



CNC LATHES SERIES

TNC-10/10A/15 SERIES

TNC-20A/30N/40N SERIES

- *FAST TURRET INDEXING*
- *HIGH ACCURACY MACHINING &
LONGER LIFE TIME*
- *COMPLETE SPINDLE WITH PULLEYS
DYNAMIC BALANCE TEST*

CNC-TAKANG

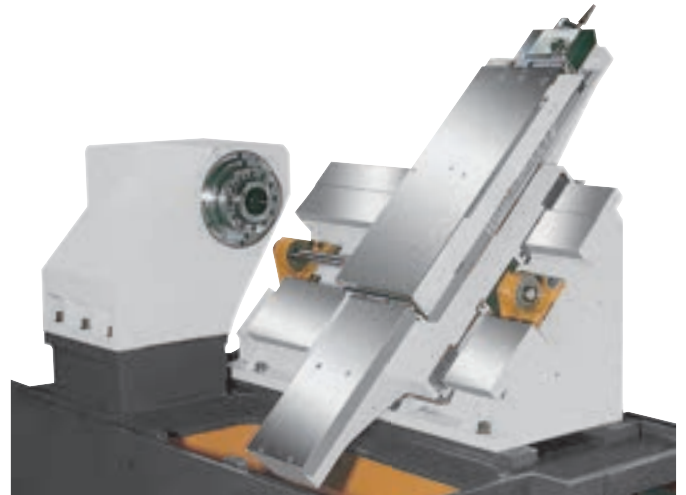
CNC-TAKANG CO., LTD.
MANUFACTURER & EXPORTER

CNC-TAKANG

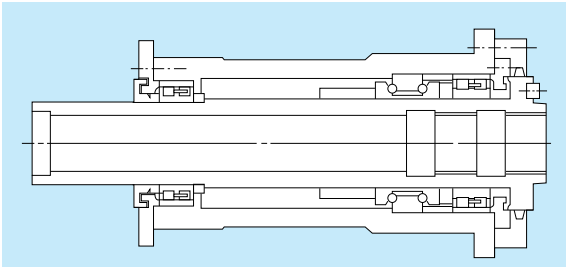
TNC-10 / 10A / 15

FEATURES:

The 45° bed is a one piece, close grained casting mounted on a cast-iron base. Widely spaced hardened and ground slideways combined with the 32 mm dia. Z axis ball screw give exceptional rigidity. The slideways are coated with Teflon to eliminate stick-slip, minimise wear and maintain long term accuracy.



TNC-10



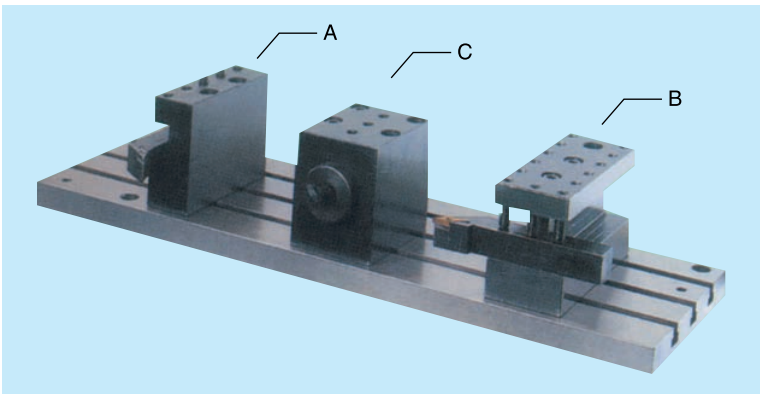
▲ RIGID HIGH SPEED SPINDLE

The main spindle is supported by five precision angular contact bearings combining high accuracy with rigidity for heavy metal removal.



▲ HEADSTOCK

The headstock design allows efficient heat dissipation for maximum thermal stability.



▲ ADDITIONAL SUB-PLATE FOR CUTTING TOOLS PRESET

The gang-tooling concept is an exceptionally rapid method of presenting a variety of different tools to the work-piece without the delays of turret retraction and indexing, thus eliminating unproductive, NON-machining time.

Removable sub-plates are utilized that accommodate a wide range of turning tools as well as a milling head.

Easily pre-set for individual jobs, fast, accurate and efficient turning, milling, and off-center drilling and tapping can easily be accomplished in one chucking.

The entire tooled sub-plate can be removed simply, then stored until the job is repeated or if preferred, the tools may be easily re-arranged on the sub-plate and set-up for a different job.

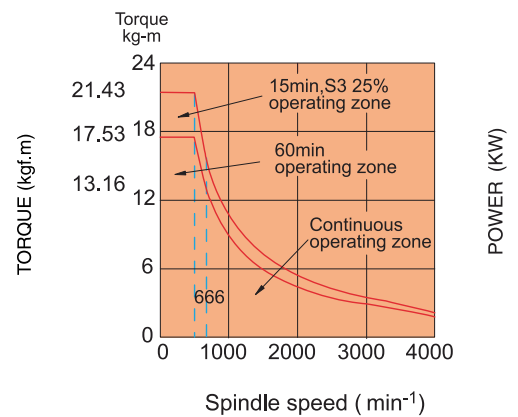


▲ OPERATOR CONVENIENCE BY FANUC 0iMate

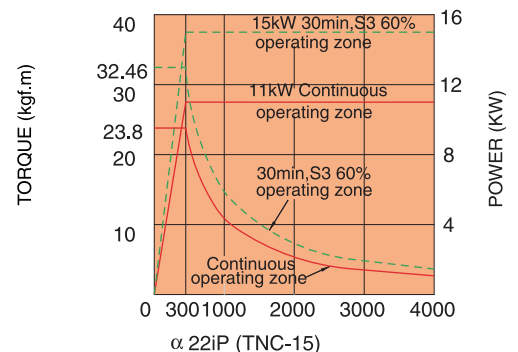
The built-in control console is always accessible to the operator and contains all manual, semi-automatic, and CNC function controls. The reliable FANUC 0iMate microprocessor CNC is standard.

▼ OUTPUT TORQUE

TNC-10 / TNC-10A
FANUC β 18/6000ip Motor

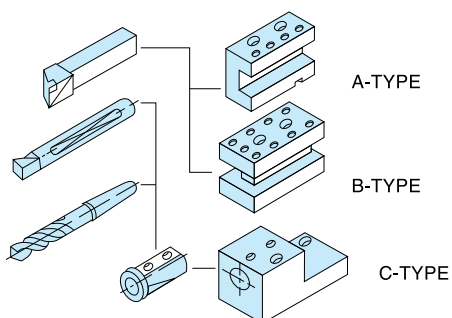


--- 30min, 50%ED Operating Zone
— Continuous Operating Zone



TNC-10/10A/15

▼ TOOLING SYSTEM



▼ WORK RANGE

TNC-10 / 10A / 15

A: 10 (TNC-10 / 10A)

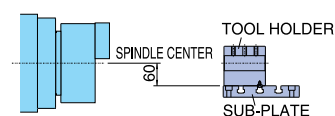
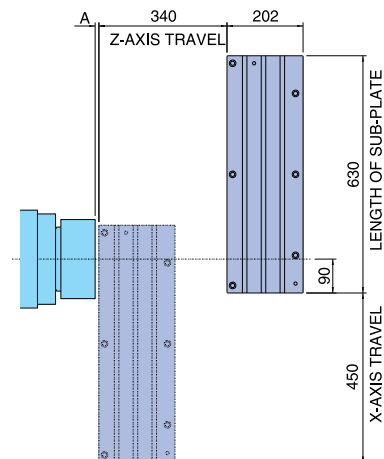
A: 60 (TNC-15)

CHUCK SIZE:

TNC-10 : 6"

TNC-10A : 8"

TNC-15 : 10"



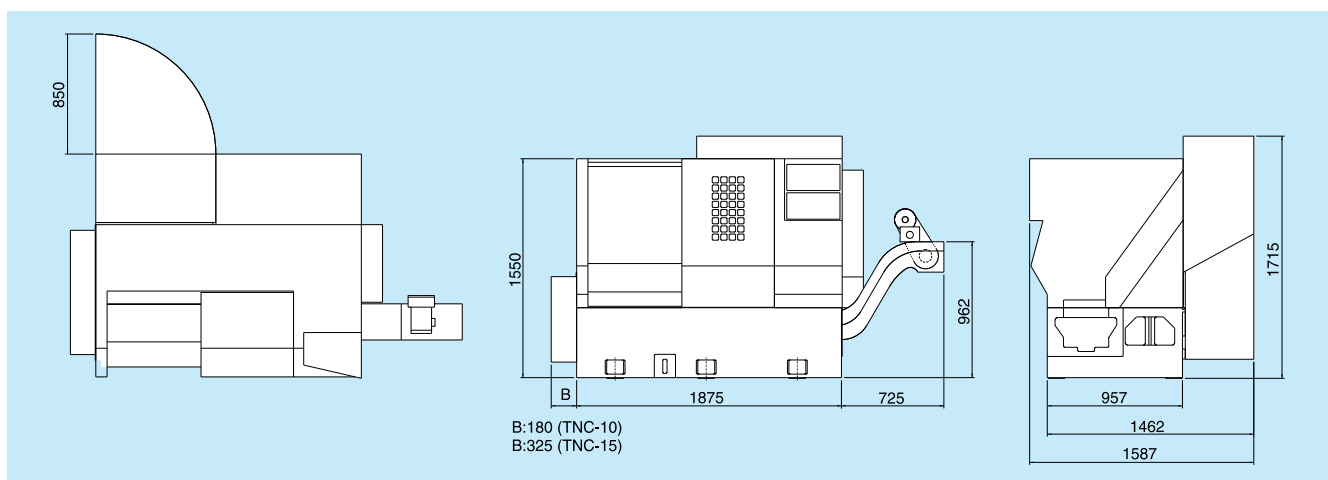
▼ FLOOR SPACE

TNC-10 / 10A

LxWxH: 2780x1587x1715mm

TNC-15

LxWxH: 2925x1587x1715mm



▼ STANDARD FUNCTION OF FANUC 0i Mate CONTROLLER

Controller axes	2 axes (X, Z)
Simultaneously controllable axes	2 axes (X, Z)
Least input increment	0.001mm
Maximum programmable dimensions	± 99999.99mm
Cutting feed rate mode	G98;mm/min, G99;mm/rev
Feed rate override	0-1260mm/min
Rapid traverse override	FO, 25%, 50%, 100%
Auxiliary function	M3, S4, T4
Tool offset	32 sets
Linear interpolation function	G01, G02, G03
Canned cycle	G90, G92, G94
Constant surface number search	G96, G97
Program and sequence number search	8.4 color LCD/MDI
Program storage length	640M
Chamfering	
Metric / Inch conversion	G20, G21
Taper puncher interface	RS 232C and Embedded Ethernet

SPECIFICATIONS

MODEL	DESCRIPTION	TNC-10	TNC-10A	TNC-15
Capacity	Swing over bed / Sub plate	ø 400 / 120 mm	ø 400 / 120 mm	ø 410 / 120 mm
	Sub plate length	630 mm	630 mm	630 mm
	Chuck size	ø 160 mm	ø 210 mm	ø 254 mm
Spindle	Spindle nose	A 2-5	A 2-6	A 2-8
	Spindle bearing diameter	ø 90 mm	ø 100 mm	ø 130 mm
	Spindle bore	ø 56 mm	ø 62 mm	ø 87 mm
	Bar capacity	ø 45	ø 52	ø 75
	Spindle taper	MT 6	1 : 20	1 : 20
	Spindle speed range	40 - 4000 rpm	40 - 4000 rpm	32 - 3200 rpm
Slides	Longitudinal carriage travel (Z)	340 mm	340 mm	340 mm
	Cross slide travel (X)	450 mm	450 mm	450 mm
	X axis rapid traverse	15M / min	15M / min	15M / min
	Z axis rapid traverse	15M / min	15M / min	15M / min
Tool holder	ID Tool holder dia.	ø 40	ø 40	ø 40
	OD Tool holder dia.	20 x 20	25 x 25	25 x 25
Bed	Width	560 mm	560 mm	560 mm
	Slant angle	45°	45°	45°
Motor	Spindle	β 18ip AC 9 / 11 kw	β 18ip AC 9 / 11 kw	α22ip AC 11 / 15 kw
	X Axis AC servo	AC 1.8 kw	AC 1.8 kw	AC 1.6 kw
	Z Axis AC servo	AC 1.8 kw	AC 1.8 kw	AC 3.0 kw
	Hydraulic pump	AC 0.75 kw	AC 0.75 kw	AC 0.75 kw
	Coolant pump	AC 0.375 kw	AC 0.375 kw	AC 0.375 kw
	Lub. pump	25 w	25 w	25 w
Miscellaneous	Packing size	2920 x 1810 x 2100 mm	2920 x 1810 x 2100 mm	3230 x 1810 x 2100 mm
	Gross whight	3500 kgs	3500 kgs	3800 kgs

※THE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

■ STANDARD ACCESSORIES:

1. 6"/8"/10" Dia. hydraulic hollow chuck with cylinder
2. Tool holder type A, B, C, (one of each)
3. Center sleeve, ø8, 10, 12, 16, 20, 25, 32, MT 2 & MT 3 (one of each)
4. Sub-plate
5. Coolant system
6. Automatic lubrication system
7. Work light
8. Chip conveyor

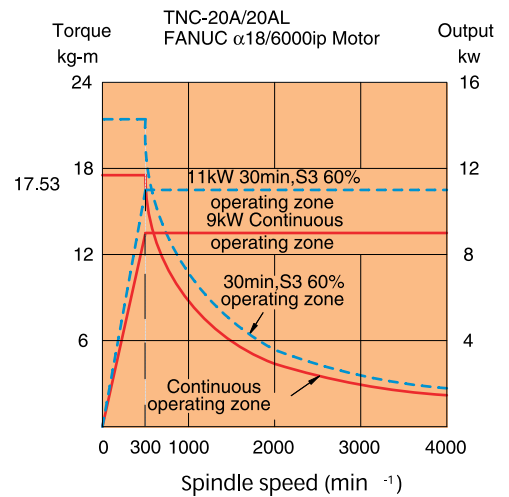
■ OPTIONS:

1. Spindle Orientation Indexing (15°)
2. Chuck air cleaner
3. Bar feeder
4. Parts catcher
5. Bar puller
6. Auto door
7. Additional type A, B & C tool holders & sleeves
8. Additional Sub-plate
9. Milling attachment
10. V8 turret
11. Collet chuck & collets

FEATURES

- High rigidity and heavy cutting
- 30 degree slant bed structure are easily for chip removals
- Easy operation
- Enclosed electrical cabinet
- Heat exchanger to maintain low temperature in electrical cabinet
- Programmable tailstock
- Separated coolant tank

▼ MAIN SPINDLE MOTOR OUTPUT AND TORQUE (Special)



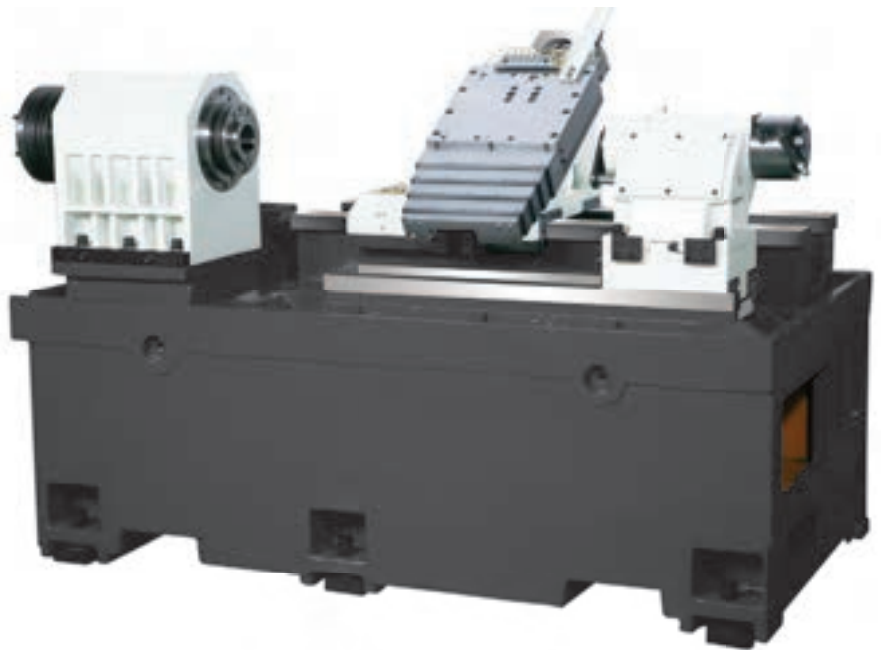
TNC-20A

▼ HIGH RIGID BED STRUCTURE

High tension mechanite cast Iron. Ground and heat treated to offer hardness over HS 70.

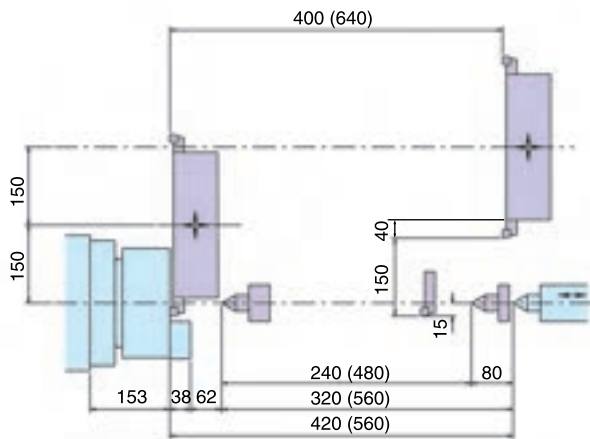
Teflon are coated on all of the slide surfaces, fully ground and scraped to provide a high precision movement as well as positionability.

The space are design in accordance with Ergonomics to offer a smallest machine at high performance utilization on the space and sites. Operations are easily and safely as a matter of Ergonomics design.

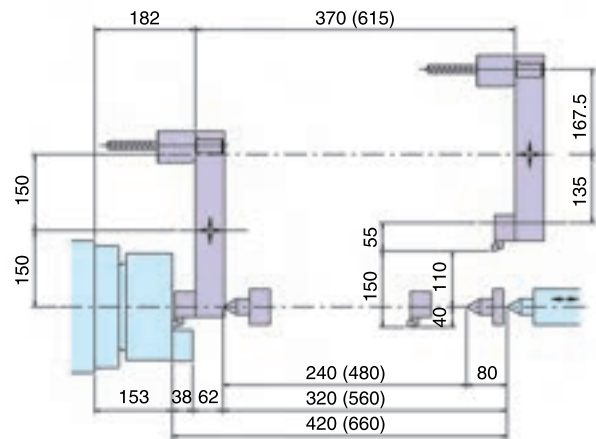


▼ WORK RANGE Unit: mm () for TNC-20AL

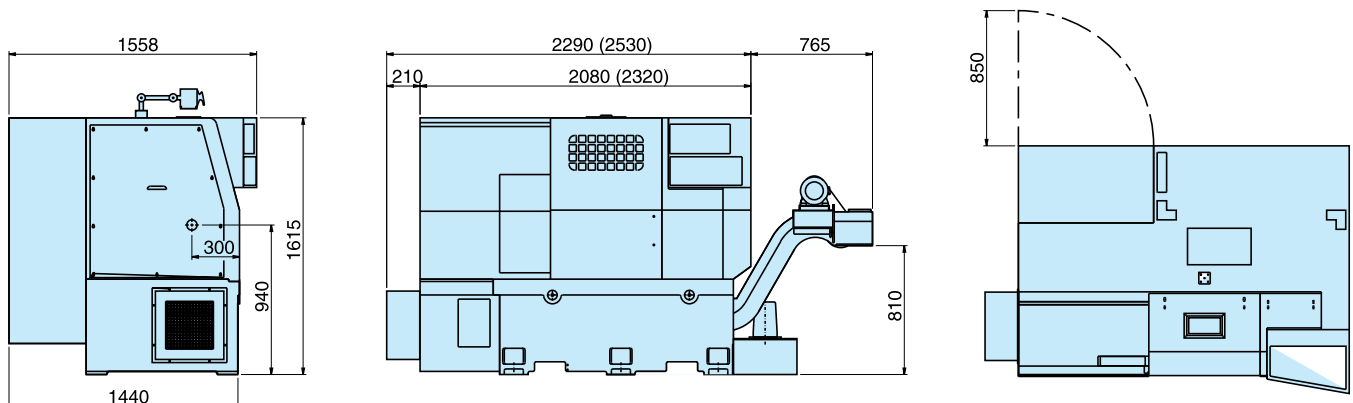
Direct



VDI



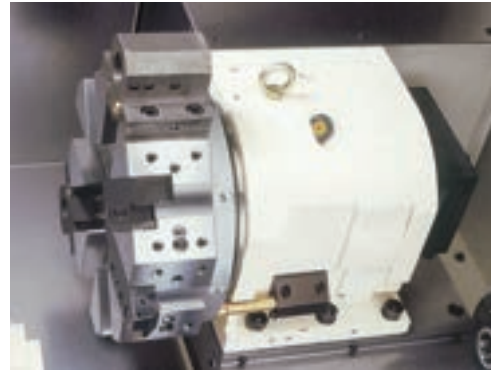
▼ FLOOR SPACE Unit: mm () for TNC-20AL





▲ HIGH PRECISION SPINDLE

This spindle is equipped with double row high precision roller bearings and angular contact thrust double row bearings.



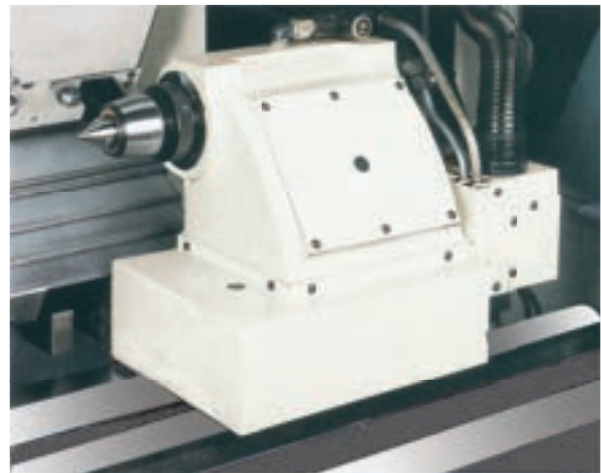
▲ HIGH SPEED AND HIGH ACCURACY TURRET

Hydraulic turret driven by gears and clutch providing a high accuracy. With random system which can be rotated bi-directions to offer a quickest tool change. The tool to tool change time is minimum to 0.2 sec. In case of the longest distance tool change, there is only with 1 second tool change time.



▲ MULTI-PURPOSE MILLING, TAPPING AND DRILLING ON THE DRIVING TOOL TURRET

1. 8 or 12 tools are available on the turret.
2. 6 driving tools are available on the turret offering milling, drilling and tapping operations.
3. Advanced Fanuc controller to offer 0.001 degree resolution accuracy
4. 3 / 5 HP for the driving tool servo motor.
5. 25-4000 RPM for the driving tool turret.



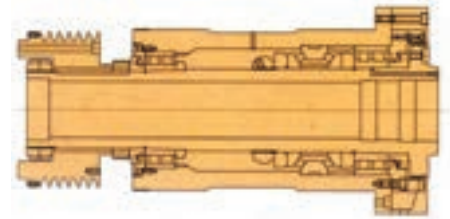
▲ PROGRAMMABLE TAILSTOCK (OPT.)

30N / 40N / 40NE

FEATURES

- High rigidity and heavy cutting
- 45 degree slant bed structure are easily for chip removals
- Easy operation
- Enclosed electrical cabinet
- To assure high accuracy machining & machine life, spindle bearing housing with high precision grinding machining complete spindle with pulleys dynamic balance test.
- Programmable tailstock
- Separated coolant tank

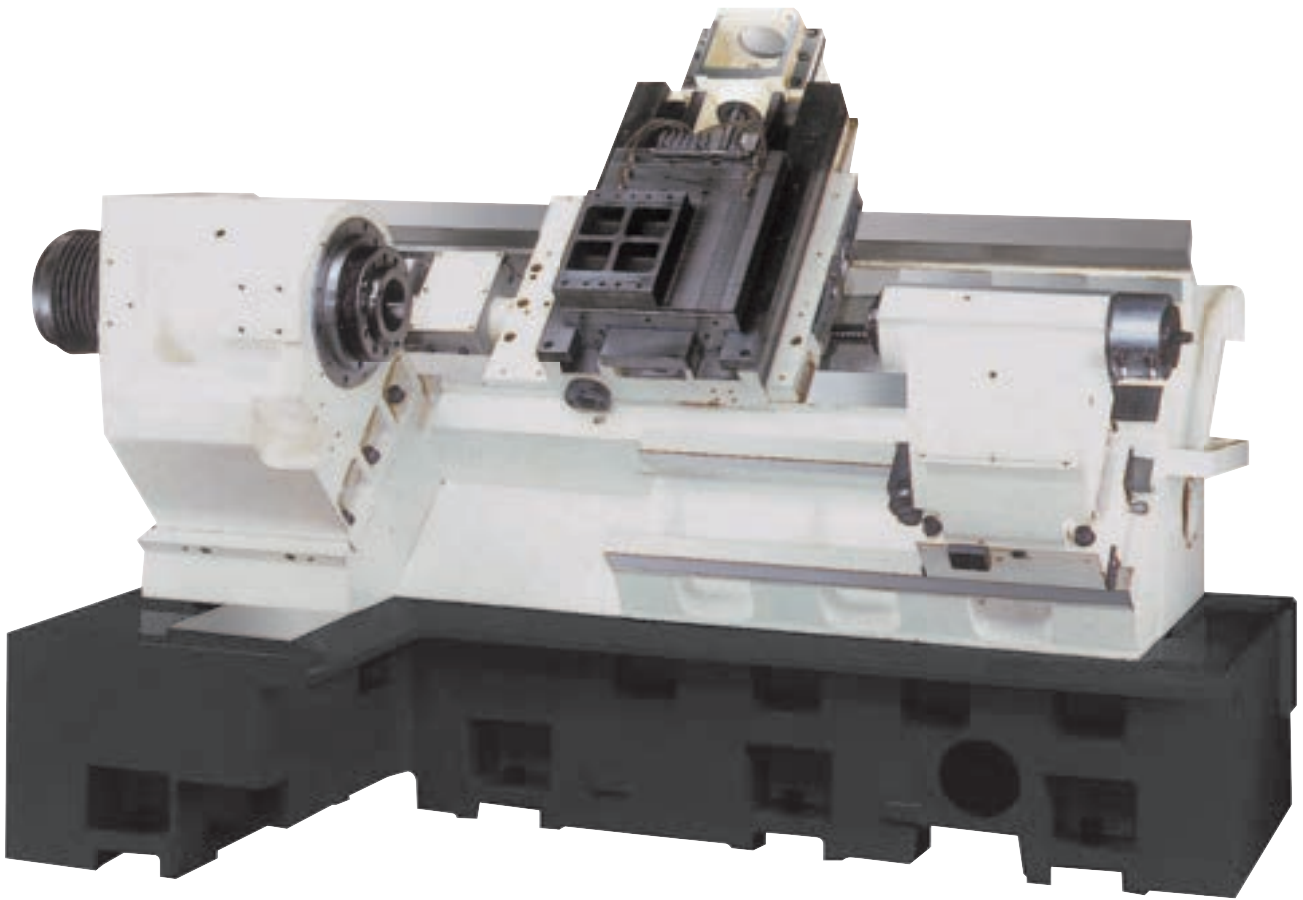
▼ SPINDLE BEARINGS



▼ TNC-20A / 30N / 40N / 40NE FANUC CONTROLLER STANDARD FUNCTIONS:

Item	Specification	
Control Function	Minimum Movement Unit	X Axis: 0.0005mm Z Axis: 0.001mm Y Axis: 0.001mm
	Minimum Input Unit	0.001mm
Spindle Function	Constant Speed	Controlled by S. Command
	Spindle Rates	50%~120%
Feed Function	Rapid Traverse	X,Y,Z Axis 12m / min
	Manual Feed	0~1260mm / min
	Linear, Arc	G01, G02, G03
	Feed Rates	0%~150%
	Manual Pulse Generator	0.001, 0.01, 0.1mm
	Dry Run	
	Zero Return	G27, G28, G30
Tool Function	Tool Offset	32 sets
	Tool Nose Radius Compensation	16 sets, 0- 999, 999mm

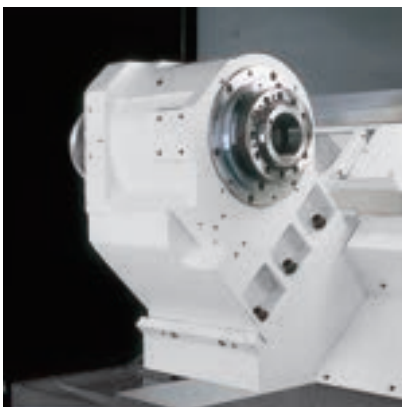
Item	Specification	
Program Function	Chamfer, Radius Function	
	Canned Cycle	G90, G92, G94,
	Complex Canned Cycle	G70~G76
	Metric / Inch Conversion	G20 / G21
Thread Function	Back Edit	
	Thread Cutting	G32, G76, G92,
Others	TFT-LCD	8.4"
	RAM	
	ROM	
	Memory Protect	640M
	Single Block	
	Machine Lock	
	Stroke Lock	
	Search Function	
Block Skip		



▲ HIGH RIGID BED STRUCTURE

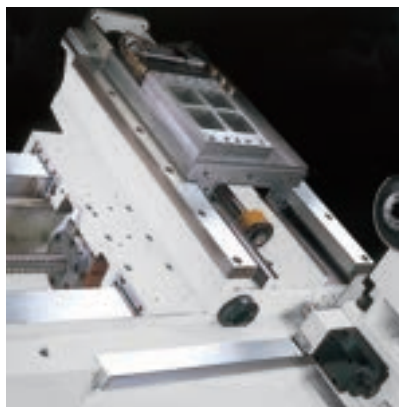
High tension mechanite cast Iron. Ground and heat treated to offer hardness over HS 70. Teflon are coated on all of the slide strfaces, fully ground andscraped to provide a high precision movement as well as positionability.

The space are design in accordance with Ergonomics to offer a smallest machine at high performance utilization on the space and sites. Operations are easily and safely as a matter of Ergonomics design.



▲ HIGH PRECISION SPINDLE

This spindle is equipped with double row high precision roller bearings and angular contact thrust double row bearings.



▲ RIGID CROSS SLIDE ON Z AXIS



▲ HIGH SPEED AND HIGH ACCURACY TURRET

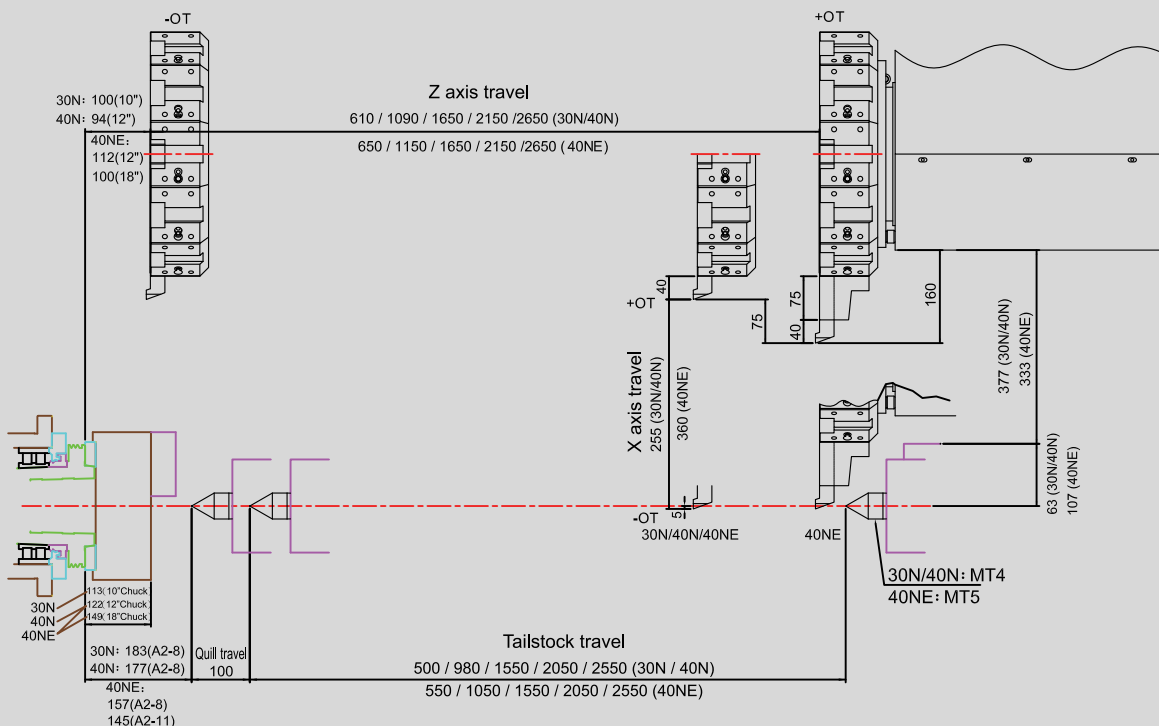
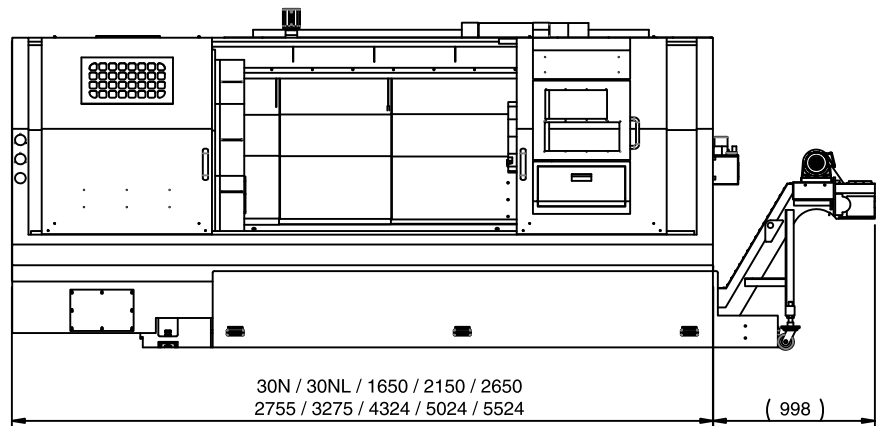
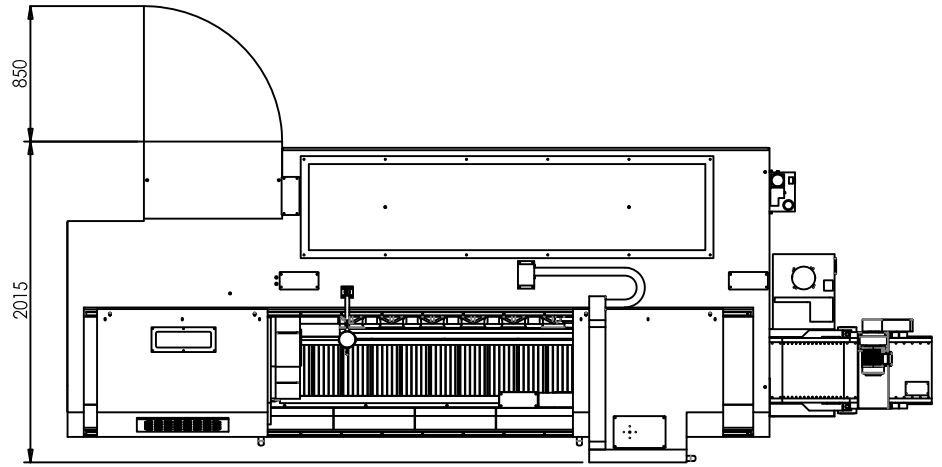
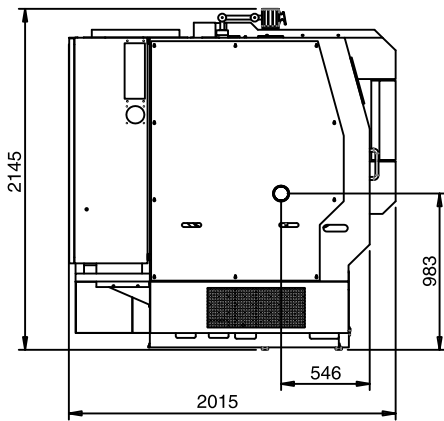
Hydraulic turret driven by gears and clutch providing a high accuracy. With random system which can be rotated bi-directions to offer a quickest tool change. The tool to tool change time is minimum to 0.25 sec. In case of the longest distance tool change, there is only with 1 second tool change time.

30N / 40N / 40NE



▲ PROGRAMMABLE TAILSTOCK

▼ FLOOR SPACE (mm)

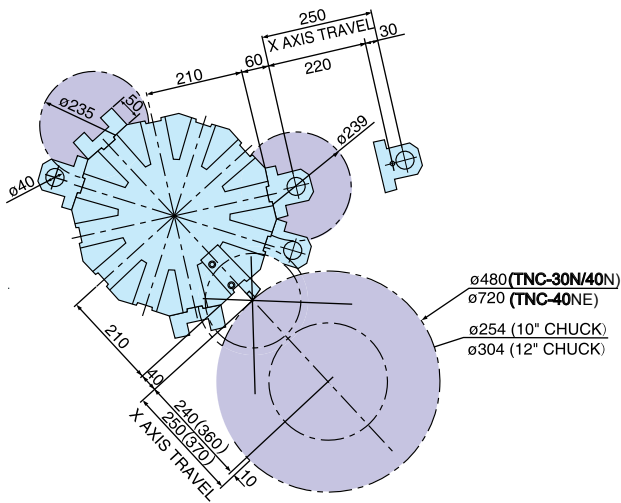


▲ WORK RANGE (mm)

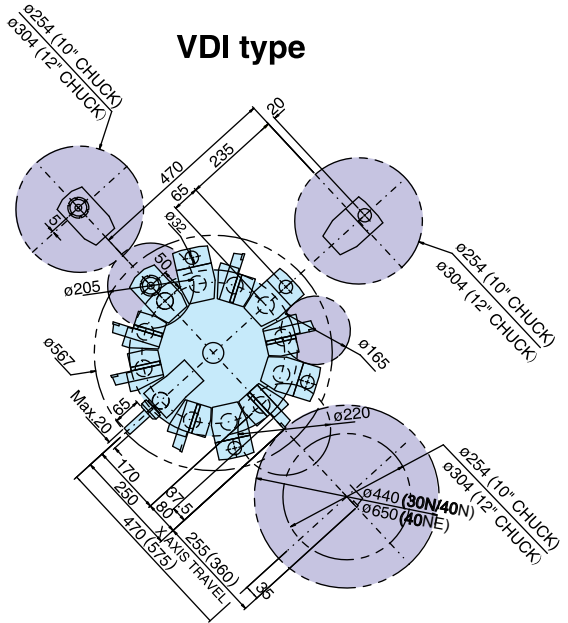
30N / 40N / 40NE

▼ TOOL INTERFERENCE DRAWING (mm)

Direct type

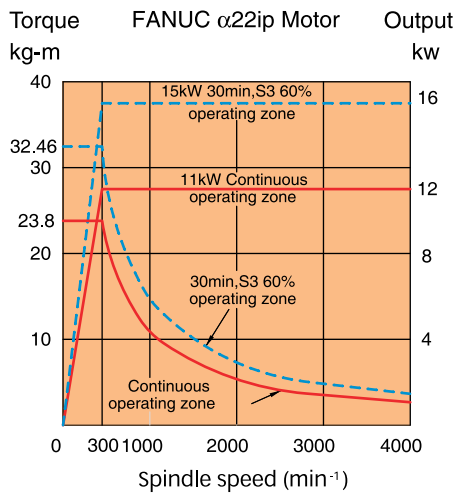


VDI type

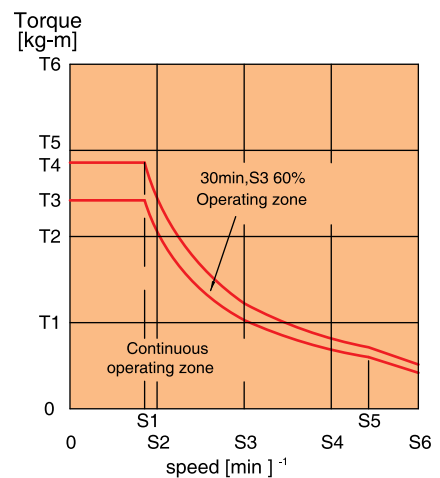


▼ MAIN SPINDLE MOTOR OUTPUT AND TORQUE

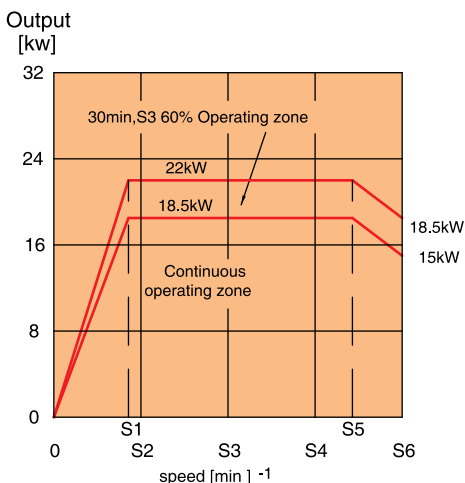
TNC-30N / TNC-30NL



TNC30N x 1650 / 2150 / 2650 TNC-40N / TNC-40NE Series



TNC30N x 1650 / 2150 / 2650 TNC-40N / TNC-40NE Series



TNC-40N / TNC-40NE

	speed [min] ⁻¹						Torque [kg-m]					
	S1	S2	S3	S4	S5	S6	T1	T2	T3	T4	T5	T6
Motor	1500	1750	3500	5250	6000	7000	5	10	12.01	14.29	15	20
Spindle M42 i=0.181	272	317	634	951	1087	1268	27.6	55.2	66.32	78.87	82.8	110.4
Spindle M43 i=0.724	1087	1268	2536	3804	4347	5072	6.9	13.8	16.58	19.72	20.7	27.6

20A / 30N

SPECIFICATIONS

MODEL	DESCRIPTION	TNC-20A / AL	TNC-30N / 30NL	TNC30N x 1650 / 2150 / 2650	
Capacity	Swing over bed	Ø 460 mm (18.1")	Ø 640 mm (25.2")	Ø 600 mm (23.6")	
	Swing over saddle	Ø 280 mm (11")	Ø 430 mm (16.9")		
	Distance between center	460 / 660 mm (18.1" / 26")	670 / 1150 mm (26.4" / 45.3")	1730 / 2230 / 2730 mm (68.1" / 87.8" / 107.5")	
	Cutting Diameter	Ø 270 mm (10.6") Direct / Ø 220 mm (8.7") VDI	Ø 480 mm (18.9") Direct / Ø 440 mm (17.3") VDI		
	Hydraulic chuck	Ø 210 mm (8")	Ø 254 mm (10")		
	Bar diameter	Ø 52 mm (2") / OPT Ø 65mm (2.6")	Ø 75 mm (3")		
	Bed width	360 mm (14.2")	480 mm (18.9")		
	Bed slant angle	30 degree	45 degree		
Spindle	Spindle nose	A2-6	A2-8		
	Spindle hole	Ø 62 mm (2.4") / OPT Ø 75 mm (3")	Ø 87 mm (3.4")		
	Spindle taper	1/20			
	Spindle speed	40 ~ 4000 R.P.M	32 ~ 3200 R.P.M		
	Spindle motor	FANUC β18ip (9 / 11 kw)	FANUC α22ip (11 / 15 kw)	FANUC α18i (18.5 / 22 kw) + 2 steps gear box (1:4)	
	Spindle dia. (OD)	Ø 100 mm (3.9")	Ø 130 mm (5.1")		
Turret	Turret type	Hydraulic turret / Servo turret (OPT)			
	Tool station & size (OD)	8, 25 x 25 mm (1" x 1")	10 / 12 (OPT), 25 x 25 mm (1" x 1")		
	X travel	150 mm (5.9")	255 mm (10")		
	Z travel	400 / 640 mm (15.7" / 25.2")	610 / 1090 mm (24" / 42.9")	1650 / 2150 / 2650 mm (65" / 84.6" / 104.3)	
	Rapid traverse	X: 15 M / Min Z: 15 M / Min	X: 18 M / Min Z: 18 M / Min	X: 15 / 15 / 15 M / Min Z: 15 / 12 / 7 M / Min	
	ID Tool holder dia.	Ø 32 mm (1.3")	Ø 40 mm (1.6")		
Tailstock	Tailstock travel	240 / 480 mm (9.4" / 18.9")	500 / 980 mm (20" / 38.6")	1560 / 2060 / 2560 mm (61.4" / 81.1" / 100.8")	
	Quill travel	80 mm (3.1")	100 mm (3.9")		
	Quill diameter	Ø 70 mm (2.8")	Ø 110 mm (4.3") / OPT Ø 160mm (6.3")		
	Quill taper	MT4	MT4 (OPT MT5)		
Motor	Servo motor (X)	1.8 kw	3.0 kw		
	Servo motor (Z)	1.8 kw	3.0 kw		
	Coolant pump	0.37 kw			
	Hydraulic motor	1.5 kw			
Miscellaneous	Power requirement	22 KVA	30 KVA	40 KVA	
	X axis ball screw dia.	Ø 32 mm (1.3")			
	Z axis ball screw dia.	Ø 36 mm (1.4")	Ø 40 mm (1.6")	Ø 50 mm (2")	
	Packing size	3110 / 3350 x 2000 x 2050 mm (122.4" / 131.9 x 78.7" x 80.7")	4000 / 4550 x 2090 x 2250 mm (157.5" / 179.1 x 82.3" x 88.6")	5100 / 5800 / 6500 x 2090 x 2250 mm (200.8" / 228.3" / 255.9" x 82.3" x 88.6")	
	Gross weight	4000 / 4600 kgs	5500 / 6500 kgs	8200 / 9400 / 10600 kgs	

※THE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

■ STANDARD ACCESSORIES:

- Hydraulic hollow chuck and cylinder
- Hydraulic turret and tool holders (for direct type disk only)
- Hydraulic tailstock for TNC-20A Series
Programmable hydraulic tailstock for TNC-30N Series
- Coolant system and hydraulic system
- Center sleeve, ø8, 10, 12, 16, 20, 25,
MT 1 & MT 2 (one of each) for TNC-20A Series
Center sleeve, ø 12, 16, 20, 25, 32,
MT 2 & MT 3 (one of each) for TNC-30N Series
- Chip conveyor
- Operation manual

■ OPTIONS:

- Bar feeder
- Parts catcher
- C Axis / spindle index with driving tool turret
- Tool presetter
- Extra tool holder
- Sub spindle
- VDI Tool holders
- CE mark

SPECIFICATIONS

MODEL	DESCRIPTION	TNC-40N / NL	TNC40N x 1650 / 2150 / 2650
Capacity	Swing over bed	Ø 640 mm (25.2")	Ø 600mm (23.6")
	Swing over saddle	Ø 430 mm (16.9")	
	Distance between center	670 / 1150 mm (26.4" / 45.3")	1715 / 2215 / 2715 mm (67.5" / 87.2" / 106.9")
	Cutting Diameter	Ø 480 mm (18.9") Direct / Ø 440 mm (17.3") VDI	
	Hydraulic chuck	Ø 304 mm (12") / OPT Ø 380 mm (15")	
	Bar diameter	Ø 90 mm (3.5")	
	Bed width	480 mm (18.9")	
	Bed slant angle	45 degree	
Spindle	Spindle nose	A2-8	
	Spindle hole	Ø 102 mm (4")	
	Spindle taper	1/20	
	Spindle speed	10 ~ 2500 R.P.M	
	Spindle motor	FANUC α 18i (18.5 / 22 kw) + 2 steps gear box (1:4)	
	Spindle dia. (OD)	Ø 160 mm (6.3")	
Turret	Turret type	Hydraulic turret / Servo turret (OPT)	
	Tool station & size (OD)	10 / 12 (OPT), 25 x 25 mm (1" x 1")	
	X travel	255 mm (10")	
	Z travel	610 / 1090 mm (24" / 42.9")	1650 / 2150 / 2650 mm (65" / 84.6" / 104.3)
	Rapid traverse	X: 18 M / Min Z: 18 M / Min	X: 15 / 15 / 15 M / Min Z: 15 / 12 / 7 M / Min
	ID Tool holder dia.	Ø 40 mm (1.6")	
Tailstock	Tailstock travel	500 / 980 mm (20" / 38.6")	1560 / 2060 / 2560 mm (61.4" / 81.1" / 100.8")
	Quill travel	100 mm (3.9")	
	Quill diameter	Ø 110 mm (4.3") / OPT Ø 160 mm (6.3")	
	Quill taper	MT4 (OPT MT5)	
Motor	Servo motor (X)	3.0 kw	
	Servo motor (Z)	3.0 kw	4.0 kw
	Coolant pump	0.37 kw	
	Hydraulic motor	1.5 kw	
Miscellaneous	Power requirement	40 KVA	
	X axis ball screw dia.	Ø 32 mm (1.3")	
	Z axis ball screw dia.	Ø 50 mm (2")	
	Packing size	4000 / 4550 x 2090 x 2250 mm (157.5" / 179.1" x 82.3" x 88.6")	5100 / 5800 / 6500 x 2090 x 2250 mm (200.8" / 228.3" / 255.9" x 82.3" x 88.6")
	Gross weight	6000 / 7000 kgs	8200 / 9400 / 10600 kgs

※THE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

■ STANDARD ACCESSORIES:

1. Hydraulic hollow chuck and cylinder
2. Hydraulic turret and tool holders (for direct type disk only)
3. Programmable hydraulic tailstock
4. Coolant > hydraulic and lubrication system
5. Center sleeve, ϕ 12, 16, 20, 25, 32, MT 2 & MT 3 (one of each)
6. Chip conveyor
7. Tool box with tools and manuals

■ OPTIONS:

1. Bar feeder
2. Parts catcher
3. C Axis / spindle index with driving tool turret
4. Tool presetter
5. Extra tool holder
6. Sub spindle
7. VDI Tool holders
8. CE mark

SPECIFICATIONS

MODEL	DESCRIPTION	TNC40NE x 650 / 1150	TNC40NE x 1650 / 2150 / 2650
Capacity	Swing over bed	Ø 800 mm (31.5")	Ø 750 mm (29.5")
	Swing over saddle	Ø 590 mm (23.2")	
	Distance between center	670 / 1150 mm (26.4" / 45.3")	1715 / 2215 / 2715 mm (67.5" / 87.2" / 106.9")
	Hydraulic chuck	Ø 310 mm (12.2") / OPT Ø 380 mm (15") / OPT Ø 450 mm (17.7")	
	Bar diameter	Ø 90 mm (3.5") / OPT Ø 117.5 mm (4.6") / OPT Ø 140 mm (5.5")	
	Bed width	480 mm (18.9")	
	Bed slant angle	45 degree	
	Cutting Diameter	Ø 720 mm (28.3") Direct / Ø 650 mm (25.6") VDI	
Spindle	Spindle nose	A2-8 / OPT A2-11	
	Spindle hole	Ø 102 mm (4") / OPT Ø 160 mm (6.3")	
	Spindle taper	1/20	
	Spindle speed	10 ~ 2500 R.P.M / OPT 10 ~ 1650 R.P.M.	
	Spindle motor	FANUC α 18i (18.5 / 22 kw) + 2 steps gear box (1:4)	
	Spindle dia. (OD)	Ø 160 mm (6.3") / OPT Ø 220 mm (8.7")	
Turret	Turret type	Hydraulic turret / Servo turret (OPT)	
	Tool station & size (OD)	10 / 12 (OPT), 25 x 25 mm (1" x 1")	
	X travel	360 mm (14.2")	
	Z travel	610 / 1090 mm (24" / 42.9")	1650 / 2150 / 2650 mm (65" / 84.6" / 104.3)
	Rapid traverse	X: 18 M / Min Z: 18 M / Min	X: 15 / 15 / 15 M / Min Z: 15 / 12 / 7 M / Min
	ID Tool holder dia.	Ø 40 mm (1.6")	
Tailstock	Tailstock travel	500 / 980 mm (20" / 38.6")	1560 / 2060 / 2560 mm (61.4" / 81.1" / 100.8")
	Quill travel	100 mm (3.9")	
	Quill diameter	Ø 160 mm (6.3")	
	Quill taper	MT5	
Motor	Servo motor (X)	3.0 kw	
	Servo motor (Z)	3.0 kw	4.0 kw
	Coolant pump	0.37 kw	
	Hydraulic motor	1.5 kw	
Miscellaneous	X axis ball screw dia.	Ø 32 mm (1.3")	
	Z axis ball screw dia.	Ø 50 mm (2")	
	Packing size	4000 / 4550 x 2250 x 2250 mm (157.5" / 179.1" x 88.6" x 88.6")	5100 / 5800 / 6500 x 2250 x 2250 mm (200.8" / 228.3" / 255.9" x 88.6" x 88.6")
	Gross weight	6300 / 7300 kgs	8500 / 9700 / 10900 kgs

※THE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

■ STANDARD ACCESSORIES:

- Hydraulic hollow chuck and cylinder
- Hydraulic turret and tool holders (for direct type disk only)
- Programmable hydraulic tailstock
- Coolant \ hydraulic and lubrication system
- Center sleeve, ϕ 12, 16, 20, 25, 32, MT 2 & MT 3 (one of each)
- Chip conveyor
- Tool box with tools and manuals

■ OPTIONS:

- Bar feeder
- Parts catcher
- C Axis / spindle index with driving tool turret
- Tool presetter
- Extra tool holder
- Sub spindle
- VDI Tool holders
- CE mark

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