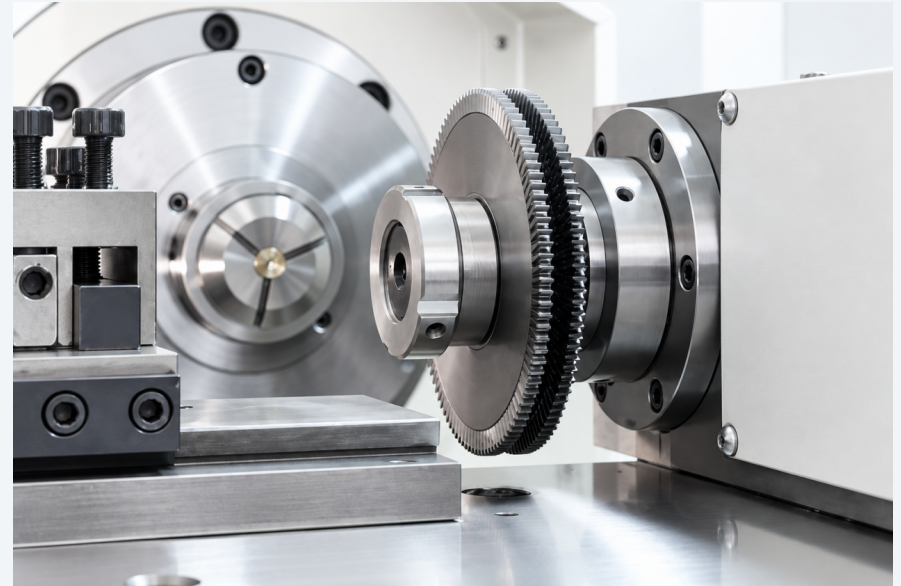
Spindle accuracy and efficient cutting



Built-in spindle and dovetail tool-post area

BUILT-IN ELECTRIC SPINDLE

Imported ultra-precision angular-contact ball bearings in a three-front / two-rear arrangement support spindle rigidity and accuracy retention. Specified spindle runout: $\leq 2 \mu\text{m}$.



Gear-cutting operation inside the machine

DOVETAIL TOOL LAYOUT

The dovetail tool-post arrangement supports fast, accurate tool changes and helps reduce cycle time. All feed axes are servo-driven for consistent positioning.

A compact platform for efficient production

CONTROL OPTIONS

PD20II and PD30II use FANUC CNC. PDJ20II and PDJ30II use Taiwan Syntec CNC. Both control configurations are specified for stable, accurate operation.

RIGID MACHINE STRUCTURE

A high-quality Meehanite cast-iron bed and slides provide a rigid, stable platform for machining.

PRECISION SERVO FEED

Imported precision screw bearings and guideways support accuracy retention. Repeat positioning accuracy is $\leq 3 \mu\text{m}$ in the product description; model-specific values are listed in the table.

FAST, ACCURATE TOOL CHANGES

The dovetail tool-post layout enables quick, accurate tool changes and can reduce machining time.

AUTOMATION

Configure a bar feeder or a custom automatic loading/unloading robot for continuous production.

APPLICATIONS

Communications, electronics, automotive, pneumatic and hydraulic equipment, medical devices, instrumentation and aerospace. Intended for efficient machining of small, compact and precision components.

CONFIGURATION GUIDE

Select PD20II / PDJ20II for Ø20 mm bar capacity or PD30II / PDJ30II for Ø30 mm bar capacity. FANUC is standard on PD20II / PD30II; Syntec is standard on PDJ20II / PDJ30II.

Four-model specification comparison

SPECIFICATION	PD20II	PDJ20II	PD30II	PDJ30II
Maximum swing over bed	Ø300 mm	Ø300 mm	Ø300 mm	Ø300 mm
Maximum swing over cross slide	Ø130 mm	Ø130 mm	Ø130 mm	Ø130 mm
Maximum bar stock diameter	Ø20 mm	Ø20 mm	Ø30 mm	Ø30 mm
Main spindle through-hole diameter	Ø21 mm	Ø21 mm	Ø31 mm	Ø31 mm
Maximum machining length	100 mm	100 mm	100 mm	100 mm
Main spindle motor	3.1 kW	3.1 kW	4.2 kW	4.2 kW
Maximum spindle speed	8,000 rpm	8,000 rpm	6,000 rpm	6,000 rpm
Main spindle runout	≤ 0.002 mm	≤ 0.002 mm	≤ 0.002 mm	≤ 0.002 mm
Spindle center height	1,000 mm	1,000 mm	1,000 mm	1,000 mm
Maximum drilling diameter	Ø10 mm	Ø10 mm	Ø10 mm	Ø10 mm
Maximum tapping size	M8	M8	M10	M10
Turning tool holder size	□16 mm	□16 mm	□16 mm	□16 mm
Maximum boring bar diameter	Ø25 mm	Ø25 mm	Ø25 mm	Ø25 mm
X-axis travel	260 mm (radius)	260 mm (radius)	320 mm (radius)	320 mm (radius)
Z-axis travel	270 mm	270 mm	270 mm	270 mm
X / Z rapid traverse	24 m/min	24 m/min	24 m/min	24 m/min
X-axis motor torque	3.5 N·m	3.5 N·m	3.5 N·m	3.5 N·m
Z-axis motor torque	3.5 N·m	3.5 N·m	3.5 N·m	3.5 N·m
Repeat positioning accuracy	≤ 0.002 mm	≤ 0.003 mm	≤ 0.002 mm	≤ 0.003 mm
Machine weight	1,300 kg	1,300 kg	1,400 kg	1,400 kg
Overall dimensions (L × W × H)	1,490 × 1,300 × 1,680 mm	1,490 × 1,300 × 1,680 mm	1,490 × 1,400 × 1,680 mm	1,490 × 1,400 × 1,680 mm

Specifications may be changed without notice. □ denotes a square tool shank.