VictorTaichung

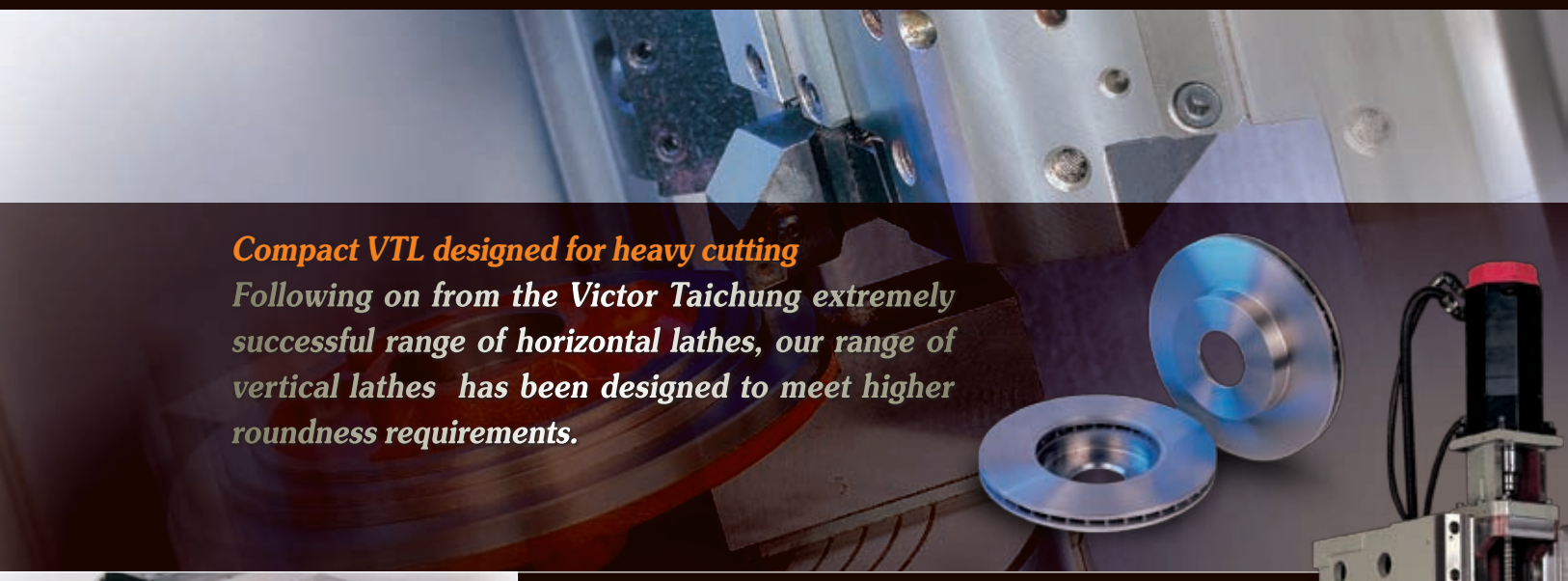
Vturn - V560/V760/V1000

Vertical Turning Lathes

- **Box Slideways** for heavy cutting
- **Meehanite® Casting** for high reliability
- **High Rapid Feed** for improved productivity
- **Leakage Free Coolant System** with optimum chip disposal

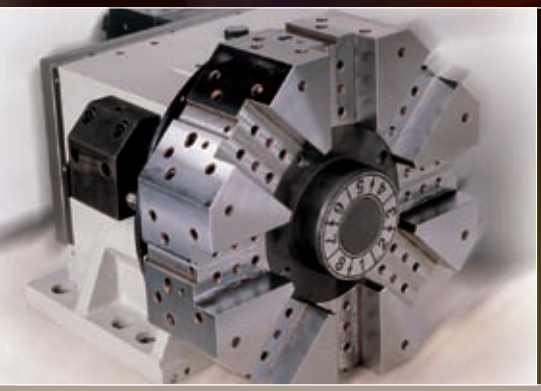
Victor Taichung – an established ISO 9001 & 14001 company

Vturn - V560



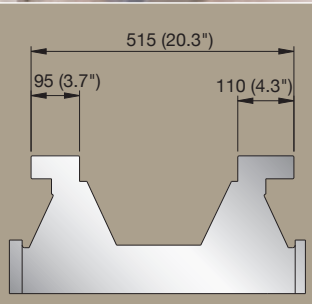
Compact VTL designed for heavy cutting

Following on from the Victor Taichung extremely successful range of horizontal lathes, our range of vertical lathes has been designed to meet higher roundness requirements.



Fast indexing hydraulic turret

- Curvic coupling for high accuracy positioning.
- Hydraulic clamping for heavy cutting.
- Fast indexing with bi-directional random selection.

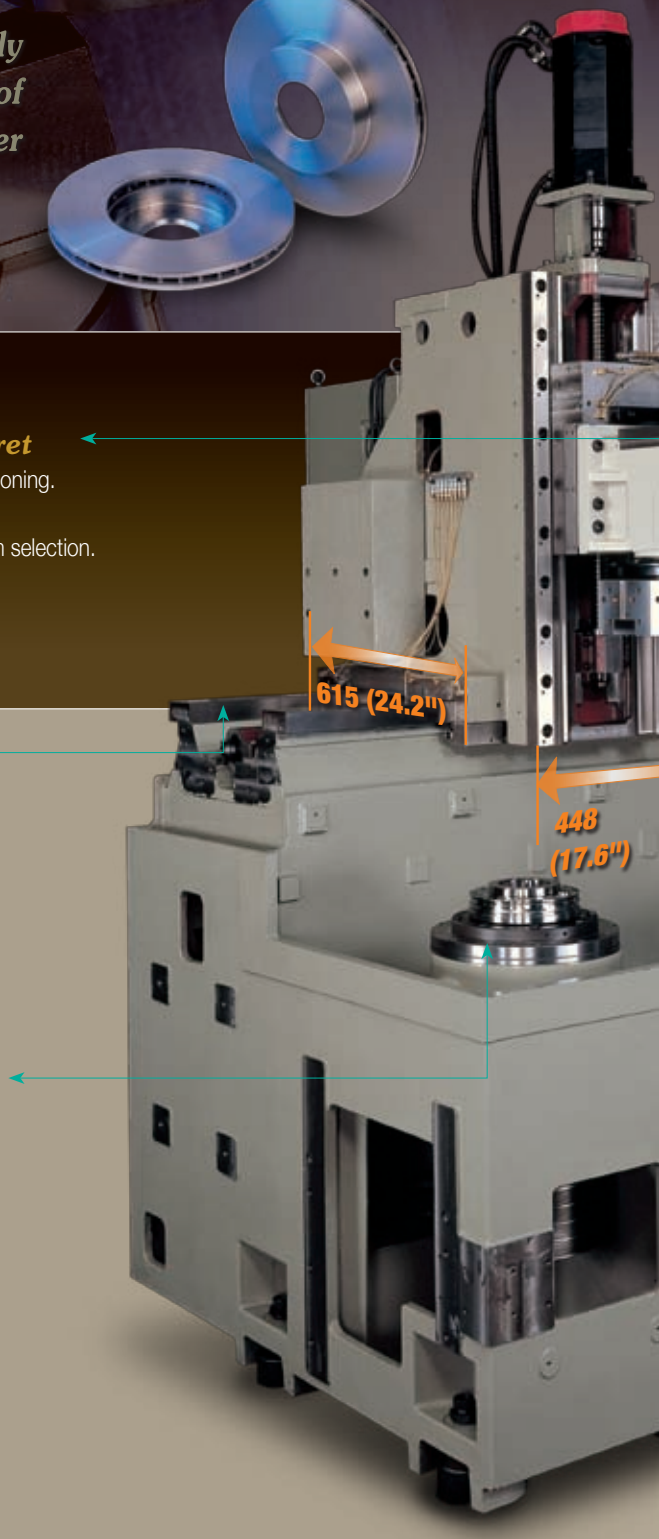


Wide Span for high rigidity

- Moving column with 515 mm (20.27") wide span sits on the machine base ensuring a stable structure for heavy cutting.

High power and high torque spindle

- Encased in a heavily ribbed headstock for maximum heat dissipation.
- A wide range spindle motor delivers maximum torque at a very low spindle speed of only 216 rpm.
- 12" hydraulic chuck as standard with an optional 10" chuck available for use at higher spindle speeds up to 3500 rpm.
- NN type roller bearings featuring large contact areas which facilitate heavy cutting, whilst an angular thrust bearing absorbs the cutting forces.
- An optional C-axis spindle with 0.001 degree indexing is available along with a VDI turret which allows secondary machining operations such as milling and drilling to be performed in one set up.



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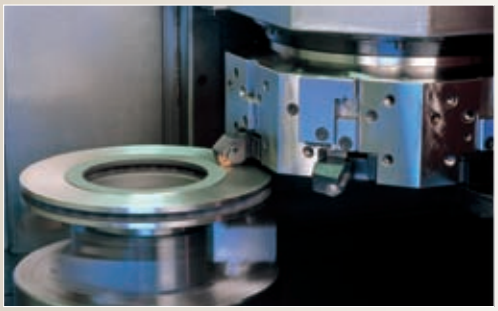
Box slideways for optimal dynamic stiffness

- A moving carriage with large base is fitted to the box slideways bolted on Z-axis column to ensure optimal rigidity and uniform cutting conditions at any location.
- 590/945 ipm rapid feed rate in X/Z axes bonded with Turcite-B and forced lubrication improve performance by eliminating stick-slip characteristics normally inherent in plain contact surface.
- The counter balanced design featuring powerful servo motors and large diameter ballscrews guarantee minimal wear to the box slideways thus prolonging the machines service life.
- The Z-axis motor incorporates a brake which prevents the turret falling should a sudden loss of power occur.

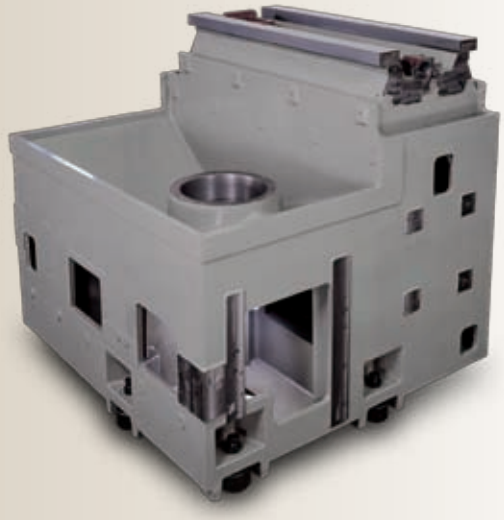


Leakage free coolant system with optimum chip disposal

- The rear disposal chip conveyor allows easy integration into a manufacturing cell.
- Coolant and chips are collected in the machine base, guaranteeing no coolant leakage during machining.
- The large coolant tank with a capacity of 68 gallons minimizes heat build up during continuous production.

Meehanite® cast iron structure

- The Meehanite® gray cast iron provides the structural stiffness and vibration damping properties which provide superior surface finishes and prolong the machines service life.
- The one piece box structure with box slideways provides the machine optimal structural rigidity.
- The steeply angled design of the machine base around the chuck and spindle areas minimizes swarf accumulation.
- The FEM (Finite Element Method) determined, optimized ribbed structure minimizes deformation during the machining operation.



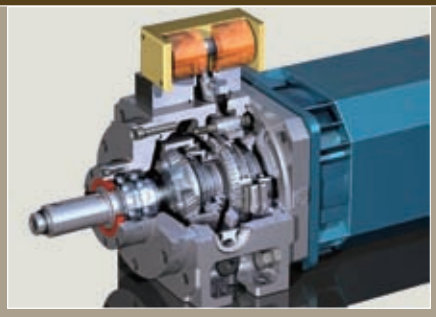
Vturn - V760

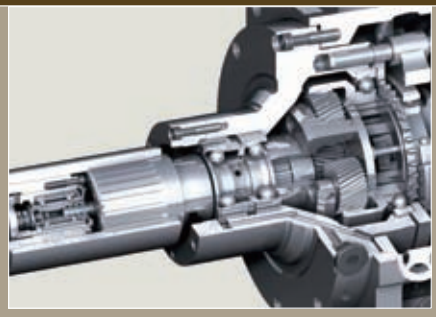
High rigidity and high reliability VTL

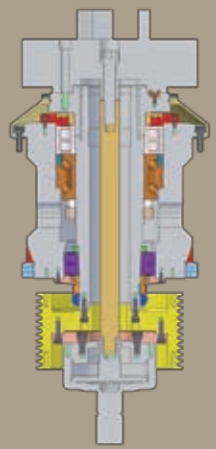
With a maximum turning diameter of 760 mm (29.92") and a swing of 900 mm (35.4") the Vturn-V760 meets the increasing demands for large size and/ or heavy part turning. The standard Fanuc αP40i wide range motor along with ZF gearbox provide high torque at extremely low spindle speeds.

Wide range spindle motor coupled with gearbox

- Fanuc wide range motor αP40i offers 22 kW (30 HP) output.
- Optional motor α30i offers even higher output 37 kW (50 HP)
- The German made ZF gearbox which lowers the base speed to 83 rpm (αP40i motor) provides the capability to efficiently machine the most exotic alloys at low rpm.
- The 2 stage gearbox also allows for the machining of smaller parts at higher speeds.

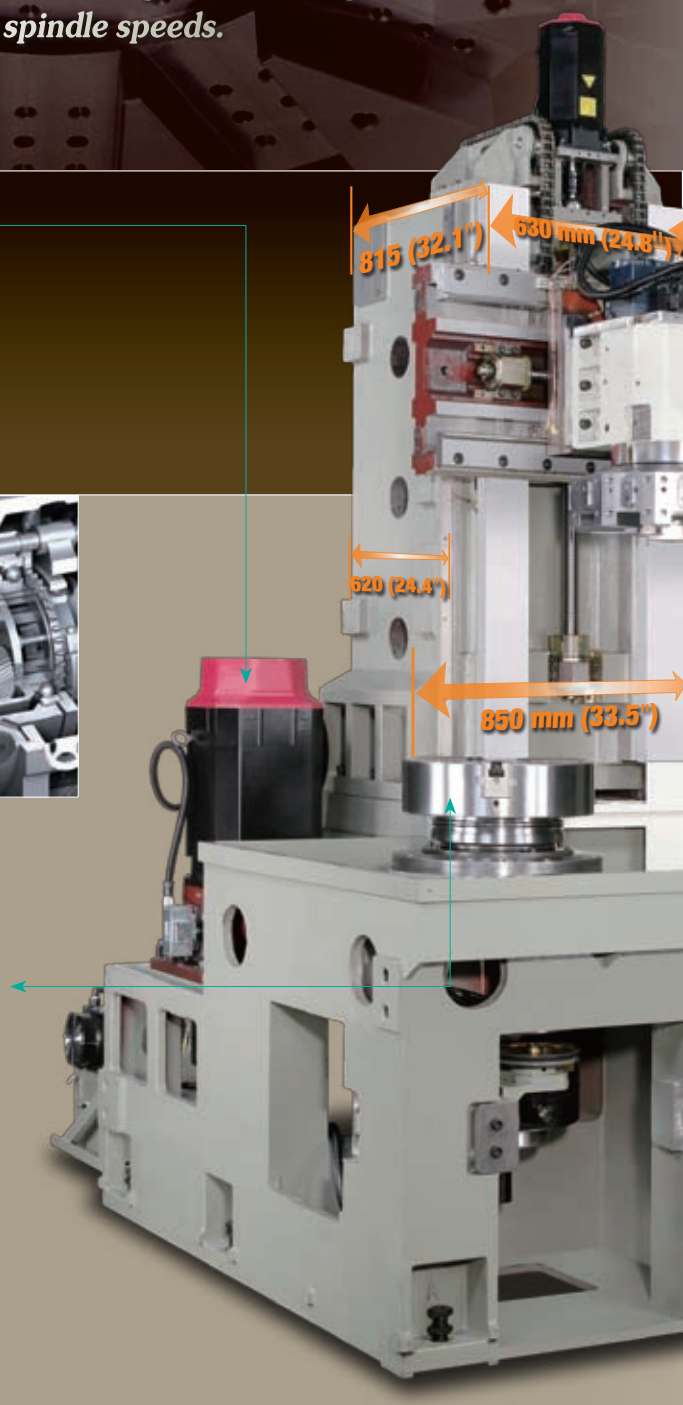






High power and high torque spindle

- Encased in a heavily ribbed headstock providing maximum heat dissipation.
- 18" solid chuck as standard and available with optional 15"/ 21"/ 24"/ 28"/ 32" chucks.
- NN type roller bearings featuring large contact areas which facilitate heavy cutting, whilst an angular thrust bearing absorbs the cutting forces.
- An optional C-axis spindle with 0.001 degree indexing is available along with a VDI turret which allows secondary machining operations such as milling and drilling to be performed in one set up.



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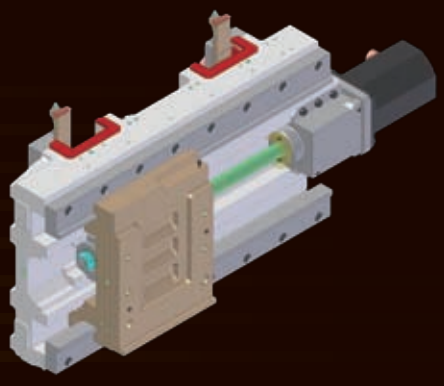
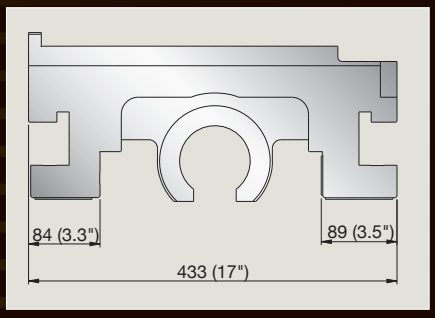
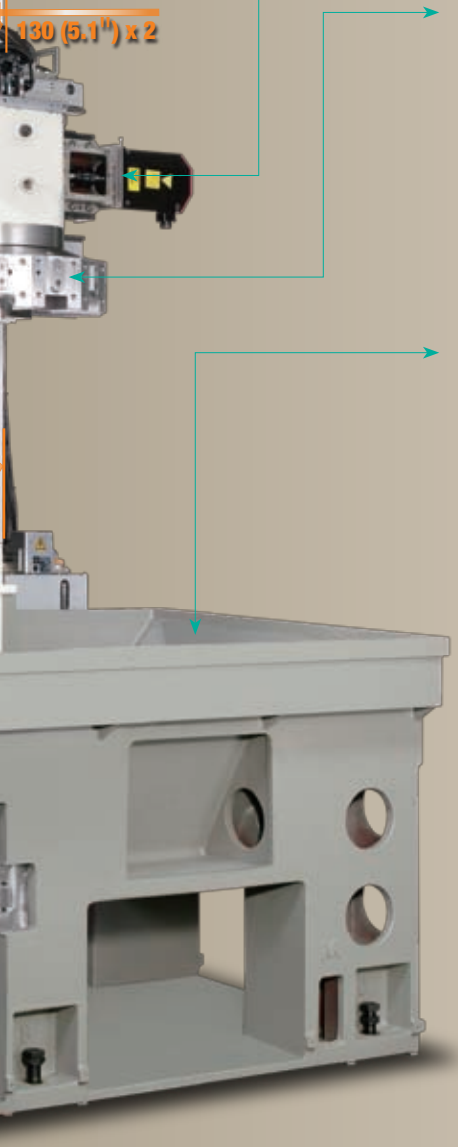
Wide span box slideways

- The heavy column with a wide span of 850 mm (33.5") sits on the machine base providing a stable structure for heavy machining.
- The carriage for the hydraulic turret also features a wide span of 433 mm (17") ensuring the rigidity required for heavy machining.
- Z-axis motor of 7 kW (9.4 HP) ensures smooth operation and improves drilling capability.

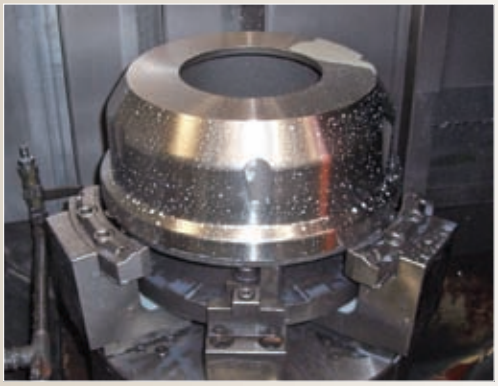






Fast indexing hydraulic turret

- Curvic coupling for high accuracy positioning.
- Hydraulic clamping for heavy cutting.
- Fast indexing with bi-directional random selection provides quick tool selection.

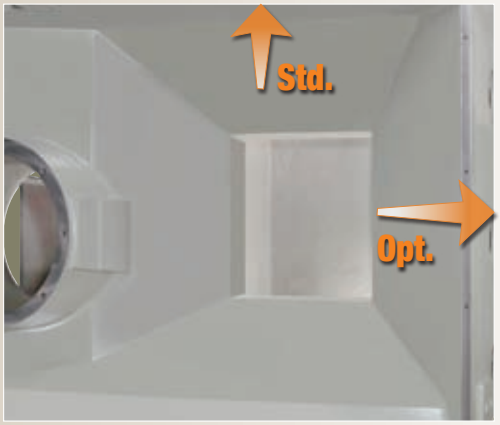


Meehanite cast iron

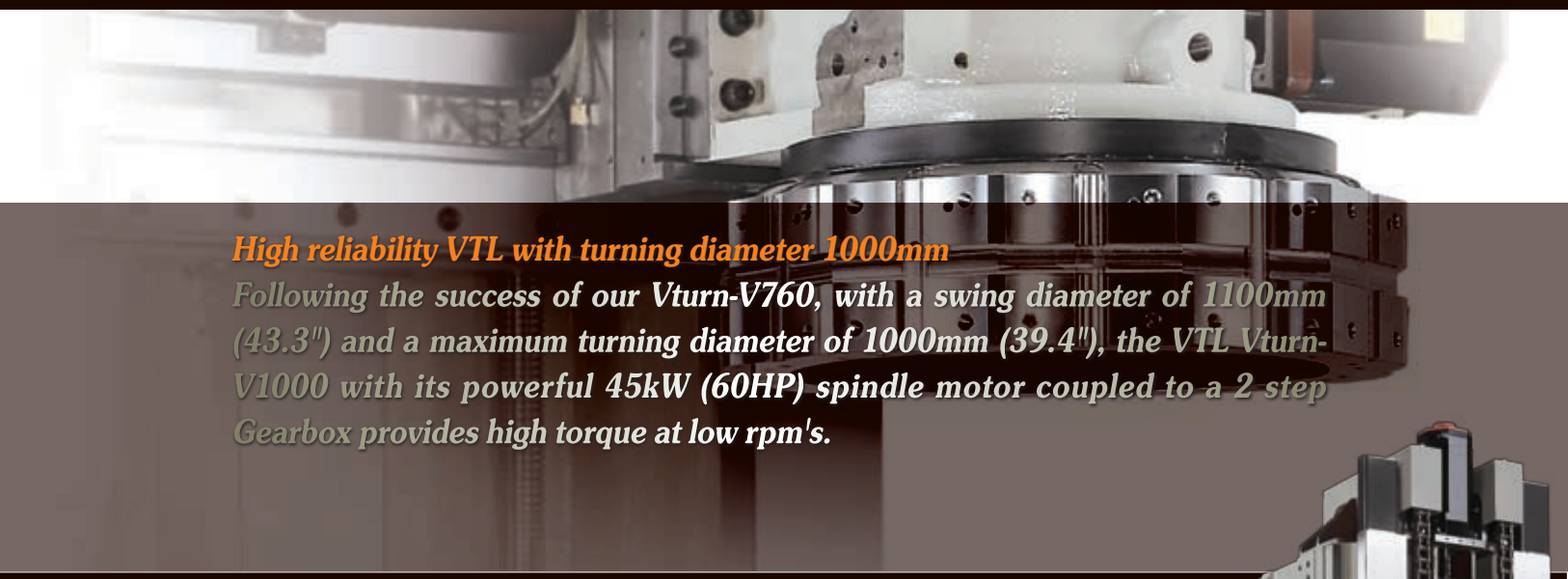
- Supplied by Victor Taichung's own foundry, this Meehanite casting features superior vibration damping and high rigidity providing improved surface finishes.
- All castings are certificated by following Meehanite process for high quailtiy nodular gray iron.

Leakage Free Coolant System with optimum chip disposal

- A Rear Disposal chip conveyor allows easy integration into a manufacturing cell.
- An optional Right Disposal chip conveyor is also available which is suitable for stand alone machines.
- The coolants and chips are collected by the cast base guaranteeing no leakage.
- The large coolant tank minimizes heat build up during continuous production.



Vturn - V1000



High reliability VTL with turning diameter 1000mm

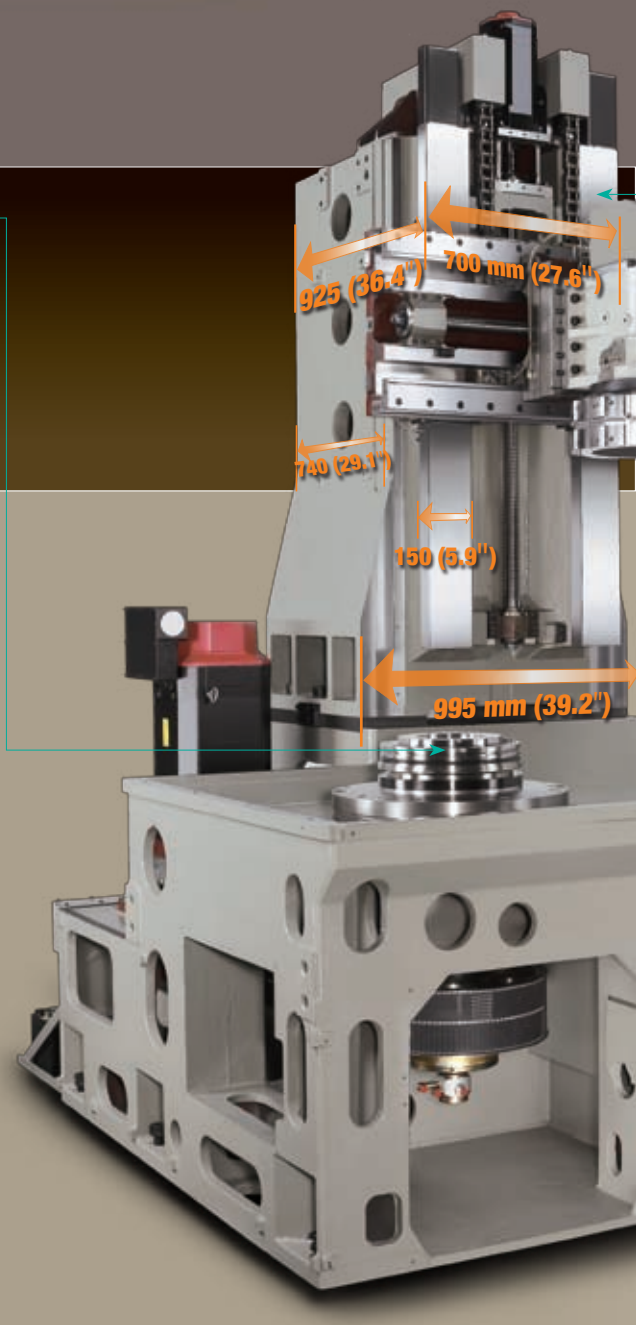
Following the success of our Vturn-V760, with a swing diameter of 1100mm (43.3") and a maximum turning diameter of 1000mm (39.4"), the VTL Vturn-V1000 with its powerful 45kW (60HP) spindle motor coupled to a 2 step Gearbox provides high torque at low rpm's.

High rigidity spindle with NN type bearings

- NN type bearings featuring double rollers with double contact area facilitate heavy cutting and longer surface life.
- 24" solid chuck as standard and available with bigger chuck up to 40".

Powerful spindle motor coupled with gearbox

- Fanuc spindle motor a40i offers 45kW (60HP) output.
- German made ZF gearbox is included as standard to lower the base speed to 96 rpm for heavy cutting on steel parts with high torque 4490 Nm (3312 ft-lbf).
- 2 step gearbox facilates higher speed turning on the smaller parts.



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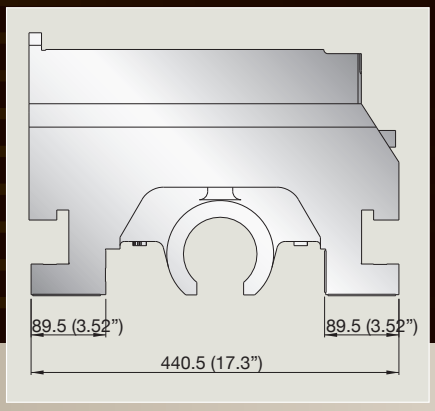
Wide span box slideways

- The heavy duty column with a wide span of 995mm (33.5") attached to the machine base provides a stable structure for heavy machining.
- The hydraulic turret is also designed with a wide span of 440.5mm (17.3") to ensure sufficient rigidity for heavy machining.
- The 7kW (9.4HP) high torque Z-axis motor ensures heavy duty drilling capability.

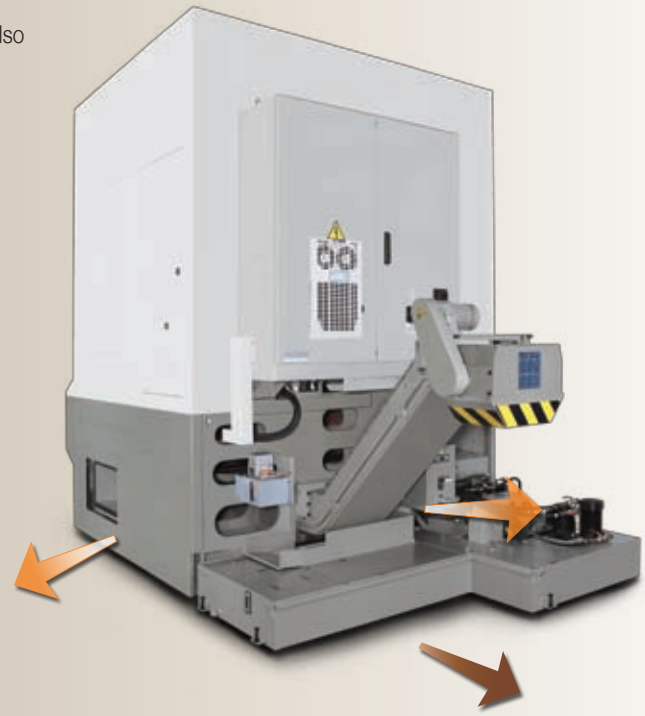


Bolt Mounted Turret (BMT-85)

- Fast indexing BMT-85 turret with bi-directional random selection for quick selection.
- Hirth coupling in included for high positioning accuracy.

Integral chip disposal without coolant leakage

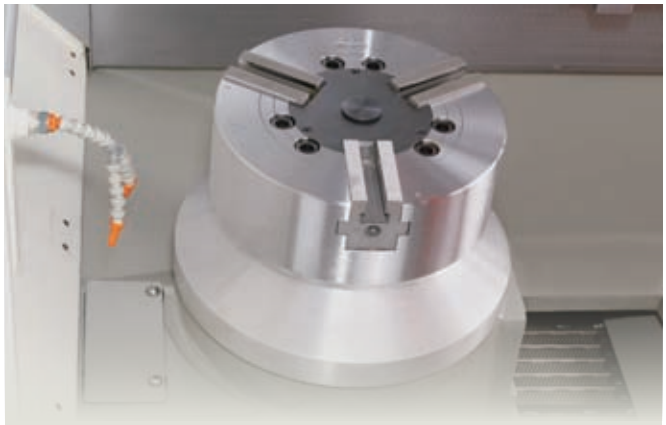
- **Rear disposal** chip conveyor can be bolted and fastened on the machine base without sitting on the coolant tank so the tank can be removed separately and easily for maintenance. .
- **Optional Right Disposal** chip conveyor is also available which can be useful for stand alone machines.
- Coolants and chips are collected by casted base guaratees no leakage onto the ground floor.
- Large coolant tank reduces the heat rise-up to affact machining accuracy.



Standard Accessories

Reliable Fanuc 0i-T control system

- The proven reliability of Fanuc 0i-T controller is combined with Victor's own designed PLC to offer the customer an integral control system with 8.4" LCD monitor for color graphic display.
- Large inside space design of electrical cabinet and fully protected cables assure optimal heat dissipation for long time machining.
- Optional 32i control also allows easier upgrade and the addition of full conversational programming.



Solid power chuck

- Autostrong® hydraulic solid chucks are included on all lathes.
- Chuck is foot operated for safe and easy operation.
- Kitagawa® chuck (optional) can be also specified if required.

Chip conveyor

Separate chip conveyor is positioned from the rear of machine to reduce machine width to facilitate line production.

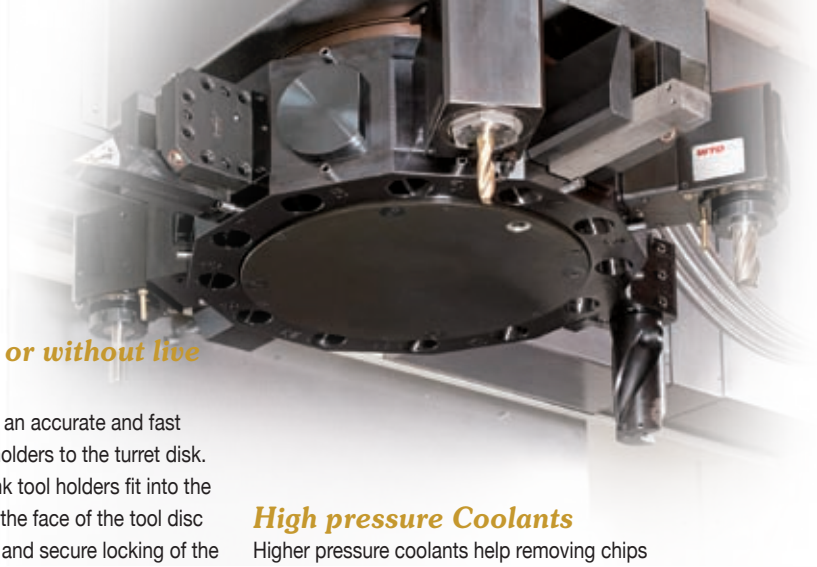
Victor's lubrication pump

- Victor's own lube pump including Japanese-made pressure switch offers the required lubricants between contact surfaces of box slideways to ensure smooth and continuous movement.

Air conditioner for electrical cabinet

To prolong the service life on the costly control components, air conditioner is installed to remove heat away from the electrical cabinet.

Optional Accessories



Manual tool presetter (by Renishaw®):

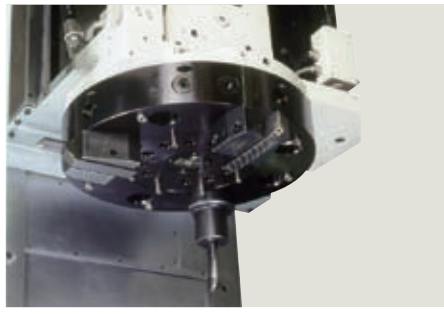
The tedious time-consuming cuts to determine tool geometry can be reduced by manual tool presetter (M.T.P.) With Renishaw® repeatable arm with RP3 probe is employed, the tool offset value is compensated automatically to the according parameters. Detachable design enlarges the turning range on big diameter parts without interference.

VDI turret with or without live tooling

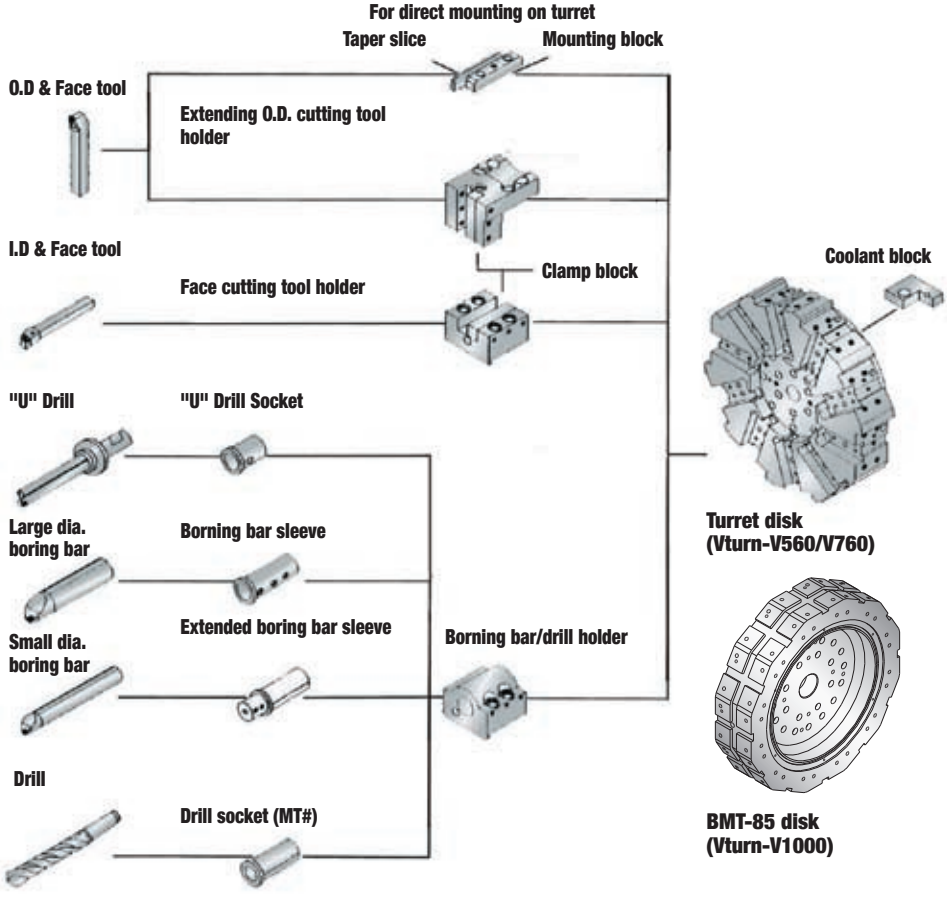
VDI tool holders provide an accurate and fast method of affixing tool holders to the turret disk. The round serrated shank tool holders fit into the tool pockets located on the face of the tool disc to achieve precise, rigid and secure locking of the tool holder. Live tooling option is also available by VDI turret model (CV option).

High pressure Coolants

Higher pressure coolants help removing chips more efficiently to improve surface finish on the machined parts.



Standard tooling accessories (excl. live tools or VDI tool holders)



TOOLS \ MODEL	VT-V560	VT-V760	VT-V1000
No. of tool stations	8	12	12
Tool shank for turret disk	1 1/4"	1 1/4"	1 1/4"
Maximum boring bar dia,	2"	2 1/2"	2 1/2" (Opt. 3")
Taper slice + mounting block	6	7	-
Extending O.D. cutting tool holder	1	1	4
Face cutting tool holder	1	1	2
Boring bar holder			
1 1/4"	-	-	-
1 1/2"	Opt.	-	-
2"	5	Opt.	-
2 1/2"	-	6	4
3"	-	-	Opt.
Boring bar sleeve			
3/8"	1	-	-
1/2"	1	-	-
5/8"	2	-	-
3/4"	2	2	2
1"	2	2	2
1 1/4"	2	2	2
1 1/2"	2	2	2
2"	-	2	2
Extended boring bar sleeves	-	2	2
Drill socket			
MT1	-	-	-
MT2	-	-	-
MT3	Opt.	Opt.	Opt.
MT4	1	1	1
U drill socket			
1"	1	-	-
1 1/4"	1	2	2
1 1/2"	-	2	2

Victor Taichung's Fanuc 0i-TF /32i-B Control Specifications

Standard

	ITEM / SPECIFICATION	DESCRIPTION
Controlled Axes:		
1.	Controlled Axes	2 Axes(X, Z)
2.	Simultaneous Controlled Axes	Position/Linear interpolation/Circular interpolation (2/2/2)
3.	Least Input Increment	0.001mm / 0.0001 inch / 0.001 deg.
4.	Least Input Increment 1/10	0.0001mm / 0.00001 inch / 0.0001 deg.
5.	Max. command value	±99999.999 mm (±9999.9999 in)
6.	Fine Acceleration & Deceleration Control	Std.
7.	HRV Control	Std.
8.	Inch / Metric Conversion	Std. (G20/G21)
9.	Interlock	All Axes / Each Axis / Cutting Block Start
10.	Machine Lock	All Axes / Each Axis
11.	Emergency Stop	Std.
12.	Over-travel	Std.
13.	Stored Stroke Check 1	Std.
14.	Mirror Image	Each Axis
15.	Chamfering on/off	Std.
16.	Follow-up	Std.
17.	Unexpected disturbance torque detection function	Std. (to be used to tool load monitoring)
18.	Position switch (with Victor's own PLC)	Std. (to be used for security)
Operation:		
1.	Automatic Operation	Std.
2.	MDI Operation	MDI B
3.	DNC Operation	Reader / Puncher Interface is Required
4.	DNC Operation with Memory Card	PCMCIA Card Attachment is Required
5.	Program Number Search	Std.
6.	Sequence Number Search	Std.
7.	Sequence number comparison and stop	Std.
8.	Buffer Register	Std.
9.	Dry Run	Std.
10.	Single Block	Std.
11.	JOG Feed	Std.
12.	Manual Reference Position Return	Std.
13.	Manual Handle Feed	1 Unit / Each Path
14.	Manual Handle Feed Rate	X1, X10, X100
Interpolation:		
1.	Positioning	G00
2.	Threading synchronous cutting	Std.
3.	Multiple threading	Std.
4.	Threading retract	Std.
5.	Continuous threading	Std. (G76)
6.	Variable threading	Std. (G34)
7.	Linear Interpolation	G01
8.	Circular Interpolation	G02, G03 (multi-quadrant is possible)
9.	Dwell	G04
10.	Skip Function	G31
11.	Reference Position Return	G28
12.	Reference Position Return Check	G27
13.	2nd Reference Position Return	Std.
Feed:		
1.	Rapid Traverse Rate	Std.
2.	Rapid Traverse Override	F0, 25%, 50%, 100%
3.	Feed Per Minute	G98 (mm/min)
4.	Feed Per Revolution	G99 (mm/rev)
5.	Tangential Speed Constant Control	Std.
6.	Cutting Feed rate Clamp	Std.
7.	Automatic Acceleration / Deceleration	Rapid traverse: linear; Cutting feed: exponential
8.	Linear accel / deceleration after cutting feed interpolation	Std.
9.	Feed rate Override	0~150%
10.	Jog Override	0~100%
11.	Feed Stop	Std.
Program Input:		
1.	EIA / ISO Automatic Recognition	Std.
2.	Label Skip	Std.
3.	Parity Check	Std.
4.	Control In / Out	Std.
5.	Optional Block Skip	1
6.	Max. Programmable Dimension	±9-Digit
7.	Program Number	O4-Digit
8.	Sequence Number	N5-Digit
9.	Absolute / Incremental Programming	G90/G91(G code System B,C)
10.	Decimal Point Programming / Pocket Calculator Type Decimal Point Programming	Std.
11.	Input Unit 10 Time Multiply	Std.
12.	Diameter / radius programming	Std.
13.	Plane Selection	G17, G18, G19
14.	Automatic Coordinate System Setting	Std.
15.	Work piece Coordinate System	G52~G59
16.	Direct Drawing Dimension Programming	Std.
17.	G code System A	Std.
18.	Chamfering/corner R	Std.
19.	Programmable Data Input	G10
20.	Sub Program Call	10 folds nested
21.	Custom Macro B	Std.
22.	Canned Cycles	Std.
23.	Multiple Repetitive Cycle	Std. (G70~G76)
24.	Multiple Repetitive Cycle 2 (Pocket profile)	Std. (G70~G76 type II)
25.	Canned Cycle for Drilling	Std.
26.	Program Format	FANUC Std. format
27.	Program Stop / Program End	M00 / M01 / M02 / M30
28.	Circular interpolation by 9-digit R designation	Std.
Auxiliary Spindle Speed Function:		
1.	Auxiliary Function Lock	Std.
2.	High Speed M / S / T Interface	Std.
3.	Spindle Speed Function	Std.
4.	Constant Surface Speed Control	50~120%
5.	Spindle Override	Std.
6.	Actual Spindle Speed Output	Std.
7.	1st Spindle Orientation	Std.
8.	1st Spindle Output Switching Function	Std.
9.	M Code Function	M3 digit
10.	S Code Function	S5 digit
11.	T Code Function	T2 digit
12.	Rigid Tapping (Spindle)	Std.
Tool Function & Tool Compensation:		
1.	Tool Function	T7+1/T6+2digits
2.	Tool Offset Pairs	±7-digit 64 pairs
3.	Tool Nose Radius Compensation	Std. (G40/G41/G42)
4.	Tool Geometry/wear Compensation	Std.
5.	Number of Tool Offsets (in total)	64 (0i-D) 99 sets (32i-B)
6.	Automatic Tool Offset	Std.
7.	Direct Input of Tool Offset Value Measured B	Std.
Accuracy Compensation:		
1.	Backlash Compensation	Rapid Traverse / Cutting Feed
2.	Stored Pitch Error Compensation	Std.
Edit Operation:		
1.	Part Program Storage Length (in total)	1280m (512kB) (0i-D/32i-B)
2.	Number of Register able programs (in total)	400
3.	Part Program Editing	Std.
4.	Program Protect	Std.
5.	Background Editing	Std.
6.	Memory card editing	Std.
Setting and Display:		
1.	Status Display	Std.
2.	Clock Function	Std.
3.	Current Position Display	Std.
4.	Program Display	Program name 32 characters
5.	Parameter Setting and Display	Std.
6.	Self Diagnosis Function	Std.
7.	Alarm Display	Std.
8.	Alarm History Display	50 (0i), 60 (32i-B)
9.	Operation History Display	Std.
10.	Help Function	Std.
11.	Run Hour and Parts Count Display	Std.
12.	Actual Cutting Feed rate Display	Std.
13.	Display Spindle Speed and T Code At All Screens	Std.
14.	Dynamic Graphic Display	Std.(Available in MGI by another function)
15.	Servo Setting Screen	Std.
16.	Display of Hardware and Software Configuration	Std.
17.	Multi-Language Display	Std.
18.	Data Protection Key	Std.
19.	Erase CRT Screen Display	Std.
20.	Spindle Setting Screen	Std.
21.	Color LCD (MDI)	8.4" (0i-D), 10.4" (0i-D*1/32i-B)
Data Input / Output:		
1.	Reader / Puncher Interface	RS-232 interface
2.	Memory Card Interface	Std.
3.	External Work piece number search	9999
4.	Embedded Ethernet (10Mbps)	Std.
C Axis Function (used on CV models):		
1.	Control Axes Expansion	Std.
2.	Simultaneously Controlled Axes Expansion	Std.
3.	Coordinate System Rotation	Std.
4.	Rotary Axis Designation	Std.
5.	Rotary Axis Roll-over	Std.
6.	Axis Control by PMC	Std.
7.	Control Axis Detach (for Cf axis)	Std.
8.	Polar Coordinate Interpolation	Std. (G112/G113)
9.	Cylindrical Interpolation	Std. (G107)
10.	Coordinate System Rotation	Std. (32i-B only)
11.	Rigid Tapping (C-axis) with Victor's own PMC	Std.

Options

	ITEM SPECIFICATION	0i-F	32i-B
With hardware included:			
1.	Conversational programming (Manual guide i)*1	☐	Std.
2.	Conversational programming (Cap i)	N.A.	N.A.
3.	Data server (with PCB and ATA card)	☐	☐
4.	Fast Ethernet (100Mbps, available in Data server)	☐	☐
5.	Tool life management	☐	☐
6.	Part Program Storage Length 2560m/1MB (in total)	N.A.	☐
7.	Part Program Storage Length 5120m/2MB (in total)	N.A.	☐
8.	Optional block skip 2-9 blocks	☐	☐
9.	Polygon turning (by C-axis) with Victor's own PLC	☐	☐
10.	Manual handle feed 2 (2nd MPG)	☐	☐
11.	Reader/Puncher interface 2 (2nd RS232 interface)	☐	☐
12.	External data input	☐	☐
13.	USB port	Std.	Std.
14.	Porgram restart	☐	☐
15.	Profibus	☐	☐
Without hardware included:			
16.	Program number O8-digit	N.A.	☐
17.	Circular thread cutting (G35)	N.A.	☐
18.	Number of registered program 1000 (in total)	N.A.	☐
19.	G code system B/C	Std.	☐
20.	Type format for FS 10/11	Std.	☐
21.	Play back	Std.	☐
22.	3-dimensional coordinate system conversion	N.A.	☐
23.	Direct input of offset value measured for 2 spindle lathe	N.A.	☐
24.	AI contour control II (G5.1 Q1)	☐	☐
25.	JERK control	N.A.	☐

*1. Manual Guide i is available on 0i-F when the monitor is upgraded to 10.4" LCD.

Machine Specification

VICTOR-TAICHUNG

Item \ model		Unit	Vturn-V560 (CV)	Vturn-V760 (CV)	Vturn-V1000 (CM)
Capacity	Swing over bed	inch	23.6	35.4	39.3
	Max. turning dia.	inch	22	29.9	39.3
	Max. turning length	inch	20.5	29.9	33.4 (32.4)
	Std. turning dia.	inch	18.5	24.8	34.8 (29.7)
Travel	X axis stroke	inch	11+5.1	14.9+1.57 (15+1.2 for CV)	19.6+1.57
	Z axis stroke	inch	21.3 (20.5)	31.4	33.4
Spindle	Max. spindle speed	rpm	2000	2000	1500
	Spindle base speed	rpm	83	83	96
	Spindle nose	inch	A2-8	A2-11	A2-15
	Spindle bore	inch	3.4	4.1	4.1
	Inner bearing (front)	inch	5.1	6.3	7.8
	Chuck diameter	inch	12" (opt. 10"/15"/18")	18" (opt. 15"/21"/24"/28")	24" (opt. 28"/32"/36"/40")
	Max. part weight	lbs	1305	2552	2755
Turret	No. of tools	no.	8	12	12
	No. of live tools (opt.)	no.	8 (VDI-40) (DIN-5482, axial type, left-hand)	12 (VDI-50) (DIN-5480, radial type, left-hand)	12 (BMT-85)
	Tool shank size	inch	1 1/4"	1 1/4"	1 1/4"
	Max. boring bar dia.	inch	2"	2 1/2"	2 1/2" (opt. 3")
	Exchange time	sec.	1 (hydraulic)	1 (hydraulic) (0.2 servo for CV)	1 (hydraulic) (0.2 servo for CM)
Feedrate	Rapid feedrate	ipm	X/Z=590/945	X/Z=787/787	X/Z=787/787
	X axis ballscrew	inch	Ø2 x P0.39	Ø1.57 x P0.39	Ø2 x P0.31
	Z axis ballscrew	inch	Ø1.57 x P0.39	Ø2 x P0.39	Ø2 x P0.31
	JOG feedrate	ipm	X/Z=0~49.6	X/Z=0~49.6	X/Z=0~49.6
Motor	Spindle motor	HP	20/25 (α P30i) opt. 25/30 (α P40i)	25/30 (α P40i) opt. 40/50 (α 30i)	50/60 (α 40i)
	Gearbox		ZF Gearbox (std.)	ZF Gearbox (std.)	ZF Gearbox (std.)
	X/Z axis servo motor	HP	X:5.4, Z:5.4	X:5.4, Z:9.4	X:5.4, Z:9.4
	Milling motor (opt.)	HP	5.4	9.4	9.4
Machine	Fanuc controller		0i-T	0i-T	0i-T
	Coolant tank	Gallon	68	79	105
	W × L × H (including chip conveyor)	inch	60 x 128 x 115	80 x 154 x 134	99 x 164 x 140
	Power requirement	kVA	40 (45 for CV)	48 (56 for CV, 65 for α 30i)	83 (90 for CM)
	Net weight	lbs	13420	27500	35280

Standard accessories

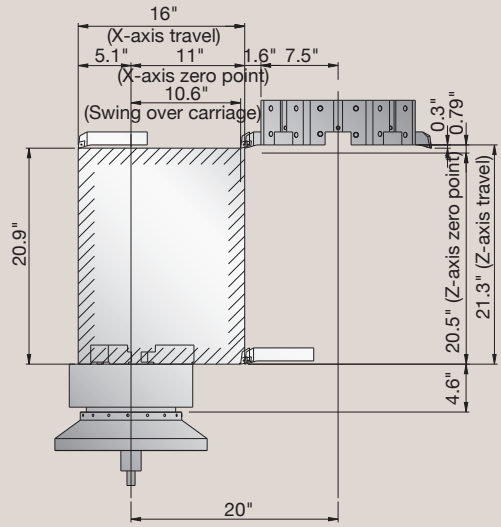
- Solid chuck with soft jaws
- Chip conveyor (rear disposal)
- Automatic forced lubrication
- Fully enclosed splash guarding
- Tool holders (exch VDI tooling)
- 3 step warning light
- Fanuc 0i-T control
- Remote MPG (handwheel) (except Vturn-V560)
- Oil cooler for gearbox (Vturn-V760/V1000)
- Fanuc e-book (CD)

Optional accessories

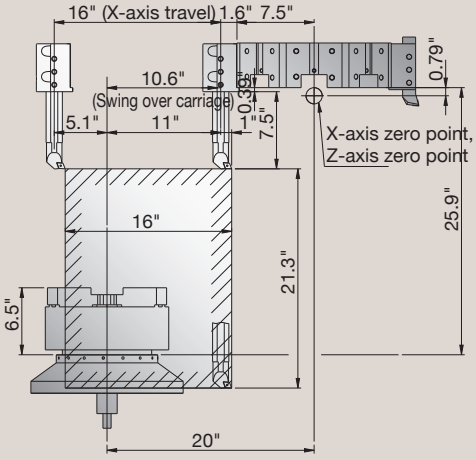
- Bigger chucks (21" chuck/1700rpm, 24" chuck/1400rpm, 28" chuck/1200rpm, 32" chuck/1100rpm, 36" chuck/1000rpm, 40" chuck/800rpm)
- Oil skimmer
- Bigger spindle motor
- Renishaw tool presetter (detachable) (Max. 15" chuck for VT-V560, 24" chuck for VT-V760, 36" chuck for V1000)
- High pressure coolant
- Auto door
- VDI turret (except Vturn-V1000)
- Higher column (3.93" more)
- Fanuc 32i control
- Right disposal chip conveyor (for Vturn-V760/V1000)
- Detachable chip conveyor (to reduce the floor space when cleaning)
- Fanuc Manuals

Vturn-V560

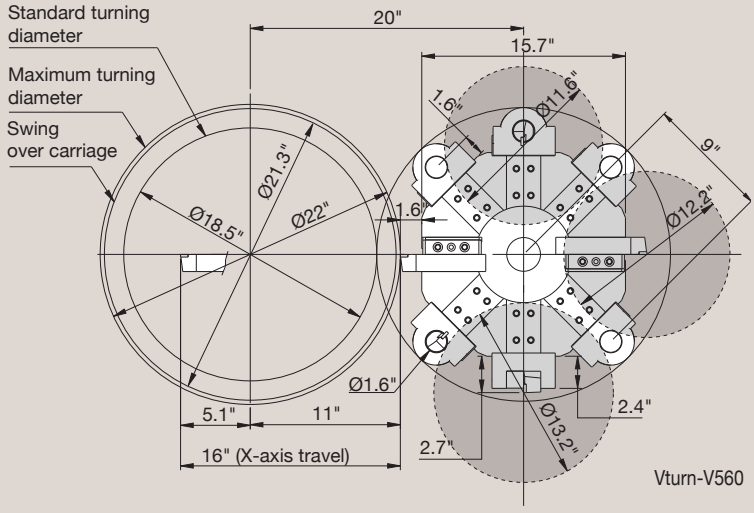
O.D. Turning range



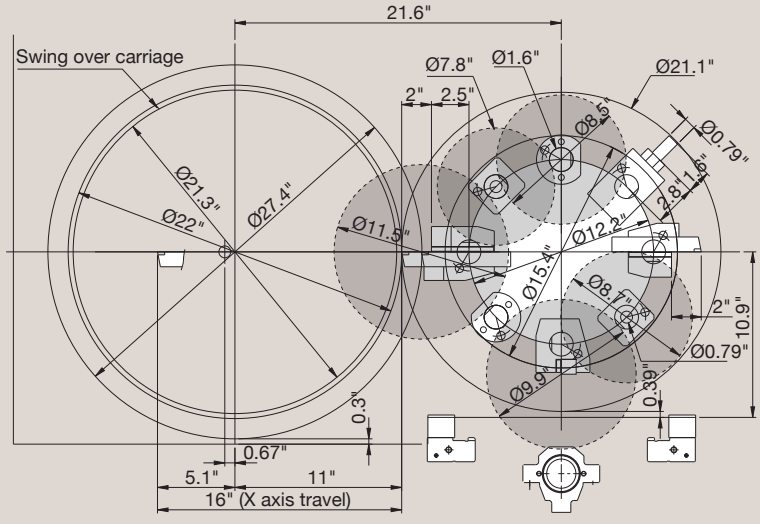
I.D. Turning range



Tool interference chart

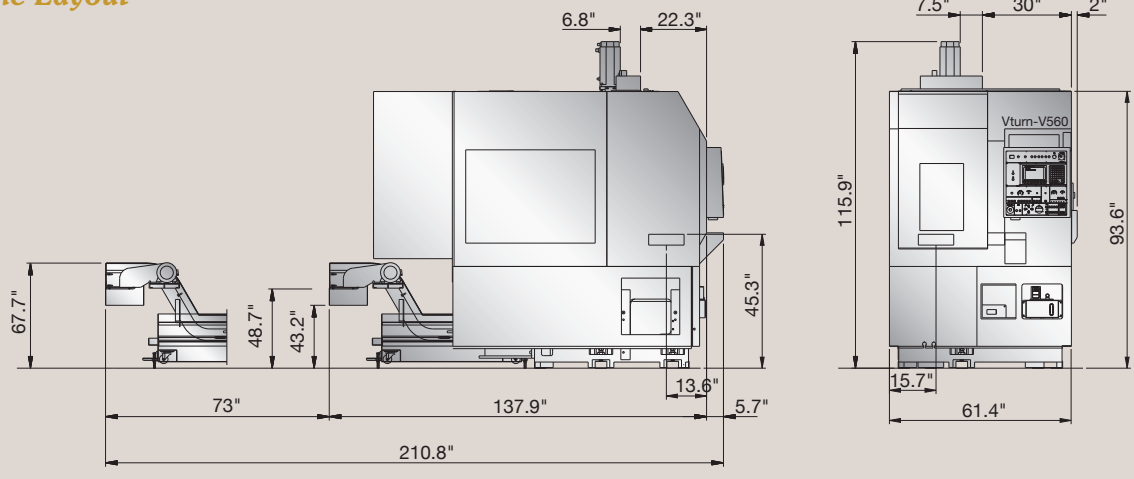


Vturn-V560



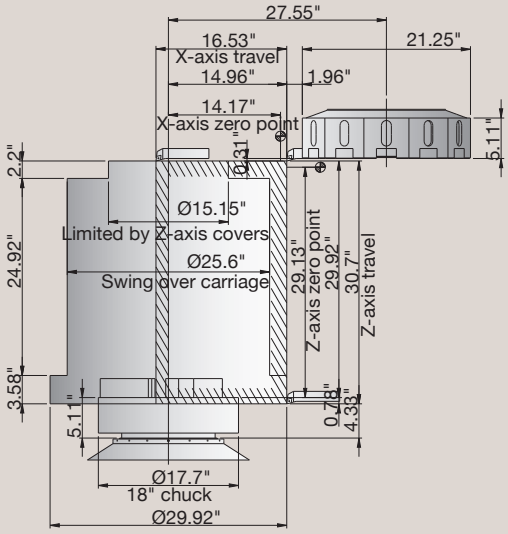
Vturn-V560CV (VDI-40)

Machine Layout

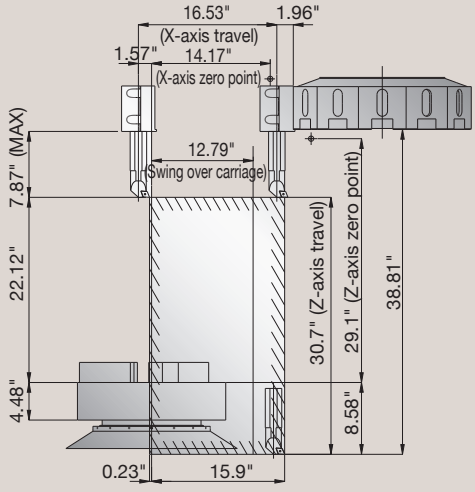


Vturn-V760

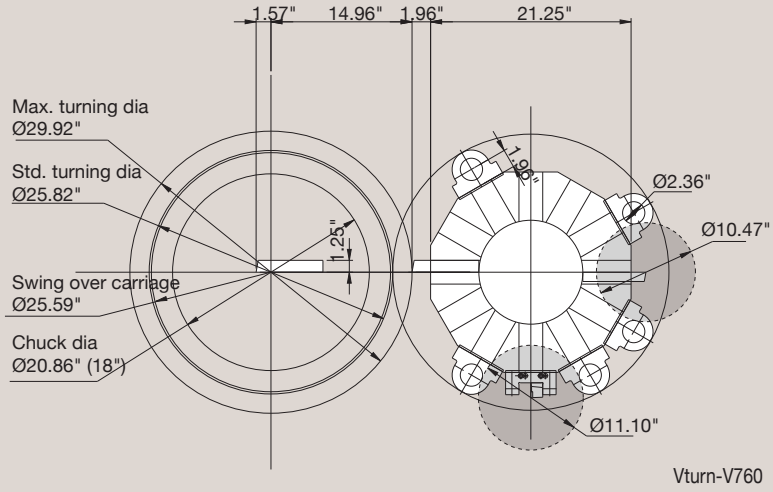
O.D. Turning range



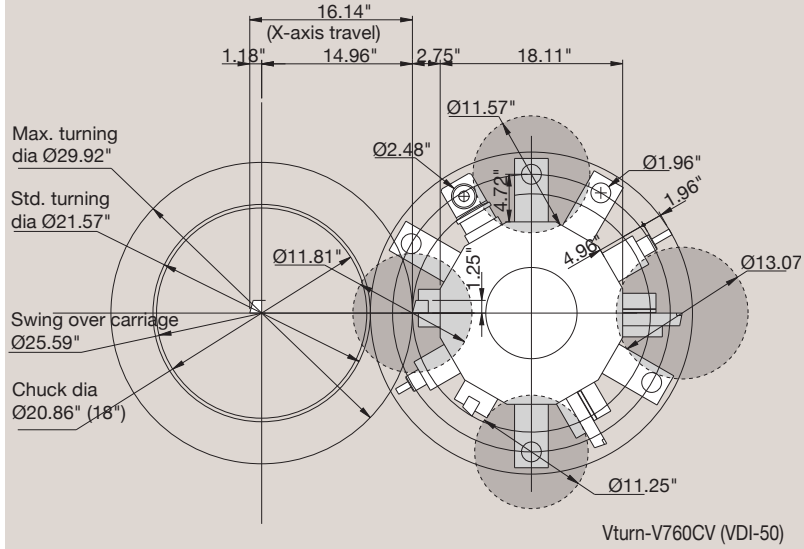
I.D. Turning range



Tool interference chart

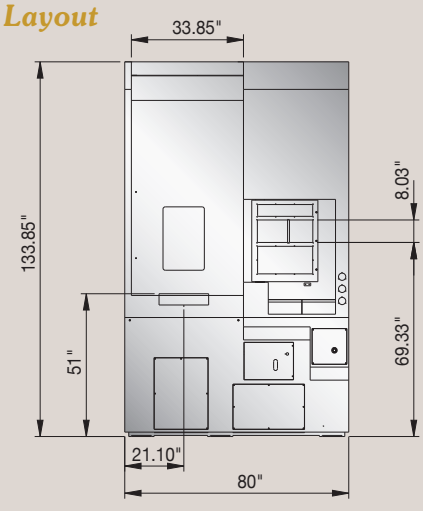


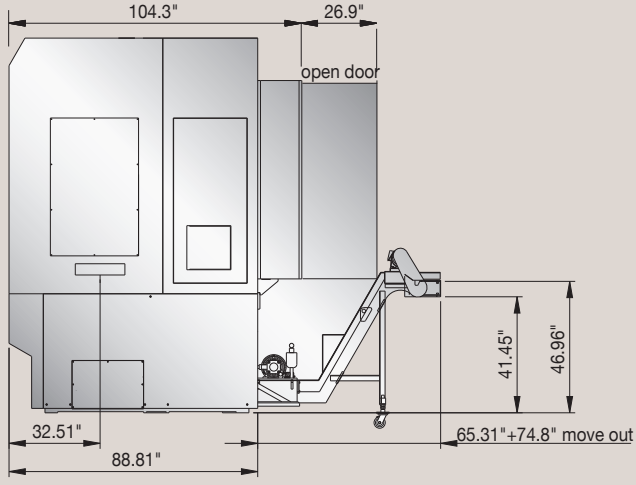
Vturn-V760



Vturn-V760CV (VDI-50)

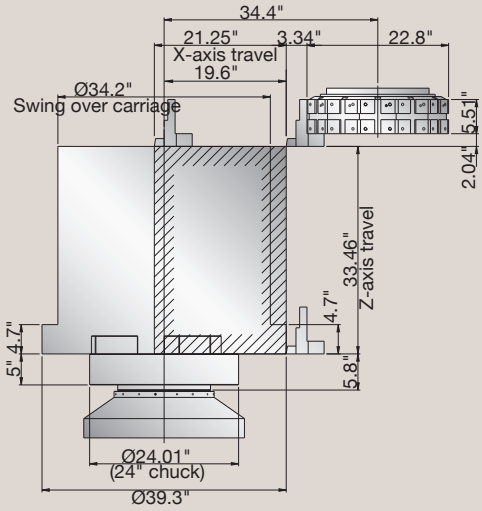
Machine Layout



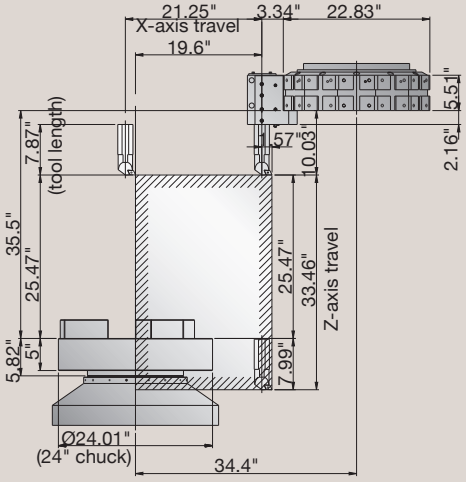


Vturn-V1000

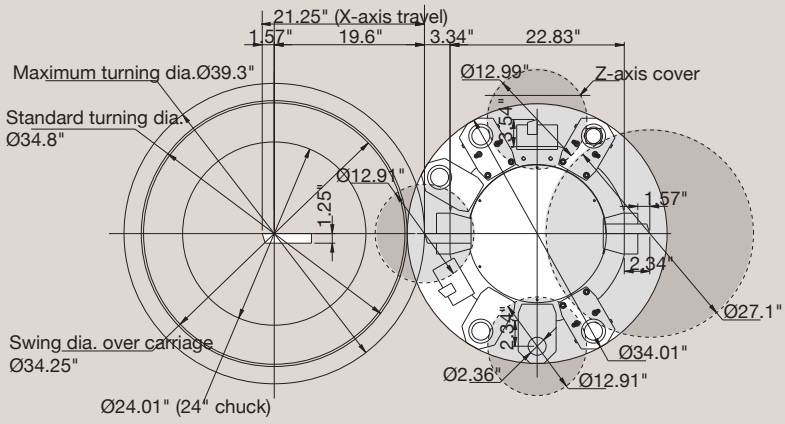
O.D. Turning



I.D. Turning

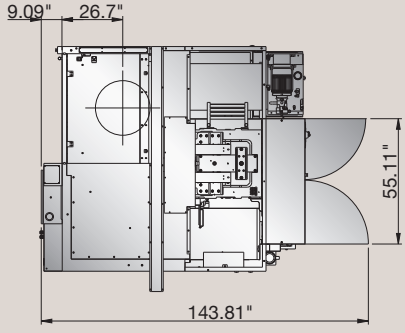


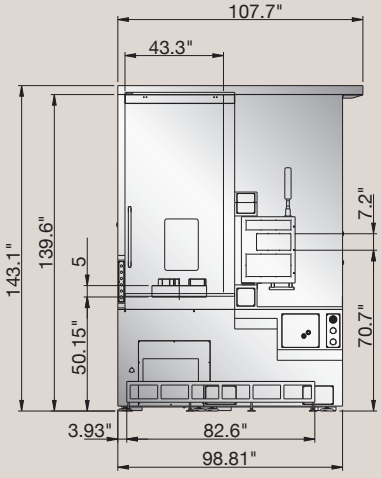
Tool interference chart

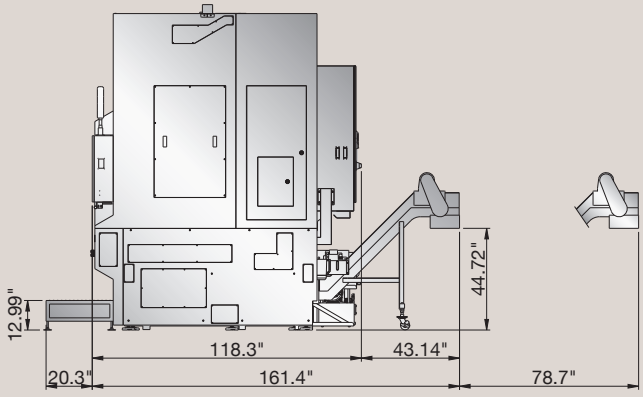


Vturn-V1000

Machine Layout (excl. Transformer)





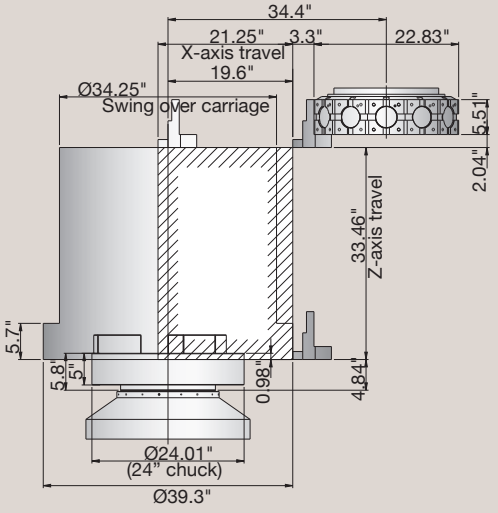


(Higher outlet chip conveyor)

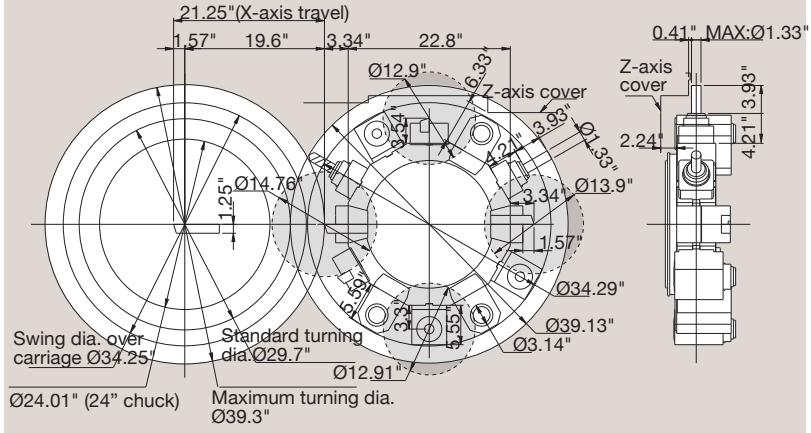
Vturn-V1000CM

VICTOR-TAICHUNG

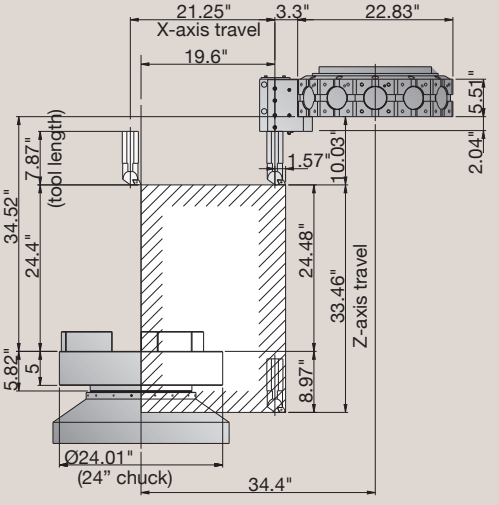
O.D. Turning



Tool interference chart

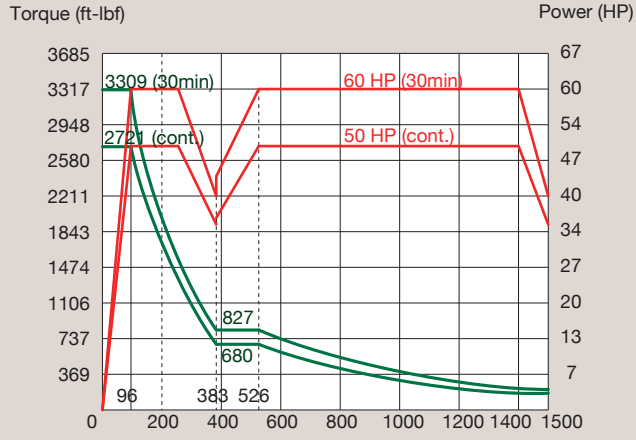


I.D. Turning

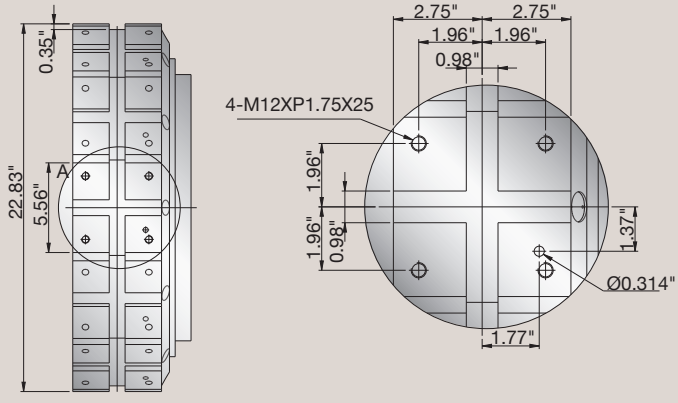


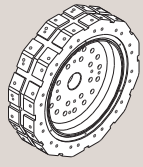
Spindle Output

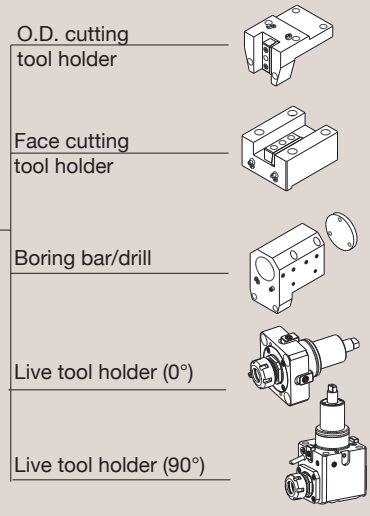
Vturn-V1000CM



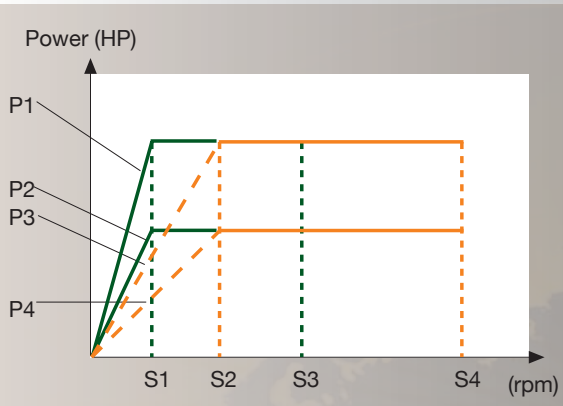
BMT-85 interface and tool holders





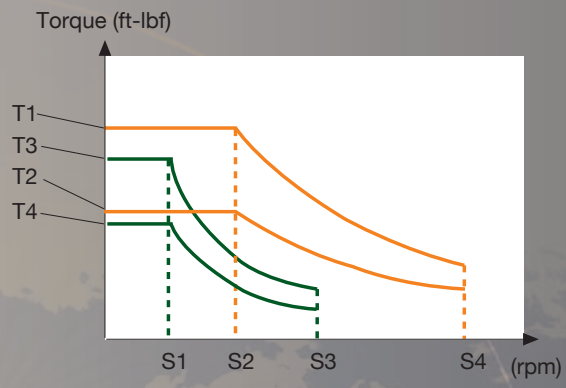


Spindle Output for Vturn-V560/V760



P1(*30 min. in low winding)
P2(cont. in low winding)
P3(*30 min. in high winding)
P4(cont. in high winding)

S1(base RPM in low winding)
S2(base RPM in high winding)
S3(max. RPM in low winding)
S4(max. RPM in high winding)



T1(*30 min. in low winding)
T2(cont. in low winding)
T3(*30 min. in high winding)
T4(cont. in high winding)

S1(base RPM in low winding)
S2(base RPM in high winding)
S3(max. RPM in low winding)
S4(max. RPM in high winding)

*30 min. may be replaced by 15%, 15 min. or 20 min. according to Fanuc technical specification.

Model	Spindle Motor	Base Speed (rpm)		Max. Speed (rpm)	P. _ Cont. kW (HP)	P. kW (HP)	Tor. _Cont. (ft-lbf)	Tor. (ft-lbf)
Vturn-V560	αP30i	Low winding	216	1500	11 (15)	18.5 [25] (30 min.)	358.7	603.9 (30 min.)
		High winding	310	2500	15 (20)	18.5 [25] (30 min.)	340.6	420.2 (30 min.)
Opt.	αP40i	Low winding	216	1500	13 (17.4)	22 [30] (30 min.)	423.8	718.2 (30 min.)
		High winding	310	2500	18.5 (25)	22 [30] (30 min.)	420.2	499.07 (30 min.)
Opt. (with gearbox)	α30i	1st step	155	809	30 (40)	37 [50] (30 min.)	1361.9	1676.6 (30 min.)
		2nd step	621	2500	30 (40)	37 [50] (30 min.)	340.6	419.5 (30 min.)
Vturn-V760	αP40i	1st step	83	L: 10~250 H: 251~500	18.5 (25)	22 [30] (30 min.)	L: 1099.4 H: 513.5	L: 1858.8 (15%) H: 614.8 (15%)
		2nd step	501	L: 501~1000 H: 1001~2000	18.5 (25)	22 [30] (30 min.)	L: 180.8 H: 130.1	L: 303.7 (60%) H: 151.8 (60%)
Opt.	α30i	1st step	144	575	30 (40)	37 [50] (30 min.)	1492.8	1828.5
		2nd step	438	2000	30 (40)	37 [50] (30 min.)	416.6	457.1

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http://www.fortune-imm.com

VictorTaichung profile:
Sales turnover: USD 155 mil's (in 2014)*
No. of employees: 1091
*Exchange rate: 1 USD=30 TWD.

THE VICTOR-TAICHUNG COMPANIES

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