



*TWIN SPINDLE, TWIN TURRET
CNC LATHES SERIES*

TNC -N200DS/DS-B
TNC -N200DST/DST-B
TNC-N200/N200L/N300

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

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

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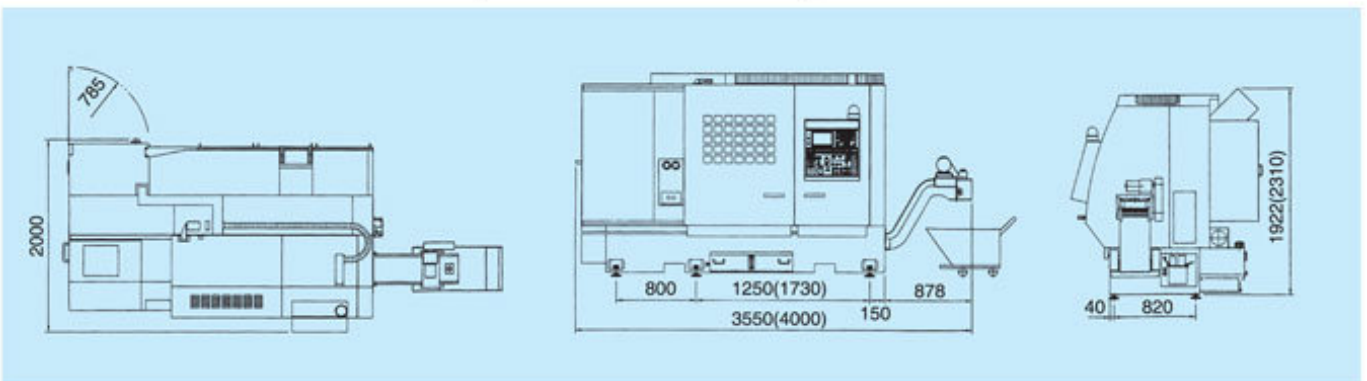
▼ FEATURES

- 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



▼ FLOOR SPACE

TNC-N200DS (TNC-N200DS-B / DST / DST-B)



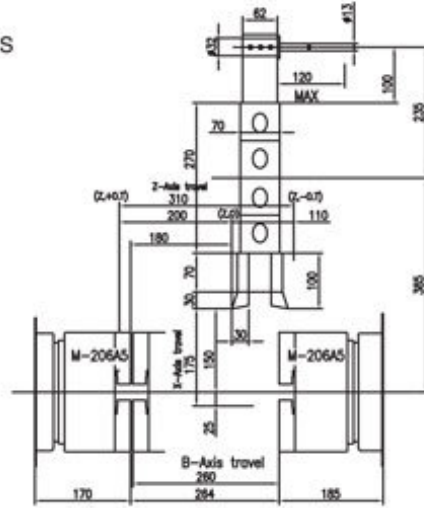
▼ TWIN SPINDLE



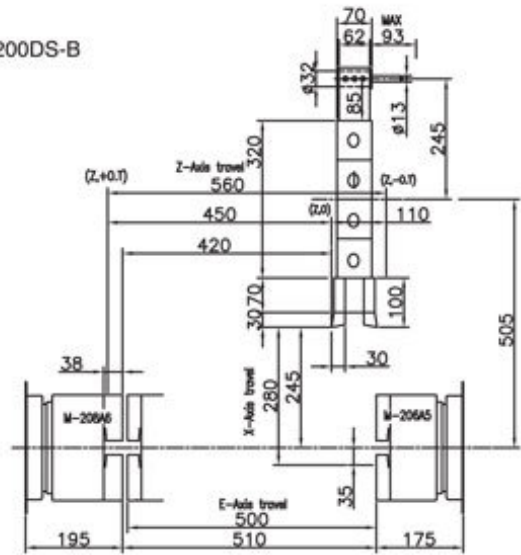
▲ TNC-N200DS

▼ WORK RANGE

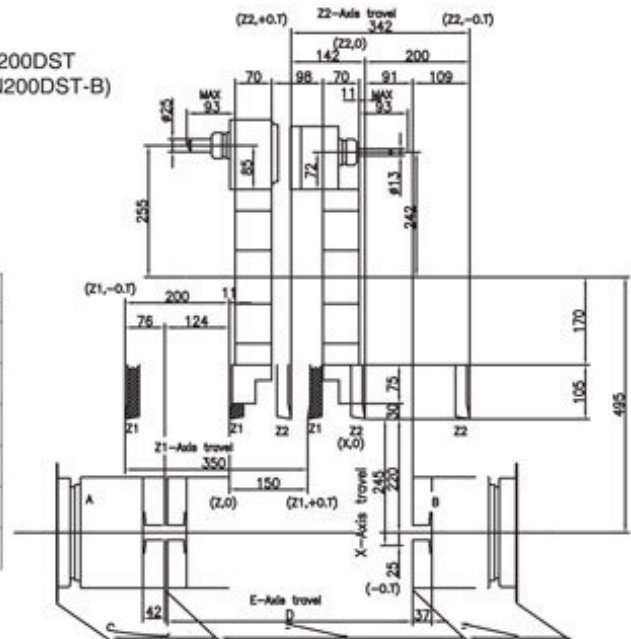
TNC-N200DS



TNC-N200DS-B



TNC-N200DST
(TNC-N200DST-B)



Model	TNC-N200DST	TNC-N200DST-B
Item	M-206A5	M-206A6
A	M-206A5	M-206A6
B	M-206A5	M-206A5
C	170	185
D	520	505
E	526	511
F	186	186

▼ TNC-N200



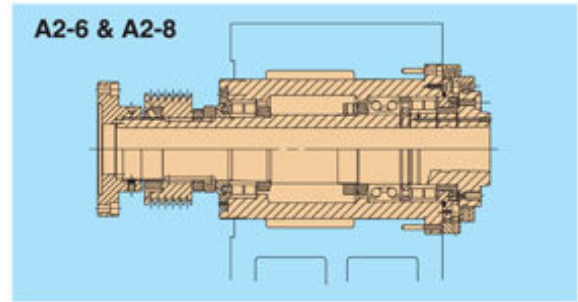
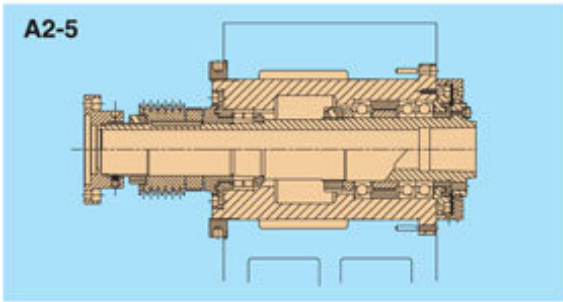
▼ TNC-N200DST



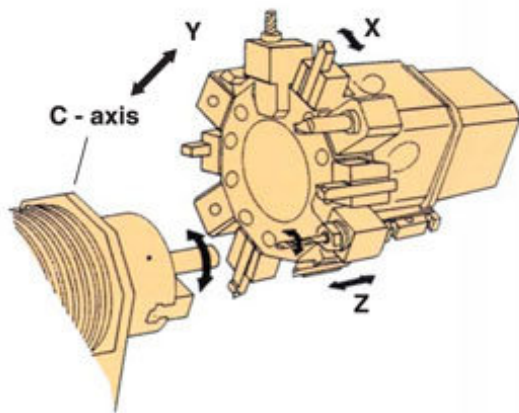
▲ TWIN SPINDLE / TWIN TURRET



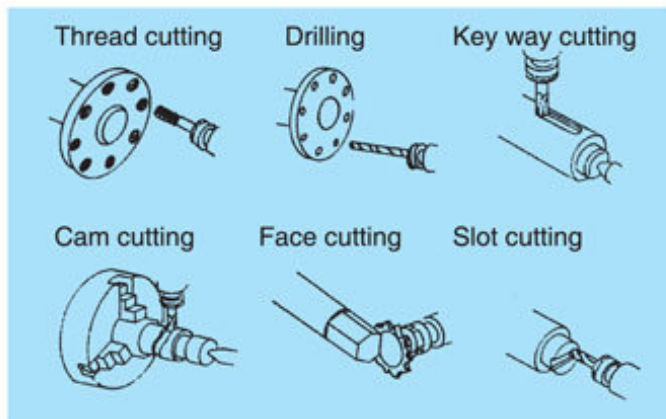
▼ SPINDLE & BEARINGS



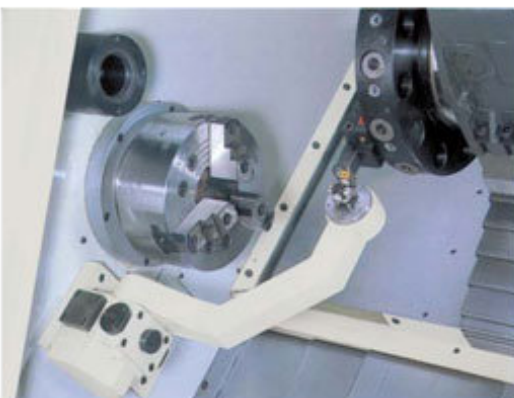
▼ POWER TURRET WITH C-AXIS



▼ EXAMPLES FOR MACHINING WITH DRIVING TOOLS



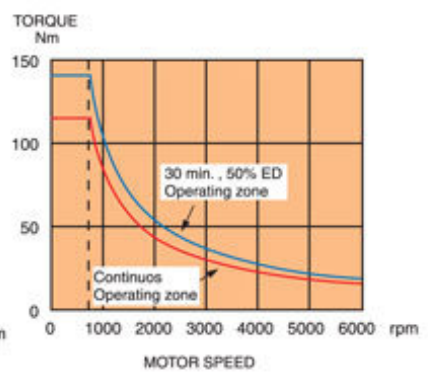
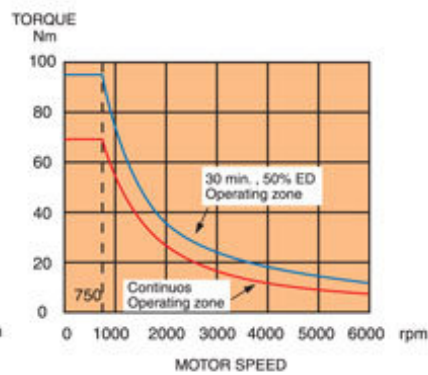
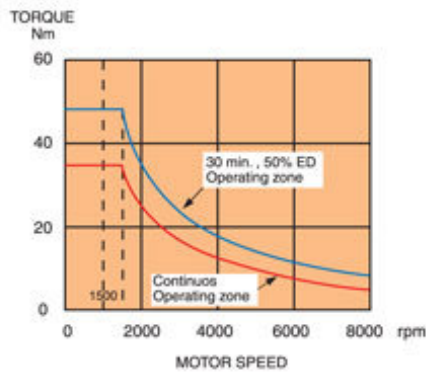
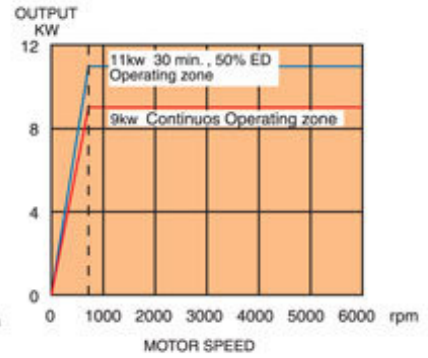
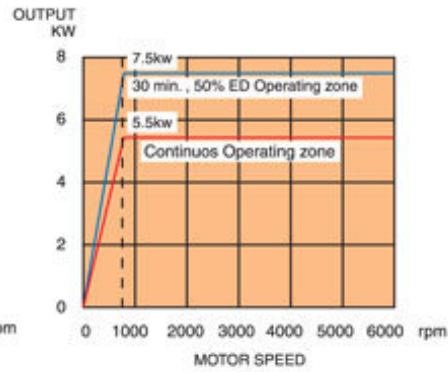
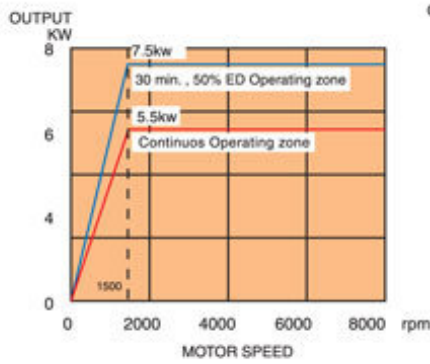
▼ TOOL PRESETTER



▼ DRIVING TOOL SYSTEM



SPINDLE OUTPUT AND TORQUE

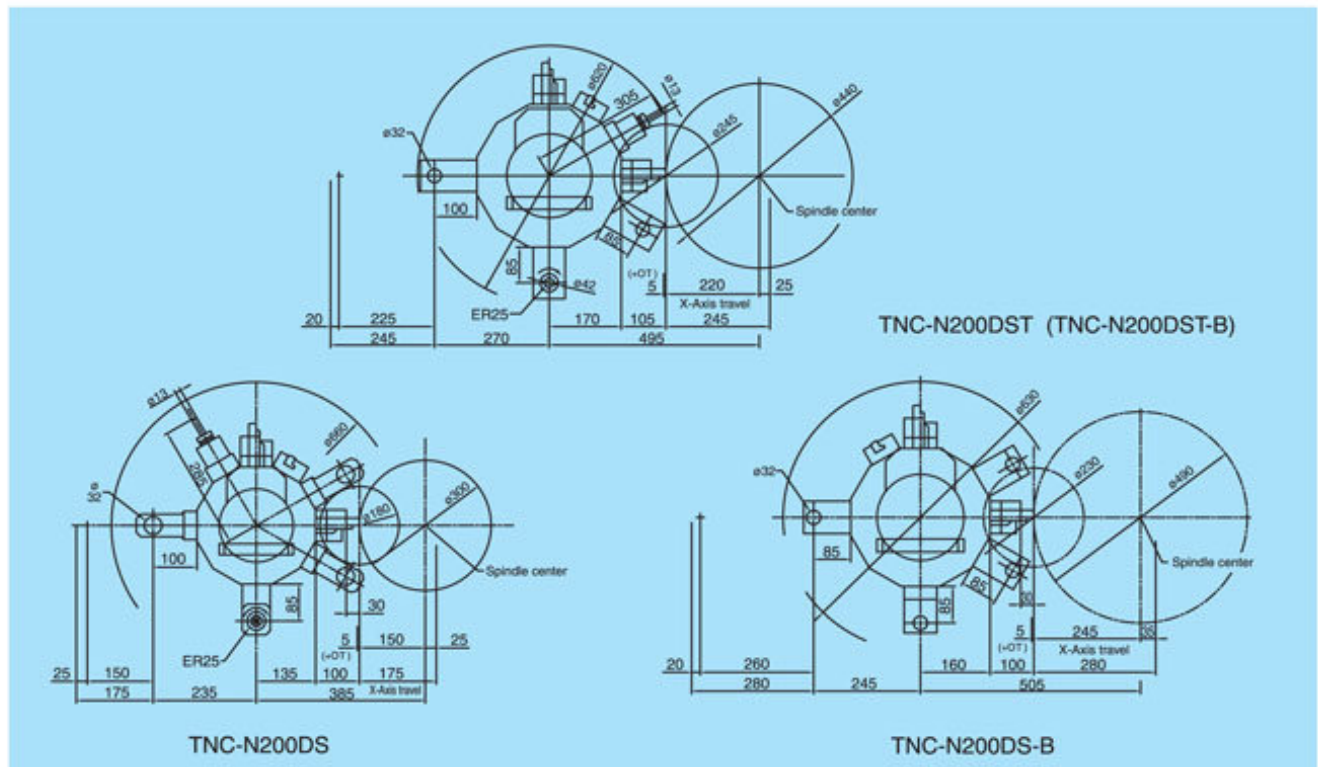


FANUC spindle motor $\alpha 6i$

FANUC spindle motor $\alpha 12iP$

FANUC spindle motor $\alpha 18iP$

▼ INTERFERENCE DRAWING



SPECIFICATIONS:

MODEL	DESCRIPTION	TNC-N200	TNC-N250	TNC-N300
Capacity	Swing over bed	Ø 480 mm (18.9")	Ø 600 mm (23.6")	Ø 630 mm (24.8")
	Max. machining diameter	Ø 280 mm (11")	Ø 330 mm (13")	Ø 442 mm (17.4")
	Max. machining length	462 / 700 / 1000 mm (18.2" / 27.6" / 39.4")	430 / 740 / 1000 mm (16.9" / 29.1" / 39.4")	700 / 1000 mm (27.6" / 39.4")
Spindle	Spindle nose	A2-6	A2-6	A2-8
	Spindle bore	Ø 61 mm (2.4")	Ø 77 mm (3")	Ø 90 mm (3.5")
	Bar capacity	Ø 51 mm (2")	Ø 65 mm (2.6")	Ø 77 mm (3")
	Spindle speed	40-4000 rpm	40-3500 rpm	35-3500 rpm OPT: 25-2500 rpm
	Living tools speed	25-4000 rpm	25-4000 rpm	25-4000 rpm
	Spindle taper	1:20		
	Hydraulic chuck	Ø 210 mm (8.3")		Ø 254 mm (10") OPT: Ø 304 mm (12")
Turret	Tool station	Hyd 12-160 OPT: V12 SERVO 12-240		
	O.D. tooling	□20x20 mm (OPT: □25x25 mm)	□25x25 mm	
	I.D. tooling	Ø 32 mm (1.3") OPT: Ø 40 mm (1.6")	Ø 40 mm (1.6")	
	Z travel	475 / 700 / 1000 (18.7" / 27.6" / 39.4")	460 / 700 / 1000 (18.1" / 27.6" / 39.4")	700 / 1000 (27.6" / 39.4")
	X travel	142 mm (5.6")	180 mm (7.1")	250 mm (9.8")
	Rapid travel (X, Z-axis)	30 M/min (1181ipm)		
	Cutting feed rate (Both-axis)	0.001-500 mm/rev		
	Dia. of ball screw (Z-axis)	Ø 36 mm (1.42") P10		
	Dia. of ball screw (X-axis)	Ø 32 mm (1.26") P10		
Motor	Spindle motor	α18iP AC9/11 kw	α22iP AC11/15 kw	α30iP AC15/18.5 kw
	Hydraulic motor	1.5 kw (2HP)		
	Coolant pump	750 w (1HP)		
	AC servo motor (X)	β12iB AC1.8 kw	β8iB AC1.6 kw	β12iB AC3.0 kw
	AC servo motor (Z)	β12iS 1.8 kw	β8i 1.6 kw	β12i 3.0 kw
Tailstock	Quill diameter	Ø 75 mm (3")		Ø 90 mm (3.5")
	Quill stroke	80 mm (3.2")		100 mm (4")
	Quill taper	MT No. 4		MT No. 5
	Tailstock stroke	395 / 650 / 1000	390 / 650 / 1000	650 / 1000
Tank capacity	Hydraulic tank	40 Liter	60 Liter	
	Coolant tank	100 Liter		
Miscellaneous	Packing size	345 / 410 / 480 x 226 mm (13.6" / 16.1" / 18.9" x 8.9")		410 / 480 / 225 x 255 mm (16.1" / 18.9" / 8.9" x 10")
	Gross weight	5100 / 6500 / 7500 kgs	5340 / 6700 / 7700 kgs	6800 / 7900 kgs

※THE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

■ STANDARD ACCESSORIES:

1. FANUC 0iT controller
2. FANUC two years guaranty (Europe area only)
3. 8" Hydraulic hollow chuck and cylinder on TNC-N200 and TNC-N200L
10" Hydraulic hollow chuck and cylinder on TNC-N300
4. 12 station hydraulic turret with tool disk
5. Auto coolant (internal with open flow), hydraulic & lubrication system
6. Work light
7. Chip conveyor
8. Tool box with tools & manuals

■ OPTIONS:

1. Extra bar capacity, hydraulic chuck & 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 ±40mm, X axis motor α22iB (4kw), Z axis motor α12i (3kw)]
7. VDI driving tool holder
8. Tool presetter (Auto / Semi-auto)
9. Auto door
10. Parts catcher
11. Bar feeder
12. Software for bar feeder (with relay)
13. Hydrodynamic auto bar feeder
14. Transformer (power supply except 220V)
15. CE mark

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 245 mm (9.6")	Ø 490 mm (19.3")	Ø 440 mm (17.3")	
	Max. machining length	Ø 260 mm (10.2")	Ø 500 mm (19.7")	Ø 310 mm (12.2")	Ø 290 mm (11.4")
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	Ø 169 mm (6.7")	Ø 210 mm (8.3")	Ø 169 mm (6.7")	Ø 210 mm (8.3")
	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	Ø 169 mm (6.7")			
	Spindle range	60-6000 rpm			
	B stroke	260 mm (10.2")	500 mm (19.7")	520 mm (20.5")	500 mm (19.7")
	B axis rapid travel	20 M/min			
Turret	Tool number	12 Stations (Servo turret)		L: 12, R: 12 (Servo turret)	
	X axis stroke: X1	165 mm (6.5")	280 mm (11")	L: 245 mm (9.6")	L: 245 mm (9.6")
	X axis stroke: X2			R: 245 mm (9.6")	R: 245 mm (9.6")
	Z axis stroke: Z1	310 mm (12.2")	560 mm (22")	L: 342 mm (13.5")	L: 342 mm (13.5")
	Z axis stroke: Z2			R: 342 mm (13.5")	R: 342 mm (13.5")
	Rapid travel: X1, X2	30 M/min (1181ipm)		20 M/min (787ipm)	
	Rapid travel: Z1, Z2	30 M/min (1181ipm)		20 M/min (787ipm)	
	Tool change time	0.2 sec		L & R: 0.2 sec	
	Tool holder	VDI 30, □20 mm		L & R: VDI 30, □20 mm	
	Max. boring bar	Ø 32 mm (1.3")		L & R: Ø 32 mm (1.3")	
Motor	Main spindle motor	α22iP 5.5/7.5 kw	α18iP 9/11 kw	α22iP 5.5/7.5 kw	α18iP 9/11 kw
	Sub spindle motor	FANUC α6i 5.5/7.5 kw			
	X axis servo motor, X1	α8iB 1.6 kw			
	X axis servo motor, X2			α8iB 1.6 kw	
	Z axis servo motor, Z1			α8iB 1.6 kw	
	Z axis servo motor, Z2			α8iB 1.6 kw	
	Hydraulic oil pump	1.5 kw (2HP)			
	Coolant pump	750 w (1HP)			
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")
	Gross weight	5830 kgs	7030 kgs	7830 kgs	8000 kgs

※THE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

■ STANDARD ACCESSORIES:

1. FANUC 0iT controller for DS series, 18iTB controller for DST series
2. FANUC two years guaranty (Europe area only)
3. Hydraulic hollow chuck and cylinder on main spindle, 6" chuck on sub-spindle
4. 12 stations turret with tool disk
5. Auto coolant (internal with open flow), hydraulic & lubrication system
6. Work light
7. Chip conveyor
8. Tool box with tools & manuals

■ OPTIONS:

1. Extra bar capacity, hydraulic chuck & 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 ±40mm, X axis motor α22iB (4kw), Z axis motor α12i (3kw)]
7. VDI driving tool holder
8. Tool presetter (Auto / Semi-auto)
9. Auto door
10. Parts catcher for sub spindle
11. Bar feeder
12. Software for bar feeder (with relay)
13. Hydrodynamic auto bar feeder
14. Transformer (power supply except 220V)
15. CE mark

CNC-TAKANG CO., LTD.

No. 72, Alley 7, Lane 98, 1st Road, Taichung Industry Park, Taichung 40767, TAIWAN

FAX: +886-4-2359 6064 E-mail: takang@ms17.hinet.net
TEL: (04)2359 6056 Web site: www.cntakang.com.tw