



Vcenter - <mark>A</mark>72/A85 <u>A</u>110/A130

Always Ahead

- Z-axis acceleration 0.75G (excl. Vcenter-A130) minimizes tool changeover time.
- Upgraded rapid feed minimizes non-cutting time:
- 48/48/48 m/min for Vcenter-A72
- 42/42/42 m/min for Vcenter-A85/A110
- 36/36/36 m/min for Vcenter-A130
- Directly-coupled 12000rpm oil-air spindle assures part surface finis
- Supreme rigid column increases milling & tapping efficiency.
- Extreme long Y-axis travel 780mm for Veneter-



Victor Taichung - an established ISO-9001 & 14001 company

Advanced Performance

Z-axis acceleration 0.75G for quick tool change

With the structure and specification enhancement on Z-axis acceleration 0.75G (0.6G for Vcenter-A130) and increased rapid feed rate, the new A series Vcenters effectively upgrade the cutting efficiency and performance to pay off higher investment costs.





Z-axis acceleration 150% up! G(9.8m/s2)



Tapping* speed 140% up!



VMC-85 Vcenter-A85 * Tested by tap M6 X P1.0

Victor's own Spindle

- All spindles are manufactured in-house by Victor Taichung, and each carries its own unique I.D. code to facilitate future servicing requirements.
- Oil/air lubricated design to spread the oil into the spindle bearings by air ensures sufficient lubrication and longer service life than grease lubricated design.
- Unique spindle bearing layout 4+1 with 25° contact angle for 12000rpm spindle ensures high cutting rigidity.
- Optional 2+2 bearing layout with 15° contact angle for 12000/15000rpm spindle facilitates continuous high speed machining.

12000 rpm spindle

Fanuc α (T)8/12000i (Standard)





Performance Tests on Mild Steel S45C (tested on Vcenter-A85)



Metal removal rate: 540 cc/min (by *a*T8/12000i) (with CTS)

Feed rate: 6000 mm/min



Tapping







Advanced Construction

Victor Taichung's new A series models have been launched to set up a new standard for C-framed type VMC. Supreme rigid and tough column enables the Z-axis acceleration 0.75G (except Vcenter-A130 with 0.6G), the new A series Vcenter's present high feed rate up to 48 m/min in all axes to minimize spindle non-cutting time and to maximize spindle utilization.

Tool change only 5.5 seconds!

- Twin arm type ATC with bi-directional random selection for 24 tool magazine offers quick tool change and optimal reliability. This tool capacity can be optional increased to 32 or 40 tools for more complicated applications.
- Chip-to-chip tool changeover time is just around 5.5 seconds.
- Upgraded SK-40/BT-40 tooling system linked with the stronger tool pull stud (Ø14 mm) enhances the heavy cutting capability and outputs more CTS coolants than conventional BT-40 tooling with Ø10 mm pull studs.





Vcenter-A85/A110

Linear Guideways are designed to ensure maximum rigidity and vibration damping characteristics

- Ballscrew holders are directly cast into the machine for even higher rigidity and strength. This ensures a constant support for the ballscrews over the entire machine life.
- The Large diameter ball screws and <u>roller-type</u> linear guides ensure the high maximum structural rigidity during machining.
- Direct coupled servo motors eliminate motor backlash and noise caused by misalignment.



Directly-coupled Spindle (DCS) with high torque spindle motor

- Spindle motor is directly coupled to the spindle avoiding the vibration resulting from belt drives thus enhancing the surface finish on components.
- 12000 rpm spindle speed with high torque output accommodates both heavy cutting at low rpm and high speed machining.
- Oil-air lubrication with filtration system is used for cooling to cool and lubricate the spindle bearings to ensure maximum service life.
- An Air curtain is included to constantly provide the spindle with additional protection to cool and lubricate the spindle bearings to ensure maximum service life.
- Two types of spindle motors meet the power requirement for milling steel and speed requirement for milling Aluminum.

High rigidity dynamic structure

Vc-A130

800 (Vcenter-A85/A110)

700 (Vcenter-A72)

- Heavy-duty Meehanite[®] castings from Victor's licensed foundry are used in the bed and column for maximum damping and strength.
- Supreme rigid and tough column with a heavily ribbed design enables the high Z-axis acceleration for high speed movement.
- CAE (computer aided engineering) design with wide span in Y-axis results in a maximum stiffness to ensure the minimum overhang distortion for whole X-axis traveling range.





Chips & Coolant Disposal Upgrade

- Two screw type removers (4 off for Vc-A130) push swarf or chips continuously to the machine front further reduces chip accumulation inside machine.
- High pressure coolants by Grundfos[®] MTH4-40 (5 bars / 60 Hz) offer strong flow (150 liters/min) to flush the swarf away from the bottom

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- guarding for Vcenter-A85/A110 so as to minimize chip builtup for smooth and continuous machining.
- Large coolant tank minimums heat build-up for higher machining accuracy.
- Dual layer design on the machine base and bottom guarding minimize the coolant leakage to assure a clean and clear working environment.



Machine Options

Chip conveyor

Different type of chip conveyors are required for various part materials. Victor's offer chip conveyor takes chip flushed by the high pressure coolants to the machine front and disposes to the left side of machine.

Coolant through spindle (CTS)

For improved deep hole drilling and boring capability, 'through spindle coolant' is required. Coolant is fed through the centre of the spindle under the high pressure (20 bars / 60 Hz by Grundfos pump MTR3-23) directly to the cutting area. To ensure maximum longevity and reliability, fine particles produced during machining must be filtered out to prevent damaging the spindle; this is ensured by Victor using either a centrifugal dispersion system or by replaceable filter cores.

Stop blocks for oil hole coolants

As an alternative to CTS, it is possible to supply coolant through the tool holder by using a stop block located on the spindle nose. High pressure coolant can be supplied with no need for higher cost filter system as coolant bypassed the spindle.

Auto tool length measurement

To reduce tool set-up time, Victor offers two automatic tool length measuring systems:

Auto tool length measurement

Metrol[®] system T-24E is mostly used for tapping and drilling as the probe only measures the tool length.

Advance tool length measurement

Renishaw[®] system TS-27R offers further advancement with the probe capable of measuring both tool lengths and diameters. This system is ideal for batch production where tools need to be constantly changed or replaced.



Coolant options







Auto part measuring

To reduce time spent setting workpiece positions and then manually inspecting finished parts, which would be better invested in machining, the automatic part measuring is available with the use of Renishaw[®] MP10 or OMP-60 measuring probes. With the system provided by Victor, the workpiece position can be identified with the probe and work offsets automatically updated, enabling parts to be made right first time. During batch production in-processing checking can be performed on the machine, while for optimum accuracy in machining part inspection can be done after roughing so that finished part can maintain tight tolerances.

Fully enclosed guarding with optional CE marked requirement



Spindle Output (Heidenhain Control)



Siemens motor 1PH8131

4th/5th axis CNC rotary or tilting tables

CNC rotary tables can be easily installed to improve the application range. Four axes simultaneous machining for multiple faces can be realized with a single set-up. The 5th axis tilting table is also available with tilting as well as rotary function. Fanuc 31i-B5 or Heidenhain TNC-620/640/i530 controls will be required will be required for 5 axis simultaneous machining.



Linear scales for improved repeatability

Linear scales offer exceptional positioning accuracy up to 0.005 mm over full stroke. Heidenhain® or Fagor® linear scales with a thermal behavior similar to that of the machine are selected to compensate for the thermal expansion and to enhance repeatability. Sealed encoders with durable Aluminum housing offer improved reliability and service life.



Spindle oil cooler (STD) A/C on electrical cabinet (STD)



Cooling oil circulates around the spindle cartridge constantly to maintain the low temperature during the spindle rotation.



Air conditioner is installed on the electrical cabinet to ensure ultimate reliability for control system.



VICTOR Taichung's NC PACKAGE

Fanuc 0i-M/31i-B controls

With 10.4" color display included as standard, Victor Taichung's Fanuc control package includes conversational function MANUAL GUIDE I to reduce the programming time for easier operation. Through the latest technology for AI contouring control (AICC), Fanuc 0i-M control is capable of addressing lookahead up to 200 blocks to offer optimal reliability with the highest level of machine integration. With PLC developed in-house by highly experienced engineers, Vcenter-A72/A85/A110/A130 further include AICC-2 as standard for addressing look ahead 200 blocks for maximizing the machine efficiency to meet the demands for most productions. For higher speed and precision, the control option Data Server board can be installed to extend the memory length for upgrading the data transfer rate. The machine controller can be upgraded to 31i-B control which is capable of addressing 600 blocks as

standard and optionally 1000 blocks available by the so-called AICC-2 with HSP function (High Speed Processing) to further reduce the block addressing time for better surface finish.

VSS (Victor Software System) Macros

With exclusive software developed in-house by highly experienced engineers, VSS macros enhance not only machine operation to reduce tool set-up time but also safety features to protect costly spindle. Productivity can be further increased when the adaptive controlled cutting is implemented.



Smart workpiece measurement



Renishaw[®] GUI





Adaptive cutting at constant loading

Heidenhain control

Powerful dialog programming with fully alphanumeric keyboard, Heidenhain control is also available on Vcenter A series machining centers. Without remembering complicated G codes, the sophisticated graphic functions with 15" TFT monitor make programming check easy. Heidenhain TNC-620/640 controls are capable of addressing 5000 blocks and further makes use of hard drive memory for advanced 4 or 5 axis simultaneous controls.

Precision level selector

Control features for fast contour milling

Forture \ Controller	Fanuc			Heidenhain	
rediule (Conitolier	0i-MF	32i-B	31i-B	TNC-620	TNC 640
Block addressing time	2 ms* (with AICC-2)	2 ms	1 ms (Opt. 0.4 ms by HSP)	1.5 ms	0.5 ms
Preview contouring (look ahead blocks)	200* (with AICC-2) (Opt. 400)	200 (Opt. 400)	600 (Opt. 1000 by HSP)	5000	5000
Graphic display	10.4" (Opt. 15")	10.4" (Opt. 15")	10.4" (Opt. 15")	0.4" (Opt. 15") 15"	
Data storage	1280m (512kB) Opt. 5120m (2MB)	1280m (512kB) Opt. 5120m (2MB)	2560m (1MB) Opt. 10240m (8MB)	Min. 2 GB	Min. 2 GB
Data server (Memory extension)	Opt. (by CF Card)	Opt. (by CF card)	Std. (with CF card)	N.A. (8 GB with CFR)	Std. 21 GB (by SSRD) Opt. 144 GB (by HRD)
Ethernet link	Std.	Std.	Std.	Std.	Std.
Conversational function Manual guide i + VSS macros		Manual guide i	Manual guide i	Std.	Std.
Data transfer interface	PCMCIA + USB	PCMCIA + USB	PCMCIA + USB	USB	USB
*Victor Taichung's standard			· · · · · · · · · · · · · · · · · · ·		

VICTOR's FANUC 0i-MF (Type-1)/32i-B/31i-B Control SPECIFICATIONS

DESCRIPTION

Standard

ITEM SPECIFICATION Controlled Avec

| 1 | Controlled Axes | 3 Axes (X Y 7)

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| 2 | Simultaneous Controlled Axes | Position / Linear internolation / Circular internolation (3/3/2)

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| 3 | Least Innut Increment | 0.001 mm / 0.0001 inch / 0.001 deg

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| 4 | Least Input Increment 1 / 10 | 0.0001 mm / 0.00001 inch / 0.0001 deg

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с | Max command value | +00000 000mm (+0000 0000in)

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| 6 | Fine Acceleration & Deceleration Control | Std

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| 7 | Hink Speed HBV Control | Std

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| 8. | Inch / Metric Conversion | Std. (G20 / G21)

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| 9. | Interlock | All Axes / Each Axis / Cutting Block Start

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| 10. | Machine Lock | All Axes / Each Axis

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| 11. | Emergency Stop | Std.

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| 12. | Over-travel | Std.

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| 13. | Stored Stroke Check 1 and Check 2 | Std.

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| 14. | Mirror Image | Each Axis

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| 15. | Mirror Image M73, M74, M75, M76 | X, Y Axes

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| 16. | Follow-up | Std.

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| 17. | Position switch (with Victor's own PLC) | Std.

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| Operati | ion |

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| 1. | Automatic Operation | Std.

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| 2. | MDI Operation | MDI B

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| 3. | DNC Operation | Reader / Puncher Interface is Required

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| 4. | DNC Operation with Memory Card | PCMCIA Card Attachment is Required

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| 5. | Program Number Search | Std.

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| 6. | Sequence Number Search | Std.

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| 7. | Sequence Number comparison and stop | Std.

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| 8. | Buffer Register | Std.

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| 9. | Dry Run | Std.

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| 10. | Single Block | Std.

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| 11. | JOG Feed | Std.

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| 12. | Manual Reference Position Return | Std.

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| 13. | Manual Handle Feed | 1 Unit / Each Path

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| 14. | Manual Handle Feed Rate | X1, X10, X100

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| 15. | Z Axis Neglect | Std.

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| Interpo | lation |

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| 1. | Positioning | G00

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| 2. | Single Direction Positioning | G60

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| 3. | Exact Stop Mode | G61

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| 4. | Exact Stop | G09

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| 5. | Linear Interpolation | G01

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| 6. | Circular Interpolation | G02, G03 (multi-quadrant is possible).

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| 7. | Dwell | G04

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| 8. | Helical interpolation | Std.

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| 9. | Skip Function | G31

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| 10. | Reference Position Return | G28

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| 11. | Reference Position Return Check | G27

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| 12. | 2 nd / 3 nd / 4 ⁿ Heference Position Heturn | Std.

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| Feed | · · · |

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| 1. | Rapid Traverse Rate | Std.

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| 2. | Rapid Traverse Override | F0, 25%, 50%, 100%

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| 3. | Feed Per Minute | G94 (mm / min)

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| 4. | Tangential Speed Constant Control | Std.

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5. | Tangential Speed Constant Control Cutting Feed rate Clamp | Std. Std.

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6. | Tangential Speed Constant Control Cutting Feed rate Clamp Automatic Acceleration / Deceleration Deceleration / Deceleration Deceleration / Deceleration | Std.
Std.
Rapid traverse: linear, Cutting feed: exponential

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7. | Tangential Speed Constant Control Cutting Feed rate Clamp Automatic Acceleration / Deceleration Rapid traverse Bell-shaped Acc. / Deceleration Rapid traverse Bell-shaped Acc. / Deceleration Rapid traverse Bell-shaped Acc. / Deceleration | Std.
Std.
Rapid traverse: linear; Cutting feed: exponential
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Rapid traverse Bell-shaped Acc. / Deceleration
Bell-shaped Acc. / Deceleration
Bell-shaped Acc. / Deceleration | Std. Std. Rapid traverse: linear; Cutting feed: exponential Std. (600) Std. (601) Std. (601)

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Rapid traverse Bell-shaped Acc. / Deceleration
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Automatic Corner Deceleration Before & After Cutting Feed Interpolation
Linear Acc / Deceleration Before & After Cutting Feed Interpolation
Feed rate Override | Std. Std. Rapid traverse: linear; Cutting feed: exponential Std. (G00) Std. (G01) Std. (G01) Std. (G01) O = 157%

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Bell-shaped Acc. / Deceleration Before & After Cutting Feed Interpolation
Automatic Camer Deceleration
Linear Acc. / Deceleration Before & After Cutting Feed Interpolation
Feed rate Override
Jaco Devride | Std. Std. Rapid traverse: linear; Cutting feed: exponential Std. (600) Std. (601) Std. (604) Std. (601) 0 - 150% 0 - 100%

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Cutting Feed rate Camp
Automatic Acceleration / Deceleration
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Bell-shaped Acz. / Decoleration Before & Atter Cutting Feed Interpolation
Automatic Comer Deceleration
Linear Acz / Deceleration Before & Atter Cutting Feed Interpolation
Feed rate Override
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Automatic Comer Override | Std. Std. Rapid traverse: linear; Cutting feed: exponential Std. (600) Std. (601) Std. (664) Std. (601) 0 ~ 150% 0 ~ 100% 682

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14. | Tangenia Speed Constant Control
Cutting Feed rate Clamp
Automatic Acceleration / Deceleration
Rapid traverse Bell-shaped Acc. / Deceleration
Bell-shaped Acc. / Deceleration
Bell-shaped Acc. / Deceleration
Bell-shaped Acc. / Deceleration
Heart Acc / Deceleration Before & After Cutting Feed Interpolation
Feed rate Override
Jog Override
Automatic Comer Override
Feed Stop | Std. Std. Rapid traverse: linear; Cutting feed: exponential Std. (600) Std. (601) Std. (601) Std. (601) 0 ~ 150% 0 ~ 100% G62 Std.

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15. | Tangeniai Speed Constant Control
Cutting Feed rate Camp
Automatic Acceleration / Deceleration
Rapid traverse Bell-shaped Acc. / Deceleration
Bell-shaped Acc. / Deceleration Before & After Cutting Feed Interpolation
Automatic Comer Deceleration
Linear Acc. / Deceleration Before & After Cutting Feed Interpolation
Feed rate Override
Jog Override
Jog Override
Feed Stop
Automatic Comer Override
Feed Stop | Std. Std. Rapid traverse: linear; Cutting feed: exponential Std. (600) Std. (601) Std. (601) 0 ~ 150% 0 ~ 150% 0 ~ 100% G82 Std. Std. 200 blocks (0/82) with AICC-2)

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Cutting Feed rate Camp
Automatic Acceleration / Deceleration
Rapid traverse Bell-shaped Acc. / Deceleration
Bell-shaped Acc. / Deceleration Before & After Cutting Feed Interpolation
Automatic Comer Deceleration
Linear Acc. / Deceleration Before & After Cutting Feed Interpolation
Feed rate Override
Jog Override
Automatic Comer Override
Feed Stop
Al contour control (AIDC, Gl05.1) (in total)
AICC-2 + High speed processing (G05.1) (in total) | Std. Std. Rapid traverse: linear; Cutting feed: exponential Std. (600) Std. (601) Std. (601) 0 - 150% 0 ~ 100% G62 Std. Std. 200 blocks (0132) with ALCC-2) 600 blocks (31)

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| 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. | Tangeniai Speed Constant Control
Cutting Feed rate Camp
Automatic Acceleration / Deceleration
Rapid traverse Bell-shaped Acc / Deceleration
Bell-shaped Acc / Deceleration
Bell-shaped Acc / Deceleration
Linear Acc / Deceleration
Linear Acc / Deceleration
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Auxil	iary Spindle Speed Function	
1.	Auxiliary Function Lock	Std.
2.	High Speed M / S / T Interface	Std.
3.	Spindle Speed Function	Std.
4.	Spindle Override	50~120%
5.	1 st Spindle Orientation	Std.
6.	M Code Function	M3 diait
7	S Code Function	S5 digit
8	T Code Function	T2 digit
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		010.
1001	-unction & looi compensation	
1.	Tool Function	T8 digit
2.	Tool Offset Pairs	±6-digit, 400 (0i/32i), 999 (31i)
3.	Tool Offset Memory C	Std. (D/H codes are separated)
4.	Tool Length Compensation	G43-G44, G45-G48, G49
5.	Cutting Compensation C	Std.
Accu	racy Compensation	
1.	Backlash Compensation	Rapid Traverse / Cutting Feed
2.	Stored Pitch Error Compensation	Std.
Edit (Operation	
4	Part Program Storage Length (in total)	1290m (E12KP) (0:020) 2660m (21)
2	Number of Registerable programs (in total)	400.00(20) 1000 (10(21))
2.	Part Presenter Edition / Present	400 (0/32),1000 (10/31)
3.	Part Program Editing / Protect	510.
4.	Background Editing	Sto.
5.	Memory card edung	Std. (01-F)
Setti	ig and Display	
1.	Status Display	Std.
2.	Clock Function	Std.
3.	Current Position Display	Std.
4.	Program Display	Program name 31 characters
5.	Parameter Setting and Display	Std.
6.	Self Diagnosis Function	Std.
7.	Alarm Display	Std.
8.	Alarm History Display	25
9.	Operation History Display	Std.
10.	Help Function	Std.
11.	Run Hour and Parts Count Display	Std.
12.	Actual Cutting Feedrate Display	Std.
13.	Display of Spindle Speed and T Code At All Screens	Std.
14	Graphic Eurotion	Std
15	Dynamic graphic display	Std
16	Sano Sating Screen	Std.
17	Snindle Satting Screen	Std.
18	Dienlay of Hardware and Software Configuration	Std.
10.	Multi Languago Display	914
19.	Mulu-Language Display	Siu.
20.	Data Filitetioli Ney	04
21.	Erase CHT Screen Display	Sid.
22.	Machining Condition Selecting Screen	Std.
23.	Color LCD / MDI	10.4" (0i/32i/31i)
Data	Input / Output	
1.	Reader / Puncher Interface	RS-232 interface
2.	External Work piece number search	9999
3.	Memory Card Interface	Std.
4.	Embedded Ethernet (10Mbps)	Std.
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OPTIONS

ITEM	SPECIFICATION	DESCRIPTION			
With hardware included		Oi-M	32i-B	31i-B	
1.	Conversational programming (Manual Guide i)	Std.	Std.	Std.	
2	Conversational programming (Super Cap i)	N.A.	N.A.	N.A.	
3.	Data server (with PCB and CF card 1GB)			Std.	
4.	Fast Ethernet (100Mbps, available in Data server)		Std.	Std.	
5.	Tool life management (2 buttons on control panel)				
6.	Part Program Storage Length 5120m (2MB in total)				
7.	Part Program Storage Length 8MB in total	N.A.	N.A.		
8.	Program restart				
9.	Optional block skip 9 blocks				
10.	High Precision Contour Control (HPnanoCC, with RISC board)*1	N.A.	N.A.	Std.	
11.	Profibus				
12.	5-axis simultaneous control	N.A.	N.A.	🗆 (31i-B5)	
Withou	ut hardware included				
13.	Al contour control II (AICC-2, G05.1, 200 blocks) *2	Std.	Std.	Std.	
14.	Look ahead block expansion (1000 blocks in total) *2	N.A.	N.A.		
15.	Tool load monitoring (with Victor own PLC)				
16.	Programmable mirror image (G50.1)				
17.	Bi-directional Pitch Error Compensation				
18.	Addition of tool pairs for tool life management 512 sets	N.A.			
19.	Cylindrical interpolation (G7.1) (used on 4th-axis)	Std.			
20.	Interruption type custom macro	N.A.			
21.	Addition of work-piece coordinate systems 300 sets	N.A.	N.A.		
22.	Exponential interpolation (G2.3)	N.A.	N.A.		
23.	Smooth interpolation	N.A.	N.A.		
24.	Spiral/conical interpolation	N.A.	N.A.		
25.	Polar coordinate interpolation	N.A.			
26.	Floating reference position return	N.A.	N.A.	0	
27.	Hypothetical axis interpolation (G07)	N.A.	N.A.	0	
28.	Tool retract and return (G10.6 with Victor own PLC)	N.A.	N.A.		
29.	Tilted Work Plane command (TWP, G68.2)		0		

¹¹. Block addressing time: - 2 ms for AICC-2 (0i-F31-B) - 1ms for HPCC (ms. cutting teed 60 mtmin) (31-B) - 0.4ms for AI-HPCC and AI nano HPCC (150m/min) (31-B) and AICC-2+ High speed processing (31-B)

Machine Specification

Item	Units	Vcenter-A72	Vcenter-A85	Vcenter-A110	Vcenter-A130
Travel					
X axis travel	mm	720	850	1100	1300
Y axis travel	mm	480	600	600	780
Z axis travel	mm	660	560	560	700
Distance					
Spindle center to column	mm	539.5	660	660	770
Spindle nose to table surface	mm	150 ~ 810	150 ~ 710	150 ~ 710	100 ~ 800
Table					
Table work area	mm	800 x 460	1100 x 600	1350 x 600	1400 x 700
Dimension of T-slot	mm	4 x 18 x 100	6 x 18 x 100	6 x 18 x 100	7 x 18 x 100
Max. table load	kg	500	1000	1200	1500
Spindle					
Spindle taper		BT-40 (opt. BBT-40)	BT-40 (opt. BBT-40)	BT-40 (opt. BBT-40)	BT-40 (opt. BBT-40)
Spindle motor-cont/30min/5min	kW	7.5/11/15 opt. 15/18.5/-	7.5/11/15 opt. 15/18.5/-	7.5/11/15 opt. 15/18.5/-	7.5/11/15 opt. 15/18.5/-
Spindle speed	rpm	12000 (opt. 15000)	12000 (opt. 15000)	12000 (opt. 15000)	12000 (opt. 15000)
Feed rate					
Rapid feed rate-X/Y/Z	m/min	48/48/48	42/42/42	42/42/42	36/36/36
Axis acceleration-X/Y/Z	m/sec ²	0.5G/0.5G/0.75G	0.5G/0.5G/0.75G	0.5G/0.5G/0.75G	0.5G/0.5G/0.6G
Axis feed motor-X/Y/Z	kW	4.5/4.5/5.5	4.5/4.5/5.5	4.5/4.5/5.5	4.5/4.5/5.5
Cutting feedrate by table	m/min	20	20	20	20
X/Y/Z ballscrew	mm	40 x P12	45 x P16	45 x P16	45 x P12
Linear guide width (X/Y/Z)	mm	30/35/35	45/45/45	45/45/45	45/35/55
Tools					
Max. tool length	mm	300	300	300	300
Max. tool weight	kg	7	7	7	7
Magazine capacity		24 (opt. 32)	24 (opt. 32)	24 (opt. 32)	24 (opt. 40)
Max. tool diameter (without adjacent tools)	mm	76 (125)	80 (125)	80 (125)	76 (125)
Tool exchange time	sec.	2.1 (T-T), 3.8 (C-C)	2.1 (T-T), 5.5 (C-C)	2.1 (T-T), 5.5 (C-C)	2.1 (T-T), 5.5 (C-C)
Pull stud angle	deg.	15 (JIS 40P)	15 (JIS 40P)	15 (JIS 40P)	15 (JIS 40P)
Tool selection method		Random	Random	Random	Random
Machine					
Power requirement	kVA	40 (excl. CTS)	40 (excl. CTS)	40 (excl. CTS)	40 (excl. CTS)
Min/Max. air pressure	kg/cm ²	5.5 ~ 6.5	5.5 ~ 6.5	5.5 ~ 6.5	5.5 ~ 6.5
Coolant tank capacity	L.	400	510	550	650
Std. NC controller (Fanuc)		0i-MF (10.4")	0i-MF (10.4")	0i-MF (10.4")	0i-MF (10.4")
Floor space requirement (with conveyor)	mm	3119 x 2676	3840 x 3577	4180 x 3577	4381 x 4303
Max. machine height	mm	3190	3007	3007	3158
Machine weight	kg	5150	7070	7400	11000

Standard accessories:

- Fully enclosed splash guard
- Fanuc 0i-M (10.4") control
- Spindle oil cooler
- Air conditioner for electric cabinet
- Two screw-type chip removers (4 off for Vcenter-A130)
- Rigid tapping
- Remote MPG
- Hand tools and toolbox

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- T nuts for table slot
- 3-step warning light Auto power off system
- Leveling blocks
- Oil skimmer
- Air gun
- Coolant gun
- Fanuc e-book (CD)

Optional accessories:

- Air dryer
- Chip conveyor with cart
- High-powered spindle motor
- 15000 rpm spindle (DCS)
- Coolant through spindle (CTS)
- 32 or 40 tool magazine
- Linear scales
- Auto tool length measurement
- Stop block for special tools

- 4th/5th axis interface
- Rotary tables
- Auto part measuring
- Auto door
- BBT-40 (Bigplus BT-40) tooling
- Package for mold machining (with smaller pitch ballscrews)
- Manuals for Fanuc controller

Machine Layout

Vcenter-A72



Vcenter-A85 (Vcenter-A110)





The servo motor of Z-axis should separated before delivered.



Unit:mm

Vcenter-A130







Tool Shank



VictorTaching profile: Sales turnover: USD 145 mil's (in 2017)* No. of employees: 859 *Exchange rate: 1 USD=30 TWD.

VTL

VMC



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TAIWAN

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