

VT1000EX

Large Vertical CNC Lathe

Achieving heavy-duty, long and continuous cutting of large, difficult-to-cut workpieces. Dramatically improving productivity in turning applications for the aerospace and other industries.

For heavy cutting of large, difficult-to-cut parts Reinforced spindle

· Spindle motor output: 55 kW Spindle nose: ø380 flat

· Spindle dia:

ø260 mm (spindle speed: 10 to 800 min⁻¹)

■ Structural reinforcement · Highly rigid box slide guideways

· Stronger clamp coupling for the turning-dedicated H1 turret

Stronger axial thrust

· X-axis: 30 kN, Z-axis: 30 kN

Achieving continuous long-run operation ■ With ATC

Tool shank: BT50

· Tool magazine storage: 36 tools

Chip discharge

· Large chip drop opening, stainless steel chute

· Large flow chip flusher

OPEN POSSIBILITIES



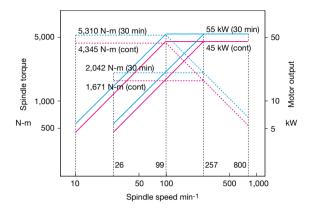
■ Cutting capacity: Inconel 6.7 mm² (actual data) ■ Machine Specifications

Note: The "actual data" referred to above for this brochure represent examples, and may not be obtained due to differences in specifications, tooling, cutting condition, and others.

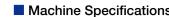
Spindle output/torque diagram

800 min⁻¹ Speed

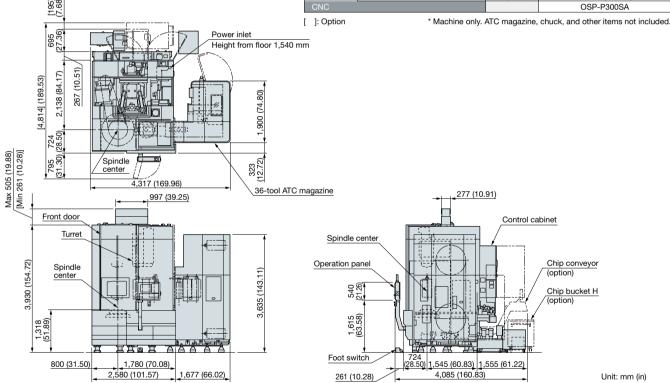
55/45 kW (30 min/cont) Max output Max torque 5,310/4,345 N-m (30 min/cont)



■ Dimensional/Installation Drawing



	Item	Unit	VT1000EX
Capacity	Max turning diameter	mm (in)	ø1,000 (39.37)
	Max swing diameter	mm (in)	ø1,000 (39.37)
	Max work length (height)	mm (in)	1,000 (39.37)
	Max workpiece mass (w/ chuck)	kg (lb)	2,000 (4,400)
	Height from floor to spindle nose	mm (in)	1,318 (51.89)
Travel	X-axis	mm (in)	650 (25.59)
	Z-axis	mm (in)	1,000 (39.37)
Spindle	Speed	min ⁻¹	10 to 800
	Speed range		Auto 2-speed (2 gears)
	Nose type		ø380 flat
	Bore diameter	mm (in)	ø110 (4.33)
	Front bearing diameter	mm (in)	ø260 (10.24)
Turret	Turret type		Turning-dedicated H1 ATC
	No. of tools	tools	1
	OD tool shank dimension	mm (in)	□25, □32 (1, 1-1/4)
	ID tool shank diameter	mm (in)	ø40, ø50 (1.57, 1.97)
ATC	Tool shank		BT50 [CAPTO C8, HSK-A100]
	Magazine capacity	tools	36
	Tool selection		Fixed adress type
	Max tool diameter	mm (in)	ø170 (6.69) (with adjacent tool)
			ø290 (11.42) (w/o adjacent tool)
	Max length	mm (in)	500 (19.69) (from gauge line)
	Max tool mass	kg (lb)	30 (66)
Feed rate	Rapid traverse X, Z-axis	m/min	X: 16, Z: 16
Motor	Spindle drive	kW (hp)	55/45 (75/60) (30 min/cont)
	Axis drive motor	kW (hp)	X: 6.4 (8.53), Z: 4.6 (6.13)
	Coolant pump motor	kW (hp)	Turret: 1.5 (2)
	(50 Hz/60 Hz)		In-machine wash: L1.1 (1.5)/R1.1 (1.5)
Machine	Height	mm (in)	4,435 (174.61)
size	Floor space (length × width)	mm×mm (in)	4,317 × 4,085 (169.96 × 160.83)
	Mass*	kg (lb)	19,000 (41,800)
CNC			OSP-P300SA



When using Okuma products, always read the safety precautions mentioned in the instruction manual and attached to the product.



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