

Vicurn 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 610mm for Vturn-16/20/26 and 1090mm for Vturn-26/110.
- Special LSB option on Vturn-26 for bar capacity 91mm/2500rpm.

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 440mm.
- Box slideways with power full spindle motor 11/15kW 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 855mm for Vturn-36/85 and 1255mm 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 160mm /1300rpm.



Vturn-40 & Vturn-45 3.25 meter lathe with high feed rate for heavy cutting.

- Rapid feed rate 20/20 m/min for Vturn-40/220 & Vturn-45/220 and 20/12 m/min for Vturn-40/325 & Vturn-45/325.
- Maximum turning length 3250mm!
- 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" chick 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 1650mm.
- Available with C-axis spindle and live tooling by Victor's own VDI turret.







Headstock machining & boring:

To ensure the quality control on the accurate parts such like 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.

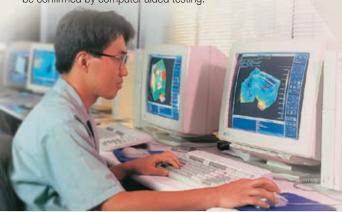
Meehanite® cast iron:

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.



Manufacturing Philosophy









Hardened box slide ways:

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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 0.5mm 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 epartment.

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

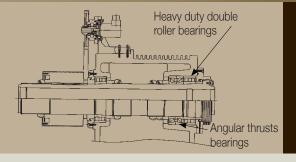
Quality inspection:

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!

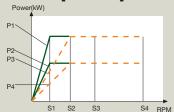
- Genuine 45° slant bed for minimum distance from Z-axis ball screw to the tool tip.
- Box slideways with hardness HRC 55 for heavy cutting.
- Hydraulic 6" /8" /10" chuck is offered as standard.
- Programmable tailstock and chip conveyor is offered as standard.
- Only wide range spindle motor Fanuc α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



High rigidity & high precision spindle

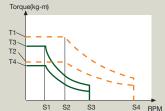
- Encased in well ribbed headstock for maximum heat dissipation.
- Angular thrust bearings absorb axial cutting force and NN-type roller bearings facilitate heavy cutting.

Spindle Torque Output Diagram



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





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

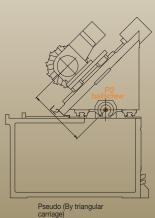
Model	Spindle Motor	Base Speed (rpm)		Max. Speed (rpm)	P. Cont. (kw)	P. (kw)	Tor. Cont. (kg-m)	Tor. (kg-m)
Vturn-16	αP15i	Low winding	500	1500	5	9 (15 min.)	9.73	17.5 (15 min.)
vium-16	αΡΙΟΙ	High winding	750	6000	7.5	9 (30 min.)	9.73	11.67 (30 min.)
Vturn-20	αP15i	Low winding	350	1050	5	9 (15 min.)	13.9	25 (15 min.)
Vturri-20	αΡ15Ι	High winding	525	4200	7.5	9 (30 min.)	13.9	16.68 (30 min.)
Ont	αP22i	Low winding	350	1050	7.5	15 (15 min.)	20.84	41.69 (15 min.)
Opt.		High winding	525	4200	11	15 (30 min.)	20.52	27.98 (30 min.)
Vturn-26	αP30i	Low winding	308	1156	11	18.5 (15 min.)	34.77	58.47 (15 min.)
Vturr-20		High winding	443	3500	15	18.5 (30 min.)	32.92	40.6 (30 min.)
V4. was OCLID	αΡ40ί	Low winding	308	1156	13	22 (15 min.)	40.98	69.36 (15 min.)
Vturn-26HD		High winding	443	3500	18.5	22 (30 min.)	40.58	48.26 (30 min.)
Vturn-26LSB	αP30i	Low winding	211	833	11	18.5 (15 min.)	48.7	81.9 (15 min.)
Vlum-20LSB		High winding	316	2500	15	18.5 (30 min.)	46.17	56.94 (30 min.)
Opt	αP40i	Low winding	211	833	13	22 (15 min.)	57.48	97.27 (15 min.)
Opt.	αΡ40Ι	High winding	316	2500	18.5	22 (30 min.)	56.9	67.69 (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





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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 91mm/2500rpm to minimize your investment.



Vturn-26"HD" for Heavy Duty Application

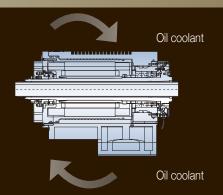
Package with the following features:

- Bigger spindle motor (αP40i) 22kW.
- Bigger Z-axis motor (α22i) 4kW.
- Larger turning diameter 410mm.
- Larger swing over carriage 380mm.
- Coolant flush on Z-axis cover.
- Upgraded guarding improves coolants and chips disposal.

Vturn<mark>III-16 & VturnIII-20</mark>

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

- Genuine 30° one piece slant bed enables large turning diameter 440mm.
- Box slideways with power full spindle motor 11/15kW 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 VturnII-20 for bar capacity 66mm/4500rpm.



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

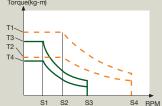
The directly driven spindle unit uses the powerful FANUC α Pi series motors with their wide range of high torque output and fast acceleration times to optimum speeds.







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



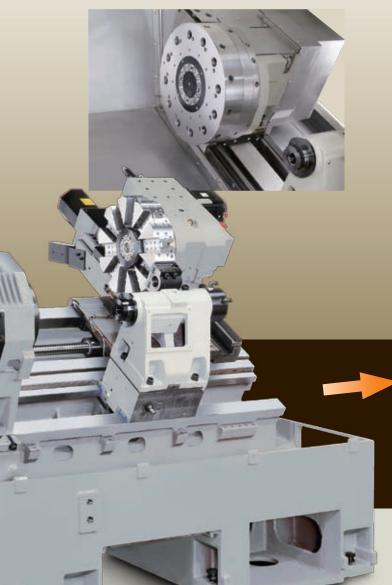
T1 ("30 min. in low winding)
T2 (cont. in low winding)
T3 ("30 min. in high winding)
T4 (cont. in high winding)
T4 (cont. in high winding)
S3 (max. RPM in low winding)
S4 (max. RPM in high winding)

*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)	P. (kW)	Tor. Cont. (kg-m)	Tor. (kg-m)
Vturnll-16	αP22i	Low winding	500	1500	7.5	15 (15 min.)	14.6	29.2 (15 min.)
vturriii- 10	UF221	High winding	750	6000	11	15 (30 min.)	14.4	19.6 (30 min.)
Opt.	αP15i	Low winding	500	1500	5	9 (15 min.)	9.73	17.5 (15 min.)
Opt.		High winding	750	6000	7.5	9 (30 min.)	9.73	11.67 (30 min.)
VturnII-20	αP22i	Low winding	350	1050	7.5	15 (15 min.)	20.84	41.69 (15 min.)
Vturriii-20		High winding	525	4200	11	15 (30 min.)	20.52	27.98 (30 min.)
Ont	αP15i	Low winding	350	1050	5	9 (15 min.)	13.9	25 (15 min.)
Opt.		High winding	525	4200	7.5	9 (30 min.)	13.9	16.68 (30 min.)
VturnII-16CV	αB160Mi	Low winding	300	900	5.5	7.5 (15%)	17.8	24.3 (15%)
vturnii-16Cv		High winding	850	6000	11	18.5 (15%)	12.6	21.2 (15%)
\/t;	:D100M	Low winding	450	800	11	15 (20 min.)	23.8	32.4 (20 min.)
VturnII-20CV	αB180Mi	High winding	800	4200	11	15 (30 min.)	13.3	18.2 (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 3000rpm.
- 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) - 66mm/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. 66mm and upgraded spindle speed 4500rpm 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 (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.



Viturn-36

Two step gearbox for reliable heavy cutting!

- Genuine 45° slant bed for minimum distance from Z-axis ball screw to the tool
- Z-axis ballscrew diameter 50mm.
- 91mm 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 855mm for Vturn-36/85 and 1255mm 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 160mm/1300rpm

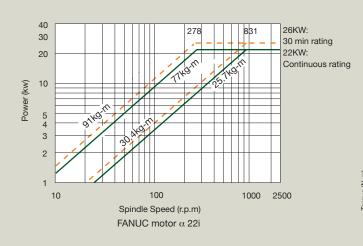


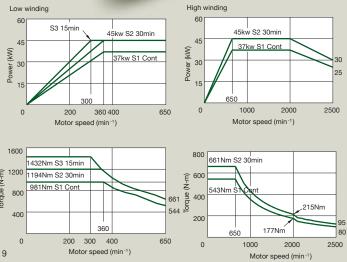
2-step gearbox

Vturn-36CV

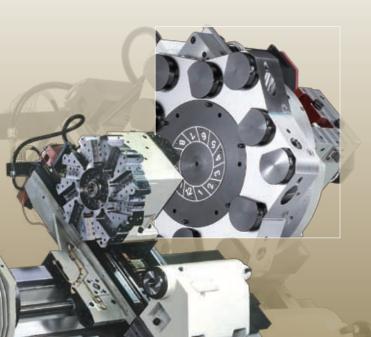
Spindle Torque Output Diagram

Vturn-36 STD





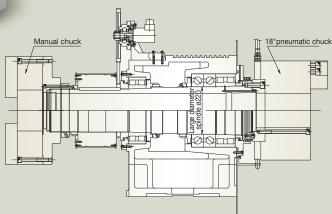




C-axis VDI turret with live tooling (CV option.)

- 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 7kW/2500rpm.

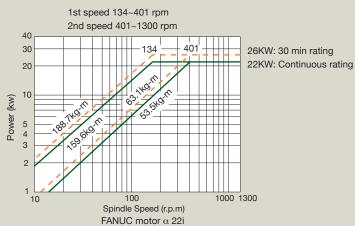




Large Spindle Bore (LSB)-160mm/1300rpm (optional)

- Large bore spindle with bar capacity of 160mm.
- Ideal for machining of large diameter pipes.
- Max. spindle speed: 1800rpm (1300rpm limited by pneumatic chuck).
- Bearing diameter 220mm.
- 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

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

- Genuine 45° one piece slant bed for maximal structure rigidity.
- Maximum turning length up to 3250mm (128").
- Rapid feed rate 20/20 m/min for Vturn-40/220 & Vturn-45/220.
- Spindle nose A2-11 with hydraulic 15" chuck.
- Spindle power 37kW by Fanuc α 30/6000i motor.
- Z-axis ballscrew diameter 50mm (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: 91mm (3.58") for Vturn-40, 117.5mm (4.62") for Vturn-45.



2-step gearbox

Spindle Torque Output Diagram

Vturn-40&45 STD (Vturn-45 maximum 2000rpm)

37kw

1st speed 286~728 rpm

(Velocity ratio:4.02)

Continuous operating zone

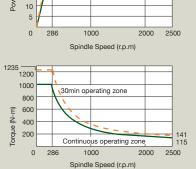
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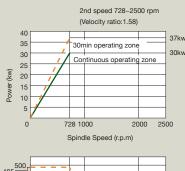
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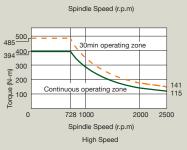
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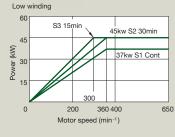


Low Speed

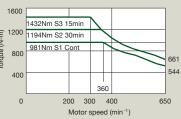


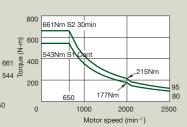


Vturn-40CV & Vturn-40YCM











One piece cast bed

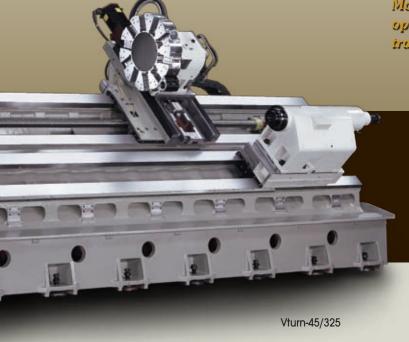
- Built in the latest technology, the new Vturn-40 and Vturn-45 have one-piece slant bed to enhance the structure stiffness.
- The turret carriage has even been enhanced 15% structure rigidity than Vturn-36 model to afford more cutting resistance.
- High volume coolant flush onto the Z-axis cover helps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

C-axis VDI or BMT turret with live tooling

DDS built-in spindle (for Vturn-40CV and Vturn-40Y).



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





Vturn-40YCM (optional)

Y-axis (travel : ±80mm) with BMT-75 turret.



Manual steady rest (Standard)

• Clamping range: 280-400mm (Opt. 150-300mm)



Vturn-46

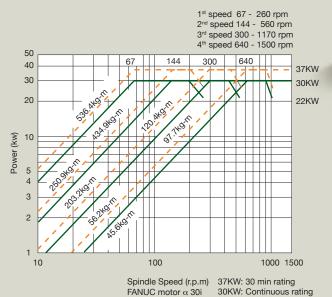
Built-in 4-Step Gearbox for powerful heavy cutting!

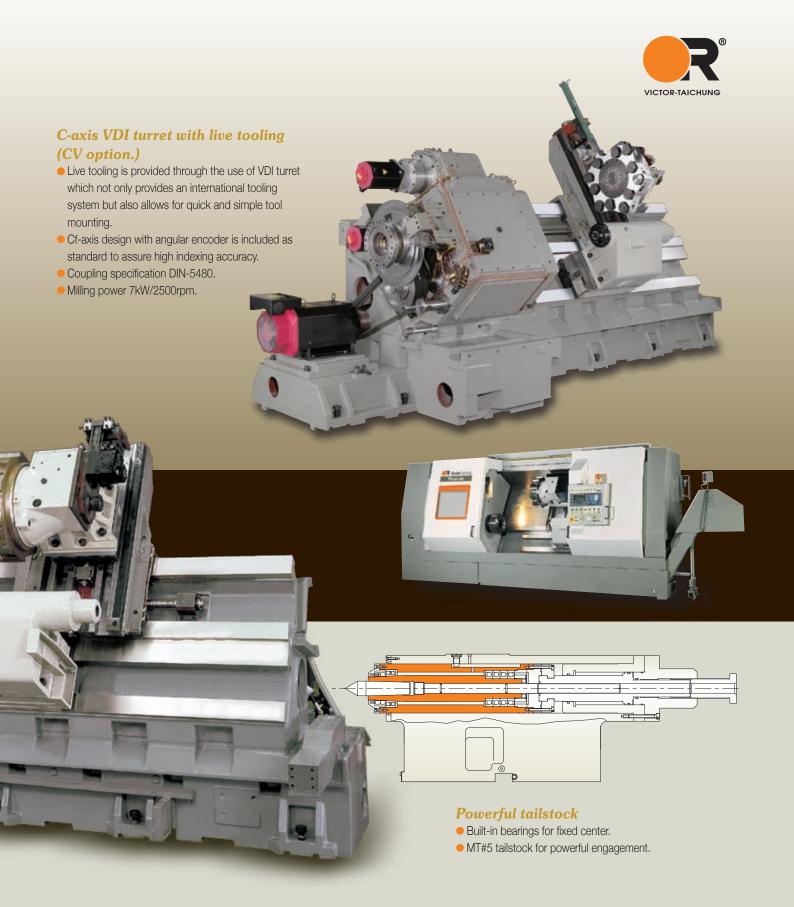
- Genuine 60° slant bed for minimum distance from Z-axis ball screw to the tool tip so as to reduce the chip built-up.
- Built-in 4-step gearbox inside the headstock further enhances the cutting torque 536.4kg-m at low spindle speed 67rpm.
- Spindle nose A2-11 with hydraulic 15" chuck is offered as standard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



4-step gearbox

Spindle Torque Output Diagram





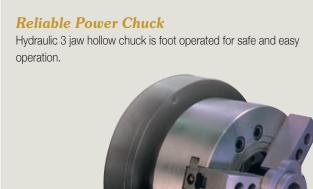
Vturn-46CV cutting capability on mild steel S45C

	OD turning	Drilling (Z-axis $lpha$ 30i)	Milling	Tapping
Metal removal rate (spindle loading %)	792cc/min (93%)	672cc/min	30cc/min (99%)	-
Tool	Ø32x10mm	Ø58x35mm	Ø25x15mm	M16xP2 (80%)
Spindle speed	686rpm	848rpm	600rpm	300rpm
Feed	F0.35mm/rev	F0.3mm/rev	F80mm/min	F600mm/min

Standard Accessories







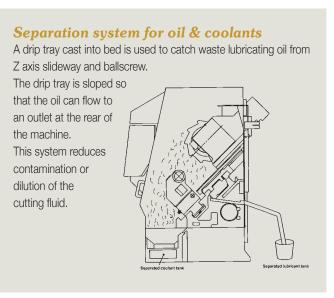




Separate chip conveyor and coolant sum design with access from

Chip conveyor and cart





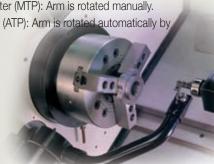


Optional Accessories

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
- 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.

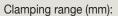
Note: Parts catcher not available for Vturn-46 For heavier parts a rotary chute system mounted below the spindle is used.



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.



Vturn-16&20: Ø20~150 VturnII-16&20: Ø20~150 Vturn-26: Ø20~150 / Ø25~200

Vturn-36: Ø20~150 / Ø30~300 Vturn-40&45: Ø150~300 / Ø280~400 Vturn-46: Ø75~150 / Ø150~300 / Ø280~400 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



Hydraulic steady rest

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





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		450	500	520	050
Swing over bed	mm		590 370		650
Std. Turning dia.	mm	160	360 440	290	445 550
Max. turning dia.	mm	230	(330 for CV)	380 (410)	(458 for CV)
Swing over carriage	mm	300	400	350 (380)	500 (475 for VDI)
Center distance	mm	635	540	650 1130	890 1290
Bar capacity (hole through draw bar) AXIS FEEDS	mm	40 52	40 52 (66 for LSB)	75 (91 for LSB)	91 (160 for LSB)
X axis travel: -Std turret -VD I turret -VDI turret, C-axis - BMT turret, C-axis	mm	115+20 110+80 - -	220+20 105+135 105+135 -	190+50(205+50) 126+130 - -	275+30 143+217 156+199
Z axis travel	mm	600	510	610 1090	855 1255
Y axis travel	mm	-		-	-
Rapid feed - X/Z axis	m/min	20 / 24	20 / 24	20 / 24	12 / 15
Rapid feed - Y axis	m/min	-	-	-	-
Feed motor - X/Z axis	kW	1.6 / 3	1.6/3	3 / 3 (3 / 4)	3/4
Feed motor - Y axis	kW	-		-	-
JOG feed rate	mm/	0~1260	0~1260	0~1260	0~1260
	<u>min</u>				
Ball screw dia x pitch	mm	28 x P6 (X) 40 x P10 (Z)	28 x P8 (X) 40 x P10 (Z)	30 x P8 (X) 40 x P12 (Z)	36 x P6 (X) 50 x P10 (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	7.5 / 9.0	11 / 15 (opt. 7.5 / 9)	15 / 18.5 (18.5 / 22)	22 / 26 (opt. 30 / 37) With gearbox
Bearing inside dia.	mm	90 100	90 100	130 (160 for LSB)	160 (220 for LSB)
Spindle bore	mm	52 62	52 62	87 (105 for LSB)	105 (160 for LSB)
TURRET		Ü.	VL		
No. of tools	no.	12 10 (opt. 8)	12 10 (opt. 8)	10	10 (12 for CV)
No. of live tools	no.	-	12	-	6
Tool shank size	mm	20 20 (ant 05)	20 25	25	32
Curvic coupling dia.	mm	20 (opt. 25) 180	180	210	250
Max. boring bar dia.	mm	32 (VDI-30) 40 (VDI-40)	32 (VDI-30) 40 (VDI-30)	50 (VDI-40)	50 (VDI-50)
Exchange time (T-T)	sec	40 (VDI-40) 1	0.3	1	1
Milling speed	rpm	-	3000	-	3000
Milling motor	kW	-	3.0	-	7.0
TAILSTOCK					
Quill dia.	mm	75	75	110	110
Quill stroke	mm	80	80	100	100
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.	87	130	100 130	130 150
Approx. machine size	m	3.3 x 1.95 x 1.65	3.3 x 1.95 x 1.7	3.8(3.9) x 2 x 2 4.4(4.5) x 1.7 x 2	4.7 x 2.3 x 2.2 5.2 x 2.3 x 2.2
Net weight	kg	4000	4200	5400 6000	8000 9100



Vturn-40/220 [Y] Vturn-40/325 [Y]	Vturn-45/220 Vturn-45/325	Vturn-46/165
780	780	820
520	520	520
620 [560]	620	730
(390 for CV) 620	620	520
2165	2165	1750
3425 91	3425 117.5	115
91	(160 for LSB)	115
310+30 125+315 107+165 280+90	310+30 125+315 -	365+25 137+303 186+234
2200 3250	2200 3250	1650
±80	-	-
20 / 20 20 / 12	20 / 20 20 / 12	12 / 15
7	-	-
4 / 7 (α30i_30Nm) [7 / 6 (α40i] 4 / 6 (α40_38Nm) [7 / 6 (α40i)]	4 / 7 (α30i_30Nm) 4 / 6 (α40i_38Nm)	3 / 4 (opt. 3 / 7)
4	-	-
0~1260	0~1260	0~1260
36 x P10 (X) 50 x P16 (Z) 36 x P10 (X) 63 x P16 (Z) 32 x P10 (Y)	36 x P10 (X) 50 x P16 (Z) 36 x P10 (X) 63 x P10 (Z)	36 x P6 (X) 50 x P10 (Z)
A2-11 (15")	A2-11 (15")	A2-11 (15")
2500	2000	1500
30 / 37 with gearbox (37/45 CV/YCM)	30 / 37 With gearbox	30 / 37 With gearbox
160	190 (220 for LSB)	180
105	135 (160 for LSB)	123
10 (opt. 12)	(2 () (2)	10
(12 for CV/YCM) 6	10 (opt. 12)	(12 for CV)
(12 for YCM)	-	6
32	32	32
250	250	320
50 (VDI-50)	50	60 (VDI-50)
1	1	1
3000	-	3000
7.0	-	7.0
450	450	150
150	150	150
150	150	150
MT#5 (live)	MT#5 (live)	MT#5 (live)
0i-T	0i-T	0i-T
450	450	250
700 7.1 x 2.7 x 2.2 [2.9]	700 7.1 x 2.7 x 2.2	
8.5 x 2.7 x 2.2 [2.9] 15000 [17000]	8.5 x 2.7 x 2.2 15580	6.2 x 2.5 x 2.5
17000 [17000]	17580	12800

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 0i-TD (or 0i-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
- · 12" chuck/3000rpm for Vturn-26(HD) · Bigger chuck on Vturn-36 / 40 / 45 / 46
- · High/low chucking pressure
- · Large spindle bore for Vturn-36 / 45

Machine Color Options

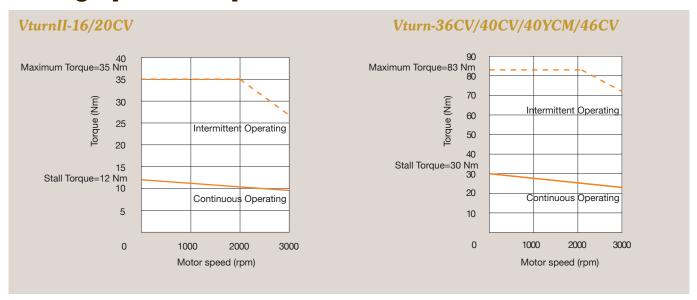
RAL 2008 (Victor's orange)



RAL 7024 (Graphite grey)



Milling Spindle Output



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	20 mm	25 mm	25 mm	32 mm	32 mm	
Maximum boring bar dia.	32 mm	32 mm	40 mm	50 mm	50 mm	60 mm	
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	-	-	-	-	-	-	For direct mounting on turret
32 mm	6	6	-	-	-	-	O.D & Facing tool Taper slice Mounting block
40 mm	-	-	4	5	-	-	9
50 mm	-	-	-	1	5	-	Face & O.D cutting tool holder
60 mm	-	-	-	-	-	5	13.2
Boring bar sleeve							I.D & Facing tool Face & O.D cutting tool holder Clamp block Coolant bl
8 mm	1	1	-	1	-	-	Cutting tool holder
10 mm	2	2	2	2	1	-	"U" Drill Socket
12 mm	2	2	2	2	1	-	"U" Drill
16 mm	2	2	2	2	2	-	"U" Drill Boring bar sleeve holder
20 mm	2	2	2	2	2	2	Large dia.boring bar
25 mm	2	2	2	2	2	2	CO THE COUNTY
32 mm	-	-	2	2	2	2	Small dia.boring bar Boring bar sleeve
40 mm	-	-	-	-	2	2	Turret disc
50 mm	-	-	-	-	-	2	Drill socket(MT#) Boring bar/drill
Drill socket							Drill holder
MT1	Opt.	Opt.	1	-	-	-	
MT2	1	1	1	Opt.	-	-	I.D & Facing tool
MT3	Opt.	Opt.	1	1	Opt.	-	G - 8 -
MT4	-	-	_	Opt.	1	1	Extended tool holder sleeve (available with VT-46 only)
U drill holder							(available with v1-46 only)
32 mm	1	1	-	-	-	-	
40 mm	-	-	1	1	-	-	
U drill socket							
20 mm	1	1	Opt.	Opt.	-	-	
25 mm							
	1	1	1	1	1	-	
32 mm	1 -	1 -	1 -	1	1	2	

 ^{**}Tooling accessories are subject to change without notice.

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



1st Spindle Orientation
1st Spindle Output Switching Function
M Code Function

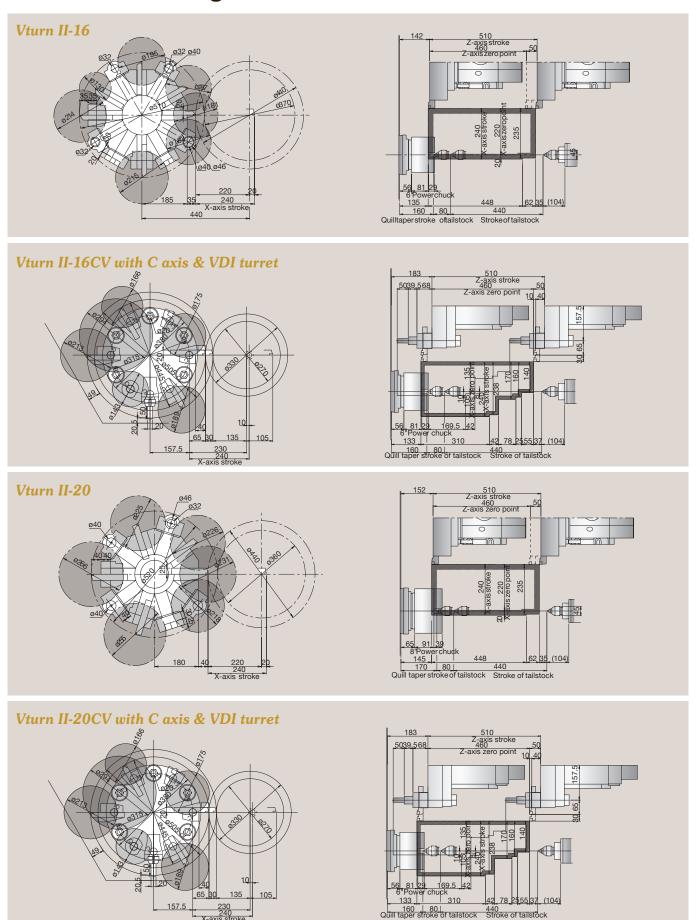


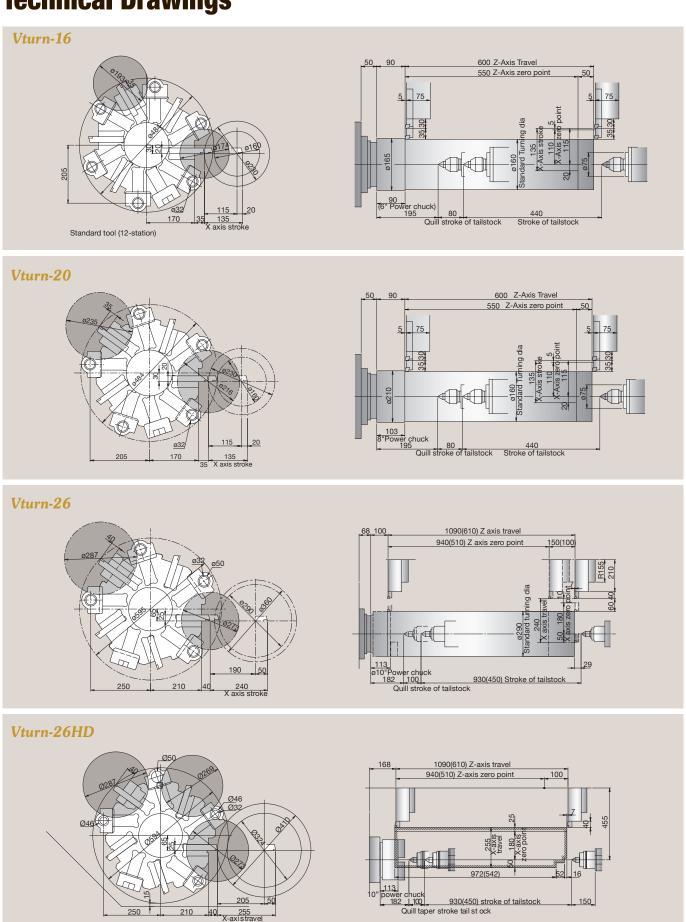
N.A.

Std.

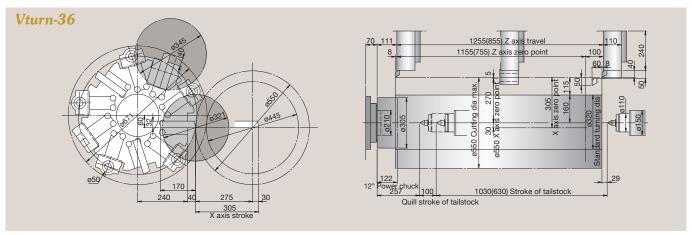
	SPECIFICATION lied Axes:	DESCRIPTION			VICTO
	Controlled Axes	2 Axes (X, Z) Position/Linear interpolation/Circular	10.	S Code Function T Code Function	S5 digit T2 digit
	Simultaneous Controlled Axes	interpolation (2/2/2)	12.	Rigid Tapping (Spindle)	Std.
	Least Input Increment Least Input Increment 1/10	0.001mm / 0.0001 inch / 0.001 deg. 0.0001mm / 0.00001 inch / 0.0001 deg.		nction & Tool Compensation:	
	Max, command value	± 99999.999mm(± 9999.9999in)	1.	Tool Function	T7+1/T6+2digits
	Fine Acceleration & Deceleration Control	Std.	2.	Tool Offset Pairs	±6-digit 64 pairs
	HRV Control Inch / Metric Conversion	Std. Std.(G20/G21)	3.	Tool Nose Radius Compensation	Std. (G40/G41/G42) Std.
	Interlock	All Axes / Each Axis / Cutting Block Start	4. 5.	Tool Geometry/wear Compensation Number of Tool Offsets (in total)	64 sets
	Machine Lock	All Axes / Each Axis	6.	Automatic Tool Offset	Std.
_	Emergency Stop	Std.	7.	Direct Input of Tool Offset Value Measured B	Std.
	Over-travel Stored Stroke Check 1	Std.	Accura	cy Compensation:	
	Mirror Image	Each Axis	1.	Backlash Compensation	Rapid Traverse / Cutti
	Chamfering on/off	Std.	2.	Stored Pitch Error Compensation	Std.
_	Follow-up	Std.	Edit Op	eration:	
	Unexpected disturbance torque detection function Position switch (with Victor's own PLC)	Std. (to be used to tool load monitoring) Std. (to be used for security)	1.	Part Program Storage Length (in total)	1280m/512kB (0i-F/3
rat	tion:	ota. (to be about or becauty)	2.	Number of Registerable programs (in total) Part Program Editing	400 (0i-F), 400 (32iB). Std.
	Automatic Operation	Std.	4.	Program Protect	Std.
	MDI Operation	MDI B	5.	Background Editing	Std.
	DNC Operation	Reader / Puncher Interface is Required	6.	Memory card editing	Std.
	DNC Operation with Memory Card	PCMCIA Card Attachment is Required	Setting	and Display:	
	Program Number Search	Std.	1.	Status Display	Std.
	Sequence Number Search Sequence number comparison and stop	Std.	2.	Clock Function	Std.
	Buffer Register	Std.	3.	Current Position Display Program Display	Program name 31 cha
	Dry Run	Std.	5.	Parameter Setting and Display	Std.
	Single Block	Std.	6.	Self Diagnosis Function	Std.
	JOG Feed Manual Reference Position Return	Std.	7.	Alarm Display Alarm History Display	Std. 25
	Manual Handle Feed	1 Unit / Each Path	9.	Operation History Display	Std.
	Manual Handle Feed Rate	X1, X10, X100	10.	Help Function	Std.
rpe	olation:		11.	Run Hour and Parts Count Display	Std.
	Positioning	G00	12.	Actual Cutting Feedrate Display	Std.
	Threading synchronous cutting	Std.	13.	Display Spindle Speed and T Code At All Screens Dynamic Graphic Display	Std.
_	Multiple threading	Std.	15.	Servo Setting Screen	Std.
1	Threading retract Continuous threading	Std. Std. (G76)	16.	Display of Hardware and Software Configuration	Std.
	Variable threading	Std. (G76) Std. (G34)	17.	Multi-Language Display	Std.
	Linear Interpolation	G01	18.	Data Protection Key	Std.
	Circular Interpolation	G02, G03 (multi-quadrant is possible).	19.	Erase CRT Screen Display Spindle Setting Screen	Std.
	Dwell	G04 G31	21.	Color LCD / MDI	8.4" (0i), 10.4" (0i-F*1
	Skip Function Reference Position Return	G28	Data In	put / Output:	
	Reference Position Return Check	G27	1.	Reader / Puncher Interface	RS-232 interface
	2 ND Reference Position Return	Std.	2.	Memory Card Interface	Std.
ed:			3.	External Work piece number search	9999
	Rapid Traverse Rate	Std.	C Axis I	Function (used on CV/SCV/Y models):	
	Rapid Traverse Override Feed Per Minute	F0, 25%, 50%, 100% G98 (mm / min)	1.	Control Axes Expansion	Std.
	Feed Per Revolution	G99 (mm/rev)	3.	Simultaneously Controlled Axes Expansion	Std.
	Tangential Speed Constant Control	Std.	4.	Coordinate System Rotation Rotary Axis Designation	Std.
	Cutting Feed rate Clamp	Std.	5.	Rotary Axis Roll-over	Std.
	Automatic Acceleration / Deceleration	Rapid traverse: linear; Cutting feed: exponential	6.	Axis Control by PMC	Std.
	Linear accel/deceleration after cutting feed interpolation Feed rate Override	Std. 0~150%	7.	Control Axis Detach (for Cf axis)	Std. (used on Vturn or
	Jog Override	0~100%	9.	Polar Coordinate Interpolation Cylindrical Interpolation	Std. (G112/G113) Std. (G107)
	Feed Stop	Std.	10.	CS Contouring Control	Std.
gra	ım Input:		11.	Coordinate System Rotation	Std.
	EIA / ISO Automatic Recognition	Std.	12.	Rigid Tapping (C-axis) with Victor's own PMC	
					Std.
	Label Skip	Std.	OPTI	ONIO	Std.
	Parity Check	Std.	OPTI	ONS:	Std.
	Parity Check Control In / Out	Std. Std.	• • • • • • • • • • • • • • • • • • • •	ONS:	Std.
	Parity Check	Std. Std. 1 ±8-Digit	• • • • • • • • • • • • • • • • • • • •		
	Parity Check Control In / Out Optional Block Skip Max. Programmable Dimension Program Number	Std. Std. 1 ±8-Digit O8-Digit	1. 2.	ardware included: Conversational programming (Manual guide i)*1 Conversational programming (Cap i)	
	Parity Check Control In / Out Optional Block Skip Max. Programmable Dimension Program Number Sequence Number	Std. Std. 1 ±8-Digit O8-Digit N5-Digit	1. 2. 3.	ardware included: Conversational programming (Manual guide i)** Conversational programming (Cap i) Date server (with PCB and ATA card)	Oi-F
	Parity Check Control In / Out Optional Block Skip Max. Programmable Dimension Program Number Sequence Number Absolute / Incremental Programming	Std. Std. 1 1 ±8-Digit O8-Digit N5-Digit G90/G91	With ha 1. 2. 3. 4.	ardware included: Conversational programming (Manual guide i)*1 Conversational programming (Cap i) Date server (with PCB and ATA card) Embedded Ethernet (10Mbps)	Oi-F N.A.
	Parity Check Control In / Out Optional Block Skip Max. Programmable Dimension Program Number Sequence Number Absolute / Incremental Programming Decimal Point Programming / Pocket Calculator Type Decimal Point Programming	Std. Std. 1 1 ±8-Digit O8-Digit N5-Digit G90/G91 Std.	1. 2. 3. 4. 5.	ardware Included: Conversational programming (Manual guide i)** Conversational programming (Cap i) Date server (with PCB and ATA card) Embedded Ethernet (10Mbps) Fast Ethernet (100Mbps, available in Data server)	OI-F N.A. Std.
	Parity Check Control In / Out Optional Block Skip Max. Programmable Dimension Program Number Sequence Number Absolute / Incremental Programming Decimal Point Programming / Pocket Calculator Type Decimal Point Programming Input Unit 10 Time Multiply	Std. Std. 1 ±8-Digit O8-Digit N5-Digit G90/G91 Std. St	With ha 1. 2. 3. 4.	ardware included: Conversational programming (Manual guide i)*1 Conversational programming (Cap i) Date server (with PCB and ATA card) Embedded Ethernet (10Mbps)	Oi-F N.A.
	Parity Check Control In / Out Optional Block Skip Max. Programmable Dimension Program Number Sequence Number Absolute / Incremental Programming Decimal Point Programming / Pocket Calculator Type Decimal Point Programming Input Unit 10 Time Multiply Diameter/radius programming	Std. Std. 1 1 ±8-Digit O8-Digit N5-Digit G90/G91 Std. Std.	With had 1. 2. 3. 4. 5. 6. 7. 8.	ardware included: Conversational programming (Manual guide i)** Conversational programming (Cap i) Date server (with PCB and ATA card) Embedded Ethernet (10Mbps) Fast Ethernet (100Mbps, available in Data server) Tool (ife management Part Program Storage Length 1280mm (in total) Part Program Storage Length 2560mm (in total)	01-F N.A. Std. Std. N.A.
	Parity Check Control In / Out Optional Block Skip Max. Programmable Dimension Program Number Sequence Number Absolute / Incremental Programming Decimal Point Programming / Pocket Calculator Type Decimal Point Programming Input Unit 10 Time Multiply	Std. Std. 1 ±8-Digit O8-Digit N5-Digit G90/G91 Std. St	1. 2. 3. 4. 5. 6. 7. 8. 9.	ardware included: Conversational programming (Manual guide i)** Conversational programming (Cap i) Date server (with PCB and ATA card) Embedded Ethernet (10Mbps) Fast Ethernet (10Mbps, available in Data server) Tool life management Part Program Storage Length 1280mm (in total) Part Program Storage Length 2560mm (in total) Quick program restart	0i-F N.A. Std. Std. N.A.
	Parity Check Control In / Out Optional Block Skip Max. Programmable Dimension Program Number Sequence Number Absolute / Incremental Programming Decimal Point Programming / Pocket Calculator Type Decimal Point Programming Input Unit 10 Time Multiply Diameter/radius programming Plane Selection Automatic Coordinate System Setting Work piece Coordinate System	Std. Std. Std. 1 ±8-Digit O8-Digit N5-Digit G90/G91 Std. Std. Std. Std. G17, G18, G19 Std. G52, G53, G54-G59	With ha 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	ardware included: Conversational programming (Manual guide i)** Conversational programming (Cap i) Date server (with PCB and ATA card) Embedded Ethernet (10Mbps) Fast Ethernet (100Mbps, available in Data server) Tool life management Part Program Storage Length 1280mm (in total) Part Program Storage Length 2560mm (in total) Quick program restart Optional block skip 2-9 blocks	01-F N.A. Std. Std. Std. N.A.
	Parity Check Control In / Out Optional Block Skip Max. Programmable Dimension Program Number Sequence Number Absolute / Incremental Programming Decimal Point Programming / Pocket Calculator Type Decimal Point Programming Input Unit 10 Time Multiply Diameter/radius programming Plane Selection Automatic Coordinate System Setting Work piece Coordinate System Direct Dawing Dimension Programming	Std. Std. 1 1 ±8-Digit 08-Digit N5-Digit G90/G91 Std. Std. Std. Std. G17, G18, G19 Std. G52, G53, G54-G59 Std.	1. 2. 3. 4. 5. 6. 7. 8. 9.	ardware included: Conversational programming (Manual guide i)** Conversational programming (Cap i) Date server (with PCB and ATA card) Embedded Ethernet (10Mbps) Fast Ethernet (10Mbps, available in Data server) Tool life management Part Program Storage Length 1280mm (in total) Part Program Storage Length 2560mm (in total) Quick program restart	0i-F N.A. Std. Std. N.A.
	Parity Check Control In / Out Optional Block Skip Max. Programmable Dimension Program Number Sequence Number Absolute / Incremental Programming Decimal Point Programming / Pocket Calculator Type Decimal Point Programming Input Unit 10 Time Multiply Diameter/radius programming Plane Selection Automatic Coordinate System Direct Drawing Dimension Programming G code System A	Std. Std. Std. 1 1 ±8-Digit 08-Digit N5-Digit G90/G91 Std. Std. Std. Std. Std. Std. Std. Std.	With h: 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.	ardware included: Conversational programming (Manual guide i)** Conversational programming (Cap i) Date server (with PCB and ATA card) Embedded Ethernet (10Mbps) Fast Ethernet (100Mbps) Fast Ethernet (100Mbps, available in Data server) Tool life management Part Program Storage Length 1280mm (in total) Part Program Storage Length 2560mm (in total) Quick program restart Optional block skip 2-9 blocks Polygon turning (by C-axis) with Victor's own PLC Manual handle feed 2 (2** MPCG) Reader/Puncher interface 2 (2** RS232 interface)	Oi-F N.A. Std. Std. Std. N.A. N.A.
	Parity Check Control In / Out Optional Block Skip Max. Programmable Dimension Program Number Sequence Number Absolute / Incremental Programming Decimal Point Programming / Pocket Calculator Type Decimal Point Programming Input Unit 10 Time Multiply Diameter/radius programming Plane Selection Automatic Coordinate System Setting Work piece Coordinate System Direct Dawing Dimension Programming	Std. Std. 1 1 ±8-Digit 08-Digit N5-Digit G90/G91 Std. Std. Std. Std. G17, G18, G19 Std. G52, G53, G54-G59 Std.	With h: 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.	ardware included: Conversational programming (Manual guide i)** Conversational programming (Cap i) Date server (with PCB and ATA card) Embedded Ethernet (10Mbps) Fast Ethernet (100Mbps, available in Data server) Tool life management Part Program Storage Length 1280mm (in total) Part Program Storage Length 2560mm (in total) Quick program restart Optional block skip 2-9 blocks Polygon turning (by C-axis) with Victor's own PLC Manual handle feed 2 (2** MPCG) Reader/Puncher interface 2 (2** RS232 interface) External data input	01-F N.A. Std. Std. N.A. N.A. N.A. N.A.
	Parity Check Control In / Out Optional Block Skip Max. Programmable Dimension Program Number Sequence Number Absolute / Incremental Programming Decimal Point Programming / Pocket Calculator Type Decimal Point Programming Input Unit 10 Time Multiply Diameter/radius programming Plane Selection Automatic Coordinate System Setting Work piece Coordinate System Setting Direct Drawing Dimension Programming G code System A Chamfering/corner R	Std. Std. Std. 1 1 ±8-Digit 08-Digit N5-Digit G90/G91 Std. Std. Std. Std. Std. Std. Std. Std.	With h: 1. 2. 3. 4, 5. 6. 7. 8. 9. 10. 11. 12. 13. 14.	ardware included: Conversational programming (Manual guide i)** Conversational programming (Cap i) Date server (with PCB and ATA card) Embedded Ethernet (10Mbps) Fast Ethernet (100Mbps, available in Data server) Tool life management Part Program Storage Length 1280mm (in total) Part Program Storage Length 2560mm (in total) Quick program restart Optional block skip 2-9 blocks Polygon turning (by C-axis) with Victor's own PLC Manual handle feed 2 (2** MPG) Reader/Puncher interface 2 (2** RS232 interface) External data input	0i-F N.A. Std. Std. N.A. N.A. N.A. N.A. N.A. N.A. C. C. C. C. C. C. C.
	Parity Check Control In / Out Optional Block Skip Max. Programmable Dimension Program Number Sequence Number Absolute / Incremental Programming Decimal Point Programming / Pocket Calculator Type Decimal Point Programming Input Unit 10 Time Multiply Diameter/radius programming Plane Selection Automatic Coordinate System Setting Work piece Coordinate System Direct Drawing Dimension Programming G code System A Chamfering/corner R Programmable Data Input Sub Program Call Custom Macro B	Std. Std. 1 1 ±8-Digit 08-Digit N5-Digit G90/G91 Std. Std. Std. Std. Std. Std. Std. Std.	With had 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15.	ardware included: Conversational programming (Manual guide i)** Conversational programming (Cap i) Date server (with PCB and ATA card) Embedded Ethernet (10Mbps) Fast Ethernet (10Mbps), available in Data server) Tool life management Part Program Storage Length 1280mm (in total) Part Program Storage Length 2560mm (in total) Quick program restart Optional block skip 2-9 blocks Polygon turning (by C-axis) with Victor's own PLC Manual handle feed 2 (2** MPG) Reader/Puncher interface 2 (2** RS232 interface) External data input Profibus USB port	01-F N.A. Std. Std. N.A. N.A. N.A. N.A.
	Parity Check Control In / Out Optional Block Skip Max. Programmable Dimension Program Number Sequence Number Absolute / Incremental Programming Decimal Point Programming / Pocket Calculator Type Decimal Point Programming Input Unit 10 Time Multiply Diameter/radius programming Plane Selection Automatic Coordinate System Setting Work piece Coordinate System Direct Drawing Dimension Programming G code System A Chamfering/corner R Programmable Data Input Sub Program Call Custom Macro B Canned Cycles	Std. Std. Std. 1 1 ±8-Digit 08-Digit N5-Digit G90/G91 Std. Std. Std. Std. Std. G17, G18, G19 Std. Std. G52, G53, G54-G59 Std. Std. Std. Std. Std. Std. Std. Std.	With had 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15.	ardware included: Conversational programming (Manual guide i)** Conversational programming (Cap i) Date server (with PCB and ATA card) Embedded Ethernet (10Mbps) Fast Ethernet (10Mbps), available in Data server) Tool life management Part Program Storage Length 1280mm (in total) Part Program Storage Length 2560mm (in total) Quick program restart Optional block skip 2-9 blocks Polygon turning (by C-axis) with Victor's own PLC Manual handle feed 2 (2** MPC) Reader/Puncher interface 2 (2** RS232 interface) External data input Profibus USB port tt hardware included:	Oi-F N.A. Std. Std. N.A. N.A. N.A. N.A. Std. Std.
	Parity Check Control In / Out Optional Block Skip Max. Programmable Dimension Program Number Sequence Number Absolute / Incremental Programming Decimal Point Programming / Pocket Calculator Type Decimal Point Programming Input Unit 10 Time Multiply Diameter/radius programming Plane Selection Automatic Coordinate System Setting Work piece Coordinate System Direct Drawing Dimension Programming G code System A Chamfering/corner R Programmable Data Input Sub Program Call Custom Macro B Canned Cycles Multiple Repetitive Cycle	Std. Std. Std. 1 1 ±8-Digit 08-Digit N5-Digit G50/G91 Std. Std. Std. Std. Std. Std. Std. Std.	With h: 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. Without 17.	ardware included: Conversational programming (Manual guide i)** Conversational programming (Cap i) Date server (with PCB and ATA card) Embedded Ethernet (10Mbps) Fast Ethernet (10Mbps, available in Data server) Tool life management Part Program Storage Length 1280mm (in total) Part Program Storage Length 1280mm (in total) Quick program restart Optional block skip 2-9 blocks Polygon turning (by C-axis) with Victor's own PLC Manual handle feed 2 (2** MPC) Reader/Puncher interface 2 (2** RS232 interface) External data input Profibus USB port It hardware included: Program number O8-digit	OI-F N.A. Std. Std. N.A. N.A. N.A. Std. Std. Std. Std. Std. Std. Std. Std
	Parity Check Control In / Out Optional Block Skip Max. Programmable Dimension Program Number Sequence Number Absolute / Incremental Programming Decimal Point Programming / Pocket Calculator Type Decimal Point Programming Input Unit 10 Time Multiply Diameter/radius programming Plane Selection Automatic Coordinate System Setting Work piece Coordinate System Direct Drawing Dimension Programming G code System A Chamfering/corner R Programmable Data Input Sub Program Call Custom Macro B Canned Cycles	Std. Std. Std. 1 1 ±8-Digit 08-Digit N5-Digit G90/G91 Std. Std. Std. Std. Std. G17, G18, G19 Std. Std. G52, G53, G54-G59 Std. Std. Std. Std. Std. Std. Std. Std.	With h: 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. Withou	ardware included: Conversational programming (Manual guide i)** Conversational programming (Cap i) Date server (with PCB and ATA card) Embedded Ethernet (10Mbps) Fast Ethernet (10Mbps, available in Data server) Tool life management Part Program Storage Length 1280mm (in total) Part Program Storage Length 1280mm (in total) Quick program restart Optional block skip 2-9 blocks Polygon turning (by C-axis) with Victor's own PLC Manual handle feed 2 (2** MPG) Reader/Puncher interface 2 (2** RS232 interface) External data input Profibus USB port It hardware Included: Program number O8-digit Cricular thread cutting (G35)	OI-F N.A. Std. Std. N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.
	Parity Check Control In / Out Optional Block Skip Max. Programmable Dimension Program Number Sequence Number Absolute / Incremental Programming Decimal Point Programming / Pocket Calculator Type Decimal Point Programming Input Unit 10 Time Multiply Diameter/radius programming Plane Selection Automatic Coordinate System Setting Work piece Coordinate System Setting Work piece Coordinate System Direct Drawing Dimension Programming G code System A Chamfering/corner R Programmable Data Input Sub Program Call Custom Macro B Canned Cycles Multiple Repetitive Cycle Multiple Repetitive Cycle Multiple Repetitive Cycle 2 (Pocket profile) Canned Cycles for Drilling Program Format	Std. Std. Std. 1 1 ±8-Digit O8-Digit N5-Digit G90/G91 Std. Std. Std. Std. Std. Std. Std. G17, G18, G19 Std. Std. Std. G52, G53, G54-G59 Std. Std. Std. Std. Std. Std. Std. Std.	With h: 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. Without 17.	ardware included: Conversational programming (Manual guide i)** Conversational programming (Cap i) Date server (with PCB and ATA card) Embedded Ethernet (10Mbps) Fast Ethernet (10Mbps, available in Data server) Tool life management Part Program Storage Length 1280mm (in total) Part Program Storage Length 1280mm (in total) Quick program restart Optional block skip 2-9 blocks Polygon turning (by C-axis) with Victor's own PLC Manual handle feed 2 (2** MPC) Reader/Puncher interface 2 (2** RS232 interface) External data input Profibus USB port It hardware included: Program number O8-digit	OI-F N.A. Std. Std. N.A. N.A. N.A. Std. Std. Std. Std. Std. Std. Std. Std
	Parity Check Control In / Out Optional Block Skip Max. Programmable Dimension Program Number Sequence Number Absolute / Incremental Programming Decimal Point Programming / Pocket Calculator Type Decimal Point Programming Input Unit 10 Time Multiply Diameter/radius programming Plane Selection Automatic Coordinate System Setting Work piece Coordinate System Setting Work piece Coordinate System Direct Drawing Dimension Programming G code System A Chamfering/corner R Programmable Data Input Sub Program Call Custom Macro B Canned Cycles Multiple Repetitive Cycle Multiple Repetitive Cycle Multiple Repetitive Cycle 2 (Pocket profile) Canned Cycle for Drilling	Std. Std. Std. 1 1 ±8-Digit 08-Digit N5-Digit G90/G91 Std. Std. Std. Std. Std. G17, G18, G19 Std. G52, G53, G54-G59 Std. Std. Std. Std. Std. Std. Std. Std.	With h: 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. Without 17. 18.	ardware included: Conversational programming (Manual guide i)** Conversational programming (Cap i) Date server (with PCB and ATA card) Embedded Ethernet (10Mbps) Fast Ethernet (10Mbps, available in Data server) Tool life management Part Program Storage Length 1280mm (in total) Part Program Storage Length 1280mm (in total) Part Program Storage Length 2660mm (in total) Quick program restart Optional block skip 2-9 blocks Polygon turning (by C-axis) with Victor's own PLC Manual handle feed 2 (2** MPG) Reader/Puncher interface 2 (2** RS232 interface) External data input Profibus USB port It hardware included: Program number O8-digit Circular thread cutting (G35) Circular interpolation by 9-digit R designation Tool offset value 7 digits Number of registered program 1000 (in total)	Oi-F N.A. Std. Std. N.A. N.A. N.A. N.A. N.A. Std. Std. N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.
illia	Parity Check Control In / Out Optional Block Skip Max. Programmable Dimension Program Number Sequence Number Absolute / Incremental Programming Decimal Point Programming / Pocket Calculator Type Decimal Point Programming Input Unit 10 Time Multiply Diameter/radius programming Plane Selection Automatic Coordinate System Setting Work piece Coordinate System Setting Work piece Coordinate System Direct Drawing Dimension Programming G code System A Chamfering/corner R Programmable Data Input Sub Program Call Custom Macro B Canned Cycles Multiple Repetitive Cycle Multiple Repetitive Cycle Multiple Repetitive Cycle 2 (Pocket profile) Canned Cycles for Drilling Program Format	Std. Std. Std. 1 1 ±8-Digit O8-Digit N5-Digit G90/G91 Std. Std. Std. Std. Std. Std. Std. G17, G18, G19 Std. Std. Std. G52, G53, G54-G59 Std. Std. Std. Std. Std. Std. Std. Std.	With h: 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. Without 17. 18.	ardware included: Conversational programming (Manual guide i)** Conversational programming (Cap i) Date server (with PCB and ATA card) Embedded Ethernet (100Mbps) Fast Ethernet (100Mbps, available in Data server) Tool iffe management Part Program Storage Length 1280mm (in total) Part Program Storage Length 1280mm (in total) Quick program restart Optional block skip 2-9 blocks Polygon turning (by C-axis) with Victor's own PLC Manual handle feed 2 (2** MPG) Reader/Puncher interface 2 (2** RS232 interface) External data input Profibus USB port It hardware included: Program number O8-digit Circular interpolation by 9-digit R designation Tool offset value 7 digits Number of registered program 1000 (in total) G code system B/C	Oi-F N.A. Std. Std. N.A. N.A. N.A. N.A. N.A. Std. N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.
illia	Parity Check Control In / Out Coptional Block Skip Max. Programmable Dimension Program Number Sequence Number Absolute / Incremental Programming Decimal Point Programming / Pocket Calculator Type Decimal Point Programming Input Unit 10 Time Multiply Diameter/radius programming Plane Selection Automatic Coordinate System Settling Work piece Coordinate System Direct Drawing Dimension Programming G code System A Chamfering/corner R Programmable Data Input Sub Program Call Custom Macro B Canned Cycles Multiple Repetitive Cycle Multiple Repetitive Cycle 2 Multiple Repetitive Cycle 2 Canned Cycle for Drilling Program Stop / Program End Inpy Spindle Speed Function: Auxiliary Function Lock	Std. Std. 1 1 ±8-Digit 08-Digit N5-Digit G90/G91 Std. Std. Std. Std. Std. G17, G18, G19 Std. G52, G53, G54-G59 Std. Std. Std. Std. Std. Std. Std. Std.	With h: 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. Without 17. 18. 19. 20. 21. 22.	ardware included: Conversational programming (Manual guide i)** Conversational programming (Cap i) Date server (with PCB and ATA card) Embedded Ethernet (10Mbps) Fast Ethernet (10Mbps) Fast Ethernet (10Mbps, available in Data server) Tool life management Part Program Storage Length 1280mm (in total) Part Program Storage Length 1280mm (in total) Quick program restart Optional block skip 2-9 blocks Polygon turning (by C-axis) with Victor's own PLC Manual handle feed 2 (2** MPC) Reader/Puncher interface 2 (2** RS232 interface) External data input Profibus USB port It hardware included: Program number O8-digit Circular interpolation by 9-digit R designation Tool offset value 7 digits Number of registered program 1000 (in total) G code system B/C Type format for FS 15	Oi-F N.A. Std. Std. N.A. N.A. N.A. N.A. Std. N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.
ilia	Parity Check Control In / Out Optional Block Skip Max. Programmable Dimension Program Number Sequence Number Absolute / Incremental Programming Decimal Point Programming / Pocket Calculator Type Decimal Point Programming Input Unit 10 Time Multiply Diameter/radius programming Plane Selection Automatic Coordinate System Setting Work piece Coordinate System Setting Work piece Coordinate System Direct Drawing Dimension Programming G code System A Chamfering/corner R Programmable Data Input Sub Program Call Custom Macro B Canned Cycles Multiple Repetitive Cycle Multiple Repetitive Cycle 2 (Pocket profile) Canned Cycle for Drilling Program Format Program Stop / Program End Aury Spindle Speed Function: Auxiliary Function Look High Speed M / S / T Interface	Std. Std. Std. 1 1 ±8-Digit 08-Digit N5-Digit G90/G91 Std. Std. Std. Std. Std. G17, G18, G19 Std. Std. Std. G52, G53, G54-G59 Std. Std. Std. Std. Std. Std. Std. Std.	With h: 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. Without 17. 18.	ardware included: Conversational programming (Manual guide i)** Conversational programming (Cap i) Date server (with PCB and ATA card) Embedded Ethernet (100Mbps) Fast Ethernet (100Mbps, available in Data server) Tool iffe management Part Program Storage Length 1280mm (in total) Part Program Storage Length 1280mm (in total) Quick program restart Optional block skip 2-9 blocks Polygon turning (by C-axis) with Victor's own PLC Manual handle feed 2 (2** MPG) Reader/Puncher interface 2 (2** RS232 interface) External data input Profibus USB port It hardware included: Program number O8-digit Circular interpolation by 9-digit R designation Tool offset value 7 digits Number of registered program 1000 (in total) G code system B/C	Oi-F N.A. Std. Std. N.A. N.A. N.A. N.A. N.A. Std. N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.
illia	Parity Check Control In / Out Optional Block Skip Max. Programmable Dimension Program Number Sequence Number Absolute / Incremental Programming Decimal Point Programming / Pocket Catculator Type Decimal Point Programming Input Unit 10 Time Multiply Diameter/radius programming Plane Selection Automatic Coordinate System Setting Work piece Coordinate System Direct Drawing Dimension Programming G code System A Chamfering/corner R Programmable Data Input Sub Program Call Custom Macro B Canned Cycles Multiple Repetitive Cycle 2 (Pocket profile) Canned Cycle for Drilling Program Stop / Program End Program Stop / Program End Program Sped Function: Auxiliary Function Lock High Speed Function	Std. Std. Std. 1 1	With h: 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. Without 17. 18. 19. 20. 21. 22. 23. 24.	ardware included: Conversational programming (Manual guide i)** Conversational programming (Cap i) Date server (with PCB and ATA card) Embedded Ethernet (10Mbps) Fast Ethernet (10Mbps, available in Data server) Tool life management Part Program Storage Length 1280mm (in total) Part Program Storage Length 1280mm (in total) Quick program restart Optional block skip 2-9 blocks Polygon turning (by C-axis) with Victor's own PLC Manual handle feed 2 (2** MPCG) Reader/Puncher interface 2 (2** RS232 interface) External data input Profibus USB port It hardware included: Program number O8-digit Circular thread outting (G35) Circular interpolation by 9-digit R designation Tool offset value 7 digits Number of registered program 1000 (in total) G code system B/C Type format for FS 15 Play back	Oi-F N.A. Std. Std. N.A. N.A. N.A. N.A. Std. Std. N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.
illia	Parity Check Control In / Out Optional Block Skip Max. Programmable Dimension Program Number Sequence Number Absolute / Incremental Programming Decimal Point Programming / Pocket Calculator Type Decimal Point Programming Input Unit 10 Time Multiply Diameter/radius programming Plane Selection Automatic Coordinate System Setting Work piece Coordinate System Setting Work piece Coordinate System Direct Drawing Dimension Programming G code System A Chamfering/corner R Programmable Data Input Sub Program Call Custom Macro B Canned Cycles Multiple Repetitive Cycle Multiple Repetitive Cycle 2 (Pocket profile) Canned Cycle for Drilling Program Format Program Stop / Program End Aury Spindle Speed Function: Auxiliary Function Look High Speed M / S / T Interface	Std. Std. Std. 1 1 ±8-Digit 08-Digit N5-Digit G90/G91 Std. Std. Std. Std. Std. G17, G18, G19 Std. Std. Std. G52, G53, G54-G59 Std. Std. Std. Std. Std. Std. Std. Std.	With h: 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. Without 17. 18. 19. 20. 21. 22. 23. 24.	ardware included: Conversational programming (Manual guide i)** Conversational programming (Cap i) Date server (with PCB and ATA card) Embedded Ethernet (100Mbps) Fast Ethernet (100Mbps, available in Data server) Tool ife management Part Program Storage Length 1280mm (in total) Part Program Storage Length 1280mm (in total) Quick program restart Optional block skip 2-9 blocks Polygon turning (by C-axis) with Victor's own PLC Manual handle feed 2 (2** MPG) Reader/Puncher interface 2 (2** MS232 interface) External data input Profibus USB port It hardware included: Program number O8-digit Circular interpolation by 9-digit R designation Tool offset value 7 digits Number of registered program 1000 (in total) G code system B/C Type format for FS 15 Play back Three-dimensional coordinate conversion	Oi-F N.A. Std. Std. N.A. N.A. N.A. N.A. Std. N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.

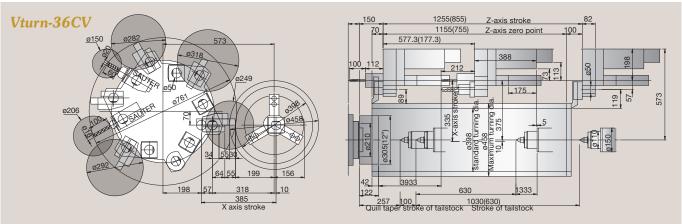
^{*1.} Manual Guide i is available on 0i-F when the monitor is upgraded to 10.4" LCD. *2. Included in Al NANO control

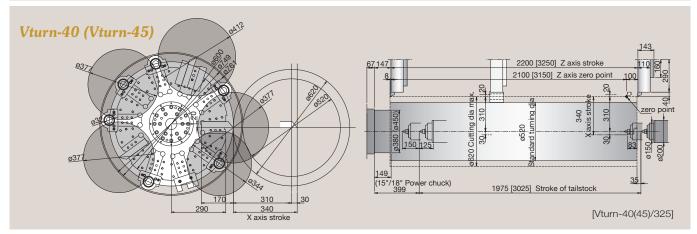


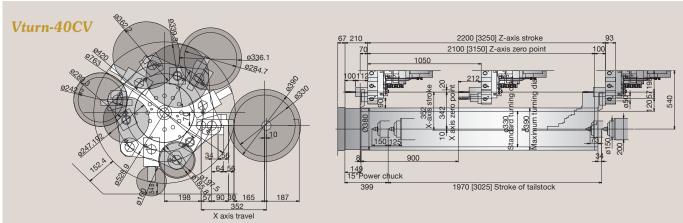


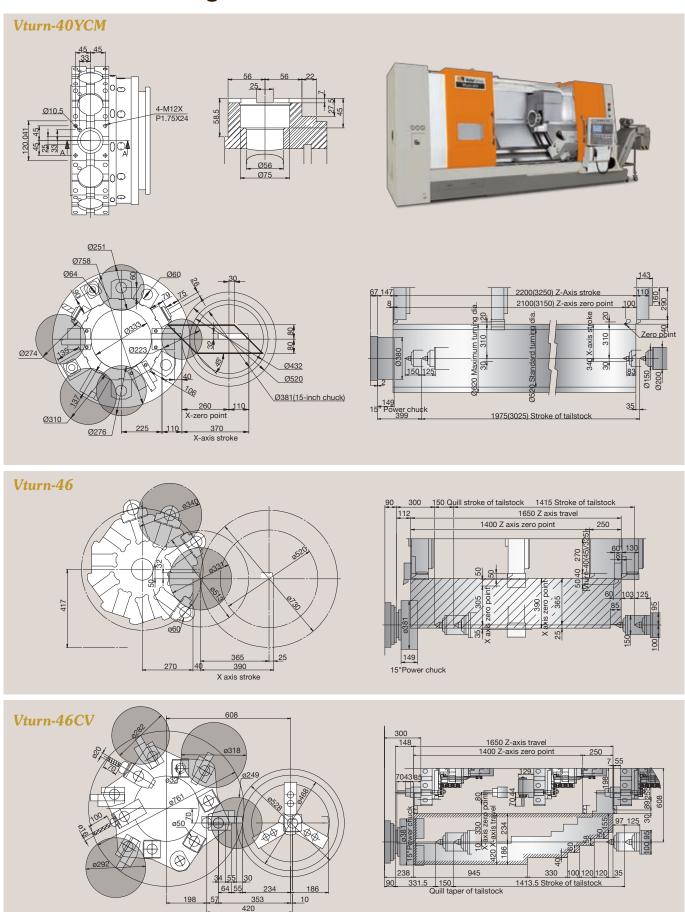




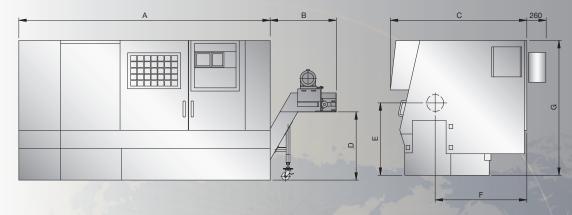








Machine Layout (excl. Transformer)



ITEM \ MOD EL	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
Α	2540	2300	3025 (3175) 3600 (3750)	3700 4140	5633 6956	5633 6956	5180
В	750	930 + 1300 move out	750	1070	1508	1508	1030
С	1500	1685	1745	1985	2446 [2658]	2446	2167
D (CE mark)	800 (563)	890 (750)	855 (678)	1100 (994)	1262 (914)	1264 (914)	1065 (899)
Е	900	956	960	1108	1201 [1342.5]	1201	1165
F	1050	1255	1175	1352	1453	1453	1364
G	1650	1700	1940	2205	2313 [2892]	2313	2365







Vturn-P16 with built-in robot

Vturn-A20Y with Y-axis BMT turret

Vturn-V560 vertical lathe

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





THE VICTOR-TAICHUNG COMPANIES

TAIWAN

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