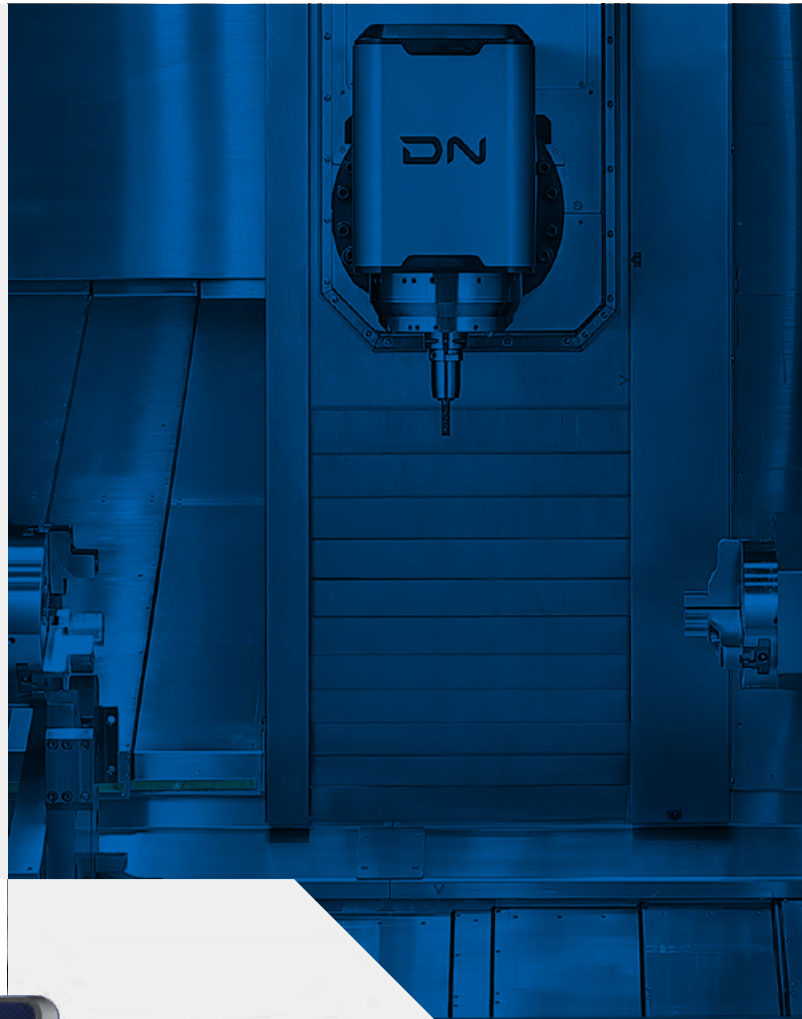


DN MULTI AXIS TURNING CENTER WITH 8 /10-INCH CHUCK SIZE

# **DNX 2100**

**DNX 2100/B**

**DNX 2100S/SB**



# 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

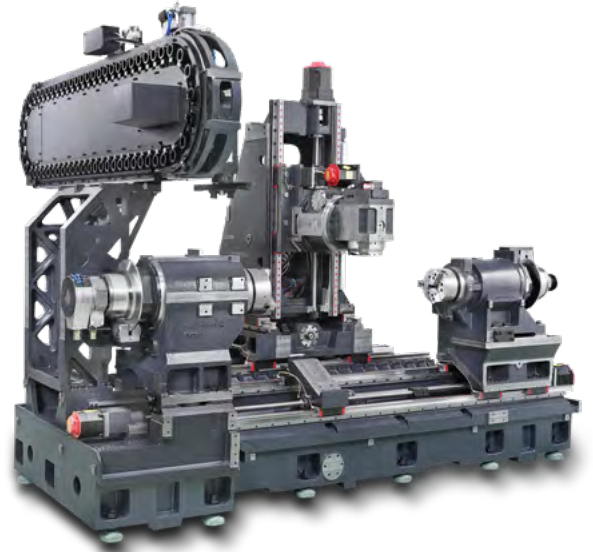
Wide X-axis, Y-axis enables machining of parts of various sizes/shapes, making machining programming and set-up easier.

### X-axis machining area

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

### Y-axis machining area

**230** mm ( $\pm 115$ mm)  
9.1 inch ( $\pm 4.5$  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



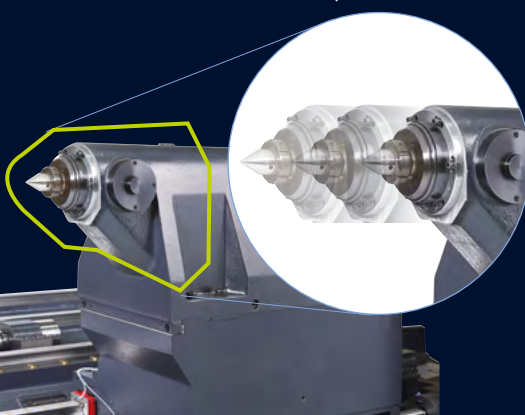
## Tailstock

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
<b>DNX 2100</b>	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

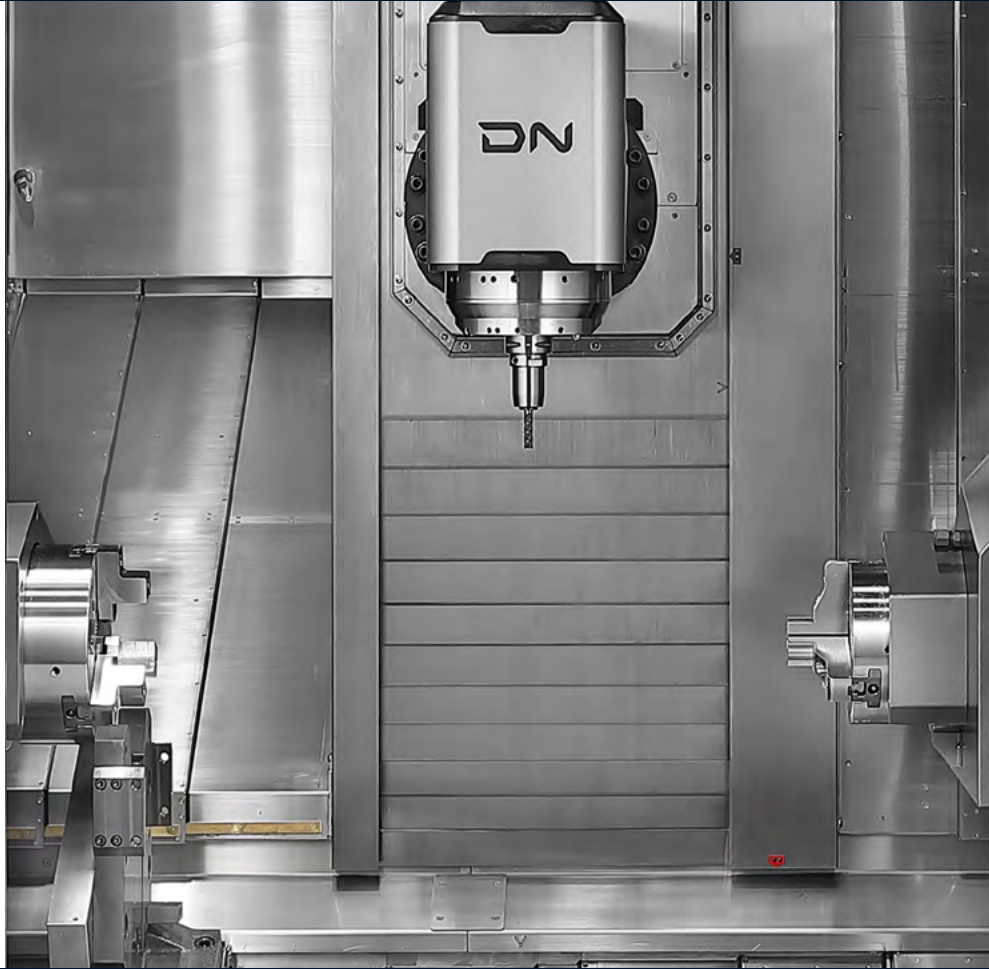
**8** inch

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	
<b>Working area</b>	Max. machining dia.	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	
<b>Tooling management</b>	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)	
<b>Turning spindles</b>	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)
	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)
<b>Milling spindle</b>	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)
<b>Machine design</b>	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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