

# VICTOR

**V**ersatile Range  
**I**nnovative Design  
**C**ompetitive Solutions  
**T**urnkey Systems  
**O**ptimum Support  
**R**eliability Guaranteed



Victor Taichung - an established ISO 9001 company.

# CNC Turning Lathes

## ● VturnII-16/20/23/26Y

### ● *Leading edge production technology*

- Faster rapid feeds of 20/24 m/min for X/Z-axis on the BOX SLIDEWAYS with high rigidity maintained.
- SERVO DRIVEN TURRET offers quick tool exchange to shorten the cycle time and improve the efficiency.
- C-axis headstock by DIRECT DRIVE SPINDLE (DDS or Motor-spindle) with dual winding reaches high clamping torque at low rpm and guarantees high indexing accuracy  $\pm 0.01^\circ$ .
- B-axis SUBSPINDLE (also DDS) collects part synchronously from main spindle assures collinear accuracy requirement.
- Y-axis milling turret with travel  $\pm 45$  mm (for VturnII-16/20Y) or  $\pm 55$  mm (for VturnII-23/26Y) extends machining operation.
- Dual directions (from the right or rear) of chip disposal facilitates flexible machine layout.

- Fanuc 31i-T control with Victor's own PLC enables the mirror cutting on the road side of wheels (OP-3) to offer a cost effective solution for wheel machining.
- Specific finger chuck with flexible and changeable jaws covers the cutting range on 17"~24" wheels.
- 300 liter large coolant tank reduces chip build-up inside machine.
- The upgraded 3-grooved labyrinth for spindle further prolongs spindle service life.
- User-friendly design with ready-to-fit interface for air & coolant guns and big handler for easier door-moving.

### ● *Cost-effective alloy wheel manufacturing*

### ● *OP-3 for 24" wheel machining*

## ● Vturn-36W





# Vcenter-205

## *Traveling column VMC with long fixed table for pendulum machining*

- C-framed traveling column with rapid feed 30/30/30 m/min reduces spindle idle time and features easy access to load/unload the components.
- Long fixed worktable assures the evenly distributed loading and features for uniform accuracy at full stroke of X-axis travel even when oversized parts of off-center parts are loaded.
- **Moving CRT** facilitates to operate the machine at each side easily.
- **Central partition guarding with offset design** enables the pendulum machining like APC (Auto Pallet Changer) on two different lengths of parts.
- **Bellows canvas** fully covers the open top of machine to avoid drenching the operator by the high pressure coolants.
- Spindle motor is directly coupled to the spindle (DCS) to avoid the vibration resulted from belts and enhance surface finish on components.
- Easy installation for the 4th axis rotary tables and/or hydraulic fixtures which cannot be activated for conventional VMC with 2 pallet APC.
- Rapid feed rate 80/80/80 m/min for X/Y/Z axes and Rapid feed acceleration 1G by **LINEAR MOTORS** feature high speed machining for high efficient manufacturing.
- Fanuc 18i-MB control with latest  $\Omega$ (nano) technology and HP  $\Omega$ CC (600 look-ahead blocks) upgrades the control performance and facilitate faster cutting feeds and more precise control.
- Built-in DDS 20000 rpm spindle with HSK-A63 tooling offers output power 18.5/22 kW for high speed machining.
- 630x630 mm CNC table, 60 tool magazine and spindle-through coolant meet industrialized standard for high productivity.

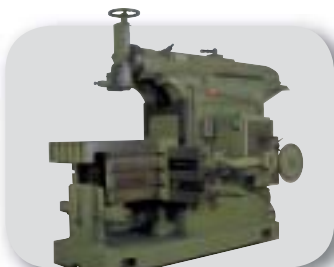
*High rapid federate 80/80/80 m/min  
by Linear Motors*

# Vcenter-H630Linear

## CNC Machining Centers



Founded in 1954



Released in 1955



Released in 1975



Released in 1976



R&D

*The innovative design of this competitive and versatile range of machines offers a reliable solution to our customers manufacturing requirements.*

*From the casting to the machining, from the design to the*



Foundry

### Horizontal Turning Lathes

Chuck	6"	8"	10"~12"	12"~15"	15"~24"
Linear guides (LM guides)	VTplus-15	VTplus-20 VTplus-20LSB			
Box Slideways (High rigidity)	Vturn-16	Vturn-20	Vturn-26 Vturn-26LSB	Vturn-36 Vturn-36LSB	Vturn-46
C-axis	Vturn-16CV	Vtrun-20CV	Vturn-26CV	Vturn-36CV	Vturn-46CV
Box Slideways (High rigidity and high efficiency)	VturnII-16	VturnII-20 VturnII-20LSB VturnII-23	VturnII-26 VturnII-26LSB		
C-axis	VturnII-16CV	VtrunII-20CV VturnII-23CV	VturnII-26CV		
Sub-spindle		VturnII-23B VturnII-23BCV	VturnII-26B VturnII-26BCV		
Y-axis	VturnII-16YCV	VturnII-20YCV VturnII-23YCV	VturnII-26YCV VturnII-26YBCV		



Machining

### Vertical Turning Lathes

Chuck	8"	10"	12"~18"
Linear guides	Vturn-iV200	Vturn-iV250	
Box Slideways			Vturn-V300
C-axis	Vturn-iV200CV	Vturn-iV250CV	Vturn-V300CV



CMM measurement



Spindle assembling



Lathe assembling



M/C assembling

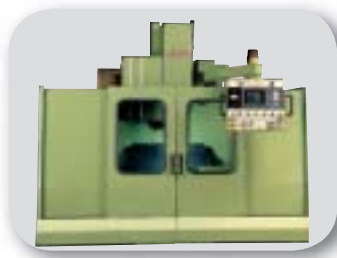
**www.Victor-cnc.com :**  
On-line sales and service supports







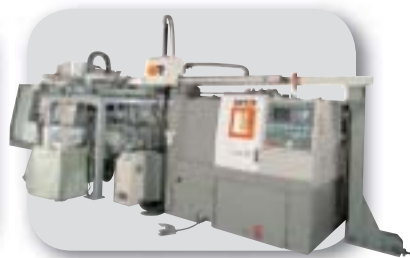
First CNC in 1979



First VMC in 1981



Released in 1989



First robot in 1993

*manufacture, from lathes through to machining centers, Victor-Taichung ensures the quality of its parts by manufacturing 65% of the finished product in-house, this, coupled with it's 8 overseas subsidiaries and an extensive worldwide dealership offer a large affordable product range.*



National Quality Award 1994

### Vertical Machining Centers

X-axis travel	550	700	850	1020	1100	1300	1450	2050
3-axis LM guideways	Vcenter-55 Vcenter-55APC	Vcenter-70 Vcenter-70APC	Vcenter-85A	Vcenter-102A				Vcenter-205
Boxway column			Vcenter-85C	Vcenter-102C	Vcenter-110	Vcenter-130		
3-axis boxway			Vcenter-85B	Vcenter-102B			Vcenter-145	



Internet since 1996

### Horizontal Machining Centers

Pallet size	500	630	1000
3-axis LM guideways	Vcenter-H500 Vcenter-H500HS	Vcenter-H630Linear	
3-axis box slideways		Vcenter-H630	Vcenter-H1000



Released in 1998

### Application

Wheel manufacturing (Vturn-36W, Vturn-V24W, Vcenter-70/85/110)



Open house



Taipei show (TIMTOS)



IMTS show

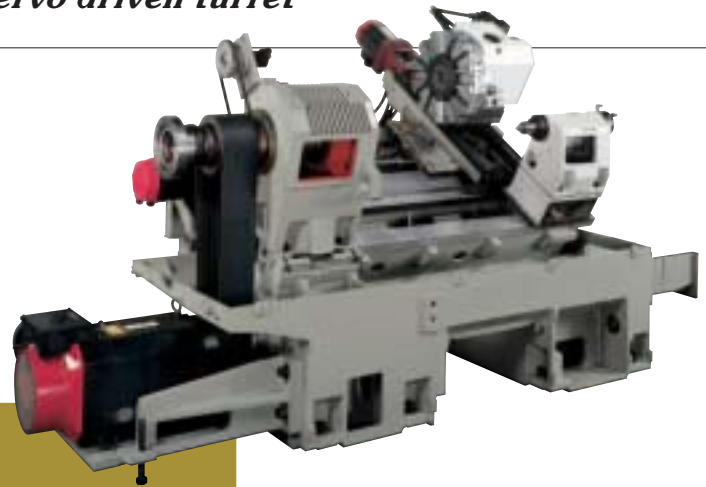
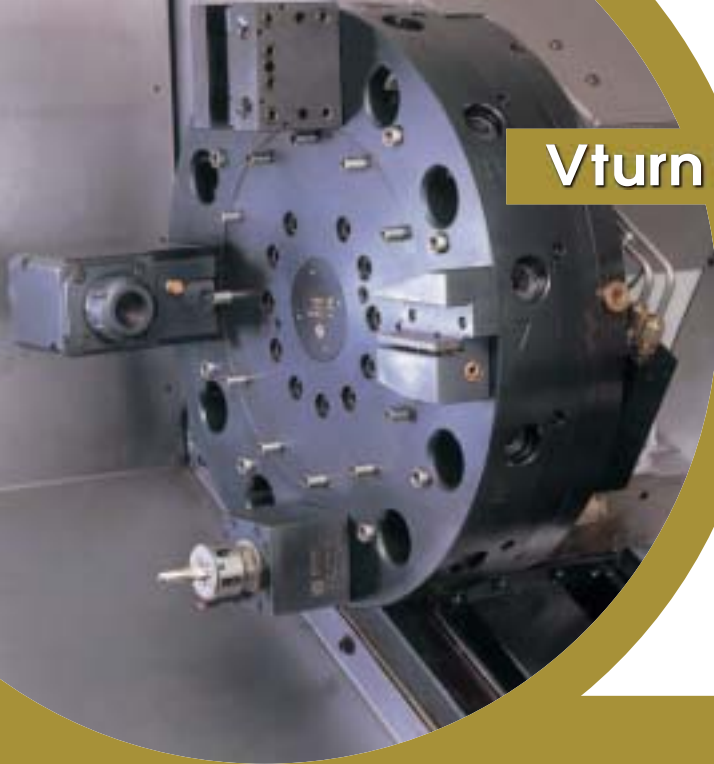


EMO show



## Vturn II series Lathes

*Upgraded rapid feed 20/24 m/min and  
Servo driven turret*



- Increased rigidity using one piece 30° inclined cast bed with integral BOX-WAYS.
- Faster rapid feeds of 20/24 m/min.
- SERVO DRIVEN TURRET offers quick tool exchange to shorten the cycle time.
- Fully programmable hydraulic tailstock.
- Dual direction (from the right or the rear) of chip disposal for flexible machine layout.
- Optional Large Spindle Bore (LSB) model lined with versatile bar feeder offers cost-effective solution.
- Optional B-axis SUBSPINDLE (by Direct Drive Spindle, DDS) collects part synchronously from main spindle assures collinear accuracy requirement.



Specification		VturnII-16	VturnII-20	VturnII-20LSB	VturnII-23(B)	VturnII-26/60(B) VturnII-26/110(B)	VturnII-26/60LSB VturnII-26/110LSB
Chuck size	inch	6	8	8	8	10	12
X-axis travel	mm	220+20	220+20	220+20	165+50 (180+15)	185+50 (180+15)	185+50
Z-axis travel	mm	510	510	510	610 (490)	619 (490) 1100 (980)	610 1100
Bar capacity	mm	40	52	66	75	75	91
Spindle speed	rpm	6000	4200	4500	4200	3500	2500
Spindle power	kW	7.5/9	7.5/9	7.5/9	11/15	15/18.5	15/18.5
Tool station		12	10	10	12 (VDI-40)	12 (VDI-40)	12
Tool shank	mm	20	25	25	25	25	25
B-axis travel (sub-spindle)	mm				- (425)	- (425) - (915)	- (425) - (915)
B-axis chuck	inch				6	6	6
Sub-spindle speed	rpm				4500	4500	4500
Machine weight	kg	4200	4200	4200	5500 (5750)	5600 (5800) 6200 (6400)	5600 6200



## Vturn II series Lathes

*C-axis by DDS spindle, B-axis sub-spindle and Y-axis milling turret B-axis sub-spindle and Y-axis milling turret*

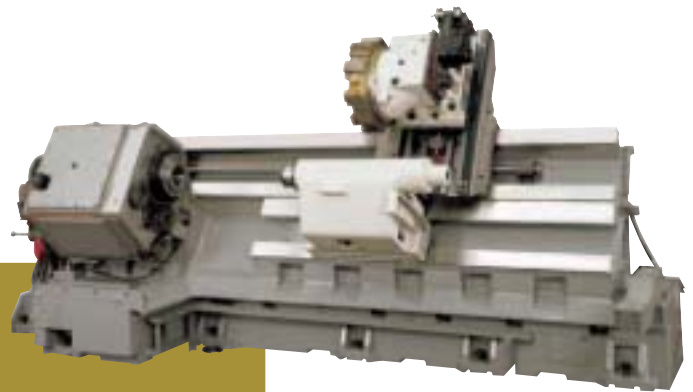
- Increased rigidity using one piece 30° inclined cast bed with integral BOX-WAYS.
- Faster rapid feeds of 20/24 m/min.
- SERVO DRIVEN TURRET offers quick tool exchange to shorten the cycle time.
- Fully programmable hydraulic tailstock.
- Dual direction (from the right or the rear) of chip disposal for flexible machine layout.
- Optional Large Spindle Bore (LSB) model lined with versatile bar feeder offers cost-effective solution.
- Optional B-axis SUBSPINDLE (by Direct Drive Spindle, DDS) collects part synchronously from main spindle assures collinear accuracy requirement.



Specification		VturnII-16CV	VturnII-20CV	VturnII-23(B)CV	VturnII-26/60(B)CV VturnII-26/110(B)CV
Chuck size	inch	6	8	8	10
X-axis travel	mm	135+113	135+113	143.5+122	185+50
Z-axis travel	mm	510	510	610	610 1100
Bar capacity	mm	40	52	75	75
Spindle speed	rpm	6000	4200	3500	3500
Spindle power	kW	7.5/9	11/15	11/15	15/18.5
Tool station		12 (12 live)	12 (12 live)	12 (12 live)	12 (12 live)
Tool shank	mm	VDI-30	VDI-30	VDI-40	VDI-40
Milling speed	rpm	3000	3000	3000	3000
B-axis travel (sub-spindle)	mm			-(490)	-(425) -(915)
Sub-spindle chuck	inch			6	6
Sub-spindle speed	rpm			4500 (opt. 6000)	4500 (opt. 6000)
Y-axis travel (sub-spindle)	mm	±45 (VDI-30)	±45 (VDI-30)	±55 (VDI-40)	±55 (VDI-40)
Machine weight	kg	4300	4300	5550 (5750)	5600 (5800) 6200 (6400)

## Vturn series Lathes

*High rigidity for high reliability*



- Meehanite® casting is used for whole machine structure.
- 45° inclined cast bed with integral BOX-WAYS. (60° inclined bed for Vturn-46)
- Hydraulic indexing turret offers quick tool changeover.
- Fully programmable hydraulic tailstock.
- Wide range Fanuc - / P i spindle motor is installed as standard for additional torque output at low rpm.
- Gearbox is further included on the large models (Vturn-36/46) to further enhance cutting capability.

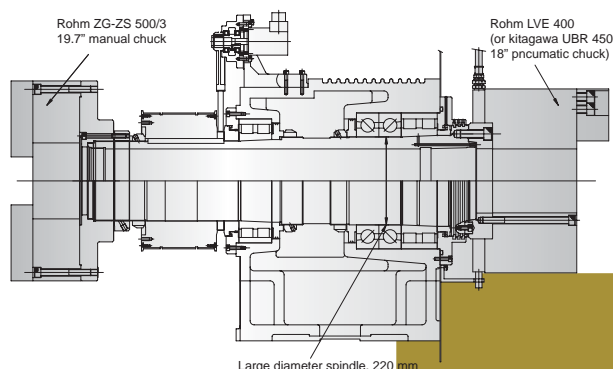


Specification		Vturn-16	Vturn-20	Vturn-26/60 Vturn-26/110	Vturn-36/85 Vturn-36/125	Vturn-46
Chuck size	inch	6	8	10	12	15
X-axis travel	mm	115+20	115+20	190+50	275+30	365+25
Z-axis travel	mm	600	600	610 1090	855 1255	1650
Bar capacity	mm	40	52	75	91	110
Spindle speed	rpm	6000	4200	3500	2500	1500
Spindle power	kW	7.5/9	7.5/9	15/18.5	22/26	30/37
Tool station		12	10	10	10	10
Tool shank	mm	20	25	25	32	32
Machine weight	kg	4000	4000	5400 6000	8600 9100	13500



## Vturn series Lathes

**Large spindle bore for  
big diameter part turning**



Based on the full function and structure rigidity of Vturn machines, this series lathes are capable of handling large diameter bar work without additional expense of oversize machine investment and reduce the floor space requirement.

Specification		Vturn-26LSB	Vturn-36LSB
Chuck size	inch	12	Front 18 (pneumatic) Rear 18 (manual)
Bar capacity	mm	91	160
Spindle speed	rpm	2500	1300
Spindle power	kW	15/18.5	20/26



### ***C-axis VDI milling turret (CV models)***

For spindle indexing all Vturn-CV machines are fitted with a separate servo-motor and gear drive which offers improved precision and ample torque for simultaneous indexing and milling.

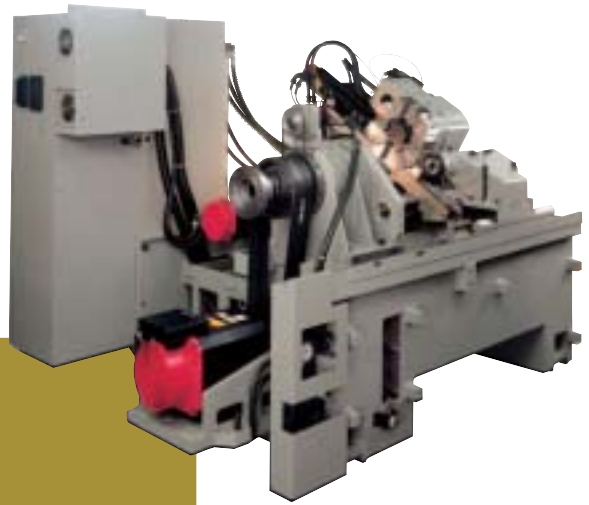
- VDI tooling is used as standard with the C-axis function with up to 6 live tool station.
- Dual hydraulic braking system fitted directly to the spindle provides low pressure braking to stabilize milling and cylindrical interpolation operations and high pressure braking to rigidly fix the spindle during simple milling or drilling operations.
- Victor's own VDI turrets are installed on Vturn-16/20/26CV and German Sauter® VDI-50 turrets are installed on Vturn-36/46CV.



Specification		Vturn-16CV	Vturn-20CV	Vturn-26CV	Vturn-36CV	Vturn-46CV
Chuck size	inch	6	8	10	12	15
X-axis travel	mm	142+80	142+80	155+130	155+199	156+281
Z-axis travel	mm	600	600	610 (1090)	855 (1255)	1650
Bar capacity	mm	40	52	75	80	110
Spindle speed	rpm	6000	4200	3500	2500	1500
Spindle power	kW	7.5/9	7.5/9	15/18.5	22/26	30/37
Tool station		12 (6 live)	10 (5 live)	12 (6 live)	12 (6 live)	12 (6 live)
Tool shank	mm	VDI-30	VDI-40	VDI-40	VDI-50	VDI-50
Milling speed	rpm	2000	2000	2000	2500	2500

## VTplus-15/20 Economic Lathes

*High rapid feed by Linear guides*



- Compact design reduces floor space requirement.
- Meehanite® casting is used for whole machine structure.
- 30° inclined cast turret carriage with linear guides (LM guides) for X/Z axes to generate 20/24 m/min rapid feed.
- Hydraulic indexing turret offers quick tool changeover.
- Manual tailstock with hydraulic quill.
- Wide range Fanuc/ Pi spindle motor is installed as standard for additional torque output at low rpm.
- Dual direction (from the right or the rear) of chip disposal for flexible machine layout.



Specification		VTplus-15	VTplus-20	VTplus-20LSB
Chuck size	inch	6	8	8
X-axis travel	mm	130+20	130+20	130+20
Z-axis travel	mm	320	320	320
Bar capacity	mm	40	52	66
Spindle speed	rpm	6000	4200	4500
Spindle power	kW	5.5/7.5	7.5/9	7.5/9
Tool station		12	8	8
Tool shank	mm	20	25	25
Machine weight	kg	3800	3800	3800





## Gantry robot system

*Cost-effective solution for compact manufacturing cell*



Victor's 2-axis gantry robot for the Vturn series lathes offers a complete turnkey system that will run unmanned 24 hours a day. This is a simple solution for the customer looking to Factory Automation as a means to increase production and reduce overheads.

- Reliable and affordable system for batch production.
- Specific part grippers for flanges and bars are available.
- Versatile work feeders available for stacking short flanges or long bars.
- VTplus, Vturn and VturnII series lathes are available with gantry robot system.
- Customized design for work feeders.

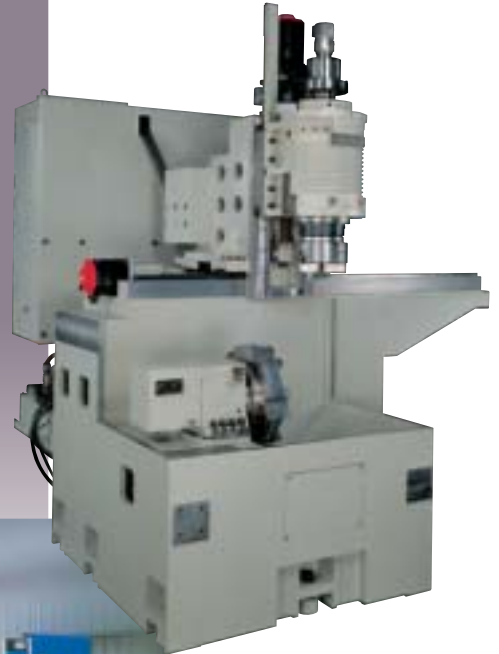


Specification		GR-05	GR-10(L)	GR-15(L)	GR-30
Available on		VTplus-15/20 VturnII-16/20	Vturn-26 VturnII-23/26	Vturn-26 VturnII-26	Vturn-36
X-axis travel	mm	2800	3400 (3900)	3320 (3850)	4420
Y-axis travel	mm	650	1050	1050	1200
X-axis rapid feed	m/min	120	90	90	75
Y-axis rapid feed	m/min	90	60	60	60
Payload	kg	5	10	15	30

## Vturn-iV200/250

***Pick & place vertical chucker with built-in automation***

- PICK-UP DDS SPINDLE by the traveling headstock couples turning and part-loading by one machine.
- INVERTED vertical chuck clamping reduces the possibility for the chip scratching on the surface of the components to cover the drawback of conventional vertical lathe.
- SERVO DRIVEN TURRET shortens tool changeover time.
- Compact floor space and integral chip disposal for a clean cell.
- More cost effective than a horizontal lathe with the gantry robot.
- Versatile work feeding packages A/ B/ C offers a flexible turning cell.
- High roundness without gravity effect on turning process.
- Extension for C-axis by DDS spindle.



Specification		Vturn-IV200	Vturn-iV250
Chuck size	inch	8	10
X-axis travel	mm	1320	1320
Z-axis travel	mm	380	380
Spindle speed	rpm	5000	4000
Spindle power	kW	7.5/11	11/15
Tool station		12	12
Tool shank	mm	20	25
Machine weight	kg	7000	7000





## Vturn-V300

*General purpose VTL  
with Box slideways*



- High reliability using Meehanite® casting with integral box slideways.
- High performance with rapid feed rate 15/24 m/min with Fanuc/ Pi wide range spindle motor.
- High roundness and surface finish without gravity effect on the turning process.
- Integral chip disposal without coolant leakage assures clean and clear factory.
- Compact space floor requirement for easier cell layout in the factory.
- Ergonomic design for easy loading and unloading for operators.

Specification		Vturn-V300	Vturn-V300CV
Chuck size	inch	12	12
X-axis travel	mm	400 (270+130)	262+138
Z-axis travel	mm	520	520
Spindle speed	rpm	2500	2500
Spindle power	kW	15/18.5	15/18.5
Tool station		8	8 (8 live)
Tool shank	mm	32	VDI-40
Machine weight	kg	6000	6000



## Fixed Column

*Linear guides for 2 or 3 axes*



- Meehanite® Casting for high reliability.
- High rapid feed by linear guides.
- Fronted mounted Y-axis servo motor for higher rigidity.
- Ram-&-arm type ATC for quick tool changeover time 2 seconds.
- Air curtain is included in the spindle.
- 8000 rpm spindle with rigid tapping or 6000 rpm spindle with heavy duty roller bearings.
- Fanuc wide range/ *Pi* motor enhances torque output at low rpm.
- Bellows type guarding on Z axis.
- Coolant flush onto the bottom guarding.
- Large work table for 4th axis applications.
- Versatile Fanuc and Heidenhain control options.



Specification		Vcenter-55	Vcenter-70	Vcenter-85A Vcenter-85C	Vcenter-102A Vcenter-102C	Vcenter-110	Vcenter-130
X-axis travel	mm	550	700	850	1020	1100	1300
Y-axis travel	mm	460	480	520	520	600	600
Z-axis travel	mm	460	510	560	560	560	610
Table working area	mm	800x460	800x460	1100x510	1100x510	1400x550	1400x550
Rapid feed X/Y/Z	m/min	30/30/24	30/30/24	24/24/20 24/24/18	24/24/20 24/24/18	24/24/18	24/24/18
Tooling		BT-40	BT-40	BT-40	BT-40	BT-40	BT-40
Number of tools		24	24	24	24	24	24
Spindle speed	rpm	8000	8000	8000 6000	8000 6000	6000	6000
Spindle power	kW	5.5/7.5	5.5/7.5	5.5/7.5	7.5/9	7.5/9	7.5/9
Machine weight	kg	4000	4100	5700	6100	7500	7800



## Fixed Column

### *Box Slideways for 3 axes*

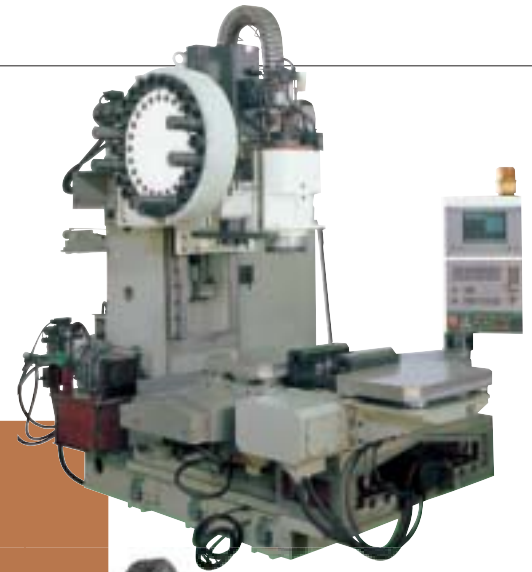
- Meehanite® Casting for high reliability.
- High rigidity by box slideways.
- Bonded with low friction composite Turcite B.
- Ram-&-arm type ATC for quick tool changeover time 2 seconds.
- Air curtain is included in the spindle.
- 6000 rpm spindle with heavy duty roller bearings.
- 2-setp gearbox is included as standard for BT-50 tooling models.
- Bellows type guarding on Z axis.
- Coolant flush onto the bottom guarding.
- Large work table for 4th axis applications.
- Versatile Fanuc and Heidenhain control options.



Specification		Vcenter-85B	Vcenter-102B	Vcenter-145
X-axis travel	mm	850	1020	1450
Y-axis travel	mm	520	520	700
Z-axis travel	mm	560	560	700
Table working area	mm	1100x510	1100x510	1650x650
Rapid feed X/Y/Z	m/min	20/20/18	20/20/18	18/18/15
Tooling		BT-40 (opt. BT-50)	BT-40 (opt. BT-50)	BT-50
Number of tools		24	24	24 (opt. 30, 40)
Spindle speed	rpm	6000	6000	6000
Spindle power	kW	5.5/7.5	7.5/9	11/15
Machine weight	kg	5700	6100	13200

## Fixed Column

*Vcenter-55/70APC*



### Cost effective VMC with Auto Pallet Changer

- Front mounted APC with ergonomic design.
- Hydraulic clamping allows easy operator access to pallet and machining area.
- Servo-driven rotary APC offers mere 3 second pallet changeover time.
- High pressure coolant flushes away the swarf accumulation on the bottom guarding.
- Two scroll type chip removers dispose voluminous chips to the rear of machine.
- Optional spindle oil cooler prolongs service long for this grease-lubricated DDS spindle bearings.



Specification		Vcenter-55APC	Vcenter-70APC
X-axis travel	mm	550	700
Y-axis travel	mm	430	430
Z-axis travel	mm	460	410
Table working area	mm	560x400	720x400
Rapid feed X/Y/Z	m/min	30/30/24	30/30/24
Tooling		BT-40	BT-40
Number of tools		24 (opt. 40)	24 (opt.40)
Spindle speed	rpm	8000	8000
Spindle power	kW	5.5/7.5	5.5/7.5
Machine weight	kg	4100	4200



## Traveling Column

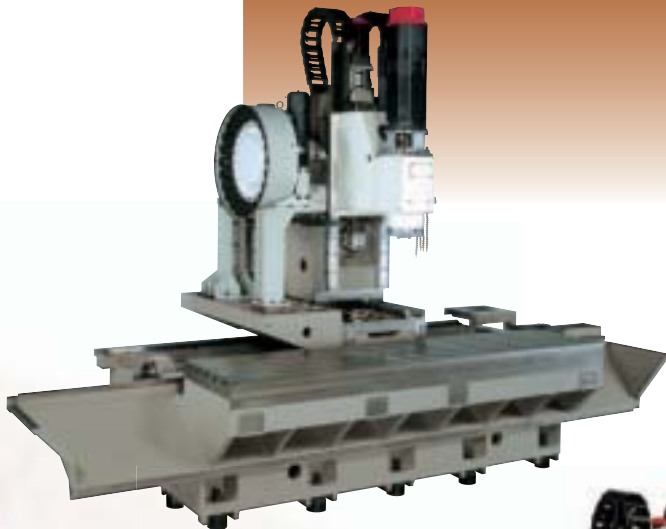
### Vcenter-205

#### High Versatility

- Long Fixed Table accommodates heavier loads and long parts.
- Traveling Column provides excellent access to work area.
- Easy installation for rotary tables or hydraulic fixtures.

#### High Productivity

- Rapid feed X/Y/Z-30/30/30 m/min reduces spindle idle time.
- Directly Coupled Spindle avoids belt vibration for better finish.
- Central Partition enables higher production than VMC with 2-pallet APC.

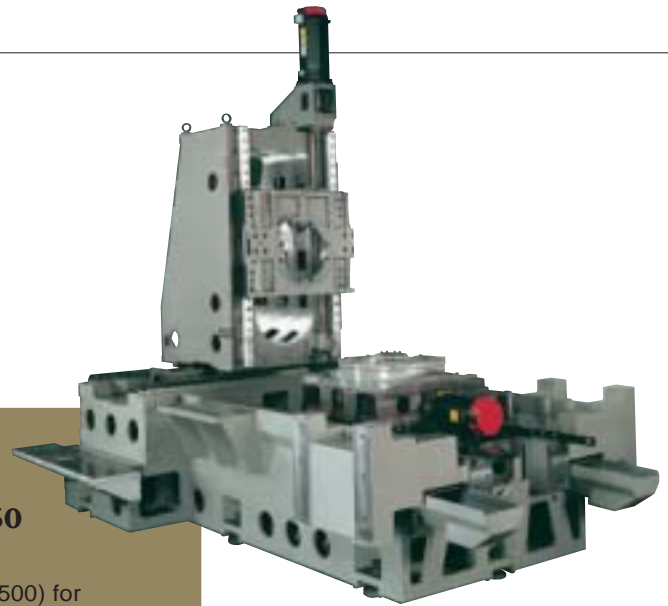
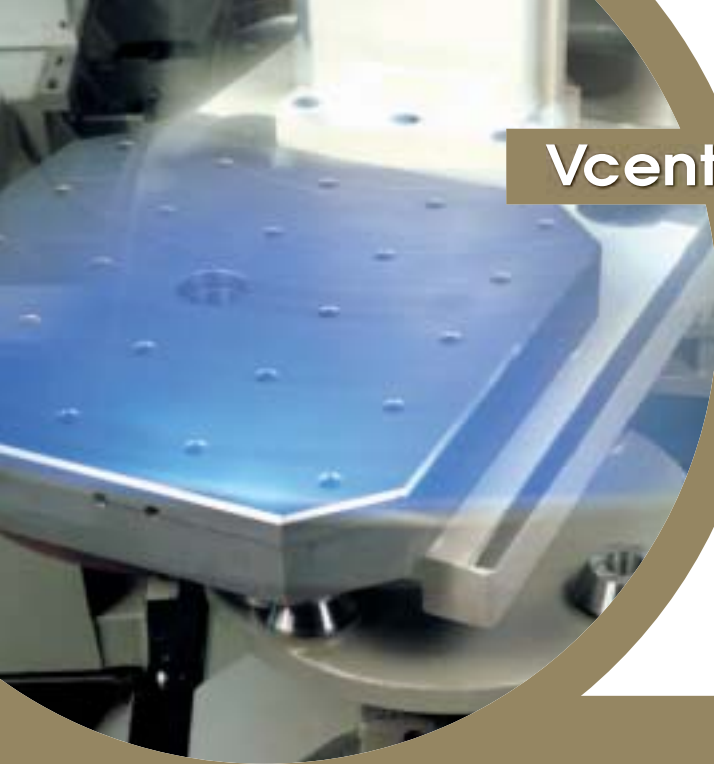


Specification		Vcenter-205
X-axis travel	mm	2050
Y-axis travel	mm	550
Z-axis travel	mm	560
Table working area	mm	2200x550
Rapid feed X/Y/Z	m/min	30/30/30
Tooling		BT-40
Number of tools		24 (opt. 32)
Spindle speed	rpm	12000
Spindle power	kW	7.5/11 (opt. 15/18.5)
Machine weight	kg	9050



## Vcenter-H500/H500HS

*with Linear Guides for 3 axes*

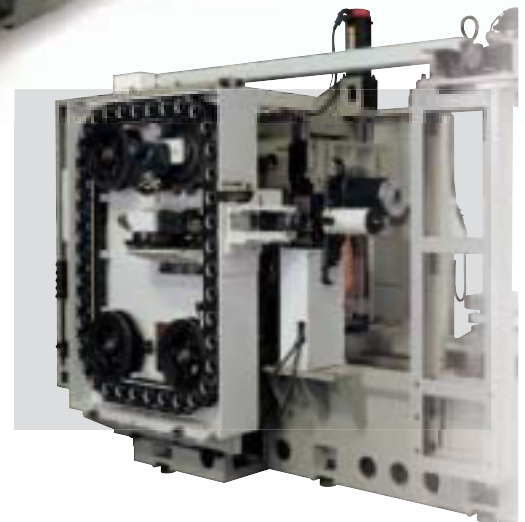


### High performance HMC by DDS spindle and BT-40/50 tooling

- Victor's innovative design on spindle offers BT-50 tooling (Vcenter-H500) for heavy cutting or BT-40 tooling (Vcenter-H500HS) for high speed machining.
- High efficiency by rotary style APC and oversized linear guide ways.
- Integral spindle construction by built-in DDS spindle (motor spindle) with dual winding technology enhances the torque output 48.5 kg-m for BT-50 tooling at low spindle speed.
- High spindle speed options from 12000 rpm to 20000 rpm for either BT-40 or HSK-A63 tooling.
- Optional coolant through spindle (CTS) offers high-pressure coolant up to 70 bars for optimal machining accuracy.
- Meehanite® Casting for high reliability.



Specification		Vcenter-H500	Vcenter-H500HS
X-axis travel	mm	720	720
Y-axis travel	mm	650	650
Z-axis travel	mm	720	720
Table working area	mm	500x500	500x500
Rapid feed X/Y/Z	m/min	24/24/24	30/30/24
Tooling		BT-50	BT-40
Number of tools		40	40
Spindle speed	rpm	6000	12000
Spindle power	kW	11/15	15/18.5
Machine weight	kg	12500	11000





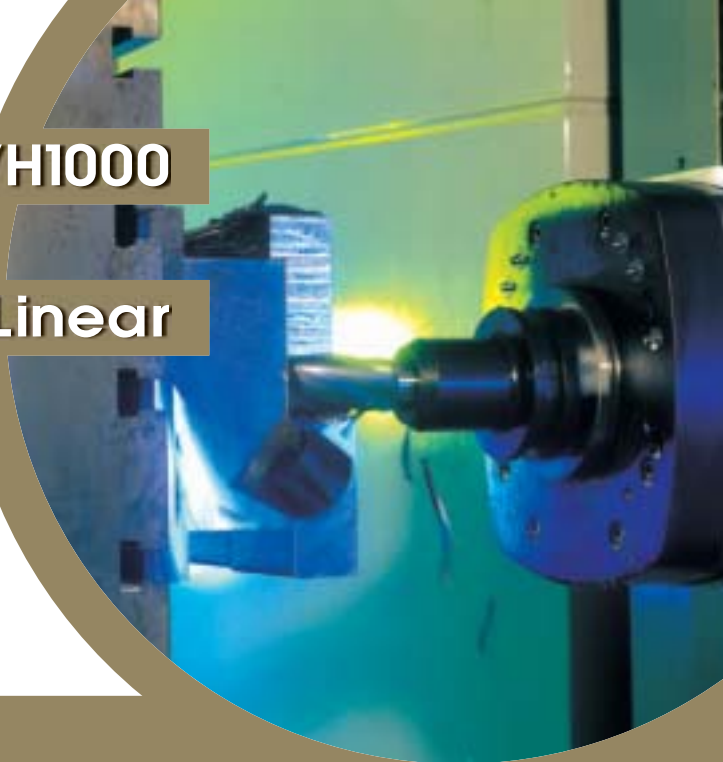
# Machining Centers

## Vcenter-H630/H1000

*with Box Slideways for 3 axes*

## Vcenter-H630Linear

*with Linear guides for high speed machining*



### High reliability HMC with BT-50 tooling for heavy cutting

- Rigid box slideway construction offers superb reliability and stability.
- Heavy duty spindle with integral 2-speed gearbox enhances the torque output at low spindle speed for heavy cutting.
- Modular tool magazine offers 60, 90 and 120 tool options.
- Parallel pallet change easily integrates multiple pallets and RGV (rail guided vehicle) to form the compact FMC (flexible manufacturing cell).
- Vcenter-H630Linear couples Linear motors to generate rapid feed rate 80/80/80 m/min as well as feed acceleration 1G for X/Y/Z axes.



Specification		Vcenter-H630	Vcenter-H630Linear	Vcenter-H1000
X-axis travel	mm	900	940	1350
Y-axis travel	mm	800	630	1050
Z-axis travel	mm	710	600	1050
Table working area	mm	630x630	630x630	1000x1000
Rapid feed X/Y/Z	m/min	15/15/15	80/80/80	15/15/15
Tooling		BT-50	HSK-A63	BT-50
Number of tools		60	60	90
Spindle speed	rpm	4500	20000	4500
Spindle power	kW	15/18.5	18.5/22	18.5/22
Machine weight	kg	14000	24000	31420

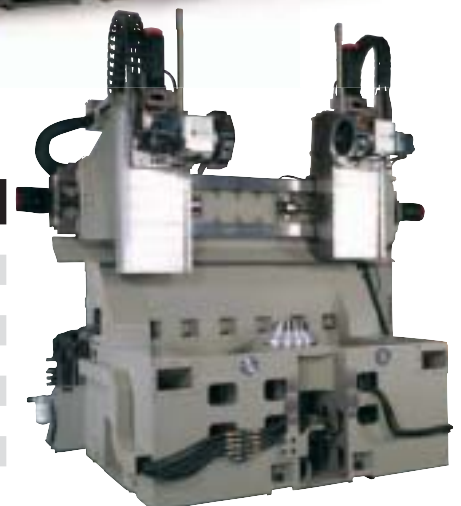
## Integral Solution for Alloy Wheel Machining

***Vturn-V24W, Vturn-36W,  
Vcenter-70/85A/110***

Based on 50 year experience of manufacturing on the turning and machining centers, Victor Taichung is proud of releasing turnkey solution by integrating vertical lathes Vturn-V24W, horizontal lathes Vturn-36W, customized finger chucks, vertical machining centers Vcenter-70/85A/110 and customized PCD drilling fixtures for rim machining from 12" to 26.5".

### **Vturn-V24W for turning big wheels up to 26.5"**

- Twin VDI turrets reduce cutting time by allowing 2 turning operations to be completed simultaneously.
- Rotary type ACC (Auto Chuck Changer) offers fast exchange time within 13 seconds to further reduce the spindle idle time.
- A2-13 Rigid spindle with 55 kW output is supported by large diameter bearings maintains tight run-out under heavy cutting.
- 2-piece Meehanite® cast iron base with 2 large and deep angled holes around spindle collects high volume of chips.
- 2 rear-disposal chip conveyors take chips continuously away from the machine to avoid chip build-up to block machining.
- 2 oil mist removers are included as standard to keep machining area clean.
- Air conditioner for electrical cabinet is included to assure continuous machining reliability.



Specification		Vturn-V24W	Vturn-V24W Without ACC	Vturn-36W
Wheel size clamping	inch	17~24	17~24 or 21~26.5	13~18 or 15~20
X1/X2-axis travel	mm	560	560	320
Z1/Z2-axis travel	mm	460	460	815
Spindle speed	rpm	2000	2000	2000
Spindle power	kW	45/55	45/55	30/37
Tool station		6+6	6+6	10
Tool shank	mm	VDI-50	VDI-50	32
Machine weight	kg	17000	16500	8700



## *Vturn-36W for turning big wheels up to 20"*

- Cost-effective solution for turning wheel size up to 20".
- Modified from Vturn-36, more specific features have been added to improve the machining efficiency and to enhance wheel surface finish.
- Z-axis telescopic cover assures long service life.
- High pressure coolants and large coolant tank avoid chips build-up.
- Customized finger chucks with changeover kit for easy and quick exchange between OP1 and OP2 turning.
- Auto door and air conditioner for electrical cabinet are included as standard.



## *Vcenter-70/85A/110 for PCD and valve hole drilling*



- Hydraulic PCD drilling fixture is installed for 12"~18" or 12"~22" wheel drilling by vertical machining centers Vcenter-70/85/110.
- Higher column is installed by the space to increase the working travel in Z-axis direction.
- Ram-&-arm type ATC for quick tool changeover time 2 seconds.
- Fanuc wide range/ *Pi* motor enhances torque output at low rpm.
- Coolant flush onto the bottom guarding.
- Air conditioner for electrical cabinet and bellows type Z-axis guarding are included as standard.

Specification		Vcenter-70	Vcenter-85A	Vcenter-110
Wheel range – PCD and valve hole only	inch	18	20	22
Wheel range – decoration holes	inch	16	19	20
X/Y/Z-axis travel	mm	700/480/510	850/520/560	1100/600/560
Table working area	mm	80x460	1100x510	1400x550
Rapid feed X/Y/Z	m/min	30/30/24	24/24/20	24/24/18
Tooling		BT-40	BT-40	BT-40
Number of tools		24	24	24
Spindle speed	rpm	8000	8000	6000
Spindle power	kW	5.5/7.5	5.5/7.5	7.5/9
Machine weight	kg	4100	5700	7500

# OR...Orders are Repeated

*To ensure the return on investment, Victor Taichung has invested considerably in setting up a distribution network in terms of global vision local touch for our sales and service supports worldwide. Besides the qualified exclusive agents around the world, Victor Taichung has 8 overseas subsidiaries to provide our customers efficient after-sales service and technical supports.*



*Victor Europe (UK)*



*Victor France*



*Victor GmbH (Germany)*



*Victor Fortune (South Africa)*



*Reis CNC (Turkey)*







*Jianrong (Victor Shanghai)*



*ProCoMeS (Italy)*



*Universal CNC (Spain)*



*Fortune International (US)*



USA



*HiMAQ (Argentina)*



*Victor Malaysia*



*Swiss Machinery Import*



*Gibas Numeriek (Benelux)*





## **No.1 machine tool builder from Taiwan**



### **Quality Meehanite Castings- The backbone of VICTOR machines.**

Being both ISO 9001 approved and a Meehanite cast member, our foundry produces over 1000 tons of castings a month for both our own use and export to Japan.



### **Modern machining facilities- 65% of components manufactured in house.**

To ensure greater control over the quality of our machined parts, VICTOR TAICHUNG has introduced 2 giant 5-side machining centers and 2 complete FMS lines developed in house.



### **Overseas subsidiaries solely dedicated to service of our own products.**

To ensure a market for our products, VICTOR TAICHUNG has invested considerably in setting up a global distribution network. As well as numerous agents around the world, VICTOR TAICHUNG has 8 overseas subsidiaries in USA, England, France, Germany, South Africa, Malaysia, Thailand and China to provide our customers efficient after-sales service and technical supports.

### **Striving for the Future- The development of Factory automation.**

The design and production of complete machining turnkey system, from the single lathe & gantry robot cell to completely automated factory lines, ensures VICTOR TAICHUNG is ready to meet the demands of tomorrow.



THE VICTOR-TAICHUNG COMPANIES

#### **TAIWAN**

<http://www.or.com.tw>  
E-mail: [info@mail.or.com.tw](mailto:info@mail.or.com.tw)

□ Victor Taichung Machinery Works Co; Ltd.

#### **Headquarters:**

266, Sec.3 Taichung Kan Rd.  
Taichung, Taiwan, R.O.C.  
TEL : 886-4-23592101  
FAX : 886-4-23592943

#### **Overseas Marketing Division:**

TEL : 886-4-23580701  
FAX : 886-4-23584541

#### **UK**

□ Victor Europe Limited  
TEL : 44-1-706-648485  
FAX : 44-1-706-648483

#### **FRANCE**

□ Victor France  
TEL : 33-1-64772000  
FAX : 33-1-64772063

#### **GERMANY**

□ Victor GmbH  
TEL : 49-2261-478434  
FAX : 49-2261-478327

#### **SOUTH AFRICA**

□ Victor Fortune (PTY) Ltd.  
TEL : 27-11-3923800  
FAX : 27-11-3923899

#### **MALAYSIA**

□ Victor Machinery (M) SDN.  
BHD.  
TEL : 60-3-56337180  
FAX : 60-3-56337191

#### **THAILAND**

□ Victor (Thailand) Co. Ltd.  
TEL : 66-2-9263735  
FAX : 66-2-9032373

#### **USA**

□ Fortune International Inc.  
TEL : 1-732-2140700  
FAX : 1-732-2140701

#### **CHINA**

□ Zhongtai Precision  
Machinery (Tianjin)  
TEL : 86-22-25321592  
FAX : 86-22-25321663

#### **Jianrong Precision**

□ Machinery (Shanghai)  
TEL : 86-21-59768018  
FAX : 86-21-59768008