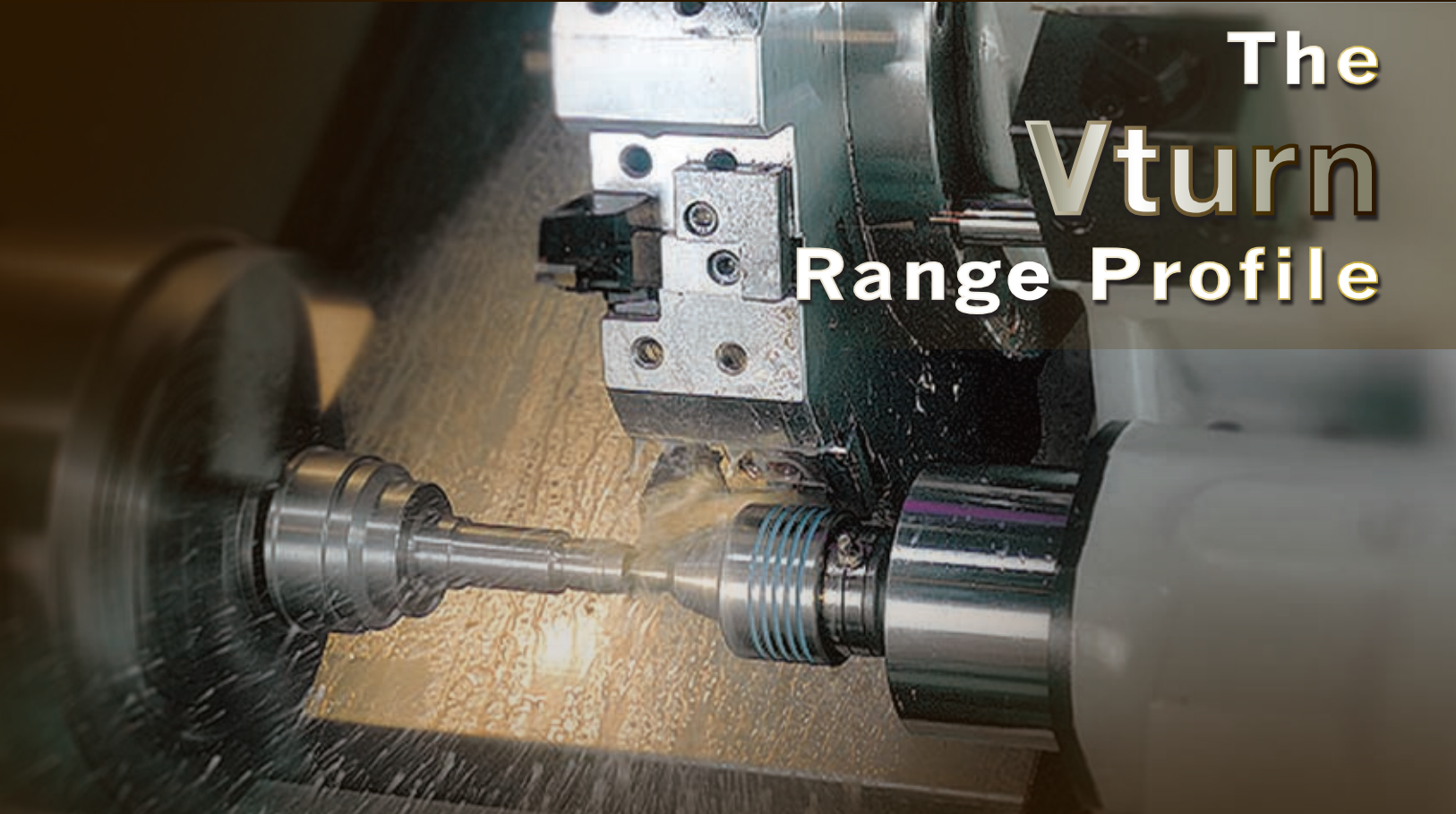


The Vturn Range Profile



Increased productivity with every turn





Vturn Lathes

The cornerstone on which to build your production.

From the initial design stages through to the final testing, machine production is tightly controlled and monitored adhering strictly to the principles setout in ISO 9001 & 14001. In today's increasingly competitive market, Victor Taichung has held true to traditional methods of building quality and reliable machine tools that will maintain their accuracies and their values in years to come.

Vturn-16 / 20 / 26

Entry model for reliable heavy cutting.

- Box slideways with hardness HRC 55 for heavy cutting.
- Genuine 45° slant bed for minimum distance from Z-axis ball screw to the tool tip.
- Hydraulic 6"/8"/10" chuck is offered as standard.
- Programmable tailstock and chip conveyor is offered as standard.
- Wide range spindle motor Fanuc αPi is installed to offer high cutting force at low rpm.
- High reliability and cost-effective.
- Maximum turning length 610 mm (24") for Vturn-16/20/26 and 1090 mm (42.91") for Vturn-26/110.
- Special LSB option on Vturn-26 for bar capacity 91 mm (3.58")/2500 rpm.



VturnII-16 / 20

Available with upgraded servo turret, built-in spindle, C-axis, and rear chips disposal.

- Genuine 30° one piece slant bed enables large turning diameter 440 mm (17.32").
- Box slideways with powerful spindle motor 11/15 kW (14.7/20 HP) for heavy cutting.
- Servo driven turret for quick tool indexing.
- Right or Rear chip disposal.
- Servo driven turret for quick tool indexing.
- C-axis available with built-in spindle allows faster acceleration time and less vibration so as to improve overall efficiency and accuracy.





Vturn-36

2-step gearbox for heavy cutting.

- Box slideways with hardness HRC 55 for heavy cutting.
- Genuine 45° slant bed for minimum distance from Z-axis ball screw to the tool tip.
- Hydraulic 12" chuck is offered as standard.
- 2-step gearbox is included to further enhance the cutting torque at low rpm.
- Maximum turning length 855 mm (33.66") for Vturn-36/85 and 1255 mm (49.41") for Vturn-36/125.
- Available with C-axis spindle and live tooling by Victor's own VDI turret.
- Special LSB option with spindle nose A2-11 for bar capacity 160 mm (6.3")/1300 rpm.



Vturn-40 & Vturn-45

3.25 m (127.95") lathe with high feed rate for heavy cutting.

- Rapid feed rate 20/20 m/min (787.4/787.4 IPM) for Vturn-40/220 & Vturn-45/220 and 20/12 m/min (787.4/472.4 IPM) for Vturn-40/325 & Vturn-45/325.
- Maximum turning length 3250 mm (128")!
- Single piece cast slant bed (45°) for minimum distance from ball screw to the tool tip.
- Box slideways with hardness HRC 55 for heavy cutting.
- Hydraulic 15" chuck is offered as standard for Vturn-40 and Vturn-45.
- Spindle nose A2-11.
- 2-step gearbox is included to further enhance the cutting torque at low rpm.
- Available with C-axis by built-in spindle (DDS) for Vturn-40CV and Vturn-40Y.

Vturn-46

4-step gearbox for powerful heavy cutting.

- Box slideways with hardness HRC 55 for heavy cutting.
- Genuine 60° slant bed with minimal distance from Z-axis ball screw to the tool tip so as to reduce the chip built-up.
- Hydraulic 15" chuck is offered as standard and optional 24" chuck is possible.
- Built-in 4-step gearbox inside the headstock further enhances the cutting torque at low rpm.
- Spindle nose A2-11.
- Maximum turning length 1650 mm (65").
- Available with C-axis spindle and live tooling by Victor's own VDI turret.





Manufacturing Philosophy

Headstock machining & boring:

To ensure the quality control on the accurate parts, such as headstock and spindle, Victor Taichung has developed their own spindle boring machines to ensure long service life for bearing installation.

Headstock & spindle assembly:

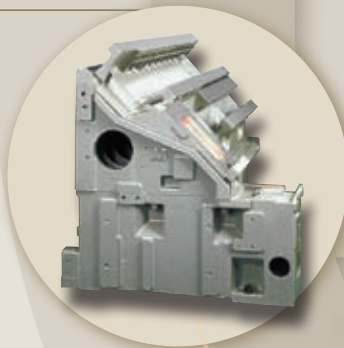
All spindles are assembled in-house in a temperature controlled environment and undergo a series of run-in tests of up to 24 hours. This post-assembly testing pinpoints any excessive bearing temperatures which would otherwise be crippling on the customers shop floor.



Meehanite® cast iron:

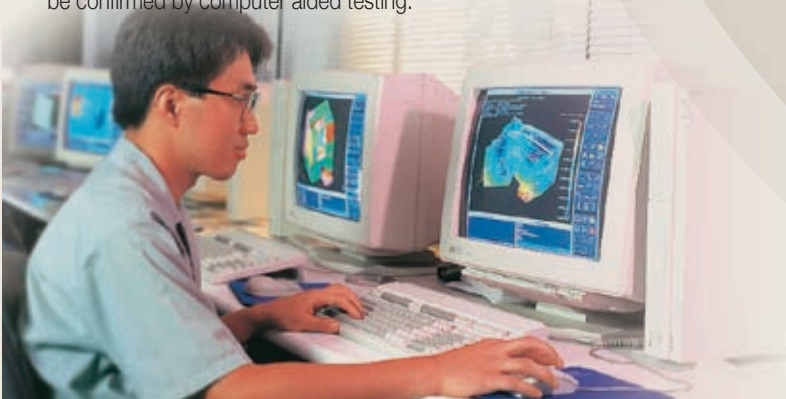
The foundation of any machine tool, this must offer rigidity, strength and above all else high damping properties. These characteristics are best found in quality nodular gray cast iron, produced in Victor's own ISO-9001 certified foundry.

All castings are made following the Meehanite process which is recognized wide as the Quality Mark for good castings.



Machine design:

Through the use of advanced CAD and CAE systems, our R&D laboratory makes computer simulations of structures to test for deformation and vibration characteristics which can later be confirmed by computer aided testing.





Hardened box slide ways:

Cast-in slide ways for maximum rigidity. Nodular grey cast iron offers ideal friction properties without sacrificing toughness. Heat treated using high frequency induction heating to produce a wrap around structure with hard wear resistance surface & tough internal core. A depth of 0.5 mm (0.02") for maximum wear resistance, ensuring accuracies are held throughout machine life.



The carriage:

To ensure smooth and accurate operation of the carriage along the slideway Victor employs the traditional craftsmanship of hand scraping by skilled technicians. This produces large contact areas for improved stability in machining. Add to this hand finished lubrication channels for improved lubrication properties to ensure the carriages benefit from traditional methods of manufacture.



Machine assembly:

With the philosophy that quality must be built in not inspected in, moving pallet assembly lines are employed so that each machine can be closely monitored and controlled long before it reaches the QC department.

This is maintained by encouraging one person to be fully responsible for the quality of each station as it progresses.



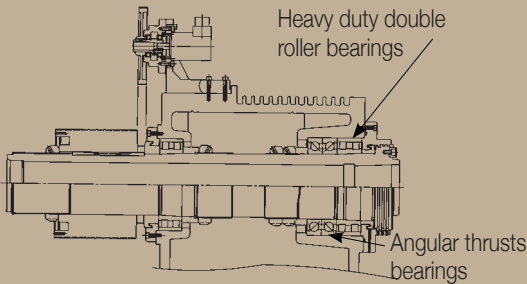
Quality inspection:

Every machine that leaves the factory floor has passed numerous inspection procedures to achieve vigorous demands of our customers.

Vturn-16, Vturn-20 & Vturn-26

Cost-effective model for reliable heavy cutting!

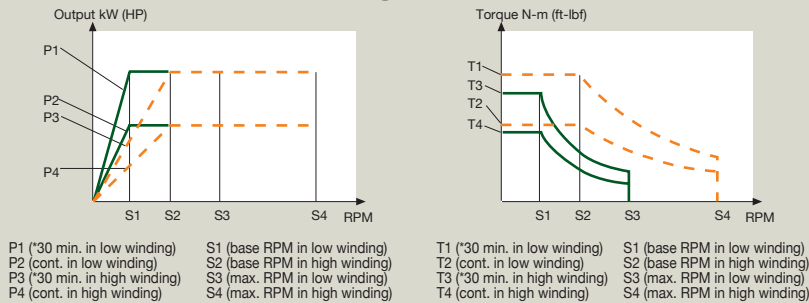
- Genuine 45° slant bed for minimum distance from Z-axis ball screw to the tool tip.
- Box slideways with hardness HRC 55 for heavy cutting.
- Hydraulic 6" / 8" / 10" chuck is offered as standard.
- Programmable tailstock and chip conveyor is offered as standard.
- Only wide range spindle motor Fanuc α Pi is installed to offer high cutting force at low rpm.
- Z-axis ball screw diameter 40 mm (1.57") for heavy cutting and high reliability.
- Maximum turning length 610 mm (24") for Vturn-16/20 and 1090 mm (42.91") for Vturn-26/110.
- Special LSB option on Vturn-26 for bar capacity 91 mm (3.58") / 2500 rpm.



High rigidity & high precision spindle

- Encased in well ribbed headstock for maximum heat dissipation.
- Angular thrust bearings absorb axial cutting force and NN-type roller bearings facilitate heavy cutting.

Spindle Torque Output Diagram



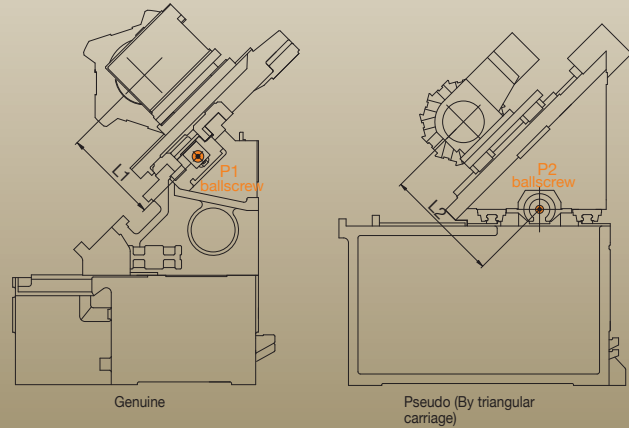
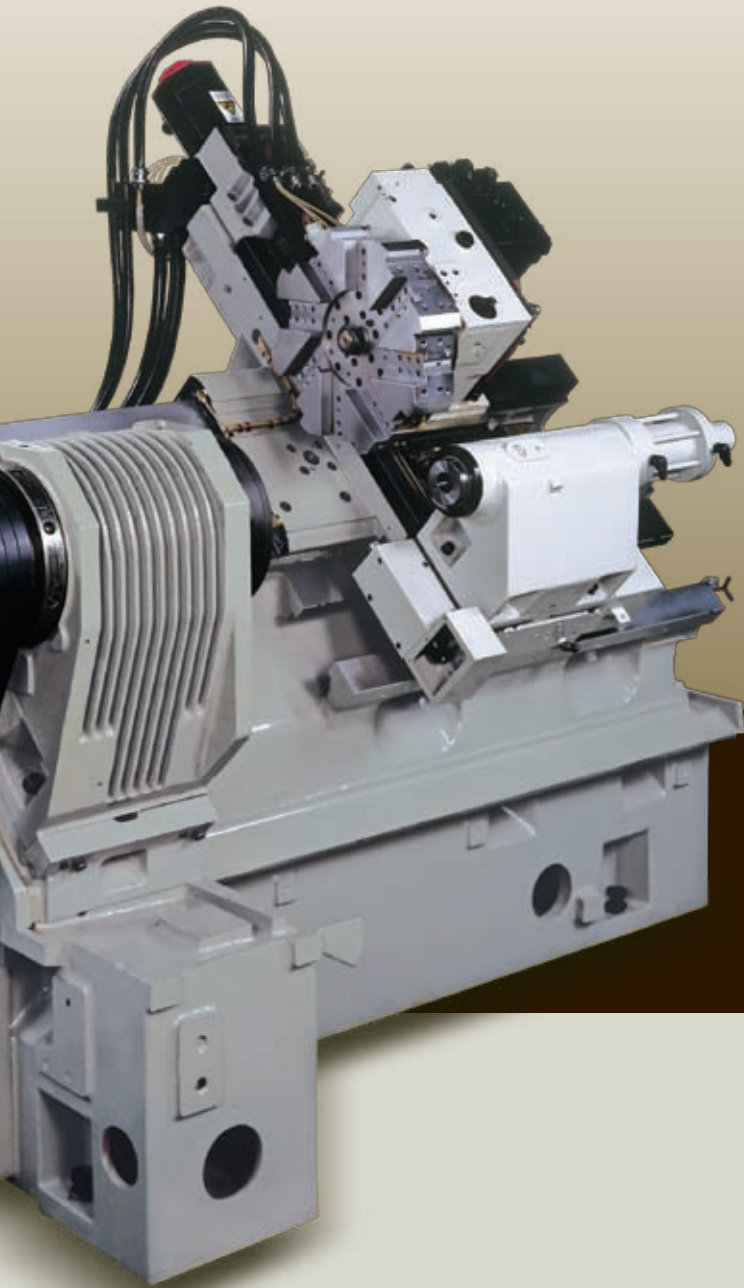
*30 min. may be replaced by 15%, 15 min or 20 min. according to Fanuc technical specification



Model	Spindle Motor	Base Speed (rpm)	Max. Speed (rpm)	P. cont. kW (HP)	P. kW (HP)	Tor. cont. kg-m (ft-lbf)	Tor. kg-m (ft-lbf)	
Vturn-16	α P15i	Low winding	500	1500	5 (6.7)	9 (12) -15 min.	9.73 (70.4)	17.5 (126.5) -15 min.
		High winding	750	6000	7.5 (10)	9 (12) -30 min.	9.73 (70.4)	11.67 (84.4) -30 min.
Vturn-20	α P15i	Low winding	350	1050	5 (6.7)	9 (12) -15 min.	13.9 (100.5)	25 (180.8) -15 min.
		High winding	525	4200	7.5 (10)	9 (12) -30 min.	13.9 (100.5)	16.68 (120.6) -30 min.
Opt.	α P22i	Low winding	350	1050	7.5 (10)	15 (20) -15 min.	20.84 (150.4)	41.69 (300.8) -15 min.
		High winding	525	4200	11 (14.7)	15 (20) -30 min.	20.52 (148.2)	27.98 (201) -30 min.
Vturn-26	α P30i	Low winding	308	1156	11 (14.7)	18.5 (24.8) -15 min.	34.77 (251.4)	58.47 (422.7) -15 min.
		High winding	443	3500	15 (20)	18.5 (24.8) -30 min.	32.92 (238)	40.6 (293.5) -30 min.
Vturn-26HD	α P40i	Low winding	308	1156	13 (17.4)	22 (30) -15 min.	40.98 (296.4)	69.36 (501.5) -15 min.
		High winding	443	3500	18.5 (24.8)	22 (30) -30 min.	40.58 (296.3)	48.26 (348.9) -30 min.
Vturn-26LSB	α P30i	Low winding	211	833	11 (14.7)	18.5 (24.8) -15 min.	48.7 (352.1)	81.9 (592.1) -15 min.
		High winding	316	2500	15 (20)	18.5 (24.8) -30 min.	46.17 (333.8)	56.94 (411.7) -30 min.
Opt.	α P40i	Low winding	211	833	13 (17.4)	22 (30) -15 min.	57.48 (415.6)	97.27 (703.3) -15 min.
		High winding	316	2500	18.5 (24.8)	22 (30) -30 min.	56.9 (411.4)	67.69 (489.4) -30 min.

Genuine slant bed

Vturn series lathes have the Z-axis ballscrew mounted on the slant bed (P1) instead of machine base (P2) to minimize the distance from ballscrew to the tool insert and thus upgrades the turret and carriage stiffness.



Vturn-26LSB (Large Spindle Bore) (optional)

Without the expense or space demanded by an oversized machine, Vturn-26LSB including an oversized headstock and 12" chuck combines the bed of Vturn-26 to offer bar capacity 91 mm (3.58") / 2500 rpm to minimize your investment.



Vturn-26"HD" for Heavy Duty Application

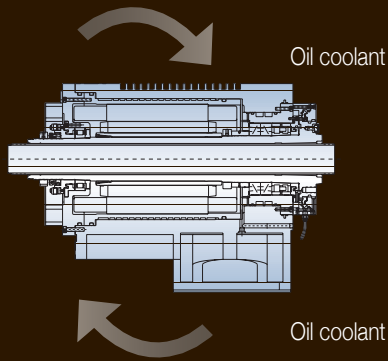
Package with the following features:

- Bigger spindle motor (α P40i) 22 kW (29.5 HP).
- Bigger Z-axis motor (α 22i) 4 kW (5.4 HP).
- Larger turning diameter 380 mm (14.97").
- Larger swing over carriage 410 mm (16.14").
- Coolant flush on Z-axis cover.
- Upgraded guarding improves coolants and chips disposal.

VturnIII-16 & VturnIII-20

Available with upgraded servo turret, built-in spindle, C-axis, and rear chips disposal

- Genuine 30° one piece slant bed enables large turning diameter 440 mm (17.32").
- Box slideways with power full spindle motor 11/15 kW (14.7/20 HP) for heavy cutting.
- Servo driven turret for quick tool indexing.
- Right or Rear chip disposal.
- Servo driven turret for quick tool indexing.
- C-axis available with built-in spindle allows faster acceleration time and less vibration so as to improve overall efficiency and accuracy.
- Special LSB option on VturnIII-20 for bar capacity 66 mm (2.6") / 4500 rpm.

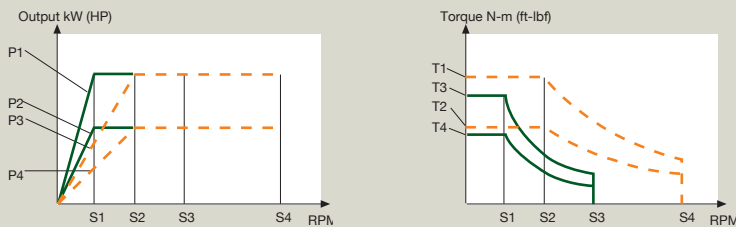


C-axis Spindle with Built-in Motor for or high accuracy

- Belt-driven spindle for standard 2-axis lathe
- Direct Drive Spindle (DDS) with built-in motor for optional C-axis clamping offers extra torque output at low spindle speed than conventional belt-driven spindle and eliminates the vibrations from the belt for a greater surface finish and roundness.

Spindle Torque Output Diagram

The directly driven spindle unit uses the powerful FANUC α Pi series motors with their wide range of high torque output and fast acceleration times to optimum speeds.



P1 (*30 min. in low winding) S1 (base RPM in low winding) T1 (*30 min. in low winding) S1 (base RPM in low winding)
 P2 (cont. in low winding) S2 (base RPM in high winding) T2 (cont. in low winding) S2 (base RPM in high winding)
 P3 (*30 min. in high winding) S3 (max. RPM in low winding) T3 (*30 min. in high winding) S3 (max. RPM in low winding)
 P4 (cont. in high winding) S4 (max. RPM in high winding) T4 (cont. in high 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. kg-m (ft-lbf)	Tor. kg-m (ft-lbf)	
VturnIII-16	α P22i	Low winding	500	1500	7.5 (10)	15 (20) -15 min.	14.6 (105.6)	29.2 (211.1) -15 min.
		High winding	750	6000	11 (14.7)	15 (20) -30 min.	14.4 (104)	19.6 (141.7) -30 min.
Opt.	α P15i	Low winding	500	1500	5 (6.7)	9 (12) -15 min.	9.73 (70.4)	17.5 (126.5) -15 min.
		High winding	750	6000	7.5 (10)	9 (12) -30 min.	9.73 (70.4)	11.67 (84.4) -30 min.
VturnIII-20	α P22i	Low winding	350	1050	7.5 (10)	15 (20) -15 min.	20.84 (150.4)	41.69 (300.8) -15 min.
		High winding	525	4200	11 (14.7)	15 (20) -30 min.	20.52 (148.2)	27.98 (201) -30 min.
Opt.	α P15i	Low winding	350	1050	5 (6.7)	9 (12) -15 min.	13.9 (100.5)	25 (180.8) -15 min.
		High winding	525	4200	7.5 (10)	9 (12) -30 min.	13.9 (100.5)	16.68 (120.6) -30 min.
VturnIII-16CV	α B160Mi	Low winding	300	900	5.5 (7.4)	7.5 (10) -15%	17.8 (128.7)	24.3 (175.7) -15%
		High winding	850	6000	11 (14.7)	18.5 (24.8) -15%	12.6 (91.1)	21.2 (153.3) -15%
VturnIII-20CV	α B180Mi	Low winding	450	800	11 (14.7)	15 (20) -20 min.	23.8 (172.1)	32.4 (234.3) -20 min.
		High winding	800	4200	11 (14.7)	15 (20) -30 min.	13.3 (96.2)	18.2 (131.6) -30 min.



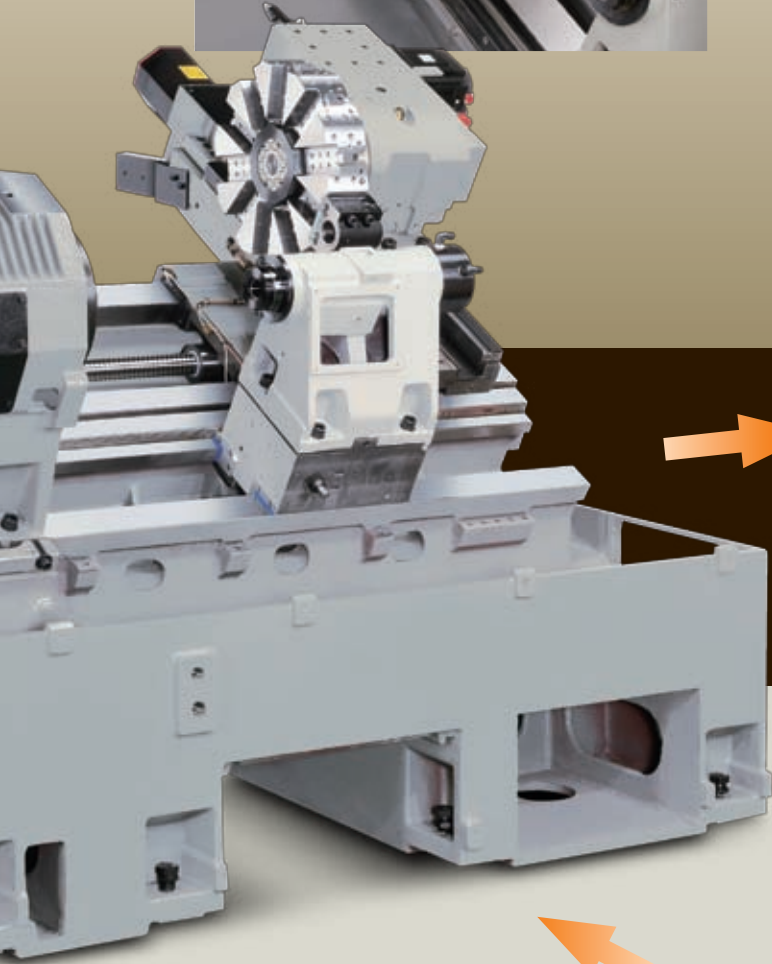


Servo Driven Turret for Faster Indexing

- Fast tool indexing time 0.2 seconds using servo driven turret.
- Available with Victor Taichung's own milling turret in conjunction with servo motor to offer a near constant torque output over the complete speed range up to 3000 rpm.
- 12 station VDI turret with 12 live tool pockets allows quick tool changeover with commercially available tool holders.

Chip Disposal from Right or Rear

Separate chip conveyor can be positioned to expel chips from the traditional side of the machine for easy cleaning or even from the rear of the machine to reduce costly shop floor space requirement.



Large Spindle Bore (LSB)

- 66 mm (2.6") / 4500 rpm (optional)

Besides the popular application to link bar feeder to the lathe with part catcher, this new LSB (Large Spindle Bore) option has the bar capacity dia. 66 mm (2.6") and upgraded spindle speed 4500 rpm to minimize your investment costs.

One-piece Slant Bed with Hardened Boaxways

- Rectangular machine base guarantees the optimal structure stiffness to sustain the high rapid feed rate 20/24 m/min (787.4/944.9 IPM) (X/Z) on the lathes with box slideways.
- Optimum ribbing determined by FEM to minimize distortion during operation.
- To ensure perfect alignment in the machine structure, the bed is machined in a single set-up on a large five-face machining center.
- Separate chip conveyor can be positioned to expel chips from the traditional side for easy cleaning or from rear of the machine to link with robot application.



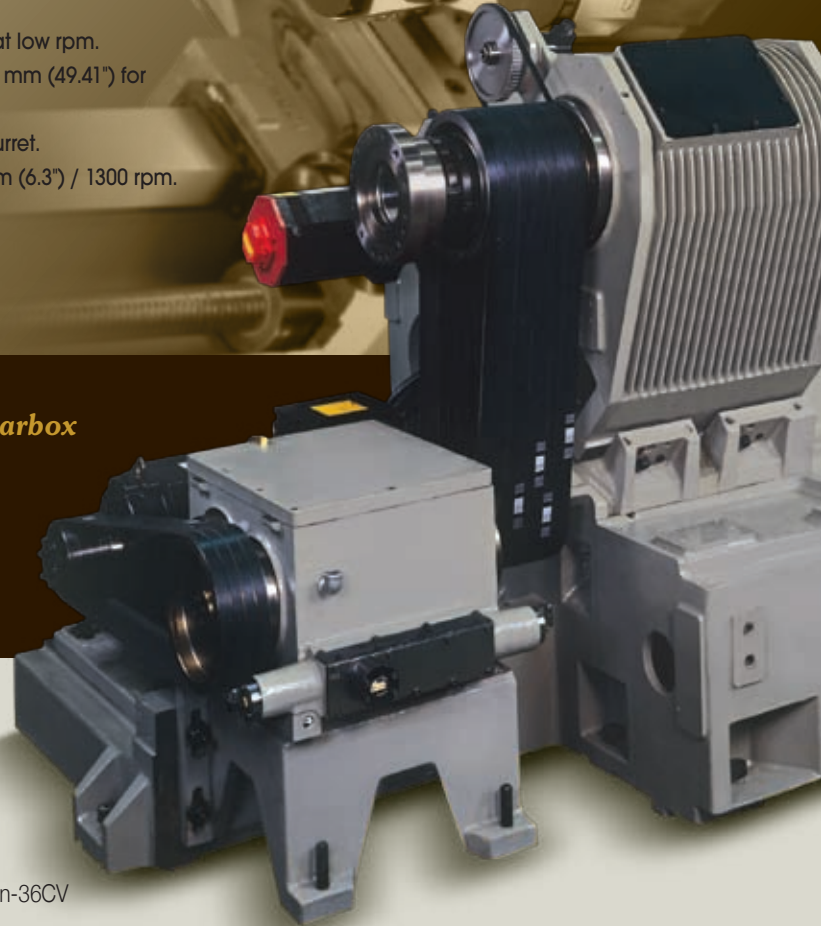
Vturn-36

Two step gearbox for reliable heavy cutting!

- Genuine 45° slant bed for minimum distance from Z-axis ball screw to the tool tip.
- Z-axis ballscrew diameter 50 mm (1.97").
- 91 mm (3.58") bar capacity.
- Box slideways with hardness HRC 55 for heavy cutting.
- Hydraulic 12" chuck is offered as standard.
- 2-step gearbox is included to further enhance the cutting torque at low rpm.
- Maximum turning length 855 mm (33.66") for Vturn-36/85 and 1255 mm (49.41") for Vturn-36/125.
- Available with C-axis spindle and live tooling by Victor's own VDI turret.
- Special LSB option with spindle nose A2-11 for bar capacity 160 mm (6.3") / 1300 rpm.



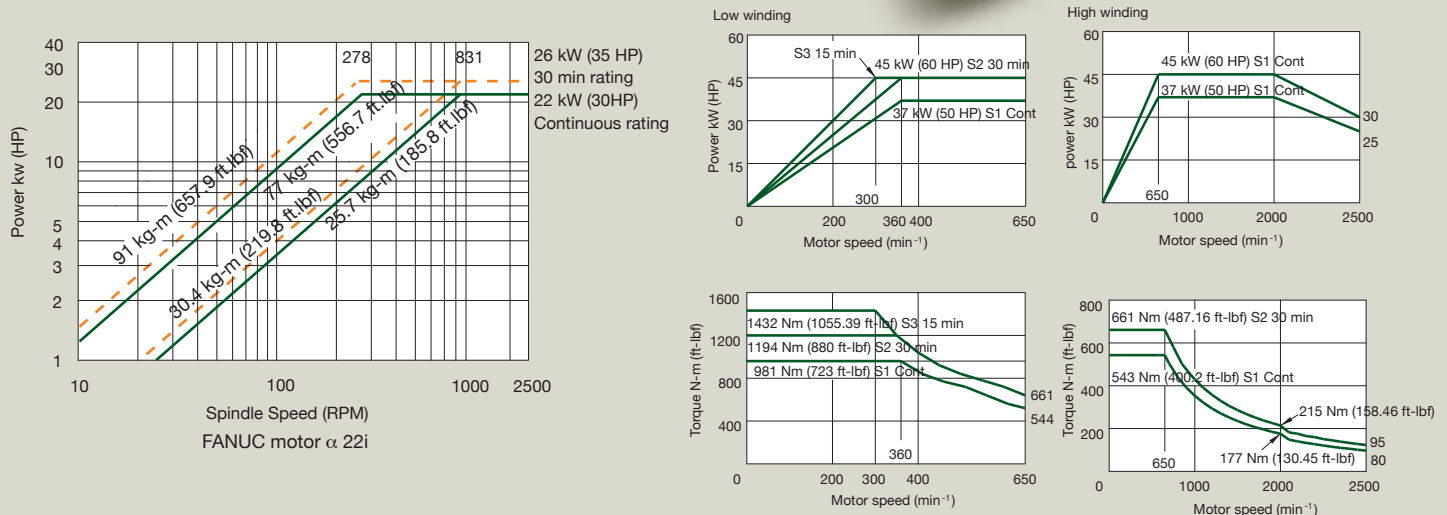
2-step gearbox



Spindle Torque Output Diagram

● Vturn-36 STD

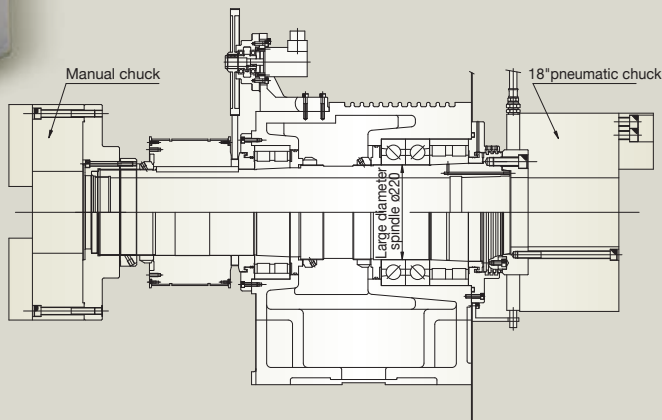
● Vturn-36CV





C-axis VDI turret with live tooling (CV option.)

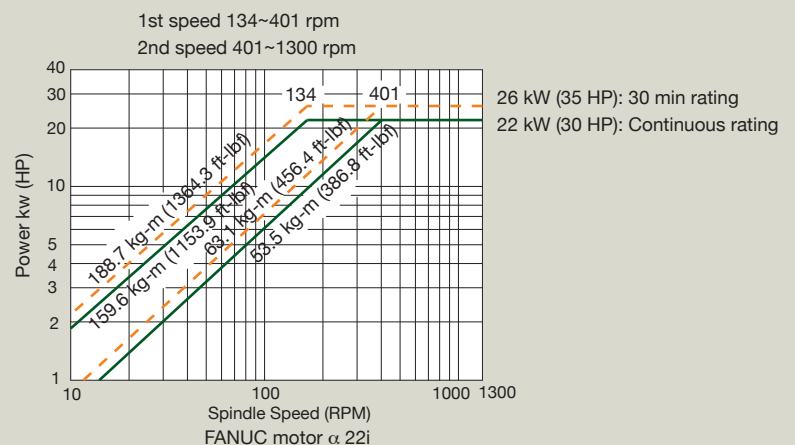
- Live tooling is provided through the use of VDI turret that not only provide an international tooling system but also allows for quick and simple tool mounting.
- Coupling specification DIN-5480.
- Milling power 7 kW (9.4 HP) / 2500 rpm.



Large Spindle Bore (LSB)- 160 mm (6.3\") / 1300 rpm (optional)

- Large bore spindle with bar capacity of 160 mm (6.3").
- Ideal for machining of large diameter pipes.
- Max. spindle speed: 1800 rpm (1300 rpm limited by pneumatic chuck).
- Bearing diameter 220 mm (8.66").
- Standard 18" Pneumatic chuck at front and manual chuck at rear of spindle for extra stability during bar turning.

Spindle speed output diagram for Vturn-36LSB



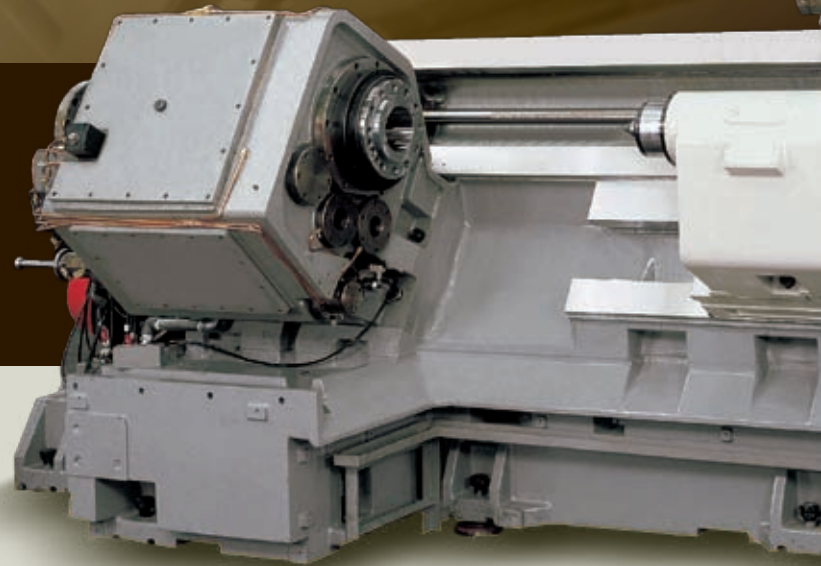
Vturn-40 & Vturn-45

2 meter lathe with gearbox and high feed rate for heavy cutting!

- Genuine 45° one piece slant bed for maximal structure rigidity.
- Maximum turning length 2200 mm (86.61") !
- Rapid feed rate 20/20 m/min (787.4/787.4 IPM) !
- Spindle nose A2-11 with hydraulic 15"/18" chuck for bar capacity 91 mm (3.58") for Vturn-45 and 117.5 mm (4.62") for Vturn-40.
- Spindle power 37 kW (50 HP) by FANUC α 30/6000i motor.
- Z-axis ballscrew diameter 50 mm (1.97").
- Box slideways with hardness HRC 55 for heavy cutting.
- 2-step gearbox is included to further enhance the cutting torque at low rpm.
- Bar capacity : 91 mm (3.58") for Vturn-40, 117.5 mm (4.62") for Vturn-45.

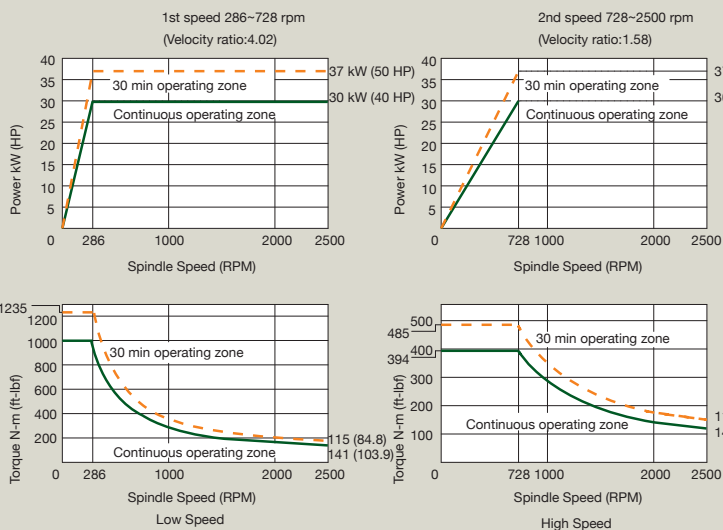


2-step gearbox

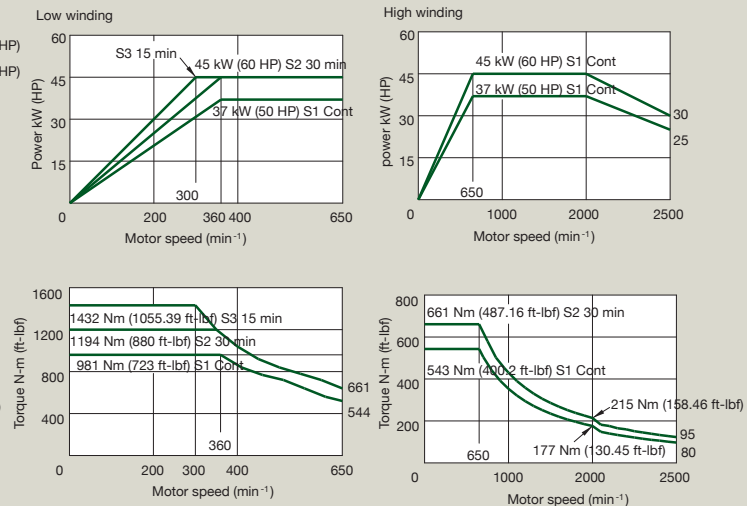


Spindle Torque Output Diagram

● Vturn-40&45 STD

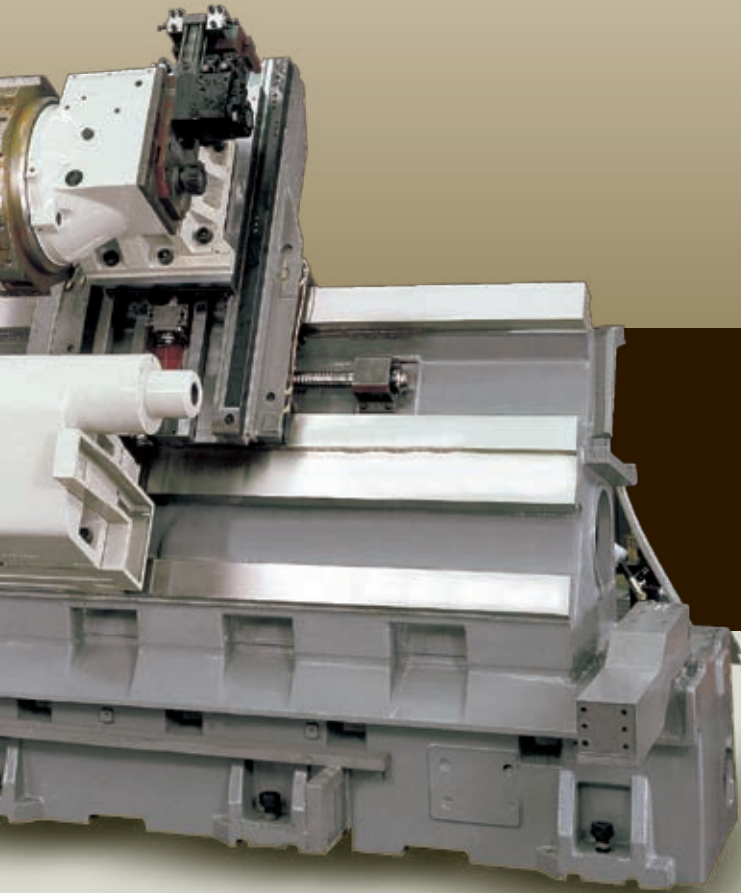


● Vturn-40 CV



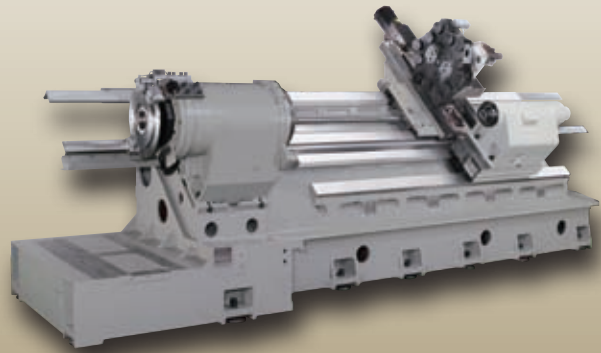
One piece cast bed

- Built in the latest technology, the new Vturn-40 and Vturn-45 have one-piece slant bed to enhance the structure stiffness.
- The turret carriage has even been enhanced 15% structure rigidity than Vturn-36 model to afford more cutting resistance.
- High volume coolant flush onto the Z-axis cover helps to reduce the chip built-up inside the machine.
- Double lead Japanese ballscrews facilitate rapid feed 20 m/min (787 ipm).



C-axis VDI turret with live tooling (CV option)

- DDS built-in spindle (for Vturn-40CV only)



Moving CRT allows for more space for machine operator and avoids the high freight for transportation.



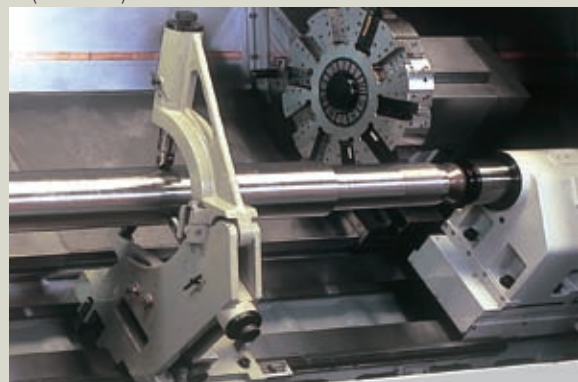
Vturn-40YCM (optional)

- Y-axis travel: +/- 80 mm (3.15") with BMT-75 turret.



Manual steady rest

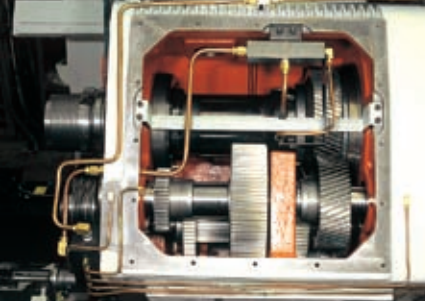
- Clamping range: 280-400 mm (11.02"-15.75") Opt. 150-300 mm (5.9-11.8").



Vturn-46

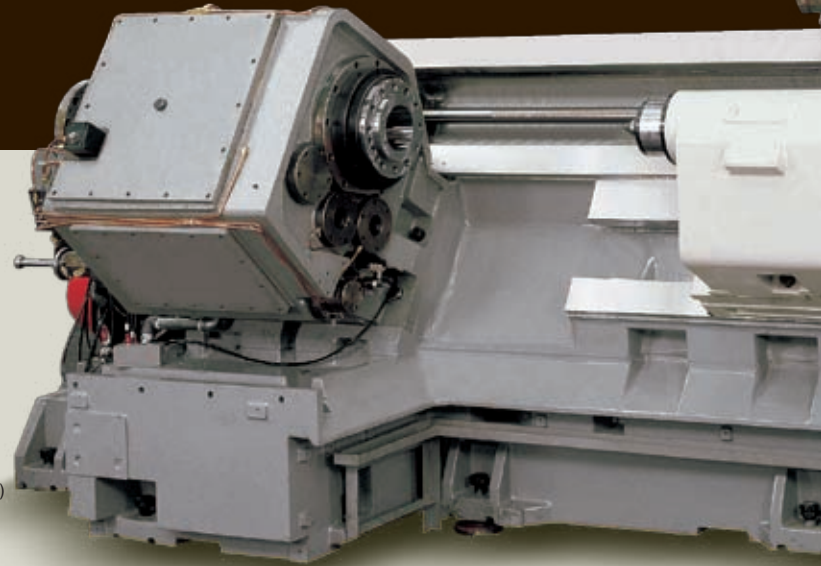
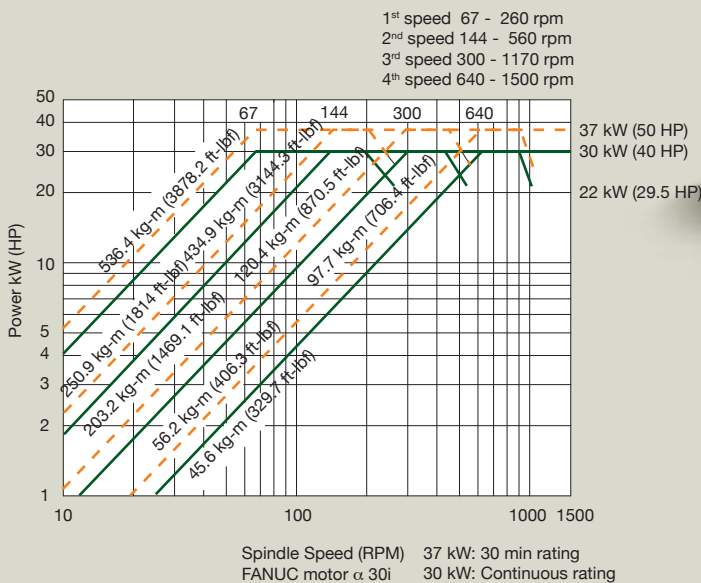
Built-in 4-Step Gearbox for powerful heavy cutting!

- Genuine 60° slant bed for minimum distance from Z-axis ball screw to the tool tip so as to reduce the chip built-up.
- Built-in 4-step gearbox inside the headstock further enhances the cutting torque 536.4 kg-m (3878.2 ft-lbf) at low spindle speed 67 rpm.
- Spindle nose A2-11 with hydraulic 15" chuck is offered as standard and available with 18"/21"/24" chucks.
- Z-axis ballscrew diameter 50 mm (1.97").
- Maximum turning length 1650 mm (64.96").
- Available with C-axis spindle and live tooling by Victor's own VDI turret.



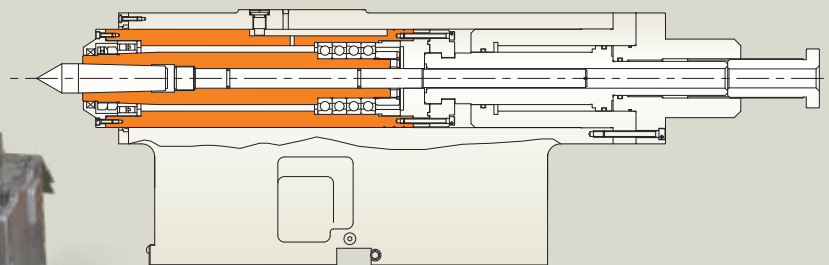
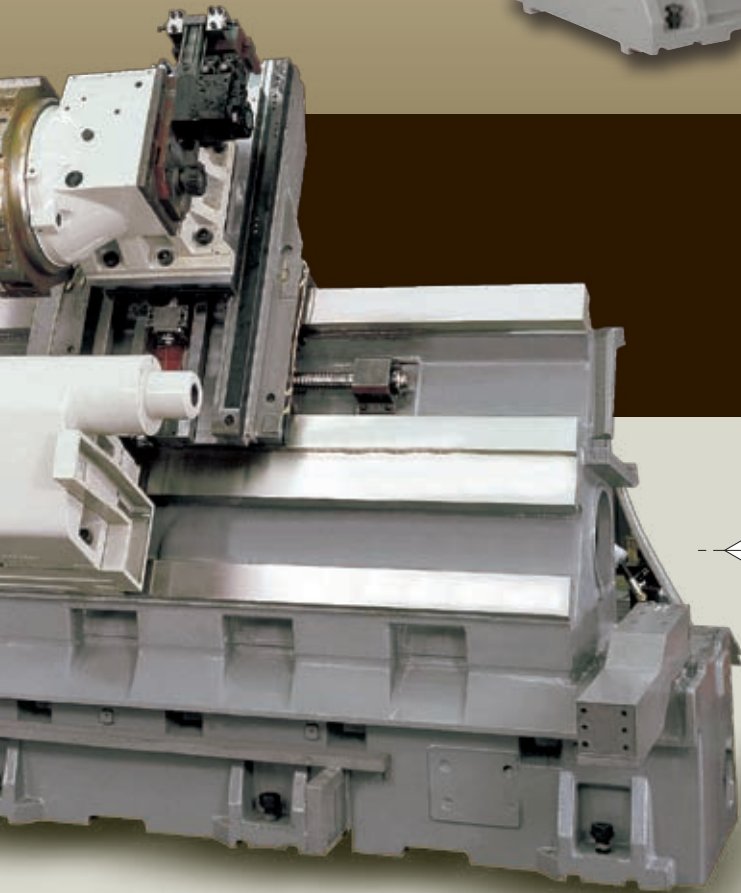
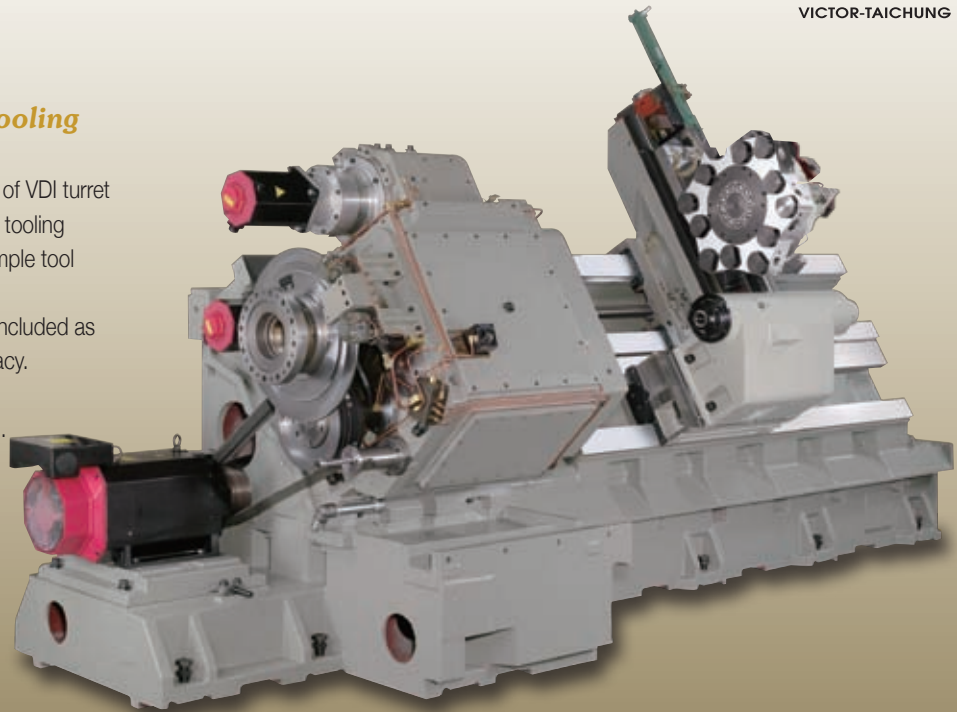
4-step gearbox

Spindle Torque Output Diagram



C-axis VDI turret with live tooling (CV option.)

- Live tooling is provided through the use of VDI turret which not only provides an international tooling system but also allows for quick and simple tool mounting.
- Cf-axis design with angular encoder is included as standard to assure high indexing accuracy.
- Coupling specification DIN-5480.
- Milling power 7 kW (9.4 HP) / 2500 rpm.



Powerful tailstock

- Built-in bearings for fixed center.
- MT#5 tailstock for powerful engagement.

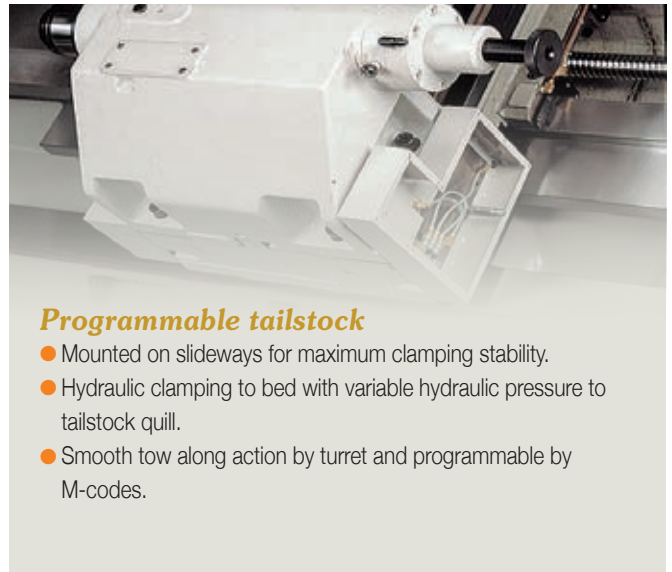
Vturn-46CV cutting capability on mild steel S45C

	OD turning	Drilling (Z-axis $\alpha 30^\circ$)	Milling	Tapping
Metal removal rate (spindle loading %)	792 cc/min (48.3 inch ³ /min) (93%)	672 cc/min (41.0 inch ³ /min)	30 cc/min (1.83 inch ³ /min) (99%)	
Tool	Ø32x10 mm(Ø1.26"x0.39")	Ø58x35 mm(Ø2.28"x1.38")	Ø25x15 mm(Ø1"x0.6")	M16xP2 (80%)[5/8 x P0.08"]
Spindle speed	686 rpm	848 rpm	600 rpm	300 rpm
Feed	F0.35 mm/rev(F0.014"/rev)	F0.3 mm/rev(F0.012"/rev)	F80 mm/min(F3.15 ipm)	F600 mm/min(F23.62 ipm)

Standard Accessories

Reliable Fanuc CNC control

- The proven reliability of Fanuc Oi-T control is combined with Victor Taichung own PLC to offer customers an entire control system who reliability is second to none.



Programmable tailstock

- Mounted on slideways for maximum clamping stability.
- Hydraulic clamping to bed with variable hydraulic pressure to tailstock quill.
- Smooth tow along action by turret and programmable by M-codes.

Reliable Power Chuck

Hydraulic 3 jaw hollow chuck is foot operated for safe and easy operation.



Chip conveyor

Separate chip conveyor and coolant sum design with access from the front of the machine allows easy cleaning and reduces costly shop floor space requirement.



Automatic forced lubrication

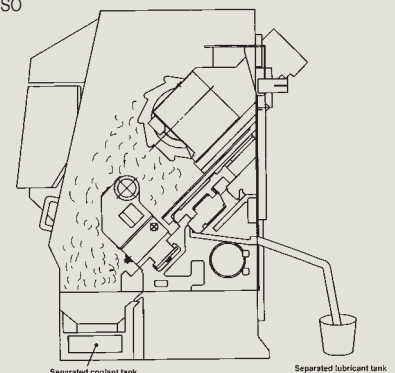
All slideways & moving members are automatically lubricated. Pressurised system is used to monitor amount of oil in circulation. Alarm given if leak or pressure drop occurs. Oil tank and pump located outside guarding for easy maintenance.

Separation system for oil & coolants

A drip tray cast into bed is used to catch waste lubricating oil from Z axis slideway and ballscrew.

The drip tray is sloped so that the oil can flow to an outlet at the rear of the machine.

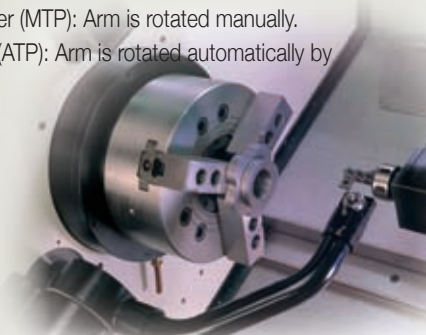
This system reduces contamination or dilution of the cutting fluid.



Optional Accessories

Tool Presetter (Renishaw®)

- No longer to perform tedious time consuming cuts to determine tool geometry, the operator needs only to touch the tool tip to the tool presetter sensor to get the tool geometries not only reducing tool set-up time, but reducing down time due to tool breakage.
- Manual tool presetter (MTP): Arm is rotated manually.
- Auto tool presetter (ATP): Arm is rotated automatically by programming.



Parts catcher & parts conveyor

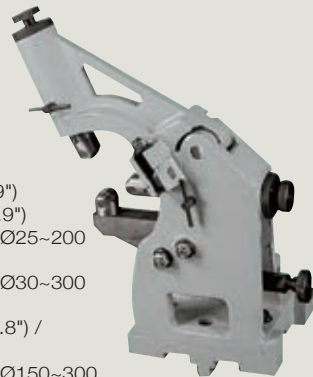
To enhance the machines productivity a parts catcher is available to work in conjunction with the bar feed system.

The parts catcher is fully programmable to allow automated running with finished parts being dispensed in collection tray in door compartment. Door flap is used to seal door off from swarf during contamination. Note: Parts catcher not available for Vturn-46 For heavier parts a rotary chute system mounted below the spindle is used.



Manual steady rest

The large bar capacity and long bed of Vturn lathes make these machines ideal for shaft turning. Victor Taichung can offer inexpensive manual steady rest with manually adjusted rollers to suit this job for simple operation.



Clamping range [mm (inch)]:

- Vturn-16&20: Ø20~150 (0.79"~5.9")
- VturnII-16&20: Ø20~150 (0.79"~5.9")
- Vturn-26: Ø20~150 (0.79"~5.9") / Ø25~200 (0.98"~7.87")
- Vturn-36: Ø20~150 (0.79"~5.9") / Ø30~300 (1.18"~11.8")
- Vturn-40&45: Ø150~300 (5.9"~11.8") / Ø280~400 (11"~15.7")
- Vturn-46: Ø75~150 (2.95"~5.9") / Ø150~300 (5.9"~11.8") / Ø280~400 (11"~15.7")

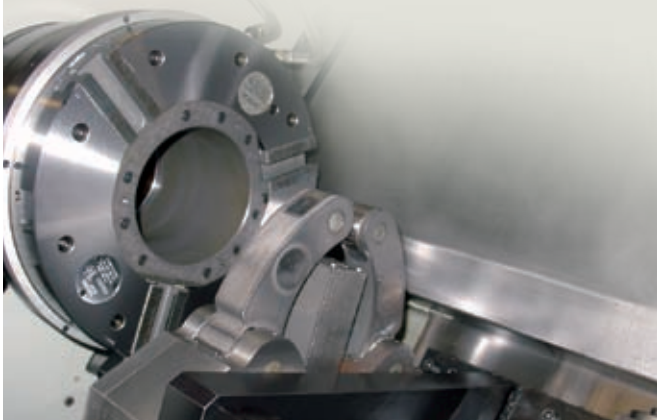
Bar feeder interface

For automatic loading of workpieces, the bar feeder provides a simple yet highly effective System-Interfaces are available on the Vturn lathes so that a number of different barfeeding systems can be worked in conjunction with the lathe. Add to the barfeeder a parts catcher and you have an efficient turnkey system with parts being loaded and unloaded automatically.



Hydraulic steady rest

For greater centering accuracy and easier setup, hydraulic steady rests mounted to the tailstock slideways are also available.



High pressure coolants

Through a combination of high pressure coolant, shower curtain and air gun located through & above the spindle, Victor Taichung can offer you the most efficient chip removal system available on the market today. When combined with automation system it ensures continuous running time and time again.

Machine Specifications

ITEM \ MODEL		Vturn-16 Vturn-20	VturnII-16 VturnII-20	Vturn-26/60 (HD) Vturn-26/110 (HD)	Vturn-36/85 Vturn-36/125
MACHINE CAPACITY					
Swing over bed	mm (inch)	450 (17.72)	590 (23.22)	520 (20.47)	650 (25.59)
Std. Turning dia.	mm (inch)	160 (6.3)	370 (14.57) 360 (14.17)	290 (11.42)	445 (17.52)
Max. turning dia.	mm (inch)	230 (9.06)	440 (17.32) [330 (12.99) for CV]	380 (14.96) [410 (16.14)]	550 (21.65) [458 (18.03) for CV]
Swing over carriage	mm (inch)	300 (11.81)	400 (15.75)	350 (13.78) [380 (14.96)]	500 (19.69) [475 (18.7) for VDI]
Center distance	mm (inch)	635 (25)	540 (21.25)	650 (25.59) 1130 (44.49)	890 (35.04) 1290 (50.79)
Bar capacity (hole through draw bar)	mm (inch)	40 (1.57) 52 (2.04)	40 (1.57) 52 (2.04) [66 (2.6) for LSB]	75 (2.95) [91 (3.58) for LSB]	91 (3.58) [160 (6.3) for LSB]
AXIS FEEDS					
X axis travel :					
-Std turret	mm (inch)	115+20 (4.53+0.79)	220+20 (8.66+0.79)	190+50 (7.48+1.97) [205 (8.07)+50 (1.97)]	275+30 (10.83+1.18)
-VD turret	mm (inch)	110+80 (4.33+3.15)	105+135 (4.13+5.31)	126+130 (4.94+5.12)	143+217 (5.63+8.54)
-VDI turret, C-axis		-	105+135 (4.13+5.31)	-	156+199 (6.14+7.83)
-BMT turret, C-axis		-	-	-	-
Z axis travel	mm (inch)	600 (23.62)	510 (20.08)	610 (24) 1090 (42.91)	855 (33.66) 1255 (49.41)
Y axis travel	mm (inch)	-	-	-	-
Rapid feed - X/Z axis	m/min (ipm)	20/24 (787.4/944.9)	20/24 (787.4/944.9)	20/24 (787.4/944.9)	12/15 (472.4/590.6)
Rapid feed - Y axis	m/min (ipm)	-	-	-	-
Feed motor - X/Z axis	kW (HP)	1.6/3 (2.15/4)	1.6/3 (2.15/4)	3/3 (4/4) [3/4 (4/5.36)]	3/4 (4/5.36)
Feed motor - Y axis	kW (HP)	-	-	-	-
JOG feed rate	m/min (ipm)	0~1260 (0~49.6)	0~1260 (0~49.6)	0~1260 (0~49.6)	0~1260 (0~49.6)
Ball screw dia x pitch	mm (inch)	28 x P6 (X) [1.1 x P0.24 (X)] 40 x P10 (Z) [1.57 x P0.39 (Z)]	28 x P8 (X) [1.1 x P0.31 (X)] 40 x P10 (Z) [1.57 x P0.39 (Z)]	28 x P8 (X) [1.1 x P0.31 (X)] 40 x P12 (Z) [1.57 x P0.47 (Z)]	36 x P6 (X) [1.42 x P0.24 (Z)] 50 x P10 (Z) [1.97 x P0.39 (Z)]
SPINDLE					
Spindle nose (chuck)	inch	A2-5 (6") A2-6 (8")	A2-5 (6") A2-6 (8")	A2-8 (10")	A2-8 (12") (A2-11 for CV, LSB)
Max. spindle speed	rpm	6000 4200 (opt. 3500)	6000 4200	3500 (opt. 2500)	2500 (opt. 2000)
Spindle motor power	kW (HP)	7.5/9.0 (10/12)	11/15 [opt. 7.5/9 (10/12)]	15/18.5 (20/24.8) [18.5/22 (24.8/29.5)]	22/26 (29.5/34.8) With gearbox [37/45 (49.5/60) CV/YCM]
Bearing inside dia.	mm (inch)	90 (3.54) 100 (3.94)	90 (3.54) 100 (3.94)	130 (5.12) [160 (6.3) for LSB]	160 (6.3) [220 (8.7) for LSB]
Spindle bore	mm (inch)	52 (2.04) 62 (2.44)	52 (2.04) 62 (2.44)	87 (3.43) [105 (4.12) for LSB]	105 (4.12) [160 (6.3) for LSB]
TURRET					
No. of tools	no.	12 10 (opt. 8)	12 10 (opt. 8)	10 (opt. 12)	10 (12 for CV)
No. of live tools	no.	-	12	-	6
Tool shank size	mm (inch)	20 (3/4) 20 (3/4) [opt. 25 (1)]	20 (3/4) 25 (1)	25 (1)	32 (1 1/4)
Curvic coupling dia.	mm (inch)	180 (7.09)	180 (7.09)	210 (8.27)	250 (9.84)
Max. boring bar dia.	mm (inch)	32 (1 1/2) (VDI-30) 40 (1 9/16) (VDI-40)	32 (1 1/2) (VDI-30) 40 (1 9/16) (VDI-30)	50 (2) (VDI-40)	50 (2) (VDI-50)
Exchange time (T-T)	sec	1	0.3	1	1
Milling speed	rpm	-	3000	-	3000
Milling motor	kW (HP)	-	3.0 (4)	-	7.0 (9.38)
TAILSTOCK					
Quill dia.	mm (inch)	75 (2.95)	75 (2.95)	110 (4.33)	110 (4.33)
Quill stroke	mm (inch)	80 (3.15)	80 (3.15)	100 (3.94)	100 (3.94)
Quill taper		MT#4	MT#4	MT#4 (live)	MT#4 (live)
OTHER					
CNC controller (FANUC)		0i-T	0i-T	0i-T	0i-T
Tank capacity	L. (gallon)	87 (23)	130 (34.3)	100 (26.4) 130 (34.3)	130 (34.3) 150 (39.6)
Approx. machine size	m (inch)	3.3 x 1.95 x 1.65 (129.9 x 59 x 65)	3.3 x 1.95 x 1.7 (129.9 x 59 x 67)	3.8 [3.9] x 2 x 2 (149.6 [153.5] x 66.9 x 78.7) 4.4 x 1.7 x 2 (173.2 x 66.9 x 78.9)	4.7 x 2.3 x 2.2 (185 x 90.6 x 86.6) 5.2 x 2.3 x 2.2 (205 x 90.6 x 86.6)
Net weight	kg (lbs)	4000 (8800)	4200 (9240)	5400 (11880) 6000 (13200)	8000 (17600) 9100 (20021)

※Machine and controller specifications are subject to change without notice.

Vturn-40/220 [Y] Vturn-45/220 Vturn-46/165
 Vturn-40/325 [Y] Vturn-45/325

780 (30.71)	780 (30.71)	820 (32.28)
520 (20.47)	520 (20.47)	520 (20.47)
620 [560] (390 for CV)	620 (24.41)	730 (28.47)
620 (24.41)	620 (24.41)	520 (20.47)
2165 (85.24) 3425 (134.84)	2165 (85.24) 3425 (134.84)	1750 (68.9)
91 (3.58)	117.5 (4.62) [160 (6.3) for LSB]	115 (4.33)

310+30 (12.2+1.18) 125+315 (4.92+12.4) 107+165 (4.21+6.49) 280+90 (11.02+3.54) 2200 (86.61) 3250 (127.95)	310+30 (12.2+1.18) 125+315 (4.92+12.4) - - 2200 (86.61) 3250 (127.95)	365+25 (14.37+0.98) 137+303 (5.39+11.93) 186+234 (7.32+9.21) - 1650 (64.96)
±80 (3.15)	-	-
20/20 (787.4/787.4) 20/12 (787.4/472.4)	20/20 (787.4/787.4) 20/12 (787.4/472.4)	12/15 (472.4/590.6)
7 (9.4)	-	-
4/7 (5.36/9.38) (α30i) 4/6 (5.36/8) (α40i)	4/7 (5.36/9.38) (α30i) 4/6 (5.36/8) (α40i)	3/4 (4/5.36) [opt. 3/7 (4/9.38)]
4 (5.36)	-	-
0~1260 (0~49.6)	0~1260 (0~49.6)	0~1260 (0~49.6)
36 x P10 (X) [1.42 x P0.39 (X)] 50 x P16 (Z) [1.97 x P0.63 (Z)] 36 x P10 (X) [1.57 x P0.39 (X)] 63 x P16 (Z) [2.48 x P0.63 (Z)] 32 x P10 (Y) [1.26 x P0.39 (Y)]	36 x P10 (X) [1.42 x P0.39 (X)] 50 x P16 (Z) [1.97 x P0.63 (Z)] 36 x P10 (X) [1.57 x P0.39 (X)] 63 x P16 (Z) [2.48 x P0.63 (Z)] -	36 x P6 (X) [1.42 x P0.24 (X)] 50 x P10 (Z) [1.97 x P0.39 (Z)]

A2-11 (15")	A2-11 (15")	A2-11 (15")
2500	2000	1500
30/37 (40.2/49.6) With gearbox [37/45 (49.5/60) CV/YCM]	30/37 (40.2/49.6) With gearbox	30/37 (40.2/49.6) With gearbox
160 (6.3)	190 (7.48) [220 (8.7) for LSB]	180 (7.09)
105 (4.12)	135 (5.31) [160 (6.3) for LSB]	123 (4.84)

10 (opt. 12) (12 for VT-40CV/YCM)	10 (opt. 12)	10 (12 for CV)
6 (12 for YCM)	-	6
32 (1 1/4)	32 (1 1/4)	32 (1 1/4)
250 (9.84)	250 (9.84)	320 (12.6)
50 (2) (VDI-50)	50 (2) (VDI-50)	60 (2 3/8) (VDI-50)
1	1	1
3000	-	3000
7.0 (9.38)	-	7.0 (9.38)

150 (5.91)	150 (5.91)	150 (5.91)
150 (5.91)	150 (5.91)	150 (5.91)
MT#5 (live)	MT#5 (live)	MT#5 (live)

Oi-T	Oi-T	Oi-T
450 (118.8) 700 (184.9)	450 (118.8) 700 (184.9)	250 (66)
7.1 x 2.7 x 2.2 [279.5 x 82.7 x 86.6] 8.5 x 2.7 x 2.2 [334.6 x 82.7 x 86.6]	7.1 x 2.7 x 2.2 (279.5 x 82.7 x 86.6) 8.5 x 2.7 x 2.2 (334.6 x 82.7 x 86.6)	6.2 x 2.5 x 2.5 (244 x 118 x 98.4)
15000 (33069) [17000 (37479)] 17000 (37479) [19000 (41888)]	15580 (34276) 17580 (38676)	13500 (29700)

Standard Accessories

- Power chuck with soft jaws
- Programmable tailstock
- Chip conveyor
- Automatic forced lubrication
- Fully enclosed splash guarding
- Tool holders (excl. VDI turret system)
- Fanuc Oi-TD (or Oi-TF) control
- 3 step warning light
- Air conditioner for electrical cabinet (excl. Vturn-26HD)

Optional Accessories

- Kitagawa® chuck
- Hard jaws
- Tailstock center
- Manual tool presenter
- Automatic tool presenter
- Parts catcher
- High pressure coolants
- Auto door
- Air blow system
- Oil-mist remover
- Oil skimmer (std. on Vturn-40/45)
- Bar feeder interface
- Steady rest (Manual or hydraulic)
- C-axis with live tooling (CV) for Vturn-36/40/46
- VDI turret
- Bigger chuck on Vturn-26/36/40/45/46
- High/low chucking pressure
- Large spindle bore for Vturn-26/36/45

Machine Color Options

RAL 2008 (Victor's orange)

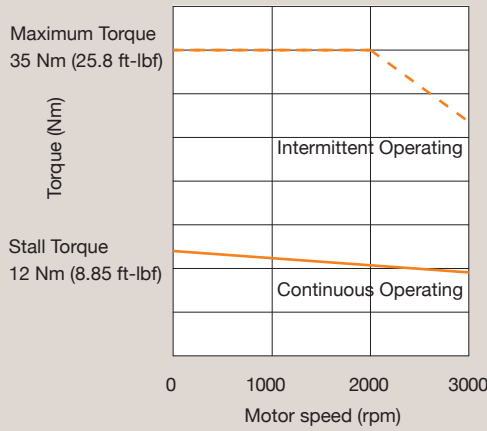


RAL 7024 (Graphite grey)

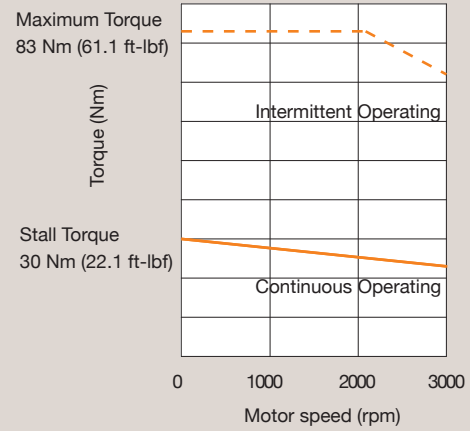


Milling Spindle Output

VturnII-16/20CV



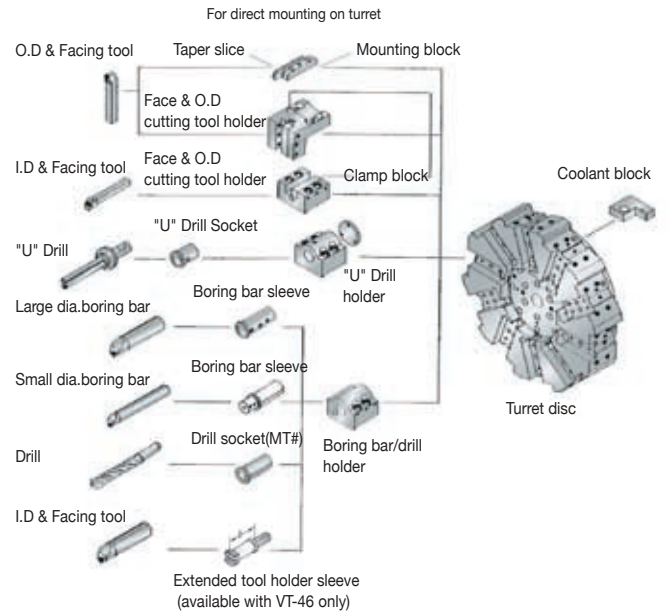
Vturn-36CV/40CV/40YCM/46CV



Tooling accessories (excl. VDI or BMT turret model)

TOOL \ MODEL	Vturn-16 VturnII-16	Vturn-20	VturnII-20	Vturn-26 Vturn-26HD	Vturn-36 Vturn-40 Vturn-45	Vturn-46
Tool shank for turret disk	20 mm (3/4")	20 mm (3/4")	25 mm (1")	25 mm (1")	32 mm (1 1/4")	32 mm (1 1/4")
Maximum boring bar dia.	32 mm (1 1/4")	32 mm (1 1/4")	40 mm (1 9/16")	50 mm (2")	50 mm (2")	60 mm (2 3/8")
Face + O.D. cutting tool holder	2	2	2	2	1	1
Face + I.D. cutting tool holder	1	1	1	1	1	1
Extended I.D. cutting tool holder	-	-	-	-	-	2
Boring bar holder	-	-	-	-	-	-
32 mm (1 1/2")	6	6	-	-	-	-
40 mm (1 9/16")	-	-	4	5	-	-
50 mm (1")	-	-	-	1	5	-
60 mm (2 3/8")	-	-	-	-	-	5
Boring bar sleeve						
8 mm (5/16")	1	1	-	1	-	-
10 mm (3/8")	2	2	2	2	1	-
12 mm (1/2")	2	2	2	2	1	-
16 mm (5/8")	2	2	2	2	2	-
20 mm (3/4")	2	2	2	2	2	2
25 mm (1")	2	2	2	2	2	2
32 mm (1 1/2")	-	-	2	2	2	2
40 mm (1 9/16")	-	-	-	-	2	2
50 mm (2")	-	-	-	-	-	2
Drill socket						
MT1	Opt.	Opt.	1	-	-	-
MT2	1	1	1	Opt.	-	-
MT3	Opt.	Opt.	1	1	Opt.	-
MT4	-	-	-	Opt.	1	1
U drill holder						
32 mm (1 1/2")	1	1	-	-	-	-
40 mm (1 9/16")	-	-	1	1	-	-
U drill socket						
20 mm (3/4")	1	1	Opt.	Opt.	-	-
25 mm (1")	1	1	1	1	1	-
32 mm (1 1/2")	-	-	-	1	1	2
40 mm (1 9/16")	-	-	-	-	Opt.	2

※ Tooling accessories are subject to change without notice.



Victor's Fanuc Oi-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.	2 nd 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	± 8-Digit
7.	Program Number	08-Digit
8.	Sequence Number	N5-Digit
9.	Absolute / Incremental Programming	G90/G91
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, G53, G54-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

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	Std.
5.	Spindle Override	50-120%
6.	Actual Spindle Speed Output	Std.
7.	1 st Spindle Orientation	Std.
8.	1 st 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	± 6-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 sets
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)	1280 m / 512kB (Oi-F/32iB)
2.	Number of Registerable programs (in total)	400 (Oi-F), 400 (32iB)
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 31 characters
5.	Parameter Setting and Display	Std.
6.	Self Diagnosis Function	Std.
7.	Alarm Display	Std.
8.	Alarm History Display	25
9.	Operation History Display	Std.
10.	Help Function	Std.
11.	Run Hour and Parts Count Display	Std.
12.	Actual Cutting Feedrate Display	Std.
13.	Display Spindle Speed and T Code At All Screens	Std.
14.	Dynamic Graphic Display	Std.
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" (0), 10.4" (Oi-F+/32iB)

Data Input / Output:

1.	Reader / Puncher Interface	RS-232 interface
2.	Memory Card Interface	Std.
3.	External Work piece number search	9999

C Axis Function (used on CV/SCV/Y 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 C axis)	Std. (used on Vturn only)
8.	Polar Coordinate Interpolation	Std. (G112/G113)
9.	Cylindrical Interpolation	Std. (G107)
10.	CS Contouring Control	Std.
11.	Coordinate System Rotation	Std.
12.	Rigid Tapping (C-axis) with Victor's own PMC	Std.

OPTIONS:

With hardware included:

1.	Conversational programming (Manual guide 0 th)	<input type="checkbox"/>	Std.
2.	Conversational programming (Cap I)	N.A.	N.A.
3.	Date server (with PCB and ATA card)	<input type="checkbox"/>	<input type="checkbox"/>
4.	Embedded Ethernet (10Mbps)	Std.	Std.
5.	Fast Ethernet (100Mbps, available in Data server)	<input type="checkbox"/>	<input type="checkbox"/>
6.	Tool life management	<input type="checkbox"/>	<input type="checkbox"/>
7.	Part Program Storage Length 1280 mm (in total)	Std.	<input type="checkbox"/>
8.	Part Program Storage Length 2560 mm (in total)	N.A.	<input type="checkbox"/>
9.	Quick program restart	<input type="checkbox"/>	<input type="checkbox"/>
10.	Optional block skip 2-9 blocks	<input type="checkbox"/>	<input type="checkbox"/>
11.	Polygon turning (by C-axis) with Victor's own PLC	<input type="checkbox"/>	<input type="checkbox"/>
12.	Manual handle feed 2 (2 nd MPG)	N.A.	<input type="checkbox"/>
13.	Reader/Puncher interface 2 (2 nd RS232 interface)	N.A.	<input type="checkbox"/>
14.	External data input	N.A.	<input type="checkbox"/>
15.	Profibus	<input type="checkbox"/>	<input type="checkbox"/>
16.	USB port	Std.	Std.

Without hardware included:

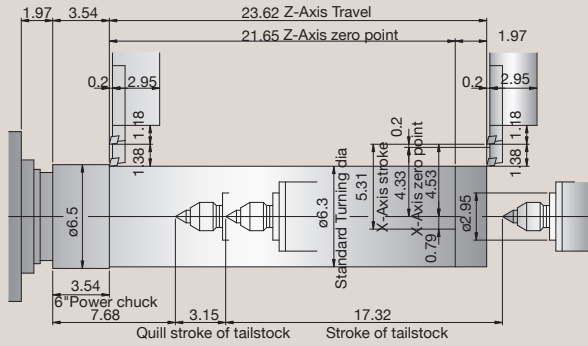
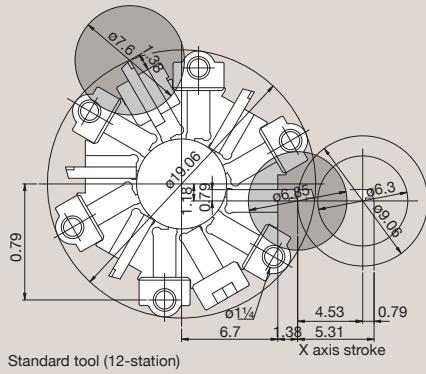
17.	Program number 08-digit	<input type="checkbox"/>	<input type="checkbox"/>
18.	Circular thread cutting (G35)	N.A.	<input type="checkbox"/>
19.	Circular interpolation by 9-digit R designation	N.A.	Std.
20.	Tool offset value 7 digits	Std.	Std.
21.	Number of registered program 1000 (in total)	N.A.	<input type="checkbox"/>
22.	G code system B/C	N.A.	<input type="checkbox"/>
23.	Type format for FS 15	N.A.	<input type="checkbox"/>
24.	Play back	N.A.	<input type="checkbox"/>
25.	Three-dimensional coordinate conversion	N.A.	<input type="checkbox"/>
26.	Direct input of offset value measured for 2 spindle lathe	N.A.	<input type="checkbox"/>
27.	AI NANO control (G5.1 Q1)	N.A.	<input type="checkbox"/>
28.	JERK control	N.A.	<input type="checkbox"/>
29.	Bell-type acceleration/deceleration before lock-ahead interpolation N.A.	N.A.	Std.**

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

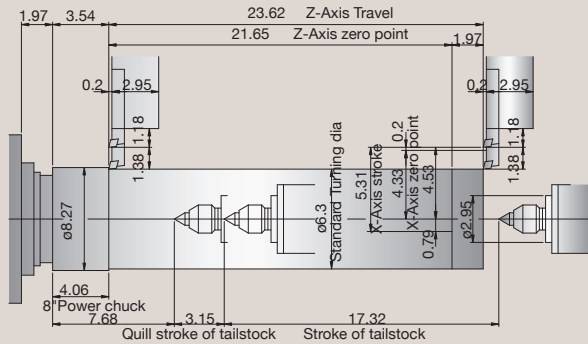
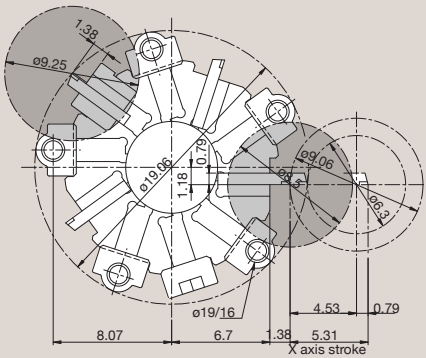
*2. Included in AI NANO control

Technical Drawings

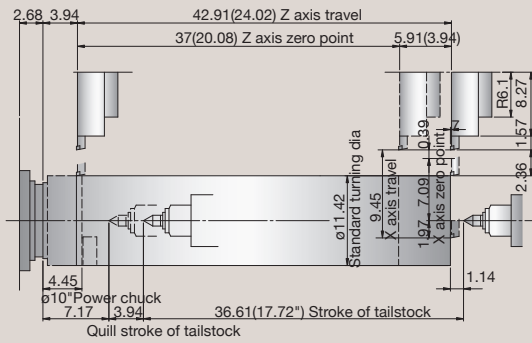
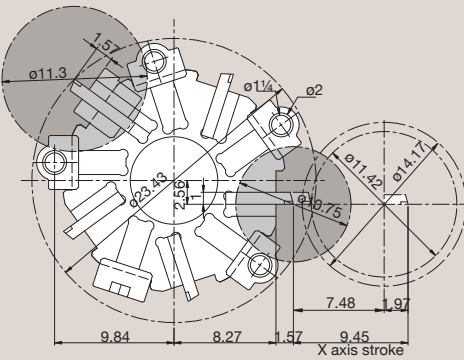
Vturn-16



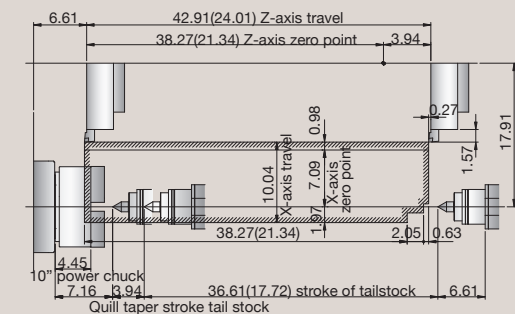
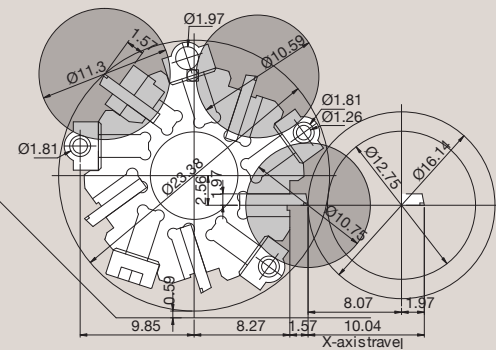
Vturn-20



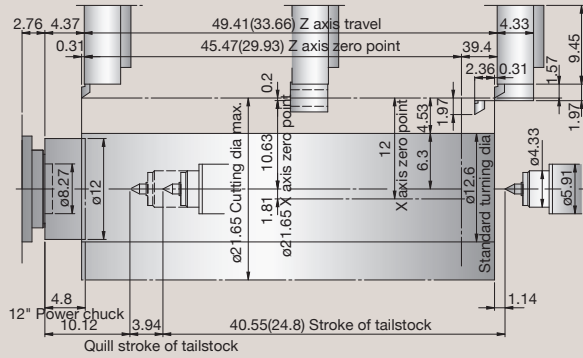
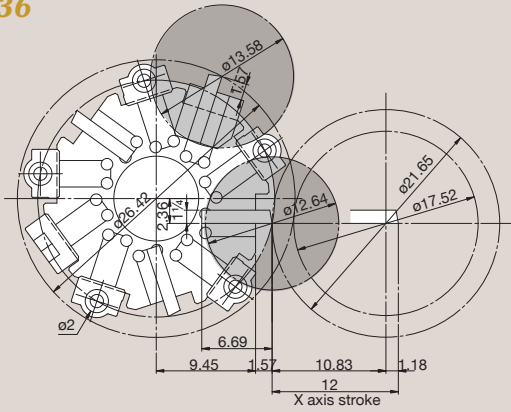
Vturn-26



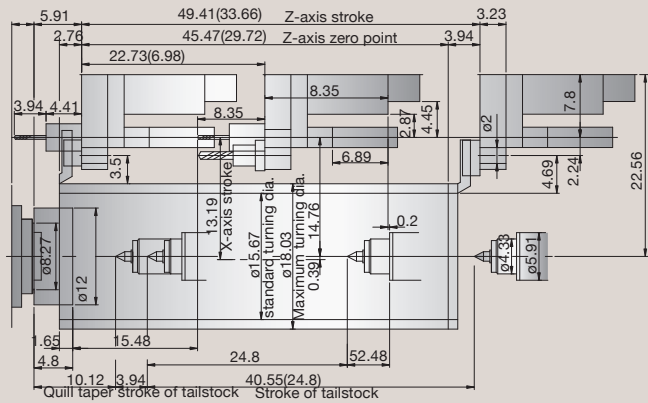
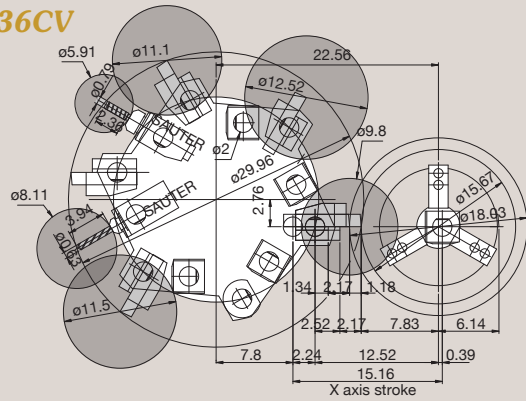
Vturn-26HD



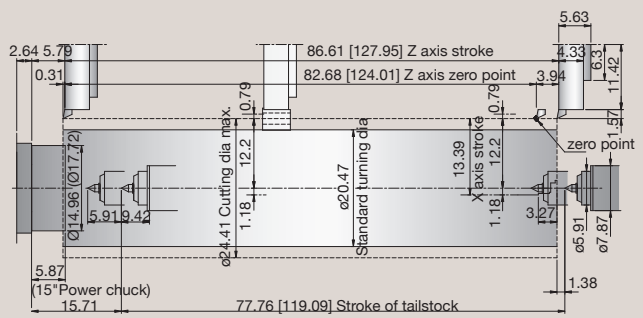
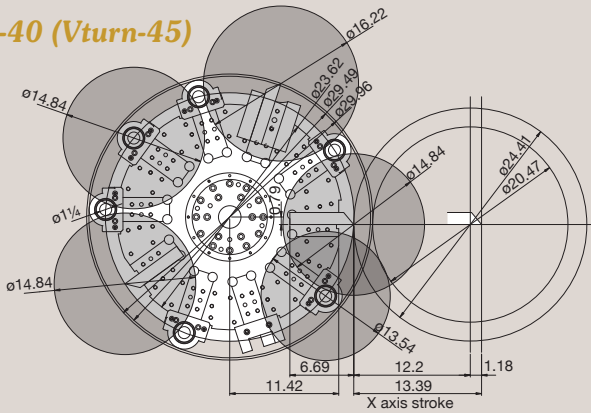
Vturn-36



Vturn-36CV

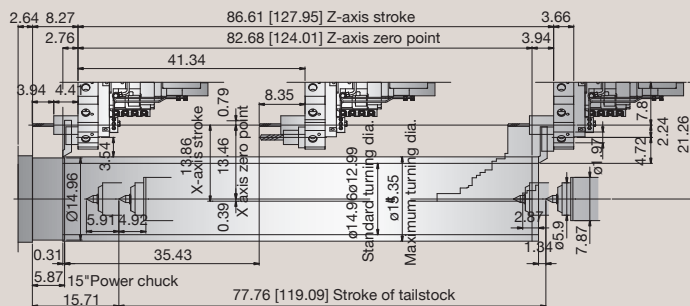
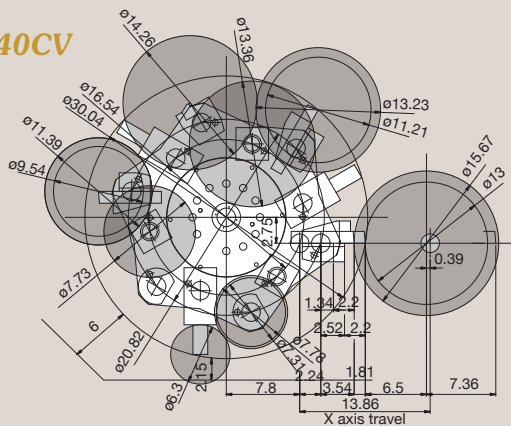


Vturn-40 (Vturn-45)



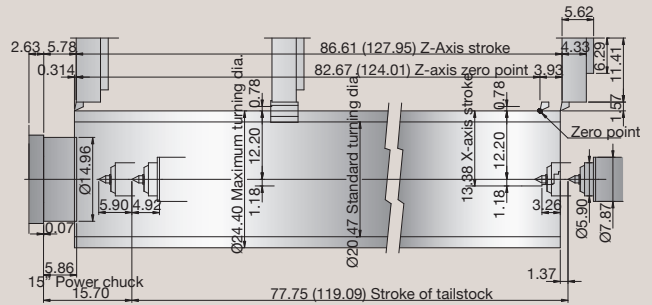
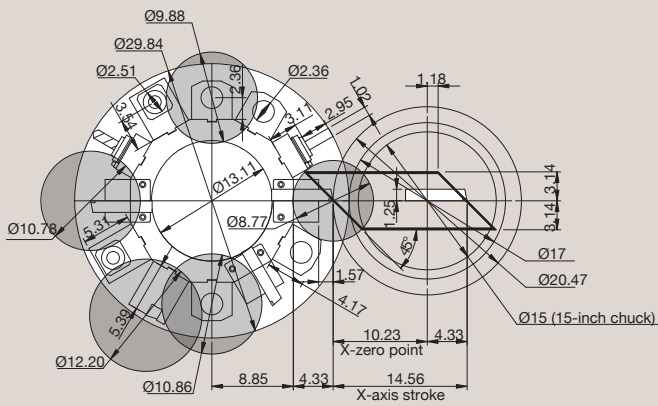
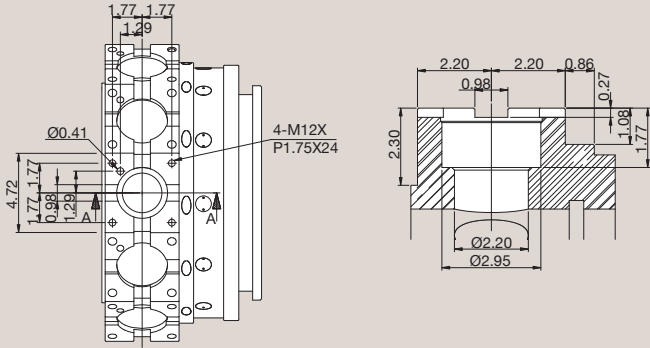
[Vturn-40(45)/325]

Vturn-40CV

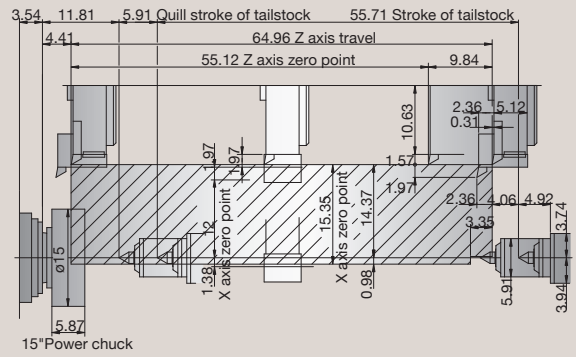
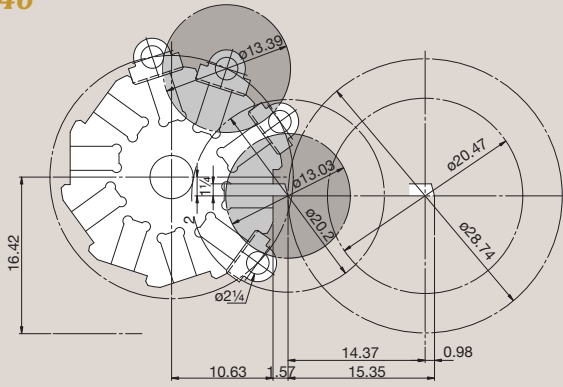


Technical Drawings

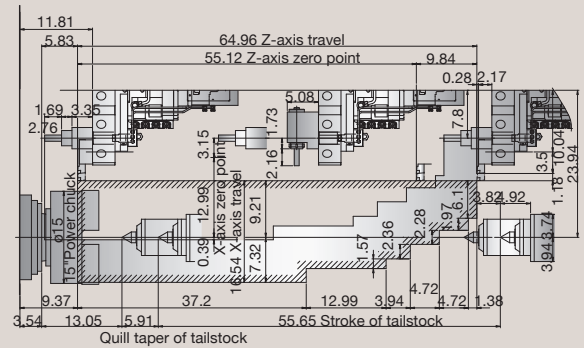
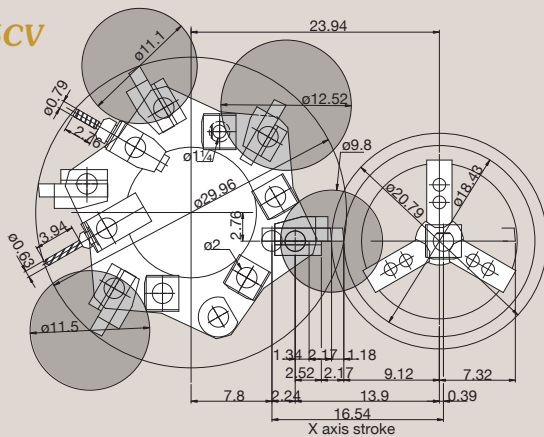
Vturn-40YCM



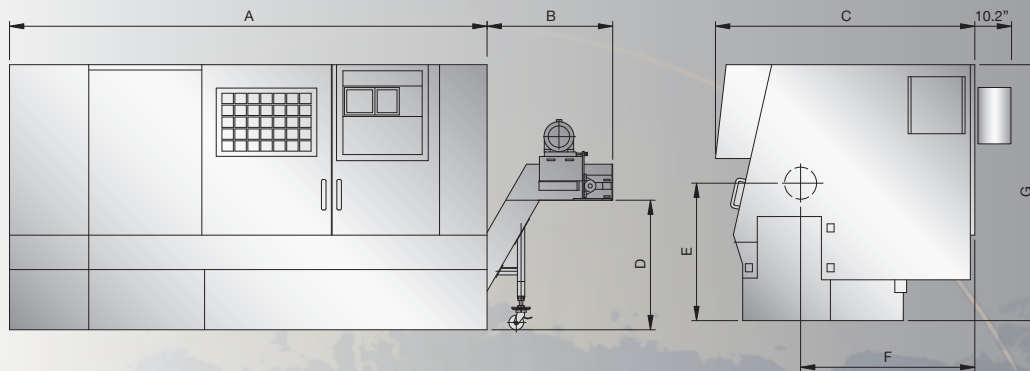
Vturn-46



Vturn-46CV



Vturn Machine Layout



ITEM \ MODEL	Vturn-16 Vturn-20	VturnII-16 VturnII-20	Vturn-26/60 (HD) Vturn-26/110 (HD)	Vturn-36/85 Vturn-36/125	Vturn-40/220 (Y) Vturn-40/325 (Y)	Vturn-45/220 Vturn-45/325	Vturn-46/165
A	100	91.7	119 (125) 141.7 (147.7)	145.7 163	221.8 273.9	221.8 273.9	204
B	29.5	36.6 + 51.2 move out	29.5	43.1	59.4	59.4	40.6
C	59	68	68.7	78.1	96.3 [104.6]	96.3	85.3
D	44	44	44.4	43.3	49.7	49.7	42
E	35.4	37.6	37.8	43.6	47.3 [52.8]	47.3	46.9
F	41.3	49.4	46.3	53.2	57.3	57.3	53.7
G	65	67	76.4	86.8	91.1 [117.4]	91.1	93.1

Unit: inch



Vturn-P16 with built-in robot



**Vturn-A20Y with Y-axis
BMT turret**



Vturn-V1000 vertical lathe

FORTUNE

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TEL: 1-732-214-0700
FAX: 1-732-214-0701

<http://www.fortune-cnc.com>
<http://www.fortune-imm.com>
E-mail: sales@fortune-cnc.com

VictorTaichung profile:
Sales turnover: USD 155 mil's (in 2014)*
No. of employees: 1079
*Exchange rate: 1 USD=30 TWD.



THE VICTOR-TAICHUNG COMPANIES



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