



DN MULTI AXIS TURNING CENTER

DNX

2100/S



MACHINING AREA

Precision has been improved by applying a stable orthogonal structure, and the machining area has been expanded to the maximum in the same class.

Maximized X-axis, Y-axis machining area through orthogonal structure design

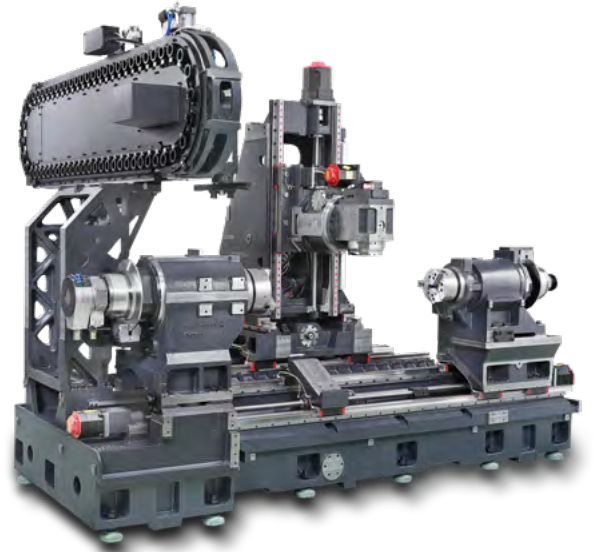
Wide X-axis, Y-axis enables machining of parts of various sizes/shapes, making machining programming and set-up easier.

X-axis machining area

760 mm (-20/+740mm)
29.9 inch (-0.8/+29.1 inch)

Y-axis machining area

230 mm (± 115 mm)
9.1 inch (± 4.5 inch)



Extended machining area

Extended area enable various machining of large and long materials, and make it easy for users to access inside for set-up.

(A) Max. machining diameter

520 mm 20.5 inch

(B) Max. machining length

1100 mm 43.3 inch



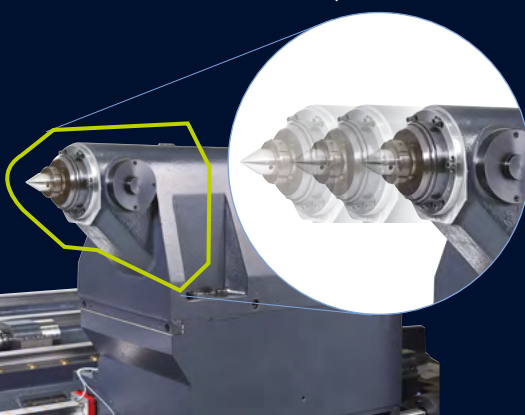
Tailstock

Easier and faster set-up of the tailstock using M-code programming (control servo motor and ballscrew).

Servo-driven tailstock

The servo-driven tailstock makes set-up faster and easier to complete. The operator inputs the proper M-code information into the control and the tailstock moves to its correct position automatically, by linear motion control of the servo motor and ballscrew. No manual adjustments are required.

Model	Tail stock travel mm (inch)	Max. quill thrust force kN	Tail stock center
DNX 2100	1160 (45.7)	7{10}	Live center #5 {Built-in dead center #4}



SPINDLE

Perfect combination of three high-performance spindles to ensure machining stability operating under various cutting conditions.

Milling spindle

12000 r/min

18.5 kW 24.8 Hp

Milling spindle taper

HSK-A63(T63)
{CAPTO C6}

Left spindle

Essential and performance package

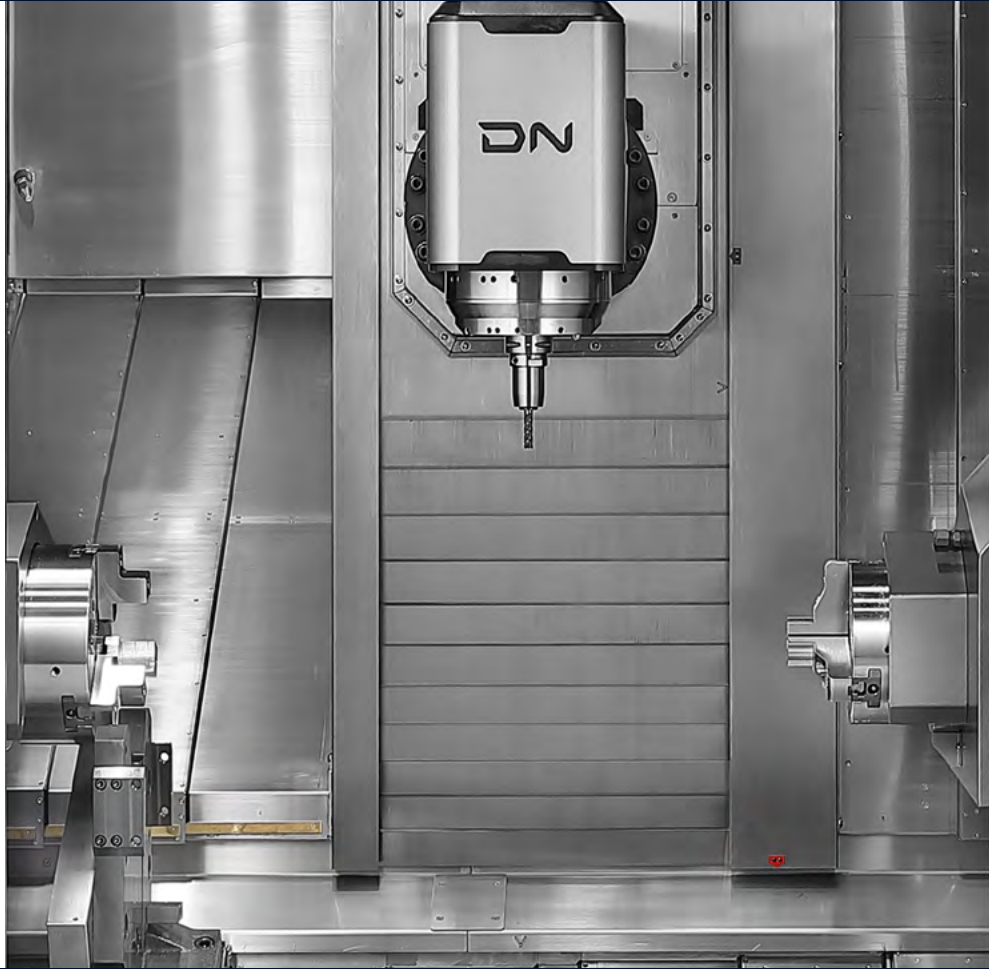
8 inch

Advanced package

10 inch

Right spindle

8 inch



AUTOMATIC TOOL CHANGER

The servo-driven ATC and servo tool magazine ensures fast and reliable tool indexing.

Tool storage

30 {60} tools

Max. tool length / weight

300 mm / **8** kg
11.8 inch / 17.6 lb

Max tool diameter

Continuous / Without Adjacent tools

78 / 125 mm
3.1 / 4.9 inch

Servo-driven ATC and tool magazine

The tool magazine capacity can be increased to 60 tools. Tools are selected by the random address method that helps reduce changeover times.



MACHINE SPECIFICATIONS

Item			Unit	DNX 2100		
Working area	Max. machining dia.		mm (inch)	520 (20.5)		
	Max. machining length			1100 (43.3)		
	Travel X			(-20/+740) (-0.8/+29.1)		
	Travel Y			±115 (±4.5)		
	Rapid Traverse (X,Y,Z)		m/min	36 / 36 / 36		
Tooling management	No. of tool stations		ea	30 {60}		
	Max. tool weight		kg (lb)	8 (17.6)		
	Dimension of tools D x L		mm (inch)	78 x 300 (3.1 x 11.8)		
	Dimension of tools W/O adjacent tools D x L			125 x 300 (4.9 x 11.8)		
Turning spindles	8"	Bore of draw tube		mm (inch)	68 (2.7)	
		Speed		r/min	5000	
		Spindle Nose		ASA	A2-6	
		Spindle bearing dia. Front		mm (inch)	110 (4.3)	
		Fanuc	Power S6 15% ED/S1		kW (Hp)	18.5/15 (24.8/20.1)
			Max Torque		N·m (ft·lbs)	326 (240.4)
	10"	Bore of draw tube		mm (inch)	82 (3.2)	
		Speed		r/min	4000	
		Spindle Nose		ASA	A2-8	
		Spindle bearing dia. Front		mm (inch)	130 (5.1)	
		Fanuc	Power S6 25% ED/S1		kW (Hp)	22/18.5 (29.5/24.8)
			Max Torque		N·m (ft·lbs)	456 (336.3)
Milling spindle	Speed		r/min	12000		
	Min. spindle indexing angle (B-axis)		deg	0.0001		
	Spindle bearing dia. Front		mm (inch)	70 (2.8)		
	Fanuc	Power S3 25% ED/S1		kW (Hp)	18.5/15 (24.8/20.1)	
		Max Torque		N·m (ft·lbs)	58 (42.8)	
		Spindle length		mm (inch)	420 (16.5)	
Machine design	Machine L x W x H		mm (inch)	5050 x 2803 x 2630 (198.8 x 110.4 x 103.5) w/Chip conveyor		
	Weight		kg (lb)	10500 (23150)		
	Ergonomy open door to spindle distance		mm (inch)	490 (19.3)		



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