



HEAVY DUTY CNC LATHES **SLANT BED**

Model: TNC35 Series
VR33 Series
VR38 Series
VR43 Series

SWING: 660 - 1100mm (26" - 43")
B.C.: 760 - 5110mm

Special Design for Heavy Cutting

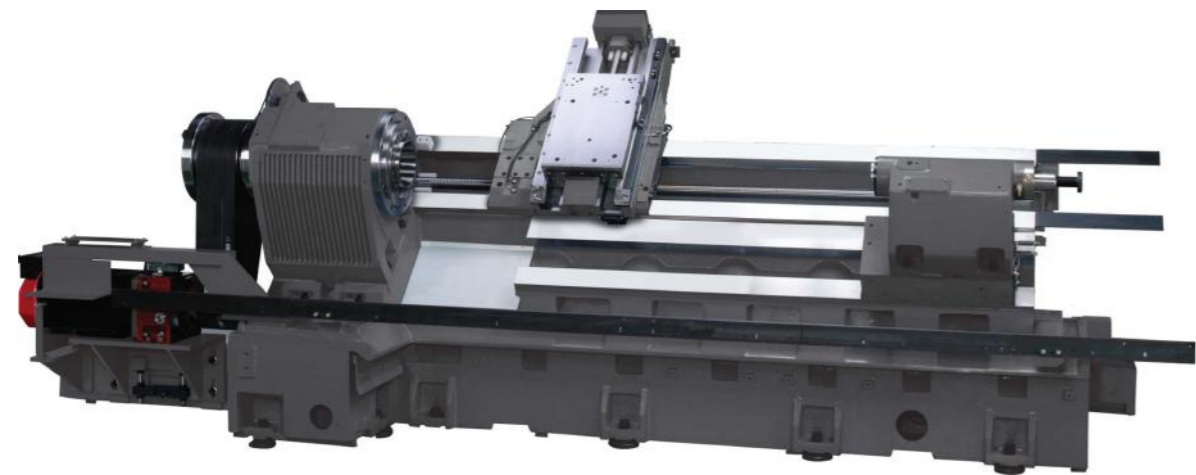
CNC-TAKANG

CNC-TAKANG CO., LTD.
MANUFACTURER & EXPORTER

CNC TAKANG
HEAVY DUTY

■ FEATURES:

- Heavy-duty specification with max. cutting diameter 500mm.
- High-Speed indexing and positioning idle time.
- 45 degree slant bed provides easier chip removal.
- The powerful and rigid spindle offer max. speed 2500rpm.



FAST, PRECISE TURRET

The turret employs a conical clutch for high accuracy positioning and features bidirectional random tool selection. Tool change is fast accomplished in only 1 sec. (adjacent tool), and 2.7 sec. (opposite tool). CF axis turret (OPT).

MASSIVE TAILSTOCK

The heavy tailstock construction assures maximum stability in heavy duty machining. Extra long quill travel reduces interference range to the tool turret. Tailstock motions are program controlled for operation convenience.



SPECIAL SPINDLE GEAR SET IN HEADSTOCK

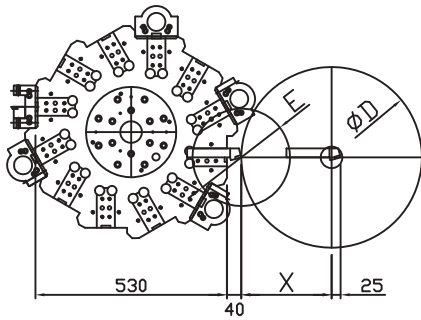


HYDRAULIC STEADY REST

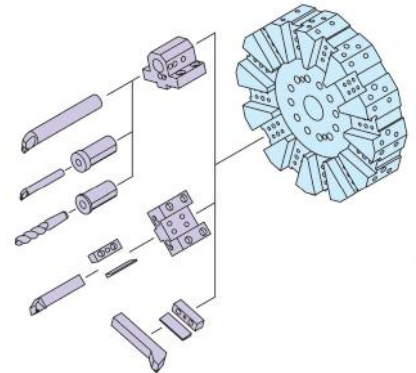


TNC35 / VR Series

■ TURRET INTERFERENCE Unit :mm (inch)

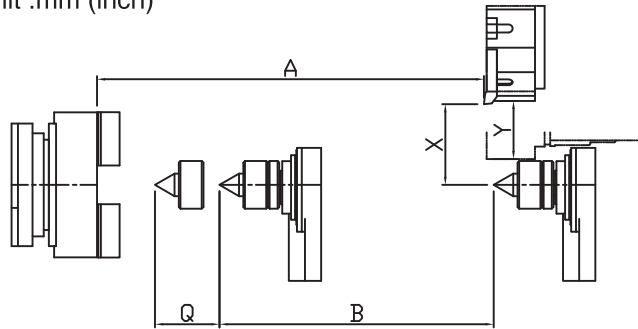


■ TOOLING SYSTEM



Specification	D	X	Y	E / Ø40		E / Ø50		Q / Live Quill		Q / Dead Quill	
				10T	12T	10T	12T	MT5	MT6	Ø110	Ø160
TNC35	500	250	180	345	280	335	270	160	100	160	160
VR33	710	360	290	345	280	335	270	160	100	160	160
VR38	850	425	355	345	280	335	270	160	200	160	160

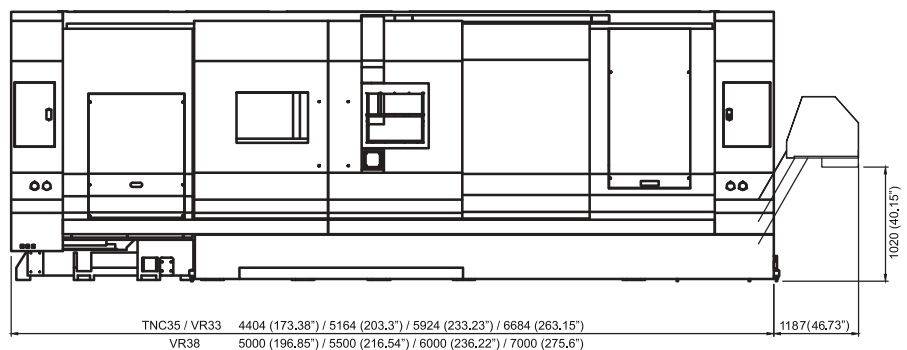
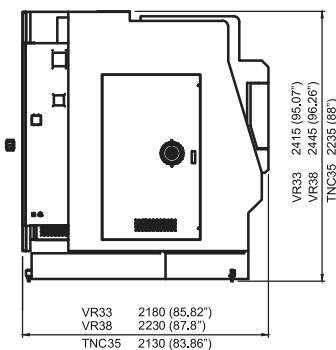
■ WORK RANGE Unit :mm (inch)



Specification	A	B
TNC35 x 880	820	780
TNC35 x 1640	1580	1540
TNC35 x 2400	2340	2300
TNC35 x 3160	3100	3060
VR33 x 880	790	780
VR33 x 1640	1550	1540
VR33 x 2400	2310	2300
VR33 x 3160	3070	3060

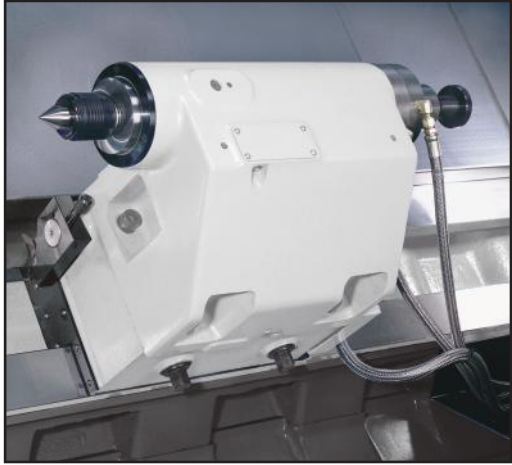
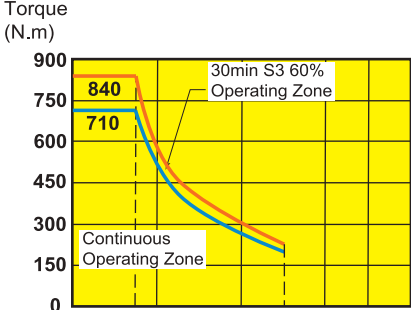
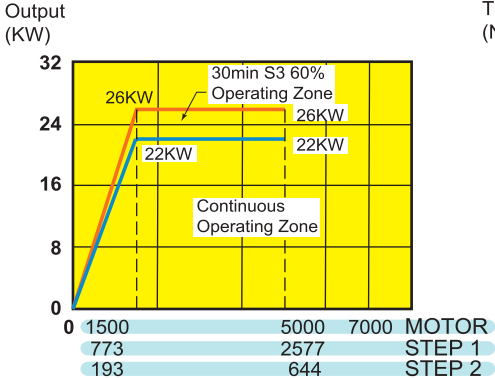
Specification	A	B
VR38 x 1200	1200	1000
VR38 x 1700	1700	1500
VR38 x 2200	2200	2000
VR38 x 3200	3200	3000

■ DIMENSION Unit : mm (inch)



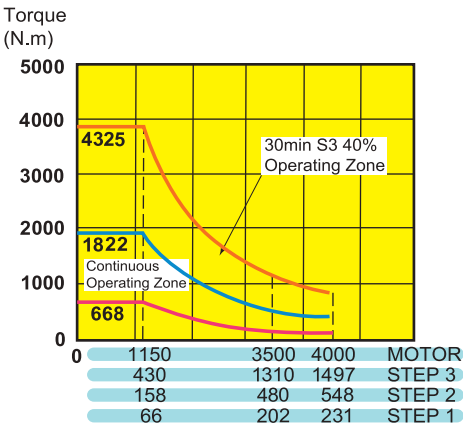
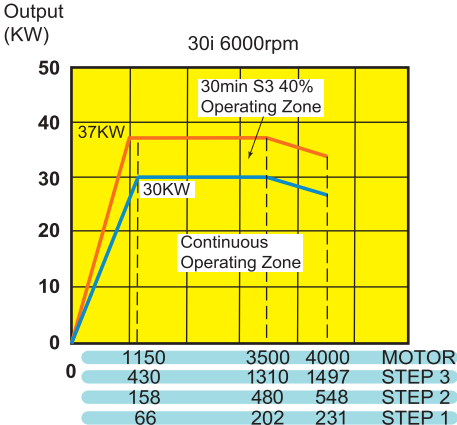
MAIN SPINDLE MOTOR OUTPUT AND TORQUE

TNC35 Series / VR33 Series



Tailstock

VR38 Series



Head stock



Direct Type Turret



Steady Rest



VDI Driving Turret

TNC35 Series

SPECIFICATIONS

		TNC35 x 860	TNC35 x 1620	TNC35 x 2380	TNC35 x 3140	TNC35 x 4140	TNC35 x 5140
Capacity	Swing over bed	660mm (25.9")					
	Swing over cross slide	480mm (18.9")					
	Max turning diameter	500mm (19.6")					
	Working length	760mm (29.9")	1520mm (59.8")	2280mm (89.7")	3040mm (119.6")	4040mm (159.05")	5040mm (198.42")
Spindle	Spindle nose	A2-8 / Opt. A2-11					
	Spindle bore	Dia. 105mm (4.1") / Opt. 131mm (5.1"), 165mm (6.5")					
	Bar capacity	Dia. 89mm (3.5") / Opt. 117mm (4.6), 142mm (5.6)					
	Max. spindle speed	2500 rpm / Opt. 2000 , 1650 rpm					
	Spindle gearbox step	2					
Chuck	Hydraulic chuck size	Std. 12" / Opt. 15"					
Turret	Turret type	V10 / Opt. V12					
	Tool size	32mm (1.25") / Opt. 25mm (1")					
	ID tool holder diameter	Dia. 50mm (2")					
X / Z axis	X axis travel	250+25mm (9.84+1")					
	Z axis travel	860mm (33.8")	1620mm (63.7")	2380mm (93.7")	3140mm (123.6")	4140mm (163")	5140mm (202.36")
	X / Z axis rapid travel	X: 12 M/min Z: 15 M/min			X: 12 M/min Z: 12 M/min	X: 12 M/min Z: 8 M/min	
	X / Z axis ball screw	Dia. 40mm x P6 / Dia. 50mm x P10		Dia. 40mm x P6 / Dia. 63mm x P10			
	Cutting feed rate	0.001~500 mm/min					
Motor	Spindle	22 / 26 Kw					
	X / Z axis servo motor	4 / 4 Kw					
	Hydraulic pump	2.2 Kw					
	Coolant pump	0.75 Kw					
Tailstock	Tailstock travel	640mm (25.1")	1400mm (55.1")	2160mm (85")	2920mm (114.9")	3920mm (154.33")	4920mm (193.7")
	Quill stroke	100mm (3.9")					
	Quill diameter	110mm (4.3")					
	Taper of center	MT5					
Dimension	Machine dimension	5304×2130×2235mm	6064×2130×2235mm	6824×2130×2235mm	7584×2130×2235mm	8155×2290×2565mm	9300×2290×2565mm
	Machine weight NW/GW	10030 / 11140kgs	11300 / 13160kgs	13700 / 15700kgs	16300 / 18700kgs	17500 / 19200kgs	19000 / 21000kgs

※THE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

■ STANDARD ACCESSORIES:

1. Fanuc control and motors
2. 12" 3-jaw hydraulic chuck
3. 10 stations hydraulic turret
4. Auto coolant, hydraulic and lubrication system
5. Manual tailstock with hydraulic quill
6. Splash guard
7. Work light
8. Chip conveyor
9. Tool box with tools

■ OPTIONS:

1. Extra spindle bore and motor
2. Spindle oil chiller
3. Extra chuck
4. Programmable tailstock
5. Rotating tailstock quill
6. C axis with driving tool turret
7. Tool presetter (Auto / Manual)
8. CE mark
9. Transformer

VR33 Series

SPECIFICATIONS

		VR33 x 860	VR33 x 1620	VR33 x 2380	VR33 x 3140	VR33 x 4140	VR33 x 5140
Capacity	Swing over bed	850mm (33.4")					
	Swing over cross slide	660mm (26")					
	Max turning diameter	710mm (27.9")					
	Working length	760mm (29.9")	1520mm (59.8")	2280mm (89.7")	3040mm (119.6")	4040mm (159.05")	5040mm (198.42")
Spindle	Spindle nose	A2-8		Opt. A2-11		Opt. A2-15	
	Spindle bore	Dia. 105mm (4.1")		Opt. 131mm (5.1"), 165mm (6.5")		Opt. 180mm (7")	
	Bar capacity	Dia. 89mm (3.5")		Opt. 117mm (4.6), 142mm (5.6)		Opt. 166mm (6.5")	
	Max. spindle speed	2500 rpm		Opt. 2000 , 1650 rpm		Opt. 1300 rpm	
	Spindle gearbox step	2					
Chuck	Hydraulic chuck size	12"					
Turret	Turret type	V10 / Opt. V12					
	Tool size	32mm (1.25") / Opt. 25mm (1")					
	ID tool holder diameter	Dia. 50mm (2")					
X / Z axis	X axis travel	355+25mm (13.97+1")					
	Z axis travel	860mm (33.8")	1620mm (63.7")	2380mm (93.7")	3140mm (123.6")	4140mm (163")	5140mm (202.36")
	X / Z axis rapid travel	X: 12 M/min Z: 15 M/min			X: 12 M/min Z: 10 M/min	X: 12 M/min Z: 8 M/min	
	X / Z axis ball screw	Dia. 40mm x P6 / Dia. 50mm x P10		Dia. 40mm x P6 / Dia. 63mm x P10			
	Cutting feed rate	0.001~ 500 mm/min					
Motor	Spindle	22 / 26 Kw					
	X / Z axis servo motor	4 / 4 Kw					
	Hydraulic pump	2.2 Kw					
	Coolant pump	0.75 Kw					
Tailstock	Tailstock travel	640mm (25.1")	1400mm (55.1")	2160mm (85")	2920mm (114.9")	3920mm (154.33")	4920mm (193.7")
	Quill stroke	100mm (3.9")					
	Quill diameter	110mm (4.3")					
	Taper of center	MT5					
Dimension	Machine dimension	5304×2130×2235mm	6064×2130×2235mm	6824×2130×2235mm	7584×2130×2235mm	8155×2290×2565mm	9300×2290×2565mm
	Machine weight NW/GW	11500 / 11950kgs	12100 / 13700kgs	15600 / 16800kgs	17900 / 19200kgs	19500 / 21500kgs	21200 / 23000kgs

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■ STANDARD ACCESSORIES:

1. Fanuc control and motors
2. 12" 3-jaw hydraulic chuck
3. 10 stations hydraulic turret
4. Auto coolant, hydraulic and lubrication system
5. Manual tailstock with hydraulic quill
6. Splash guard
7. Work light
8. Chip conveyor
9. Tool box with tools

■ OPTIONS:

1. Extra spindle bore and motor
2. Spindle oil chiller
3. Extra chuck
4. Programmable tailstock
5. Rotating tailstock quill
6. C axis with driving tool turret
7. Y axis
8. Tool presetter (Auto / Manual)
9. CE mark
10. Transformer

VR38 Series

SPECIFICATIONS

		VR38 x 1250	VR38 x 1750	VR38 x 2250	VR38 x 3210	VR38 x 4150	VR38 x 5150
Capacity	Swing over bed	970mm (38.1")					
	Swing over cross slide	720mm (28.3")					
	Max turning diameter	850mm (33.4")					
	Working length	1130mm (44.4")	1630mm (64.1")	2130mm (83.8")	3090mm (121.6")	4030mm (158.66")	5030mm (198.03")
Spindle	Spindle nose	A2-11		Opt. A2-15		Opt. A2-20	
	Spindle bore / Max. spindle speed	Dia. 160mm (6.3") / 1500 rpm		Opt. dia. 230mm (9") / 700 rpm		Opt. 320mm (13") / 550 rpm Opt. 360mm (14.1") / 450 rpm	
	Bar capacity	Deped on chuck					
	Spindle gearbox step	3					
Turret	Turret type	V12					
	Tool size	32mm (1.25")					
	ID tool holder diameter	Dia. 50mm (2")					
X/Z axis	X axis travel	425+25mm (16.7"+1")					
	Z axis travel	1250mm (49.2")	1750mm (68.8")	2250mm (88.5")	3210mm (126.3")	4150(163.38)	5150(202.75)
	X / Z axis rapid travel	X: 12 M/min Z: 15 M/min			X: 12 M/min Z: 10 M/min	X: 12 M/min Z: 8 M/min	
	X / Z axis ball screw	Dia. 40mm x P6 / Dia. 50mm x P10		Dia. 40mm x P6 / Dia. 63mm x P10			
	Cutting feed rate	0.001~500 mm/min					
Motor	Spindle	30 / 37 Kw					
	X / Z axis servo motor	4 / 7 Kw					
	Hydraulic pump	3.75 Kw					
	Coolant pump	0.75 Kw					
Tailstock	Tailstock travel	950mm (37.4")	1450mm (57")	1950mm (76.7")	2910mm (114.5")	3850mm (151.57)	4850mm (190.94)
	Quill stroke	160mm (6.3")					
	Quill diameter	160mm (6.3") - Rotating quill					
	Taper of center	MT6					
Dimension	Machine dimension	6160×2230×2445mm	6660×2230×2445mm	7160×2230×2445mm	8160×2230×2445mm	9160×2230×2445mm	10160×2230×2445mm
	Machine weight NW/GW	14200 / 15000kgs	14950 / 15700kgs	15700 / 16700kgs	18400 / 19900kgs	20100 / 22100kgs	21900 / 23700kgs

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■ STANDARD ACCESSORIES:

1. Fanuc control and motors
2. 6" spindle bore
3. 12 stations hydraulic turret
4. Auto coolant, hydraulic and lubrication system
5. Programmable hydraulic tailstock with rotating quill
6. Splash guard
7. Work light
8. Chip conveyor
9. Tool box with tools

■ OPTIONS:

1. Extra spindle bore and motor
2. Spindle oil chiller
3. Chuck or rear chuck adapter
4. C axis with driving tool turret
5. Y axis
6. Tool presetter (Auto / Manual)
7. CE mark
8. Transformer

SPECIFICATIONS

		VR43 x 2260	VR43 x 3220	VR43 x 4200	VR43 x 5190
Capacity	Swing over bed	1100mm (43")			
	Swing over cross slide	940mm (28.3")			
	Max turning diameter	1020mm (40")			
	Working length	2200mm (86.6")	3190mm (125.5")	4120mm (162.2")	5110mm (201.1")
Spindle	Spindle nose	A2-11	Opt. A2-15	Opt. A2-20	
	Spindle bore / Max. spindle speed	Dia. 160mm (6.3") / 1500 rpm	Opt. dia. 230mm (9") / 700 rpm	Opt. 320mm (13") / 550 rpm Opt. 360mm (14.1") / 450 rpm	
	Bar capacity	Deped on chuck			
	Spindle gearbox step	4			
Turret	Turret type	V12			
	Tool size	32mm (1.25")			
	ID tool holder diameter	Dia. 50mm (2")			
X / Z axis	X axis travel	510+25mm (20"+1")			
	Z axis travel	2260mm (88.9")	3220mm (126.7")	4200mm (165.3")	5190mm (204.3")
	X / Z axis rapid travel	X: 12 M/min Z: 12 M/min	X: 12 M/min Z: 10 M/min	X: 12 M/min Z: 8 M/min	
	X / Z axis ball screw	Dia. 40mm x P6 / Dia. 63mm x P10			
	Cutting feed rate	0.001~500 mm/min			
Motor	Spindle	37 / 45 Kw			
	X / Z axis servo motor	4 / 7 Kw			
	Hydraulic pump	3.75 Kw			
	Coolant pump	0.75 Kw			
Tailstock	Tailstock travel	1900mm (74.8")	2900mm (114.1")	3900mm (153.5")	4900mm (192.9")
	Quill stroke	200mm (7.87")			
	Quill diameter	200 mm (7.87")- Rotating quill			
	Taper of center	MT6			
Dimension	Machine dimension	8700×3158×3050mm	9700×3158×3050mm	10700×3158×3050mm	11700×3158×3050mm
	Machine weight NW/GV	18000 / 20000kgs	23000 / 27000kgs	27000 / 31000kgs	32000 / 36000kgs

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■ STANDARD ACCESSORIES:

Same as VR38 Series (P.8)

■ OPTIONS:

Same as VR38 Series (P.8)

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