

VT VTM SERIES

Vertical Turning Milling Solution



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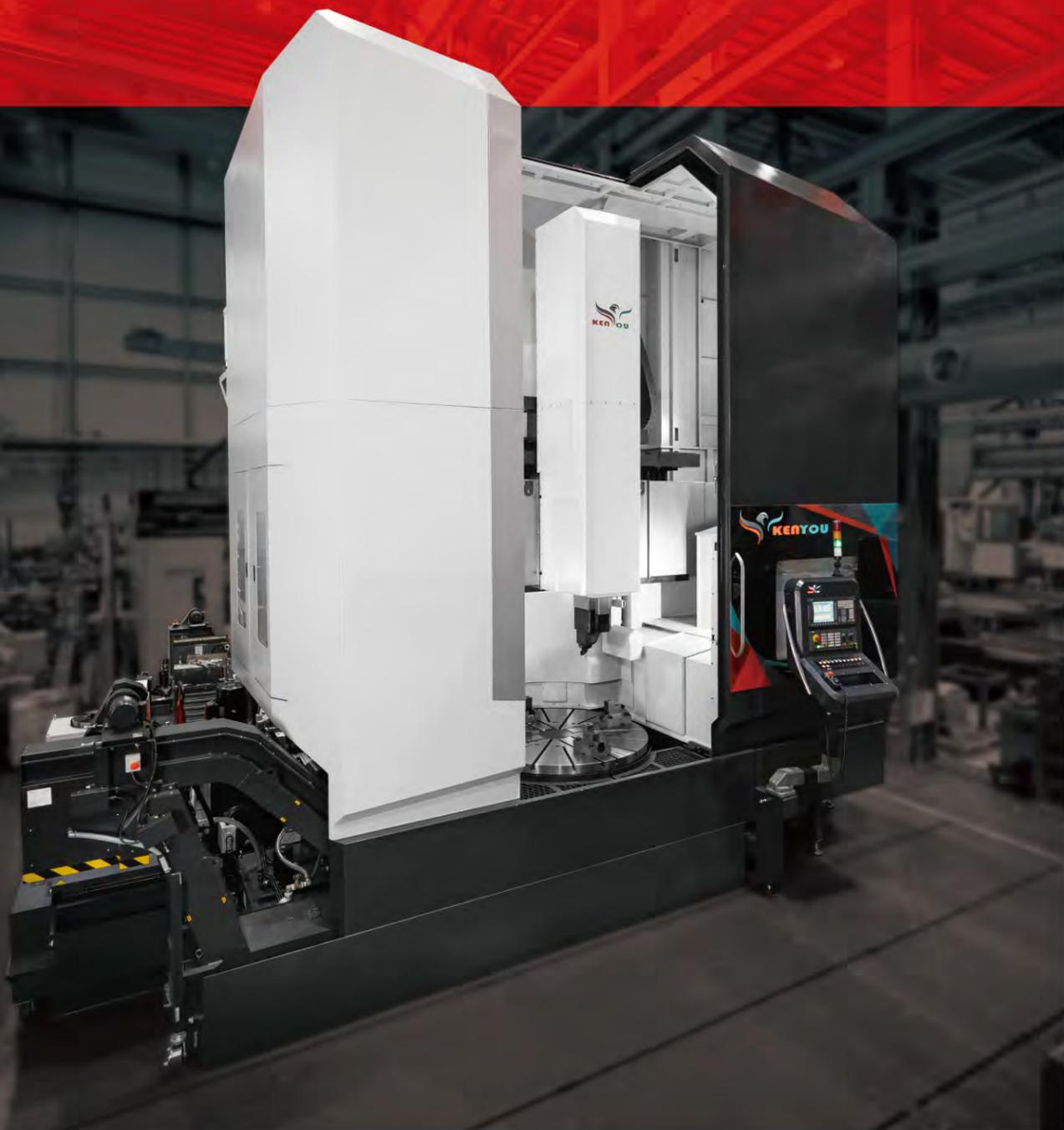


VT/VTM-E-2024S2



KENYOU

VT/VTM SERIES



2 Axis & 3 Axis Vertical Turning Milling Solution

KENYOU VT/VTM series is designed with modularization consideration, which reserved the capability for different application requirements such as column extension, RAM extension, larger table diameter, machine bed extension for APC system and multi-function magazine...etc.

KENYOU VT/VTM series is built as one piece basic machine bed to ensure best rigidity and limited thermal distortion, precise and high-frequency hardening guide ways, unique overall machine design with several patent designs like Ball & Collet tooling system with 8 tons clamping force suitable for heavy cutting; automatic Capto tool and attachment head change, large storage magazine achieve full automation in single machine; high pressure coolant through system with multiple filter system provide efficient machining, all these features perform KENYOU machine with high accuracy, rigidity and stability, ideal for different type of industries.



Vertical



Turning



Milling



Grinding



CAPTO



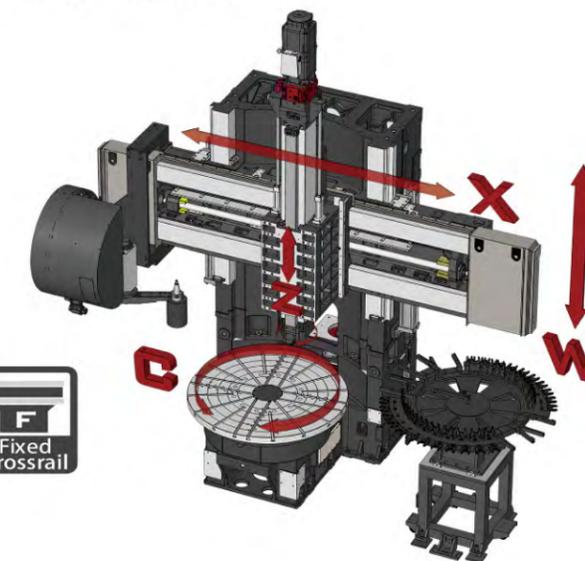
B Axis



Dual Tunnels



Fixed Crossrail



Frame of Model C

Definition of Machine Specification

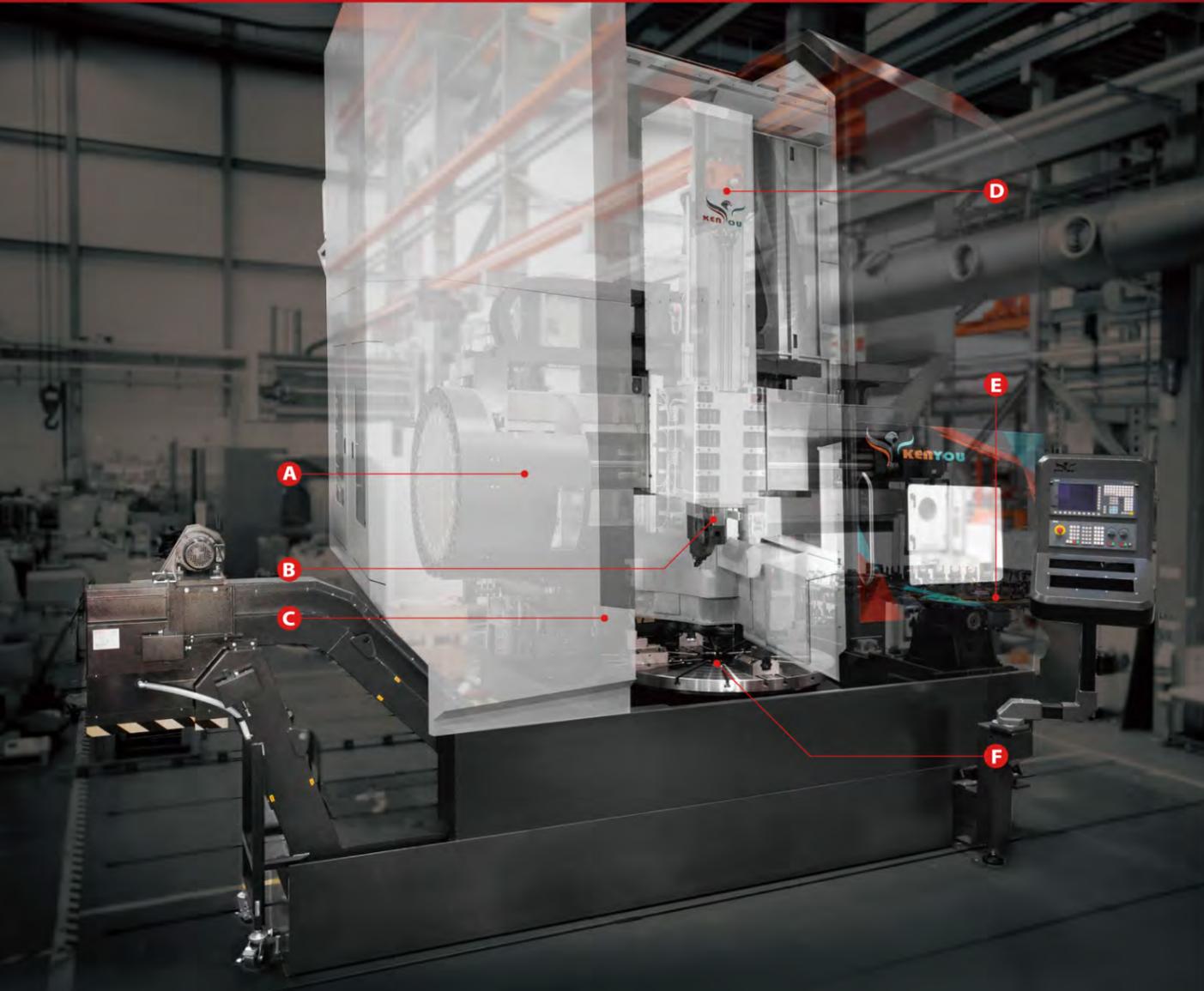
VTM ab cd - F / D / B / G / C / APC



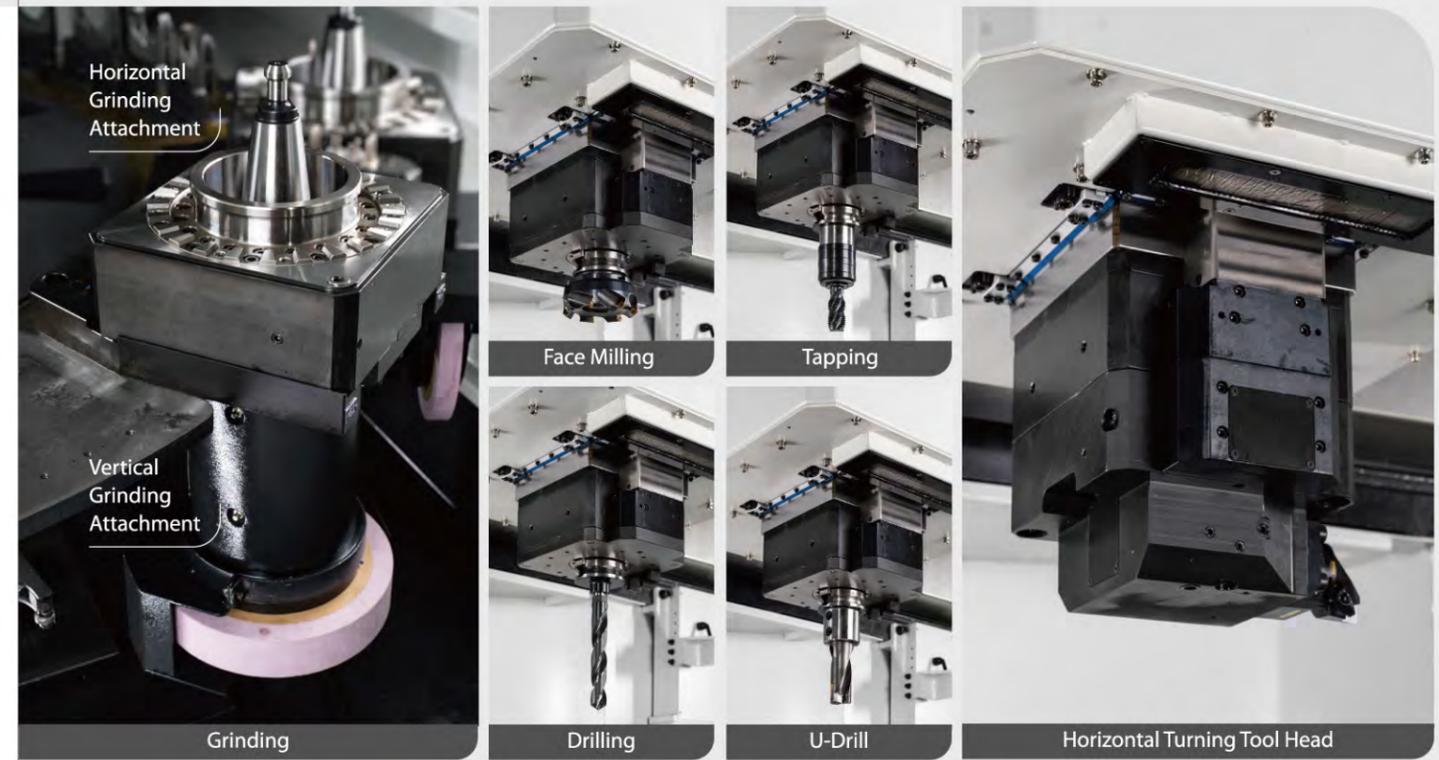
Consult with sales for more information

KENYOU

Major Features

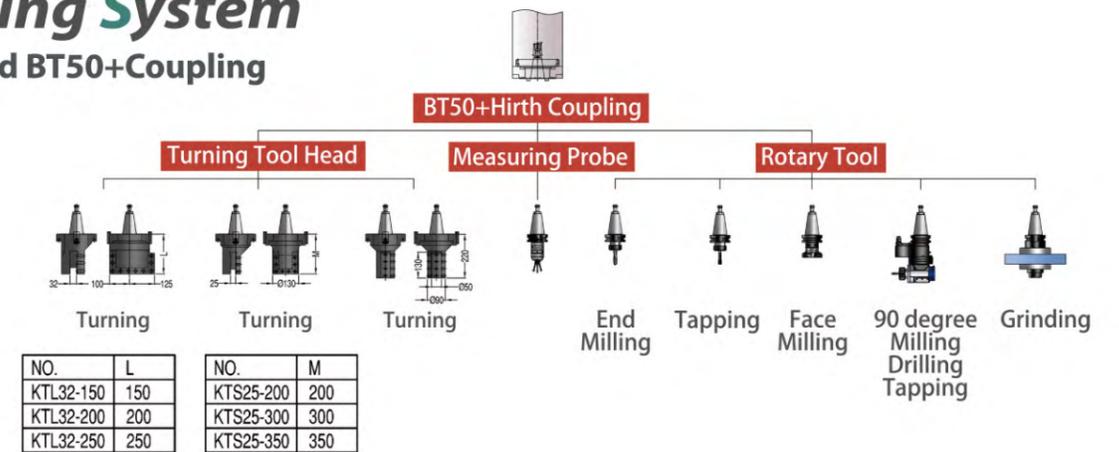


- A** Quick Change Milling Tool Magazine
- B** Patent Design High Pull Force Tool Clamping System
- C** Full Wrapped High Rigidity Column
- D** Direct-Drive Milling Spindle
- E** Automatic Head/Tool Change Magazine
- F** Full Gear Transmit High Torque Vertical Workholding Spindle



Tooling System

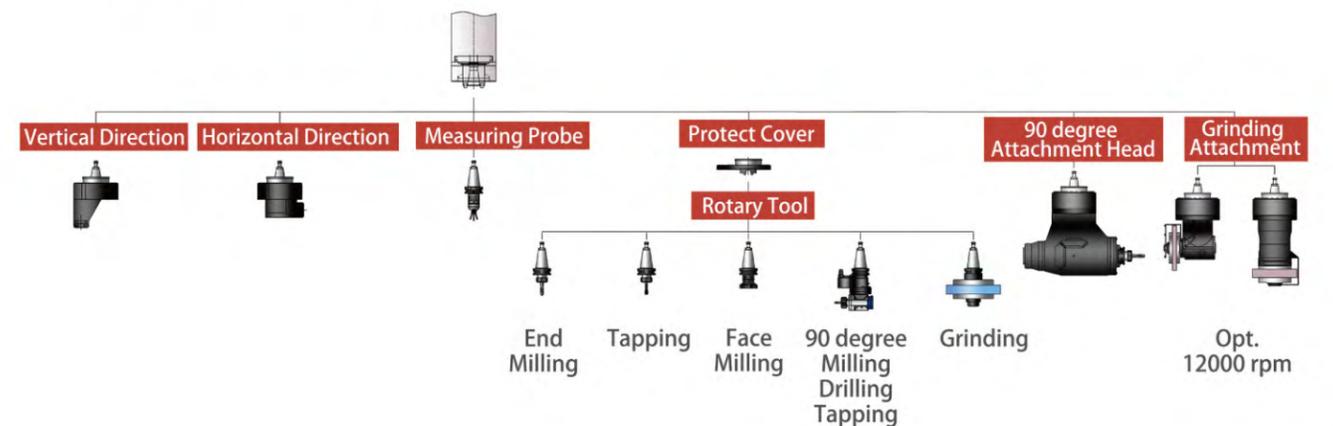
● Standard BT50+Coupling



● Patent design tooling system

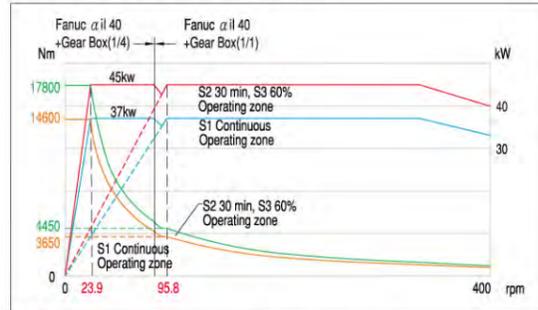
(model C - automatic clamping/unclamping Capto C6/C8)

Rigid tooling with 8 tons clamping force

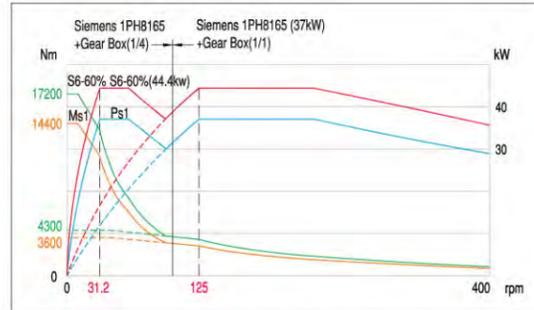


1st Spindle Torque Chart FANUC / SIEMENS

VT / VTM-1216 Series

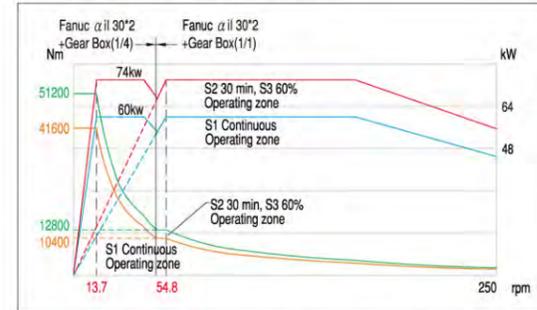


FANUC α il 40 Spindle Motor Power / Torque Chart

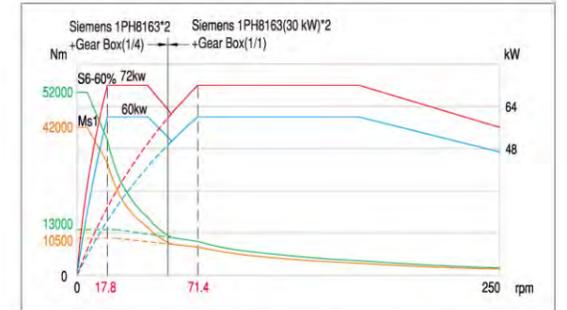


SIEMENS 37 kW Spindle Motor Power / Torque Chart

VT / VTM-2028 Series

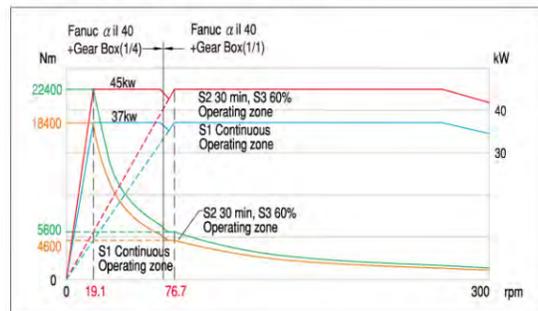


FANUC α il 30x2 Spindle Motor Power / Torque Chart

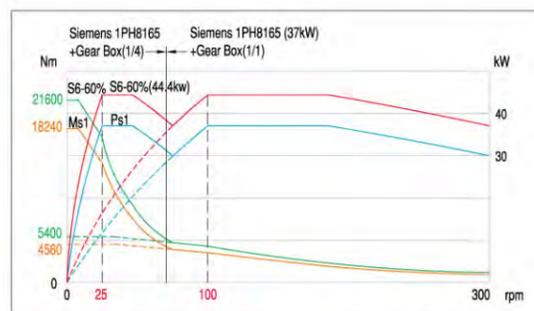


SIEMENS 30 kW x2 Spindle Motor Power / Torque Chart

VT / VTM-1616 Series

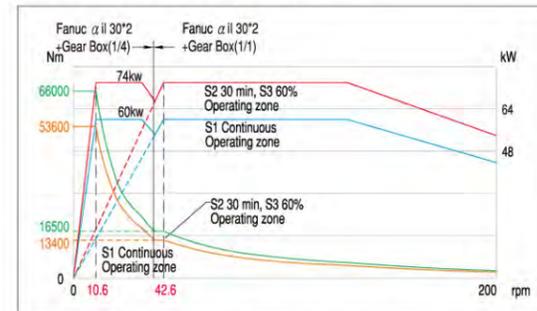


FANUC α il 40 Spindle Motor Power / Torque Chart

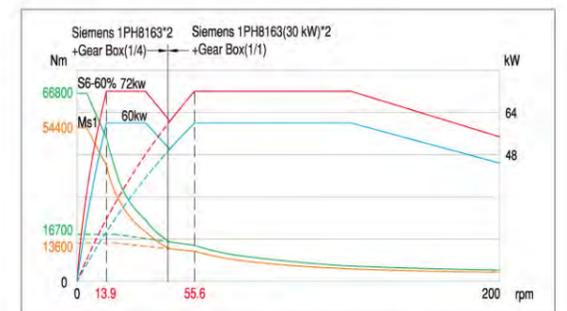


SIEMENS 37 kW Spindle Motor Power / Torque Chart

VT / VTM-2528 Series

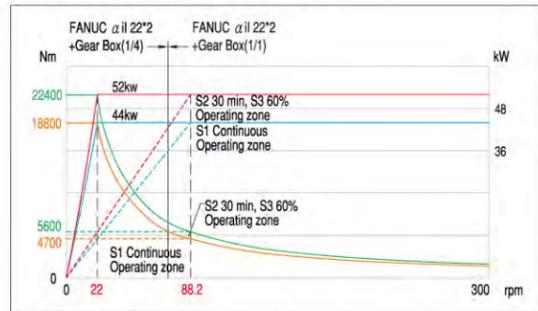


FANUC α il 30x2 Spindle Motor Power / Torque Chart

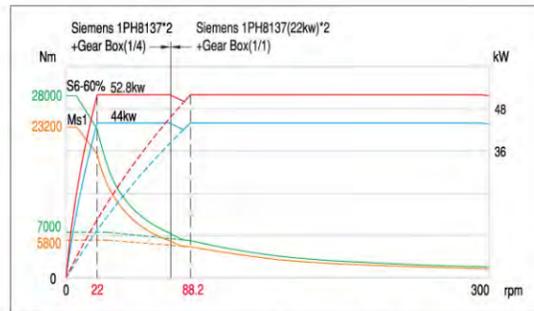


SIEMENS 30 kW x2 Spindle Motor Power / Torque Chart

VT / VTM-1623 Series

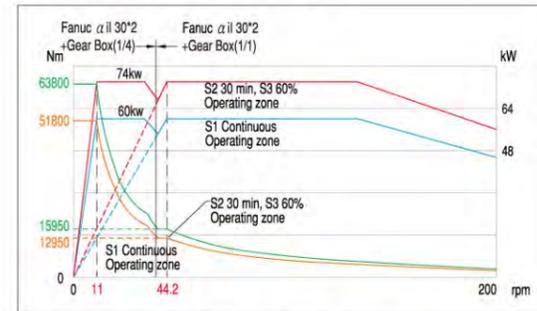


FANUC α iIT 22x2 Spindle Motor Power / Torque Chart

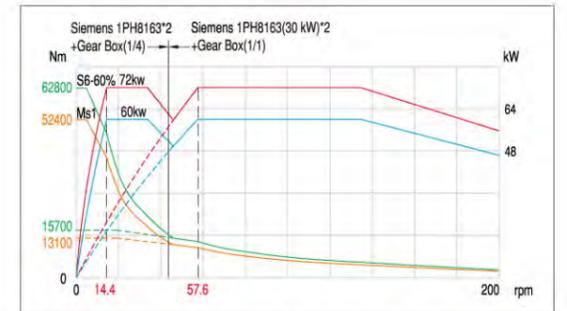


SIEMENS 22 kW x2 Spindle Motor Power / Torque Chart

VT / VTM-2534 Series

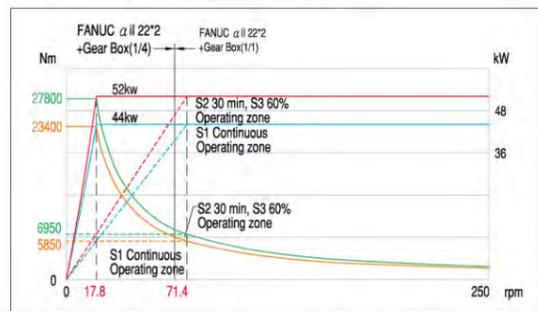


FANUC α iIT 30x2 Spindle Motor Power / Torque Chart

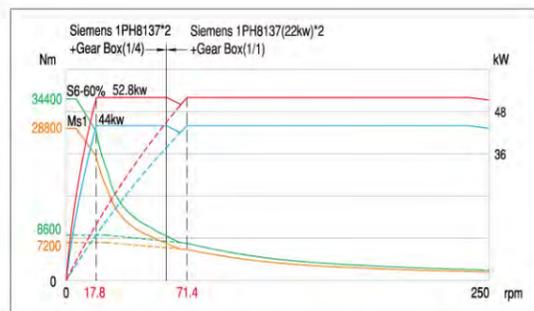


SIEMENS 30 kW x2 Spindle Motor Power / Torque Chart

VT / VTM-2023 Series

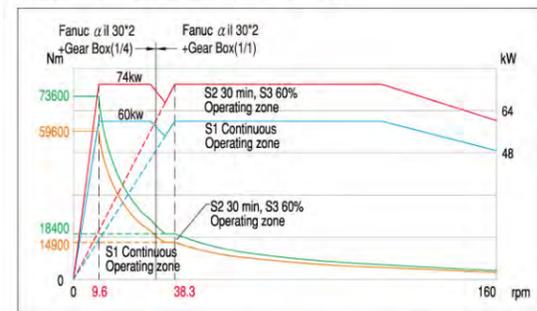


FANUC α iIT 22x2 Spindle Motor Power / Torque Chart

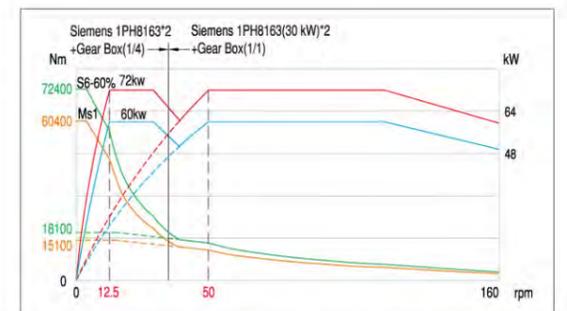


SIEMENS 22 kW x2 Spindle Motor Power / Torque Chart

VT / VTM-3034 Series

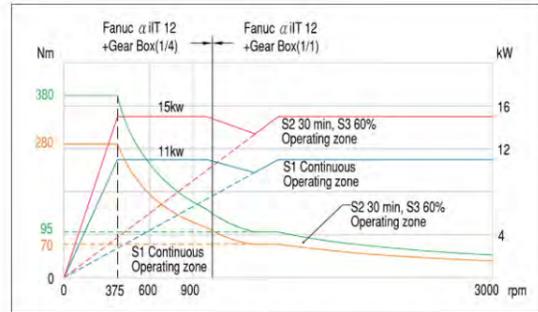


FANUC α iIT 30x2 Spindle Motor Power / Torque Chart

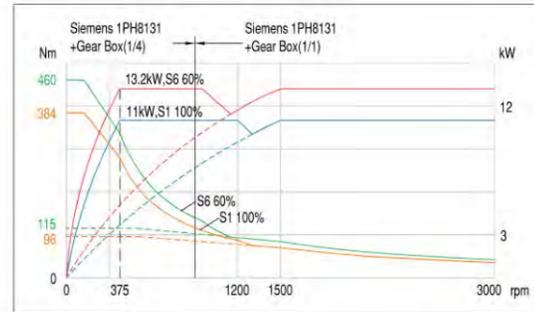


SIEMENS 30 kW x2 Spindle Motor Power / Torque Chart

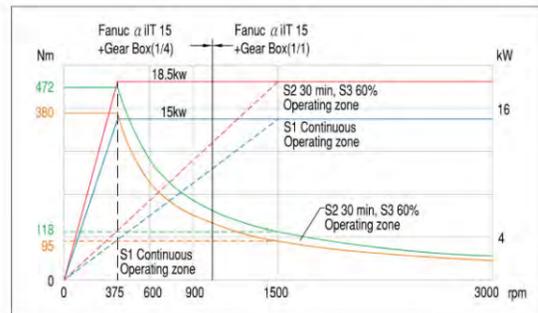
2st Spindle Torque Chart FANUC / SIEMENS



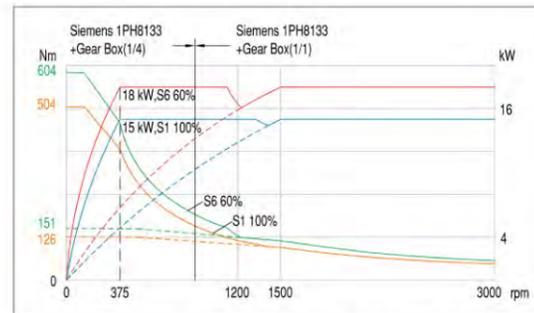
FANUC α iT 12 Spindle Motor Power / Torque Chart



SIEMENS 11 kW Spindle Motor Power / Torque Chart

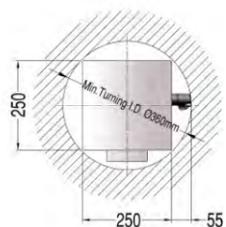
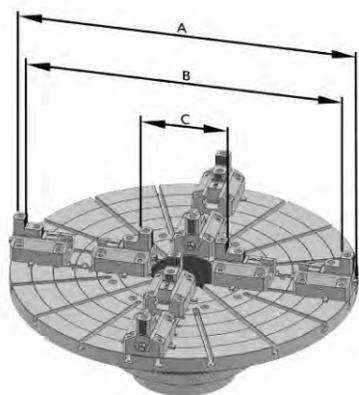


FANUC α iT 15 Spindle Motor Power / Torque Chart



SIEMENS 15 kW Spindle Motor Power / Torque Chart

Working Dimensions



		Unit : mm			
	Model	Table Dia.(A)	Table Dia.(B)	Min.(C)	
I.D. Chucking	VT/VTM-1216	1250	1250	450	
	VT/VTM-1616	1600	1600		
	VT/VTM-1623	1600	1600	550	
	VT/VTM-2023	2000	2000		
	VT/VTM-2028	2000	2000	650	
	VT/VTM-2528	2500	2500		
	VT/VTM-2534	2500	2500	750	
	VT/VTM-3034	3000	3000		
O.D. Chucking	VT/VTM-1216	1250	1100	280	
	VT/VTM-1616	1600	1450		
	VT/VTM-1623	1600	1450	380	
	VT/VTM-2023	2000	1860		
	VT/VTM-2028	2000	1860	480	
	VT/VTM-2528	2500	2360		
	VT/VTM-2534	2500	2360	580	
	VT/VTM-3034	3000	2860		

Standard and Optional Accessories

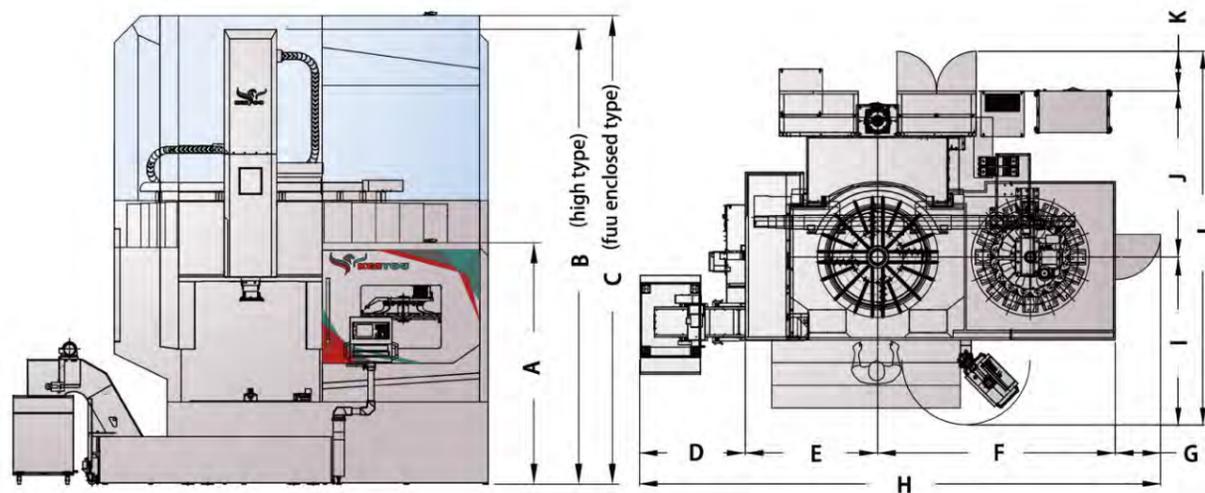
● Standard ○ Optional x Not applicable

Model	VT Series	VT-C Series	VT-G Series	VT-GC Series	VTM Series	VTM-C Series	VTM-G Series	VTM-GC Series
FANUC OITF Plus	●	●	●	●	●	●	●	●
SIEMENS SINUMERIK 828D	●	●	●	●	●	●	●	●
SIEMENS SINUMERIK ONE	○	○	○	○	○	○	○	○
Gear reducer for linear axes	○	○	○	○	○	○	○	○
Full gear transmission Vertical Workholding Spindle	●	●	●	●	●	●	●	●
Two-speeds gearbox on main spindle	●	●	●	●	●	●	●	●
4 jaws manual chuck	●	●	●	●	●	●	●	●
Power chuck(3 jaws ; 4 jaws ; 3+4 jaws ; 4+4 jaws)	○	○	○	○	○	○	○	○
Hydraulic positioning and clamping system for W-axis	●	●	●	●	●	●	●	●
Direct-drive milling spindle	x	x	●	●	●	●	●	●
Two-speeds gearbox on milling spindle	x	x	x	x	●	●	●	●
Hydraulic system	●	●	●	●	●	●	●	●
Pneumatic system	●	●	●	●	●	●	●	●
Centralized guide ways lubrication system	●	●	●	●	●	●	●	●
Coolant system and tank	●	●	●	●	●	●	●	●
Chain type chip conveyer	●	●	●	●	●	●	●	●
Combination type chip conveyer	○	○	○	○	○	○	○	○
High type machine guard	●	●	●	●	●	●	●	●
Full enclosed machine guard	○	○	○	○	○	○	○	○
HEIDENHAIN Abso. Linear Scale 5 μm for linear axes	○	○	○	○	○	○	○	○
HEIDENHAIN Rotary encoder for CF axis	x	x	x	x	●	●	●	●
BT50+Coupling Tooling system	●	x	●	x	●	x	●	x
Ball & Collet Lock Tooling System	○	x	○	●	○	●	○	●
Oil Chiller	●	●	●	●	●	●	●	●
Coolant chiller	○	○	○	○	○	○	○	○
3 colors alarm lights	●	●	●	●	●	●	●	●
Work light	●	●	●	●	●	●	●	●
Bed coolant flushing system	●	●	●	●	●	●	●	●
RS-232 and RJ45 interface	●	●	●	●	●	●	●	●
MPG hand wheel	●	●	●	●	●	●	●	●
Tool kit / leveling pad and bolt	●	●	●	●	●	●	●	●
Auto tool length measurement	○	○	○	○	○	○	○	○
Auto workpiece measurement	○	○	○	○	○	○	○	○

VT/VTM SERIES

Machine Dimensions and Space Requirement

● Standard machine (High type /Full enclosed guard)



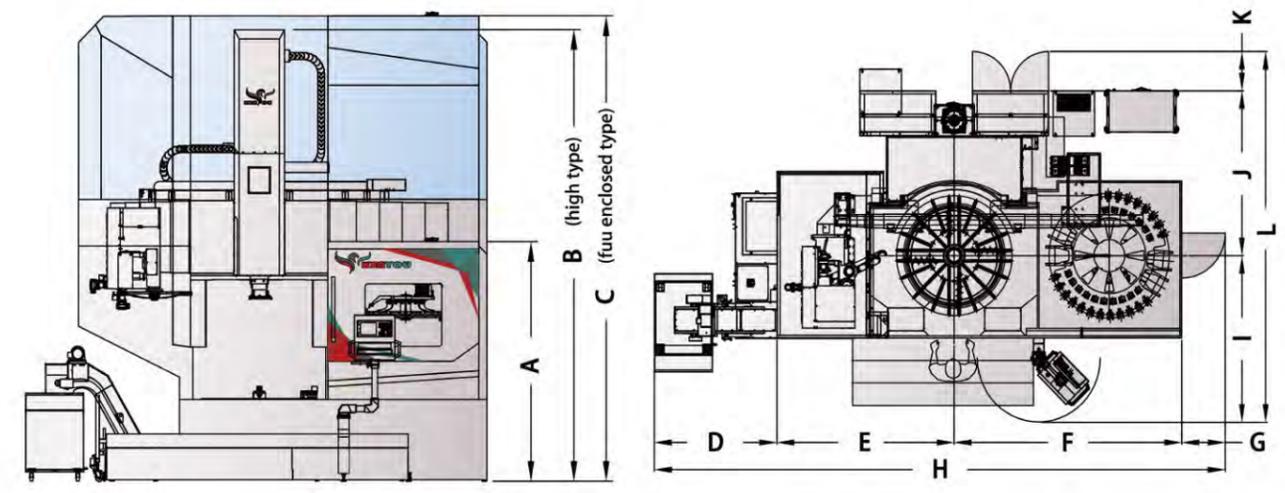
Unit : mm

Standard	A	B	C	D	E	F
VT/VTM-1216 / 1616	3400	6030	6220	1400	1755	3150
VT/VTM-1623 / 2023	3400	6060	6250	1400	2100	3400
VT/VTM-2028 / 2528	3800	7120	7300	1822	2388	3700
VT/VTM-2534 / 3034	3800	7120	7300	1830	2700	3950

Unit : mm

Standard	G	H	I	J	K	L
VT/VTM-1216 / 1616	600	6905	2225	2200	525	4950
VT/VTM-1623 / 2023	600	7500	2475	2550	525	5550
VT/VTM-2028 / 2528	600	8510	2750	2900	525	6175
VT/VTM-2534 / 3034	600	9080	3000	3200	525	6750

● Model C (High type /Full enclosed guard)



Unit : mm

Model C	A	B	C	D	E	F
VT/VTM-1216 / 1616	3400	6030	6220	1600	2455	3150
VT/VTM-1623 / 2023	3400	6060	6250	1600	2800	3500
VT/VTM-2028 / 2528	3800	7120	7300	2160	3100	3900
VT/VTM-2534 / 3034	3800	7120	7300	2160	3400	4100

Unit : mm

Model C	G	H	I	J	K	L
VT/VTM-1216 / 1616	600	7805	2225	2200	525	4950
VT/VTM-1623 / 2023	600	8400	2475	2550	525	5550
VT/VTM-2028 / 2528	600	9760	2750	2900	525	6175
VT/VTM-2534 / 3034	600	10260	3000	3200	525	6750

VT/VTM 1216/1616 SERIES

Machine Specification

Description		Unit	VT-1216 *VT-1616	VT-1216C *VT-1616C	
Capacity	Table diameter	mm(inch)			
	Max. swing diameter	mm(inch)			
	Max. turning diameter	mm(inch)			
	Max. turning height	mm(inch)	1300 (51.18) / Opt.1700 (66.92)		
	Max. allowable workpiece weight	kg(lb)			
Travels	Travel	X-axis	mm(inch)		
		Z-axis	mm(inch)		
		W-axis	mm(inch)		
		C-axis	positions		
	Rapid traverse rate	X-axis	m/min(ipm)		
		Z-axis	m/min(ipm)		
		C-axis	min-1		
Vertical Workholding Spindle <Table>	Max. spindle speed	rpm			
	Speed range	steps			
	Motor power	30 min (S1/S6 60%)	kW(Hp)		
	Min. spindle indexing angle(C-axis)	deg			
Tool Magazine	Capacity	T	16	56	
	Max.tool length	mm(inch)			
Tooling	System	-	BT50+Coupling Opt.Ball & collet lock	Capto C8	
	Tool clamping force	kgf(kN)	Turning:3000(29.42) Opt.8000(78.5)	6000 (58.83)	
	Pull stud	-			
RAM	Ram size	mm(inch)			
	Ram side nozzles	pcs			
	Ram CTS	bar(psi)			
Milling Spindle	Max. spindle speed	rpm	-		
	Speed range	steps	-		
	Motor power	(S1/S6 60%)	kW(Hp)	-	
Power Source	Power consumption	kVA	80		
Machine Dimensions	Length x Width	mm(inch)			
	Height	mm(inch)			
	Weight	kg(lb)			
Control	System	-			

Unit : mm / inch

VT-1216G *VT-1616G	VT-1216GC *VT-1616GC	VTM-1216 *VTM-1616	VTM-1216C *VTM-1616C	VTM-1216G *VTM-1616G	VTM-1216GC *VTM-1616GC
Φ 1250 (49.21) / * Φ 1600 (62.99)					
Φ 1800 (70.86)					
Φ 1600 (62.99)					
1250 (49.2) / Opt.1650 (64.96)		1300 (51.18) / Opt.1700 (66.92)		1250 (49.2) / Opt.1650 (64.96)	
5000 (11023.11) / * 8000 (17636.98)					
-100 ~ +950 (-3.93 ~ +37.4) / Opt.-850 ~ +950 (-33.46 ~ +37.4) *Not including tool magazine travel					
1000 (39.37) / Opt.1400 (55.11)					
800 (31.49)					
5					
-			360		
10 (393.7)					
10 (393.7)					
-			5		
400 / * 300					
2-speeds gearbox(high/low)					
FANUC 0iTF Plus / SINUMERIK 828D					
37/45 (49.61/60.34) Opt.60/75(80.45/100.57)		37/44.4 (49.61/59.54) Opt.58/74(77.78/99.24)			
-			0.001		
16	39	16	72	40	63
Turning : 500 (19.68) Rotary Tool : 300(11.8)					
Ball & collet lock	Ball & collet lock + Capto C8	Turning :BT50+Coupling Opt.Ball & collet lock Milling :BT/BBT50	Turning :Ball & collet lock+Capto C8 Milling :BT/BBT50		
Turning:8000 (78.5) Milling:1800 (17.6)		Turning:2000(19.67) Opt.8000(78.5) Milling:1800 (17.6)	Turning:8000 (78.5) Milling:1800 (17.6)		
MAS 403					
250 x 250 (9.84 x 9.84)					
2					
7 (101)/ Opt. 20 (290)/70 (1015)/120 (1740)					
2400					
2					
FANUC 0iTF Plus / SINUMERIK 828D					
11/15(14.75/20.11) Opt. 15/18(20.11/24.13) ; 18.5/22(24.8/29.5) ; 22/26(29.5/34.86)		11/13.2 (14.75/17.7) Opt.15/18 (20.11/24.13) ; 18.5/22.2 (24.8/29.77) ; 22/26.4 (29.5/35.4)			
				90	
6905 x 4950 (271.85 x 194.88)					
6030(237.4)					
28500 (62831.74)			29500 (65036.36)		
FANUC 0iTF Plus / SINUMERIK 828D					

* for VT/VTM-1616 series specification

VT/VTM 1623/2023 SERIES

Machine Specification

Description		Unit	VT-1623 * VT-2023	VT-1623C * VT-2023C	
Capacity	Table diameter	mm(inch)			
	Max. swing diameter	mm(inch)			
	Max. turning diameter	mm(inch)			
	Max. turning height	mm(inch)	1300 (51.18) / Opt.1700 (66.92)		
	Max. allowable workpiece weight	kg(lb)			
Travels	Travel	X-axis	mm(inch)		
		Z-axis	mm(inch)		
		W-axis	mm(inch)		
			positions		
	Rapid traverse rate	X-axis	m/min(ipm)		
		Z-axis	m/min(ipm)		
		C-axis	min-1		
Vertical Workholding Spindle <Table>	Max. spindle speed	rpm			
	Speed range	steps			
	Motor power	30 min (S1/S6 60%)	kW(Hp)		
	Min. spindle indexing angle(C-axis)	deg			
Tool Magazine	Capacity	T	16	56	
	Max.tool length	mm(inch)			
Tooling	System	-	BT50+Coupling Opt.Ball & collet lock	Capto C8	
	Tool clamping force	kgf(kN)	Turning:3000(29.42) Opt.8000(78.5)	6000 (58.83)	
	Pull stud	-			
RAM	Ram size	mm(inch)			
	Ram side nozzles	pcs			
	Ram CTS	bar(psi)			
Milling Spindle	Max. spindle speed	rpm	-		
	Speed range	steps	-		
	Motor power	(S1/S6 60%)	kW(Hp)	-	
Power Source	Power consumption	kVA	80		
Machine Dimensions	Length x Width	mm(inch)			
	Height	mm(inch)			
	Weight	kg(lb)			
Control	System	-			

Unit : mm / inch

VT-1623G * VT-2023G	VT-1623GC * VT-2023GC	VTM-1623 * VTM-2023	VTM-1623C * VTM-2023C	VTM-1623G * VTM-2023G	VTM-1623GC * VTM-2023GC
Φ 1600 (49.21) / * Φ 2000 (62.99)					
Φ 2300 (90.55)					
Φ 2300 (90.55)					
1250 (49.2) / Opt.1650 (64.96)		1300 (51.18) / Opt.1700 (66.92)		1250 (49.2) / Opt.1650 (64.96)	
8000 (17636.98) / * 10000 (22046.23)					
-100 ~ +1170 (-3.93 ~ +46.06) / Opt.-1000 ~ +1170 (-39.37 ~ +46.06) *Not including tool magazine travel					
1000 (39.37) / Opt.1400 (55.11)					
800 (31.49)					
5					
				360	
10 (393.7)					
10 (393.7)					
				5	
300 / * 200					
2-speeds gearbox(high/low)					
FANUC 0iTF Plus / SINUMERIK 828D					
22 / 26 x 2 (29.5 / 34.86)					
				0.001	
16	39	16	72	40	63
Turning : 500 (19.68) Rotary Tool : 300(11.8)					
Ball & collet lock	Ball & collet lock + Capto C8	Turning :BT50+Coupling Opt.Ball & collet lock Milling :BT/BBT50	Turning :Ball & collet lock+Capto C8 Milling :BT/BBT50		
Turning:8000 (78.5) Milling:1800 (17.6)		Turning:2000(19.67) Opt.8000(78.5) Milling:1800 (17.6)	Turning:8000 (78.5) Milling:1800 (17.6)		
MAS 403					
250 x 250 (9.84 x 9.84)					
2					
7 (101)/ Opt. 20 (290)/70 (1015)/120 (1740)					
2400					
2					
FANUC 0iTF Plus / SINUMERIK 828D					
11/15(14.75/20.11) Opt. 15/18(20.11/24.13) ; 18.5/22(24.8/29.5) ; 22/26(29.5/34.86)			11/13.2 (14.75/17.7) Opt.15/18 (20.11/24.13) ; 18.5/22.2 (24.8/29.77) ; 22/26.4 (29.5/35.4)		
				90	
7500 x 5550 (295.28 x 218.5)					
6060(238.58)					
32000 (70547.92)			33000 (70547.92)		
FANUC 0iTF Plus / SINUMERIK 828D					

* for VT/VTM-2023 series specification

VT/VTM 2028/2528 SERIES

Machine Specification

Description		Unit	VT-2028 * VT-2528	VT-2028C * VT-2528C	
Capacity	Table diameter	mm(inch)			
	Max. swing diameter	mm(inch)			
	Max. turning diameter	mm(inch)			
	Max. turning height	mm(inch)			
	Max. allowable workpiece weight	kg(lb)			
Travels	Travel	X-axis	mm(inch)		
		Z-axis	mm(inch)		
		W-axis	mm(inch)		
		C-axis	positions		
	Rapid traverse rate	X-axis	m/min(ipm)		
		Z-axis	m/min(ipm)		
		C-axis	min-1		
Vertical Workholding Spindle <Table>	Max. spindle speed		rpm		
	Speed range		steps		
	Motor power	30 min (S1/S6 60%)	kW(Hp)		
	Min. spindle indexing angle(C-axis)		deg		
Tool Magazine	Capacity		T	16	
	Max.tool length		mm(inch)	56	
Tooling	System		-	BT50+Coupling Opt.Ball & collet lock	
	Tool clamping force		kgf(kN)	Turning:3000(29.42) Opt.8000(78.5)	
	Pull stud		-	Capto C8 6000 (58.83)	
RAM	Ram size		mm(inch)		
	Ram side nozzles		pcs		
	Ram CTS		bar(psi)		
Milling Spindle	Max. spindle speed		rpm	-	
	Speed range		steps	-	
	Motor power	(S1/S6 60%)	kW(Hp)	-	
Power Source	Power consumption		kVA	110	
Machine Dimensions	Length x Width		mm(inch)		
	Height		mm(inch)		
	Weight		kg(lb)		
Control	System		-		

Unit : mm / inch

VT-2028G * VT-2528G	VT-2028GC * VT-2528GC	VTM-2028 * VTM-2528	VTM-2028C * VTM-2528C	VTM-2028G * VTM-2528G	VTM-2028GC * VTM-2528GC
Φ 2000 (78.74) / * Φ 2500 (98.43)					
Φ 2800 (110.24)					
Φ 2800 (110.24)					
1700 (66.92) / Opt.2100 (82.67)					
10000 (22046.23) / * 15000 (33069.34)					
-200 ~ +1400 (-7.87 ~ +55.12) / Opt.-1200 ~ +1400 (-47.24 ~ +55.12) *Not including tool magazine travel					
1200 (47.24) / Opt.1400 (55.11)					
1000 (39.37)					
5					
-					
360					
10 (393.7)					
10 (393.7)					
-					
4					
200 / * 160					
2-speeds gearbox(high/low)					
FANUC 0iTF Plus / SINUMERIK 828D					
30 / 37 x 2 (40.23 / 49.61)					
-					
0.001					
16	39	16	72	40	63
Turning : 500 (19.68) Rotary Tool : 300(11.8)					
Ball & collet lock	Ball & collet lock + Capto C8	Turning :BT50+Coupling Opt.Ball & collet lock Milling :BT/BBT50	Turning :Ball & collet lock+Capto C8 Milling :BT/BBT50		
Turning:8000 (78.5) Milling:1800 (17.6)		Turning:2000(19.67) Opt.8000(78.5) Milling:1800 (17.6)	Turning:8000 (78.5) Milling:1800 (17.6)		
MAS 403					
250 x 250 (9.84 x 9.84)					
2					
7 (101)/ Opt. 20 (290)/70 (1015)/120 (1740)					
2400					
2					
FANUC 0iTF Plus / SINUMERIK 828D					
11/15(14.75/20.11) Opt. 15/18(20.11/24.13) ; 18.5/22(24.8/29.5) ; 22/26(29.5/34.86)			11/13.2 (14.75/17.7) Opt.15/18 (20.11/24.13) ; 18.5/22.2 (24.8/29.77) ; 22/26.4 (29.5/35.4)		
120					
8410 x 6055 (331.1 x 238.39)					
7120(280.31)					
46000 (101412.65)			47000 (103617.27)		
FANUC 0iTF Plus / SINUMERIK 828D					

* for VT/VTM-2528 series specification

VT/VTM 2534/3034 SERIES

Machine Specification

Description		Unit	VT-2534 *VT-3034	VT-2534C *VT-3034C
Capacity	Table diameter	mm(inch)		
	Max. swing diameter	mm(inch)		
	Max. turning diameter	mm(inch)		
	Max. turning height	mm(inch)		
	Max. allowable workpiece weight	kg(lb)		
Travels	Travel	X-axis	mm(inch)	
		Z-axis	mm(inch)	
		W-axis	mm(inch)	
			positions	
	Rapid traverse rate	C-axis	deg	
		X-axis	m/min(ipm)	
		Z-axis	m/min(ipm)	
	C-axis	min-1		
Vertical Workholding Spindle <Table>	Max. spindle speed	rpm		
	Speed range	steps		
	Motor power	30 min (S1/S6 60%) kW(Hp)		
	Min. spindle indexing angle(C-axis)	deg		
Tool Magazine	Capacity	T	16	56
	Max.tool length	mm(inch)		
Tooling	System	-	BT50+Coupling Opt.Ball & collet lock	Capto C8
	Tool clamping force	kgf(kN)	Turning:3000(29.42) Opt.8000(78.5)	6000 (58.83)
	Pull stud	-		
RAM	Ram size	mm(inch)		
	Ram side nozzles	pcs		
	Ram CTS	bar(psi)		
Milling Spindle	Max. spindle speed	rpm	-	
	Speed range	steps	-	
	Motor power	(S1/S6 60%) kW(Hp)	-	
Power Source	Power consumption	kVA	110	
Machine Dimensions	Length x Width	mm(inch)		
	Height	mm(inch)		
	Weight	kg(lb)		
Control	System	-		

Unit : mm / inch

VT-2534G *VT-3034G	VT-2534GC *VT-3034GC	VTM-2534 *VTM-3034	VTM-2534C *VTM-3034C	VTM-2534G *VTM-3034G	VTM-2534GC *VTM-3034GC
Φ 2500 (98.43) / * Φ 3000 (118.11)					
Φ 3400 (133.86)					
Φ 3400 (133.86)					
1700 (66.92) / Opt.2100 (82.67)					
15000 (33069.34) / * 20000 (44092.45)					
-200 ~ +1400 (-7.87 ~ +55.12) / Opt.-1200 ~ +1400 (-47.24 ~ +55.12) *Not including tool magazine travel					
1200 (47.24) / Opt.1400 (55.11)					
1000 (39.37)					
5					
-					
360					
10 (393.7)					
10 (393.7)					
-					
4					
160 / * 120					
2-speeds gearbox(high/low)					
FANUC 0iTF Plus / SINUMERIK 828D					
30 / 37 x 2 (40.23 / 49.61)					
-					
0.001					
16	39	16	72	40	63
Turning : 500 (19.68) Rotary Tool : 300(11.8)					
Ball & collet lock	Ball & collet lock + Capto C8	Turning :BT50+Coupling Opt.Ball & collet lock Milling :BT/BBT50	Turning :Ball & collet lock+Capto C8 Milling :BT/BBT50		
Turning:8000 (78.5) Milling:1800 (17.6)		Turning:2000(19.67) Opt.8000(78.5) Milling:1800 (17.6)	Turning:8000 (78.5) Milling:1800 (17.6)		
MAS 403					
250 x 250 (9.84 x 9.84)					
2					
7 (101)/ Opt. 20 (290)/70 (1015)/120 (1740)					
2400					
2					
FANUC 0iTF Plus / SINUMERIK 828D					
11/15(14.75/20.11) Opt. 15/18(20.11/24.13) ; 18.5/22(24.8/29.5) ; 22/26(29.5/34.86)			11/13.2 (14.75/17.7) Opt.15/18 (20.11/24.13) ; 18.5/22.2 (24.8/29.77) ; 22/26.4 (29.5/35.4)		
120					
9400 x 6800 (370.08 x 267.71)					
7200(283.46)					
50000 (110231.13)			51000 (112435.75)		
FANUC 0iTF Plus / SINUMERIK 828D					

* for VT/VTM-3034 series specification