



**TWIN SPINDLE TWIN TURRET
CNC LATHES SERIES**

TNC -N200DS/DS-B
TNC -N200DST/DST-B

- **EASY OPERATION**
- **ECONOMIC , HIGH EFFICIENCY**
- **MULTI FUNCTION**

CNC-TAKANG
CNC-TAKANG CO., LTD.
MANUFACTURER & EXPORTER

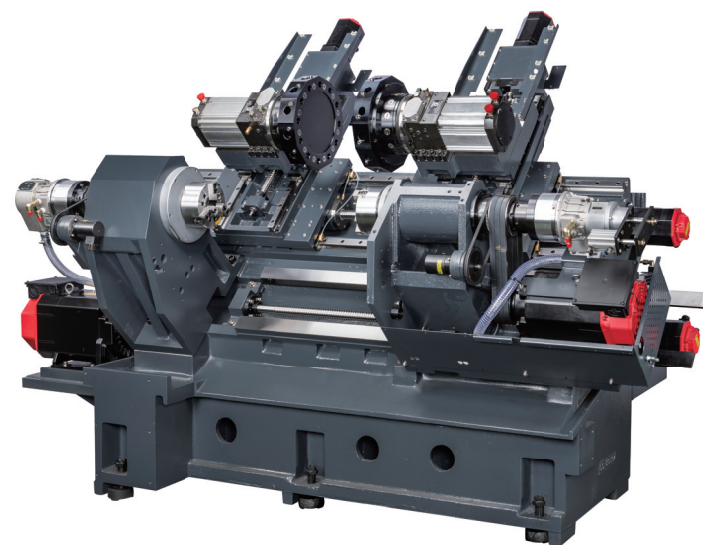
FORM

▼ FEATURES

- Slant bed with wider bedways, provide high accuracy and high performance
- Precision ballscrews in each axis, supported by angular roller bearing
- High position accuracy and repeatability
- Lower thermal deformation and vibration
- Forced lubrication system assure longer life time
- Automatic chip conveyor for easy chip sweep
- Guideways are used by linear motion guideway



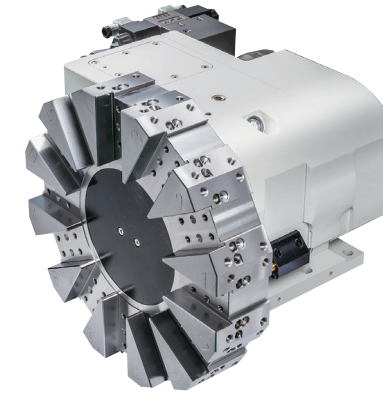
▲ TNC-N200DST with Y-axis (OPT.)



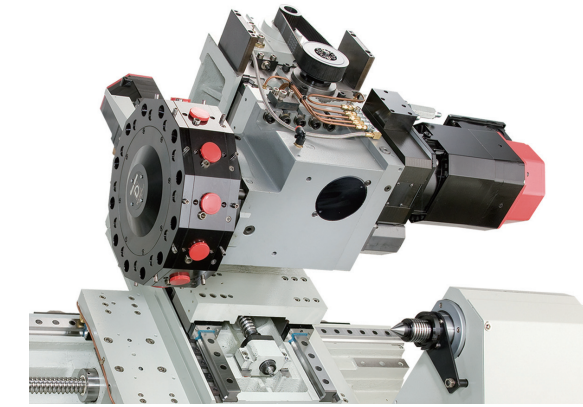
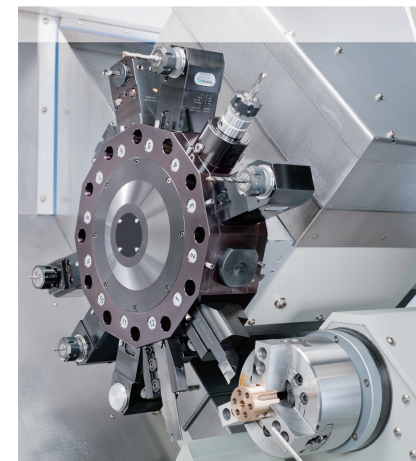
◀ OPTIMIZED STRUCTURE DESIGN THE ULTIMATE IN RIGIDITY AND STABILITY

The major machine parts, such as the base, saddle, headstock, slide and tailstock are made of meehanite cast iron and are tempered to relieve stress thereby ensuring lifetime accuracy.

High performance servo motors are directly coupled to the pre-tensioned ball screw.



▲ 12-POSITION SERVO TURRET



▲ Y AXIS TURRET (OPT.)

One-piece design of the Y axis base and X saddle for high accuracy structure configuration.

Fast indexing turret features with high repeat accuracy.

High rigidity turret better for front and back machining.

◀ POWER TURRET (OPT.)

Employs radial type disc, the radial VDI, a 12 position power turret with FANUC motor.

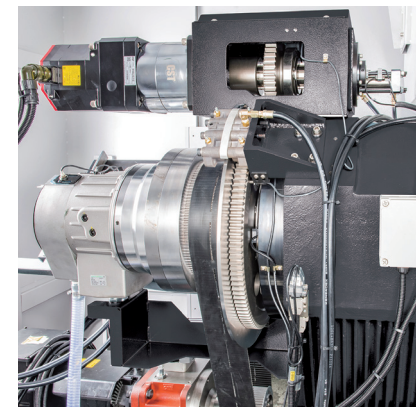
(Rotating tool holder and tools not included.)

High indexing resolution of 0.001 for precision contour / index control.

Hydraulic disk brake locking provides maximum stability during milling and contouring.

The unit allows front and back machining with fast tool change.

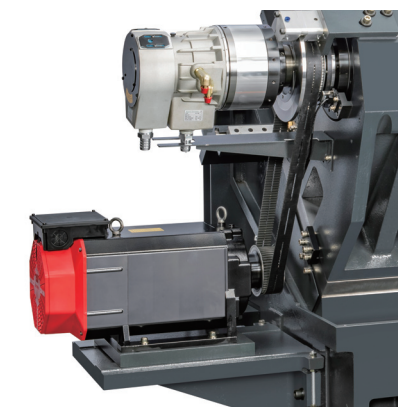
The turret disk and TD axis are driven by a motor.



◀ CF AXIS (OPT.)

CF axis with additional servo motor and gear box.

It has better rigidity for simulation milling.



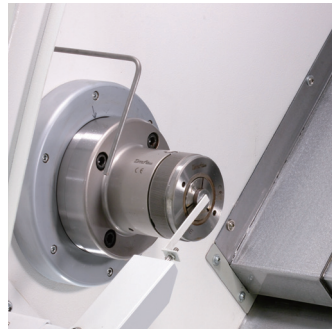
◀ CS AXIS (OPT.)

CS axis is driven by a servo spindle motor, it is suitable for spindle indexing and milling at position.



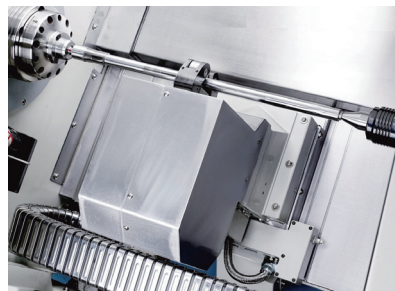
◀ SUB SPINDLE (OPT.)

Synchronization for main and sub spindle.
The workpiece can be machining at one time.



◀ PARTS CUT-OFF DETECTOR (OPT.)

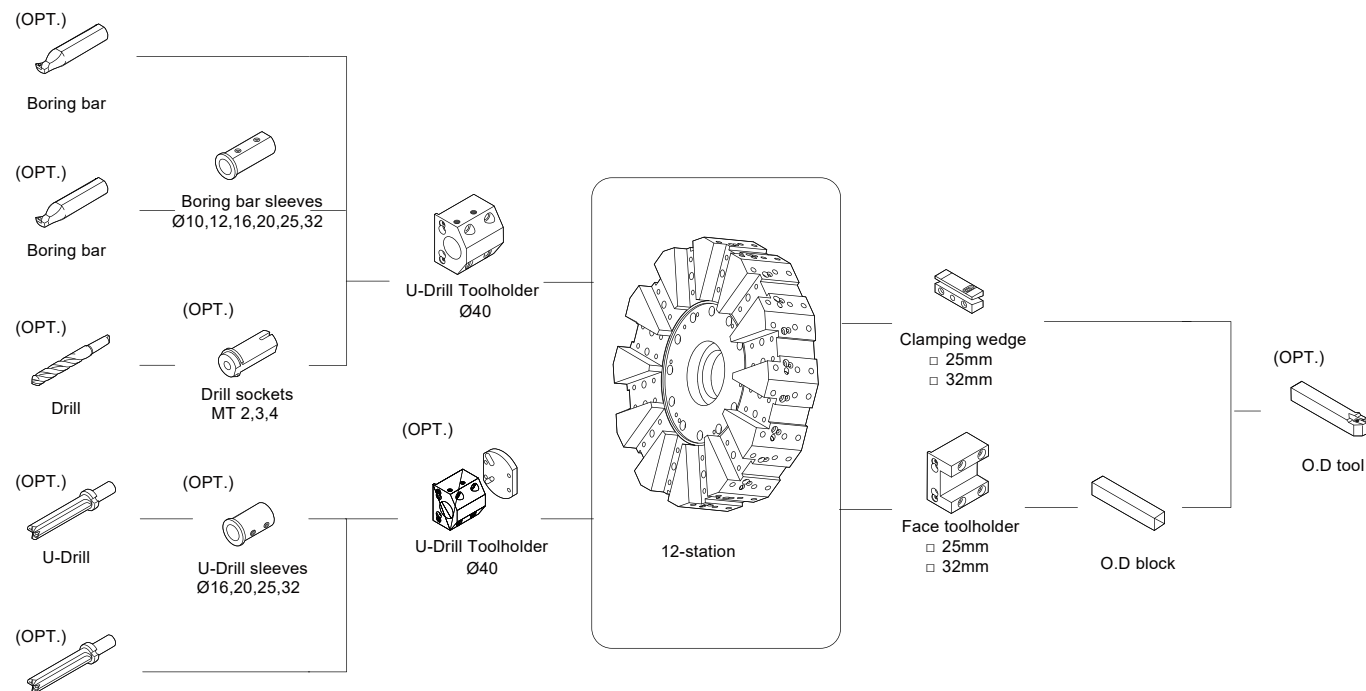
The detector is used for detecting if the part is completely cut off. It prevents cutting problems on twin spindles caused by cut-off failure.



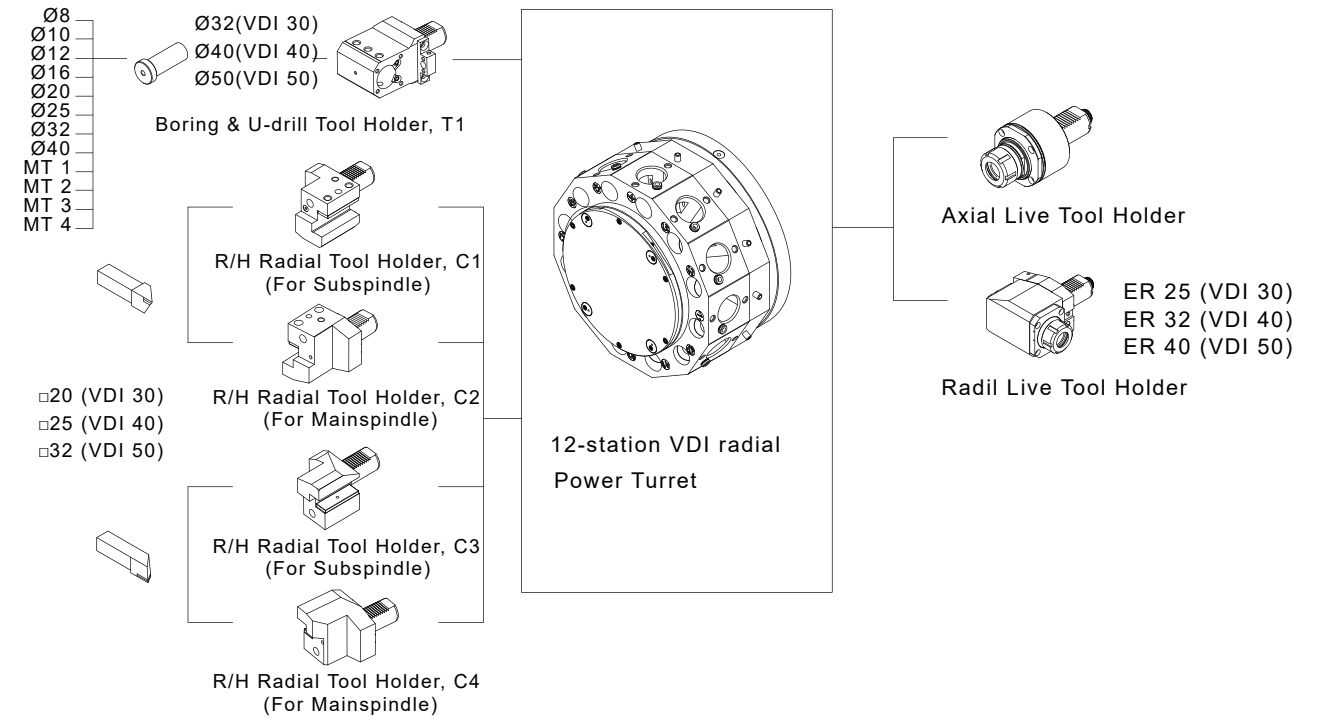
◀ HYDRAULIC STEADY REST (OPT.)

The standard hydraulic steady rest is manual base moving, there are programmable, and servo driven bases for options.

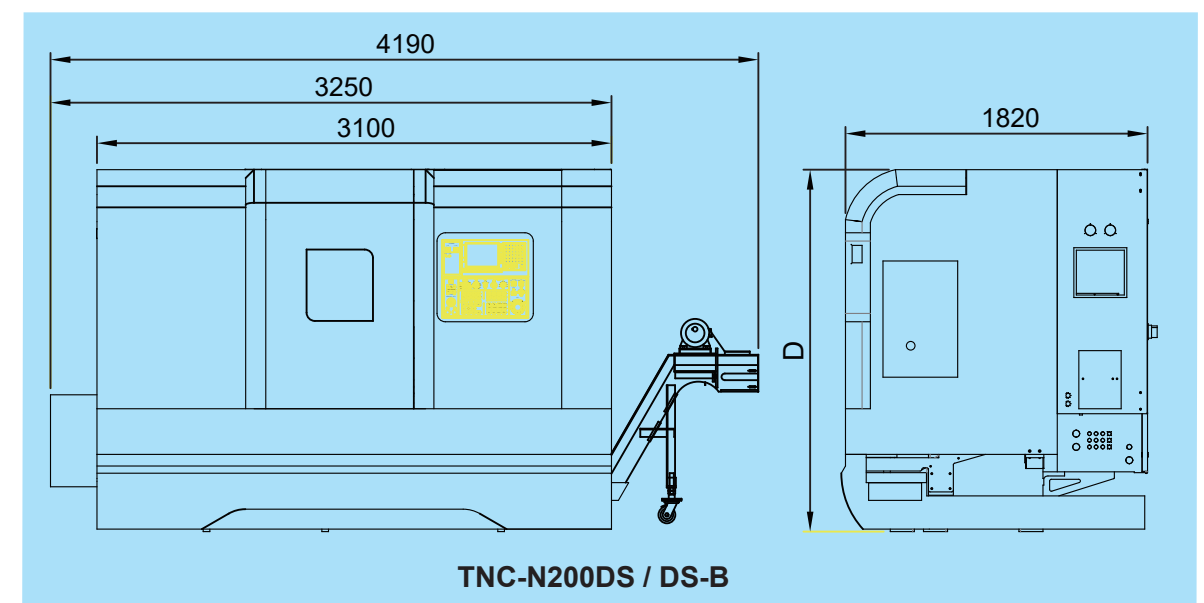
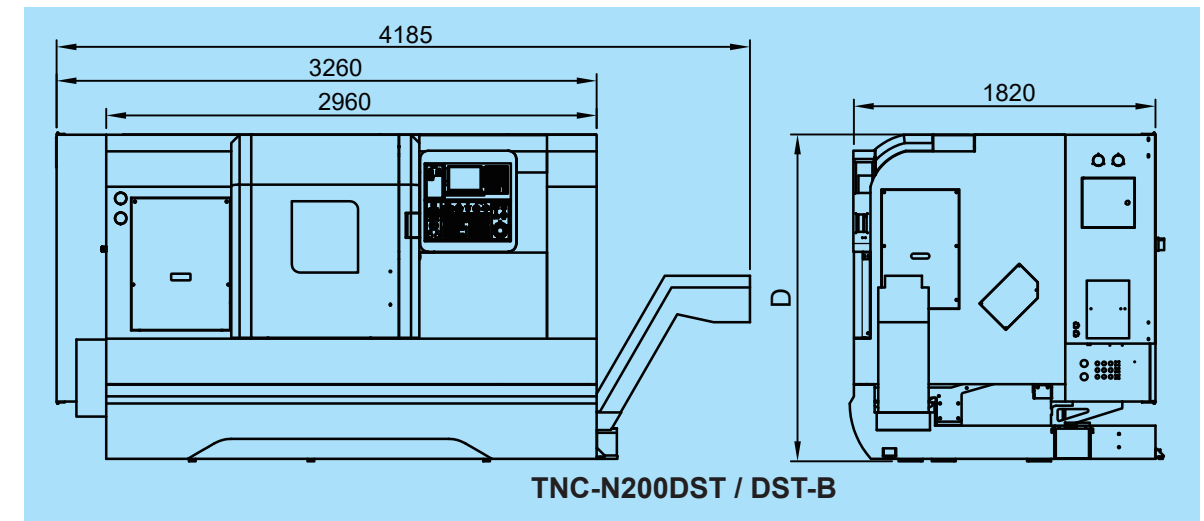
▼ DIRECT TYPE TURRET STD. TOOLING SYSTEM



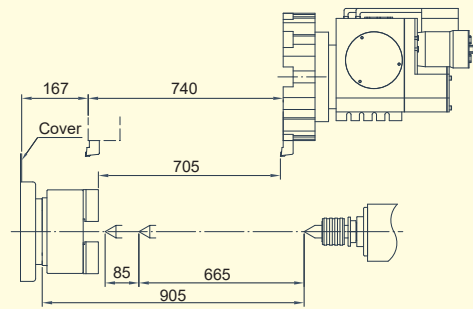
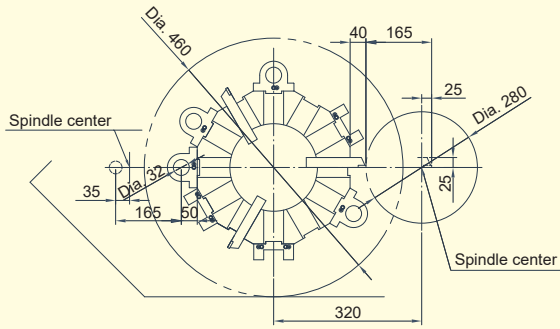
▼ VDI RADIAL TYPE OPT. TOOLING SYSTEM



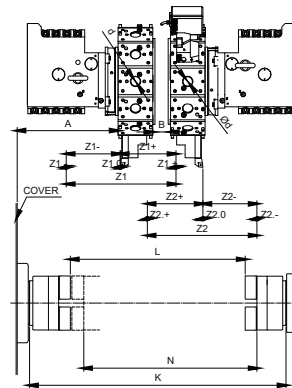
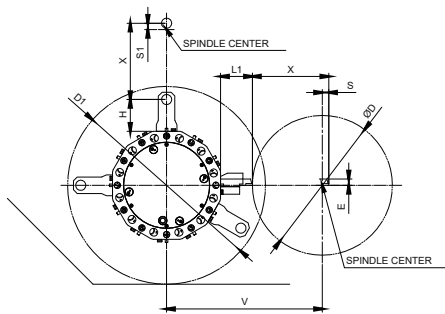
▼ FLOOR SPACE (Unit: mm)



▼ INTERFERENCE DRAWING (Unit: mm)

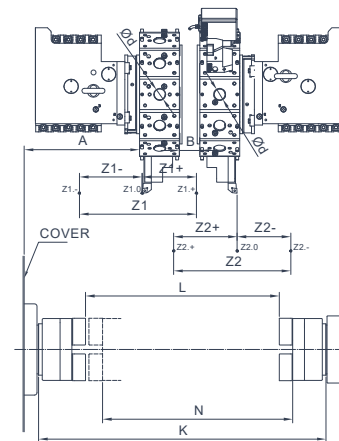
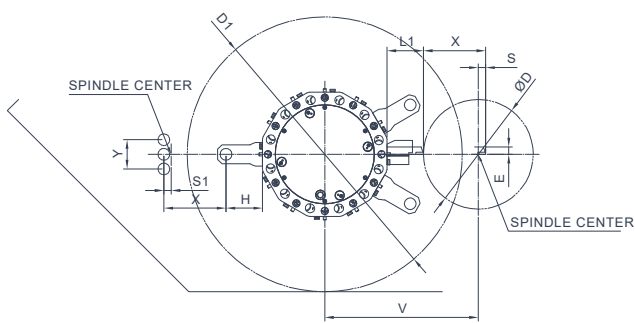


DIRECT TYPE TURRET HYDRAULIC / SERVO STD.



Model	A	B	Turning Dia. D	D1	VDI d	E	H	K	Turning L	L1	N	S	S1	V	Travel X	Z1	Z1+	Z1-	Z2	Z2+	Z2-
TNC-N200DST	317.5	56	440	600	30	20	100	806	550	100	545	20	20	490	240	345	175	170	345	175	170
TNC-N200DST-B	317.5	56	440	600	30	20	100	794	525	100	520	20	20	490	240	345	175	170	345	175	170

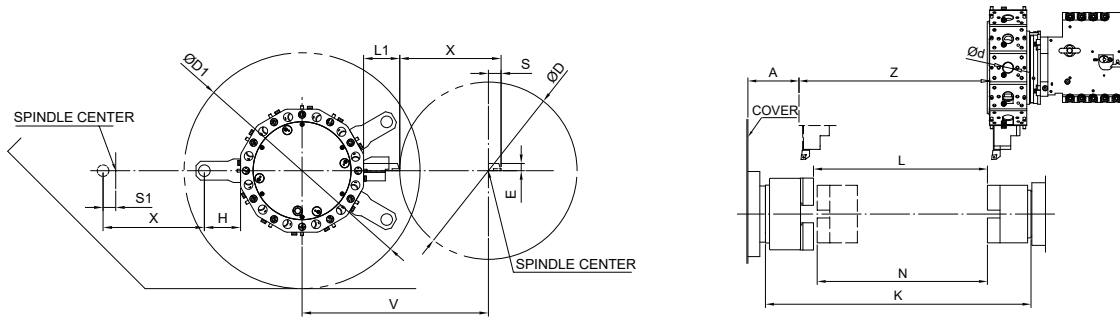
POWER TURRET / TWIN SPINDLE / TWIN TURRET / RADIAL MOUNTING OPT.



Model	A	B	Turning Dia. D	D1	VDI d	E	H	K	Turning L	L1	N	S	S1	V	Travel X	Y	Z1	Z1+	Z1-	Z2	Z2+	Z2-
TNC-N200DST	315.5	56	300	650	30	20	100	786	530	100	520	20	20	420	170	±40	320	148.5	171.5	320	173.5	146.5
TNC-N200DST-B	315.5	56	300	650	30	20	100	774	505	100	500	20	20	420	170	±40	295	148.5	146.5	295	148.5	146.5

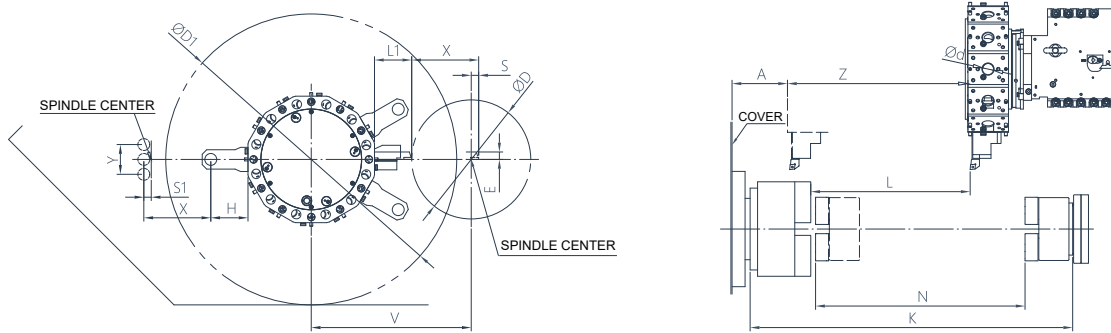
POWER TURRET / TWIN SPINDLE / TWIN TURRET / Y AXIS RADIAL MOUNTING OPT.

▼ INTERFERENCE DRAWING (Unit: mm)



Model	A	Turning Dia. D	D1	VDI d	E	H	K	Turning L	L1	N	S	S1	V	Travel X	Z
TNC-N200DS	132	250	640	30	20	100	836	560	100	560	40	40	395	165	610
TNC-N200DS-B	150	490	640	30	20	100	780	510	100	500	35	35	515	280	560

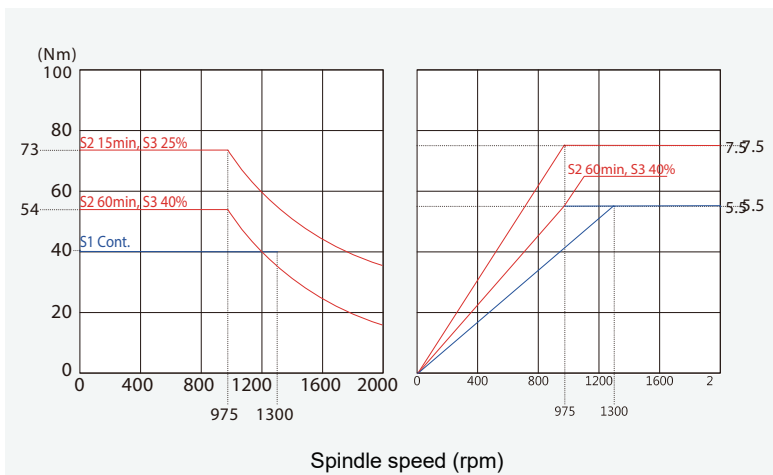
POWER TURRET / TWIN SPINDLE VDI RADIAL MOUNTING OPT.



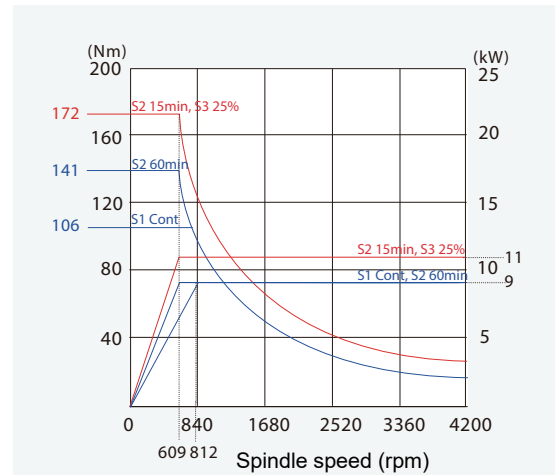
Model	A	Turning Dia. D	D1	VDI d	E	H	K	Turning L	L1	N	S	S1	V	Travel X	Y	Z
TNC-N200DS	160	300	680	30	20	100	790	492	100	550	25	25	420	175	±40	524
TNC-N200DS-B	160	300	680	30	20	100	780	467	100	500	25	25	420	175	±40	500

POWER TURRET / TWIN SPINDLE / Y AXIS VDI RADIAL MOUNTING OPT.

▼ SPINDLE OUTPUT



TNC-N200DS / DST



TNC-N200DS-B / DST-B

SPECIFICATIONS:

MODEL	DESCRIPTION	TNC-N200DS	TNC-N200DS-B	TNC-N200DST	TNC-N200DST-B	
Capacity	Swing over bed	Ø 600 mm (23.6")	Ø 650 mm (25.6")	Ø 620 mm (24.4")		
	Max. machining diameter	Ø 250 mm (9.8")	Ø 490 mm (19.3")	Ø 440 mm (17.3")		
	Max. machining length	Ø 260 mm (10.2") Max. 2060 mm (OPT)	Ø 510 mm (20") Max. 2010 mm (OPT)	Ø 550 mm (21.6") Max. 2050 mm (OPT)	Ø 525 mm (20.6") Max. 2050 mm (OPT)	
Main spindle (L)	Spindle nose	A2-5	A2-6	A2-5	A2-6	
	Spindle bore	Ø 56 mm (2.2")	Ø 61 mm (2.4")	Ø 56 mm (2.2")	Ø 61 mm (2.4")	
	Bar capacity	Ø 45 mm (1.8")	Ø 51 mm (2")	Ø 45 mm (1.8")	Ø 51 mm (2")	
	Spindle bearing (ID)	Ø 90 mm (3.5")	Ø 100 mm (3.9")	Ø 90 mm (3.5")	Ø 100 mm (3.9")	
	Hydraulic chuck	6"	8"	6"	8"	
	Spindle range	60 - 6000 rpm	42 - 4200 rpm	60 - 6000 rpm	42 - 4200 rpm	
Sub spindle (R)	Spindle nose	A2-5				
	Spindle bore	Ø 56 mm (2.2")				
	Bar capacity	Ø 45 mm (1.8")				
	Spindle bearing (ID)	Ø 90 mm (3.5")				
	Hydraulic chuck	6"				
	Spindle range	60 - 6000 rpm				
	E stroke	Ø 260 mm (10.2") Max. 2060 mm (OPT)	500 mm (19.7") Max. 2000 mm (OPT)	545 mm (21.4") Max. 1985 mm (OPT)	520 mm (20.4") Max. 1985 mm (OPT)	
	E axis rapid travel	20 M / min				
Turret	Tool number	12 Stations (Servo turret)		L: 12, R: 12 (Servo turret)		
	X axis travel: X1	165 mm (6.5")	280 mm (11")	L: 240 mm (9.4")	L: 240 mm (9.4")	
	X axis travel: X2			R: 240 mm (9.4")	R: 240 mm (9.4")	
	Z axis travel: Z1	310 mm (12.2") Max. 2110 mm (OPT)	560 mm (22") Max. 2060 mm (OPT)	L: 345 mm (13.5") Max. 1020 mm (OPT)	L: 345 mm (13.5") Max. 1020 mm (OPT)	
	Z axis travel: Z2			L: 345 mm (13.5") Max. 1020 mm (OPT)	L: 345 mm (13.5") Max. 1020 mm (OPT)	
	Y travel	+40 mm (OPT)		+40 mm (OPT)		
	Rapid travel: X1, X2	30 M / min (1181 ipm)		20 M / min (787 ipm)		
	Rapid travel: Z1, Z2	30 M / min (1181 ipm)		20 M / min (787 ipm)		
	Tool change time	0.2 sec		L & R: 0.2 sec		
	Tool holder	□ 20 mm		L & R: □ 20 mm		
	Max. boring bar	Ø 32 mm (1.3")		L & R: Ø 32 mm (1.3")		
	Motor	Main spindle motor	α12iP 5.5 / 7.5 kw	α18iP 9 / 11 kw	α12iP 5.5 / 7.5 kw	α18iP 9 / 11 kw
Sub spindle motor		FANUC α6i 5.5 / 7.5 kw				
X axis servo motor, X1 / E		α8iB 1.6 kw				
X axis servo motor, X2				α8iB 1.6 kw		
Z axis servo motor, Z1		α8i 1.6 kw				
Z axis servo motor, Z2				α8i 1.6 kw		
Hydraulic oil pump / Tank		1.5 kw (2 HP) / 60 Liter				
Coolant pump		750 W (1 HP) / 100 Liter				
Miscellaneous	Packing size	370 x 225 x 225 cm (145.7" x 88.6" x 88.6")	420 x 225 x 225 cm (165.4" x 88.6" x 88.6")	488 x 221 x 255 cm (192.1" x 87" x 100.4")	488 x 221 x 255 cm (192.1" x 87" x 100.4")	
	Machine weight	5830 kgs	7030 kgs	7830 kgs	8000 kgs	

※THE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

■ STANDARD ACCESSORIES:

1. Fanuc 0iTF PLUS controller
2. 12 stations servo turret
3. Hydraulic chuck and cylinder on main / sub spindle
4. Auto coolant, hydraulic and lubrication system
5. Chip conveyor
6. Work light
7. Tool box with tools and manuals

■ OPTIONS:

1. Extra bar capacity, hydraulic chuck and motor
2. Collet chuck
3. Soft jaws
4. Chuck air cleaner
5. Driving tool turret with C axis / spindle indexing
6. Driving tool turret with Y axis [stroke ±40 mm]
7. VDI driving tool holder
8. Tool presetter (Auto)
9. Auto door
10. Parts catcher for sub spindle
11. Bar feeder
12. Software for bar feeder (with relay)
13. Transformer (power supply except 220V)
14. CE mark

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