

TM32 CNC Turning and Milling Center

A compact multi-operation platform for precision small-part production.



TM32 machine overview

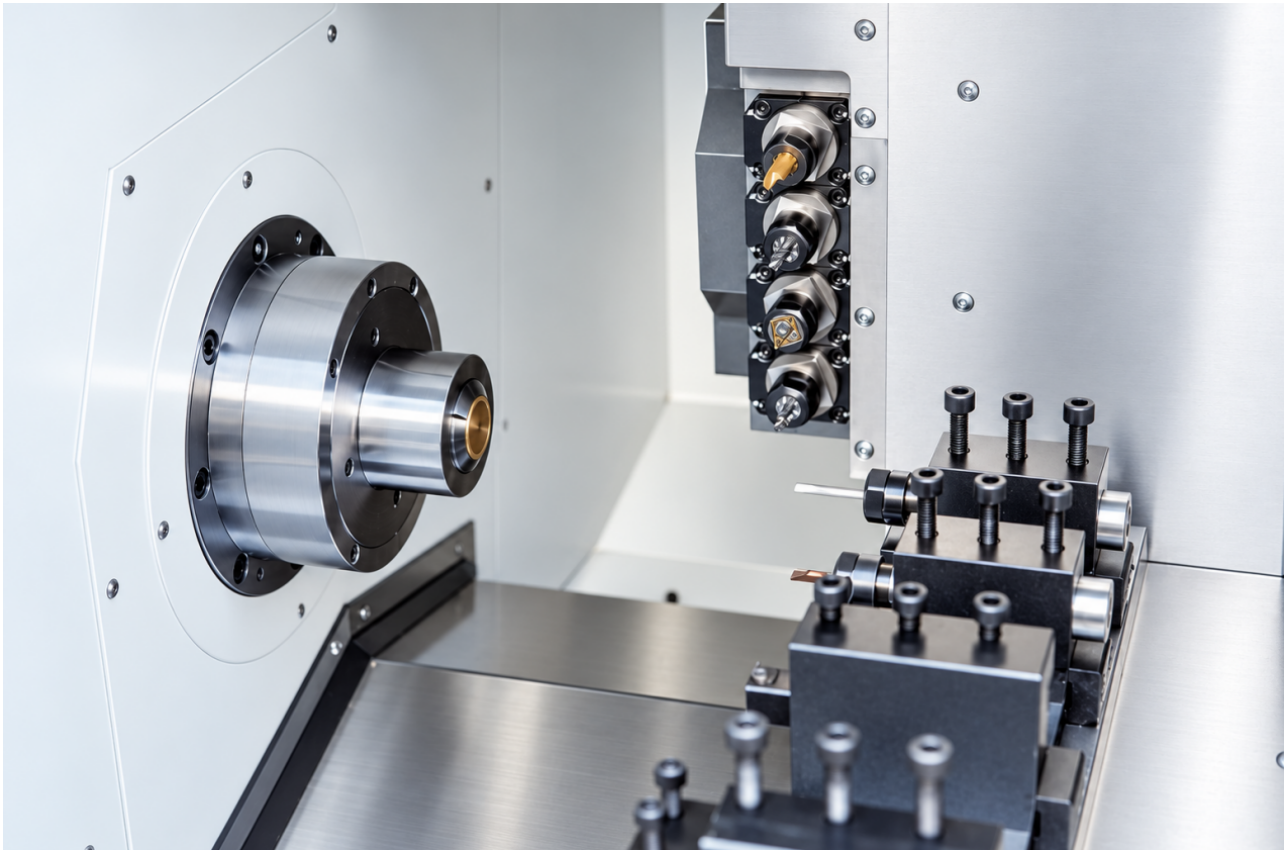
Ø32 mm	200 mm	6,000 rpm
Maximum bar capacity	Maximum machining length	Maximum spindle speed

Designed for turning, milling, drilling and tapping operations on compact, high-precision components. Final machine configuration should be confirmed against the customer part, material and process requirements.

MACHINE DETAIL

Multi-operation machining in one setup

The work zone combines a spindle, gang-tool arrangement and live-tool capability to support a range of complex small-part operations. The supplied configuration lists three end-face and four side-mounted live-tool units.



Spindle and tooling area shown in the supplied machine photograph

Precision spindle	High-speed servo spindle with imported ultra-precision angular-contact bearings; stated spindle runout is below 2 μm.
Live tooling	Up to 5,000 rpm; ER16 interface. The parameter list specifies three end-face and four side-mounted units.
Fast axis motion	X/Y/Z rapid traverse rates are listed as 24/18/24 m/min.
Automation ready	Can be configured with an automatic bar feeder or an automatic loading/unloading mechanism for continuous production.

ENGINEERING FEATURES

Built for accuracy and repeatable production

The following points translate and organize the capability statements in the supplied material. They describe the stated configuration and should be verified for the specific machine quotation.

01	CNC control	XinDai high-end CNC system. The source describes five-axis capability with four-axis simultaneous control.
02	Precision spindle	High-speed precision servo spindle with imported ultra-precision angular-contact bearings. Stated spindle runout: <2 μm.
03	High-speed machining	Maximum spindle speed: 6,000 rpm. X- and Z-axis rapid traverse: up to 24 m/min.
04	Rigid machine bed	Stable structural design with a one-piece Meehanite cast-iron bed for high rigidity.
05	Precision feed system	Servo drive on all feed axes, imported precision roller screws and linear guides, and automatic lubrication. Stated repeat positioning accuracy: <3 μm.
06	Gang-tool layout	Gang-type tool arrangement supports fast, accurate tool changes and reduced non-cutting time.
07	Live-tool configuration	The source lists four side-mounted and three end-face live-tool units, with a maximum speed of 5,000 rpm.
08	Automation options	An automatic bar feeder or automatic loading/unloading system can be configured to support continuous machining.
09	Typical applications	Complex, small and precision components for communications, electronics, automotive, toys, medical devices, instrumentation and aerospace.

Capability statements above are translated from the supplied source material; no unlisted performance guarantees have been added.

TECHNICAL DATA

TM32 technical parameters

Values below reproduce the supplied parameter sheet. Confirm the final configuration, tolerances and options with the machine supplier before ordering.

GROUP	PARAMETER	VALUE
Spindle	Maximum bar capacity	Ø32 mm
Spindle	Spindle through-hole diameter	Ø33 mm
Spindle	Maximum machining length	200 mm
Spindle	Spindle power	6.3 kW
Spindle	Maximum spindle speed	6,000 rpm
Spindle	Spindle runout	0.002 mm
Spindle	C-axis resolution	0.001°
Spindle	Maximum drilling diameter	Ø12 mm
Spindle	Maximum tapping size	M10
Spindle	Spindle center height	1,050 mm
Slides	X/Y/Z rapid traverse	24 / 18 / 24 m/min
Slides	X/Y/Z travel	360 (radius) / 170 / 360 mm
Slides	Repeat positioning accuracy	0.003 mm
Tooling	OD turning tool size	□16 mm
Tooling	Maximum boring bar diameter	Ø25 mm
Tooling	Live-tool units	3 end-face / 4 side-mounted
Tooling	Live-tool interface	ER16
Tooling	Maximum live-tool speed	5,000 rpm
Machine	Machine weight	1,950 kg
Machine	Overall dimensions (L × W × H)	1,720 × 1,350 × 1,680 mm

Note: The source states that parameters may change without prior notice. Check the current data sheet and confirm optional equipment before placing an order.