



SF Series High Speed Machine

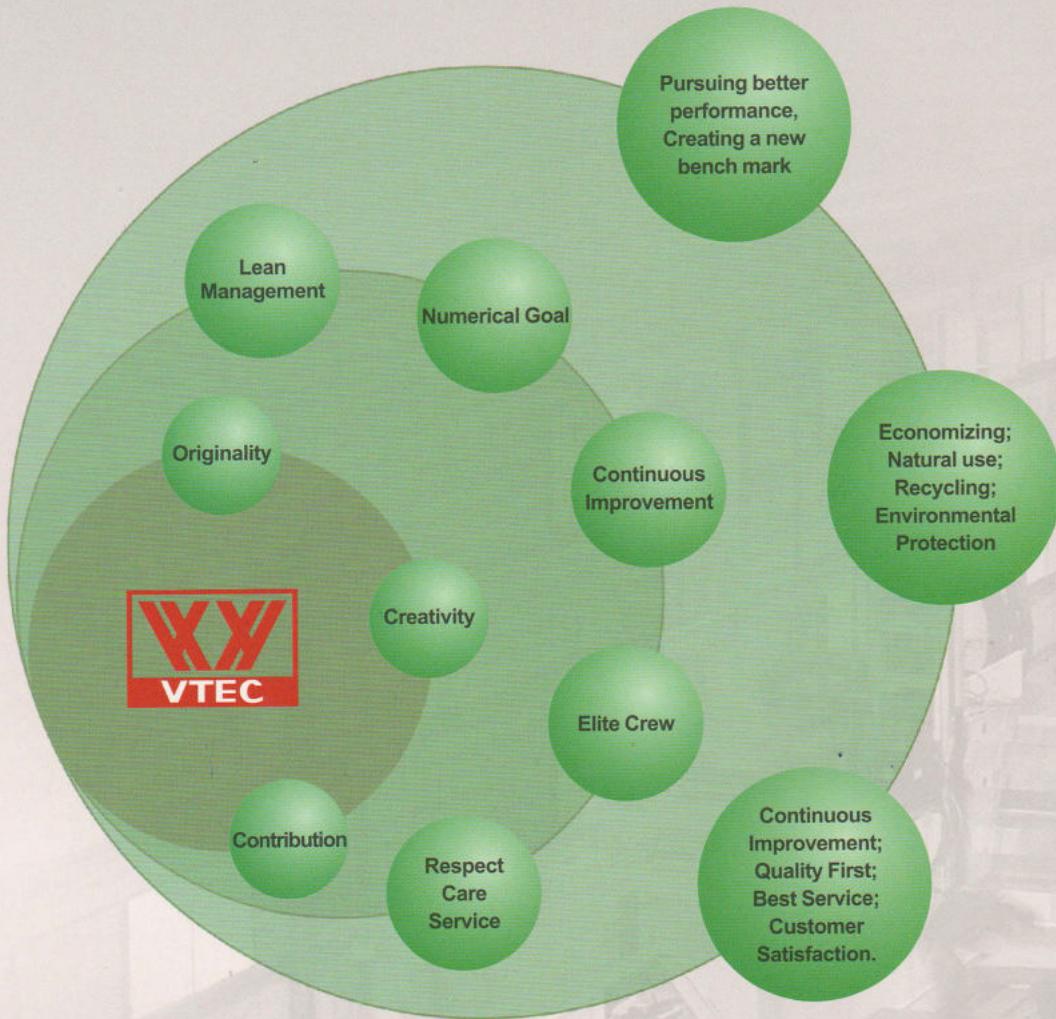


CNC Double Column Vertical Machining Center

Casting Structure
X,Y Axis Roller Type Linear Way
24 / 20 m/min Rapid Traverse



VISION WIDE TECH CO., LTD.



Pursuing better performance, Creating a new bench mark!

Vision Wide offers high quality and competitive priced products, our advantages are derived from customer-oriented machine designs, utilizing reliable high quality components and suppliers, integrating our precise process control during production, assembly and testing.

Pursuing better performance, Creating a new bench mark! We solidify our commitment to the company motto of "Originality", "Creativity", and "Contribution" for best performance and organizational enhancements from a professional team-based environment.

From the little improvements to the future new products, we have the technology for today's industries. We continue to make us more competitive nowadays and afterwards in the CNC machining centers.

High Value. High Precision. High Reliability Products

1. SF series

X: 2.1 - 4.1m (Linear way)
Y: 1.2 / 1.6 / 2.0m (Linear way)
Z: 800 / 1,000mm (Linear way)
Z: 800mm (Box way)



2. VB series

X: 2.0 - 4.0m
Y: 1.6 / 2.0m
Z: 800 / 1,020mm (Box way)



3. VF series

X: 2.0-5.0m
Y: 2.3 / 2.6m
Z: 920 / 1,020mm (Box way)



4. NF series

X: 2.2 - 10.2m
Y: 2.3 / 2.6 / 3.0 / 3.3m
Z: 920 / 1,020mm (Box way)
Z: 1,000 / 1,200mm (Linear way)



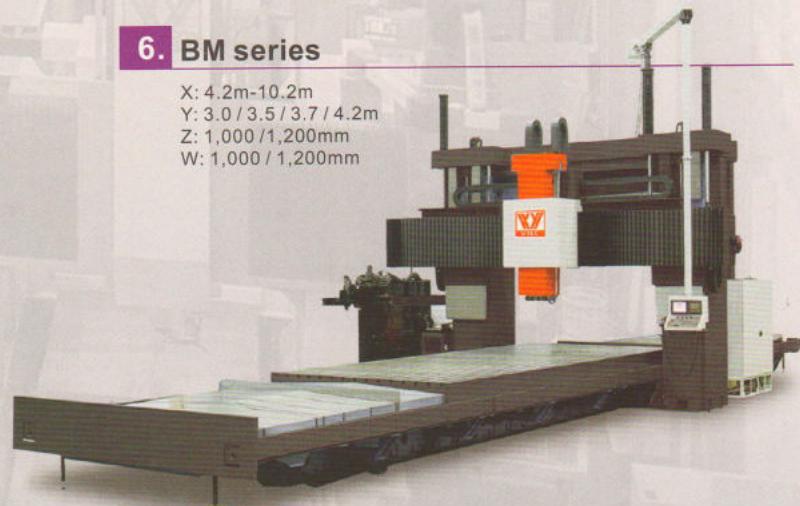
5. VH series

X: 4.2 - 10.2m
Y: 3.0 / 3.5 / 4.0m
Z: 1,000 (Box way)
Z: 1,000 / 1,200mm (Linear way)



6. BM series

X: 4.2m-10.2m
Y: 3.0 / 3.5 / 3.7 / 4.2m
Z: 1,000 / 1,200mm
W: 1,000 / 1,200mm



7. Attachment Heads

Manual Attachment Heads (not available for BM)



90° angular head



Universal head



Extended head

Automatic Attachment Heads semi-auto 5-face machining (AC)
fully-auto 5-face machining (AH)



AC 90° angular head



AC 2-axis head

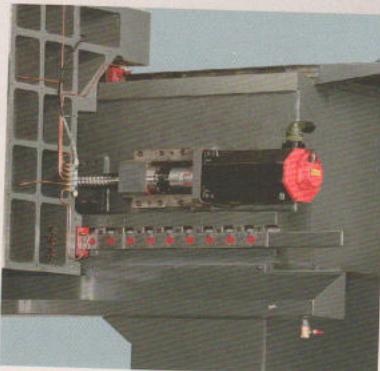


AC extended head

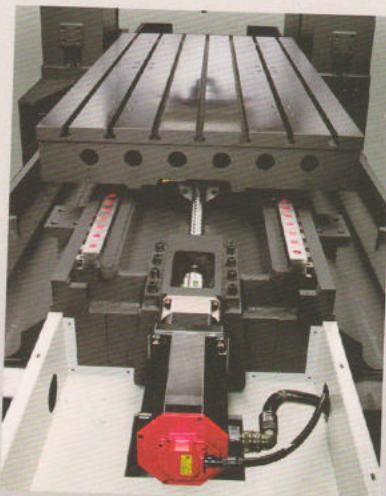
(not available for SF and VB)

A combination of speed and precision.

- All made of casting structure: base, columns, beam, saddle, and headstock
- Various spindles 18,000 / 20,000 / 24,000 rpm (Opt.)
- 24 / 20 m/min Rapid traverse
- Roller type linear ways made by Japan or German (X, Y axis)
- Distance between columns: 1.38 / 1.7 / 2.1 m, extra wide front door opening
- Cutting length: 2.1 m - 4.1 m
- Z stroke: 800 mm (optional: 1,000 mm)
- Fast cam-type ATC (3 second tool-to-tool)
- Attachment heads (Opt.):
 - Manual head attachments: 90 degree / extended / universal
 - Semi-automatic: 90 degree
- Enhanced Vision Wide VW-FX series graphical user interface (for FANUC 0iMD / 31iB)



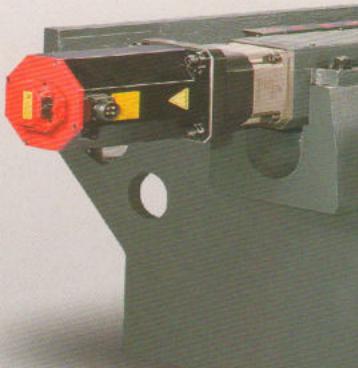
- Large span for high torque and high rigidity when machining



- High lead, high speed feeding, and low-noise for ball screw
- Torque enlarger unit on X-axis increases the transmission torque and ensures the transmission accuracy.



- Particularly suitable for smaller distance between columns (SF-xx12)
- Integral structure of the cross beam and columns for excellent rigidity

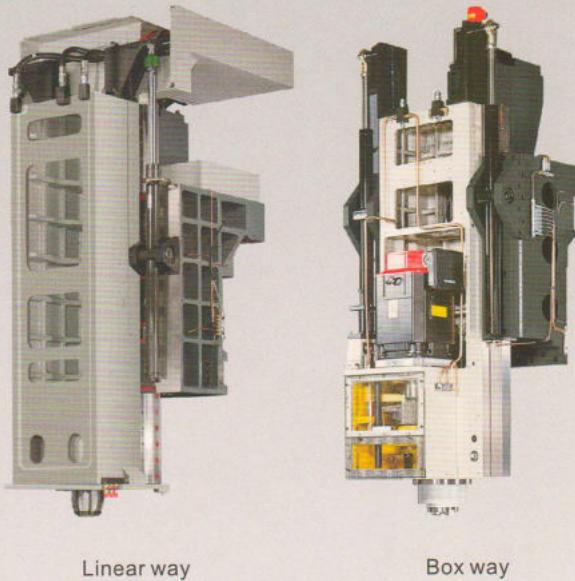




VISION WIDE
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Best center-line layout of spindle system provides powerful and reliable performance!



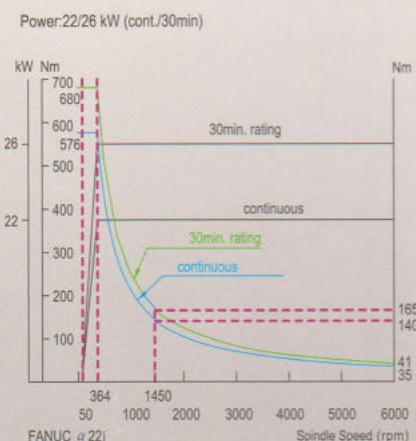
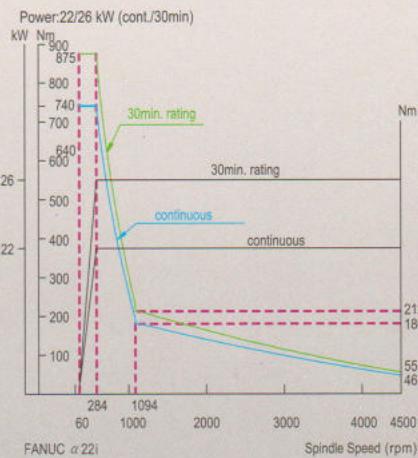
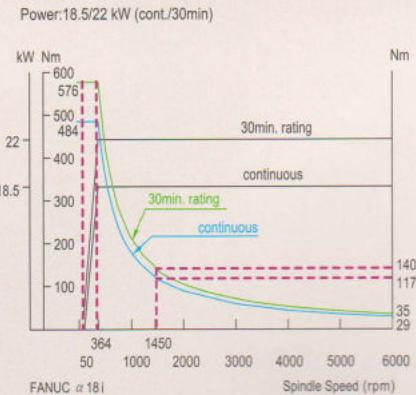
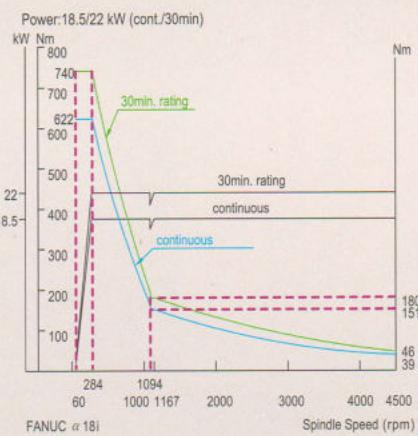
Design Feature of Spindle System

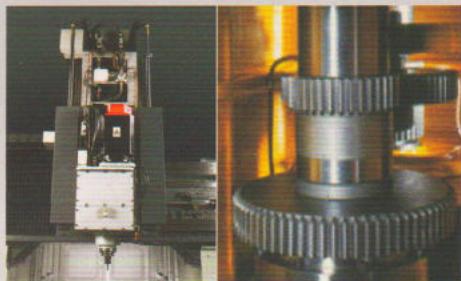
- Least thermal deformation based on box structure, and spindle centered at the interception point of motor, ball screw, and dual balancing weight
- High efficient power transmission with low noise are produced by Japanese JIS 0 grade gears
- Spindle made by the first class supplier
- Floating tool release mechanism
- Temperature cooling system for gears, bearings, and spindle
- Various spindle selections for versatile applications: 4,000 4,500 6,000 8,000 10,000 18,000 20,000 24,000 rpm

Spindle Power and Torque Chart

Box way

■ Gear type

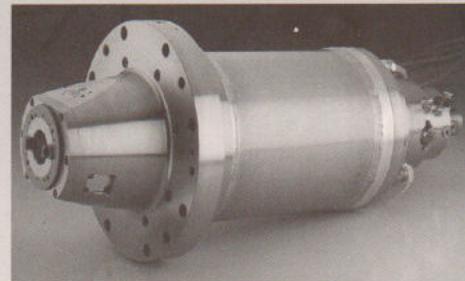


■ Gear type spindle


Z-axis box way : 4,500 / 6,000 rpm
 Z-axis linear way : 4,000 / 8,000 rpm

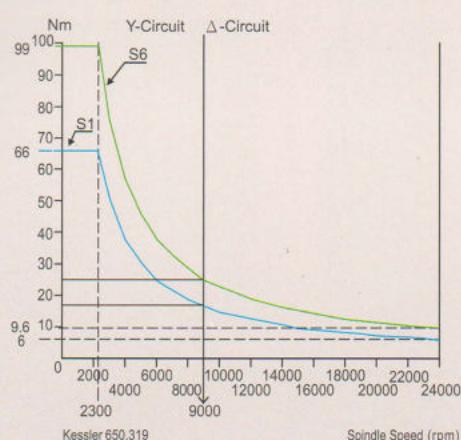
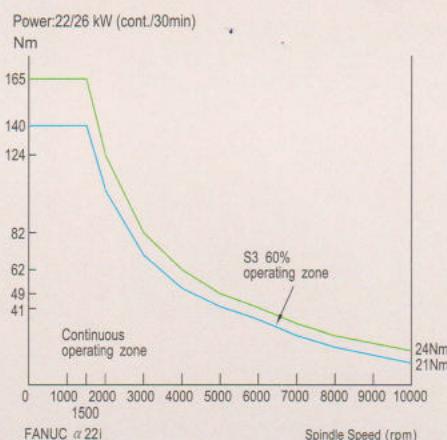
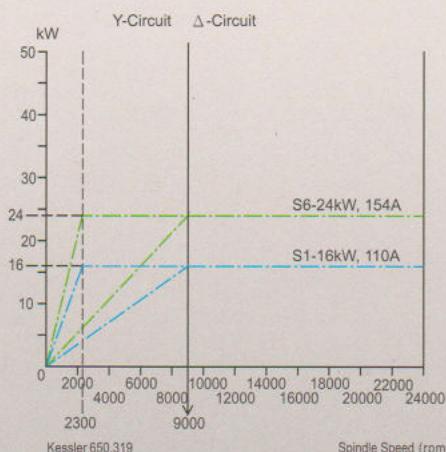
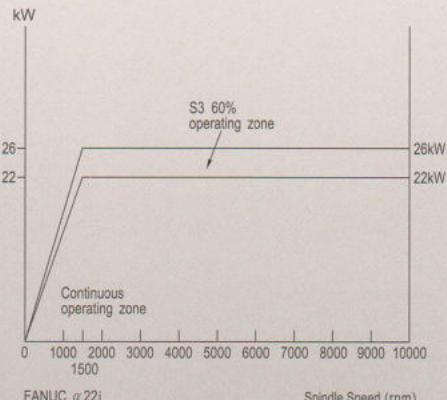
■ Direct-driven spindle


Z-axis linear way :
 Direct-driven 10,000 rpm

■ Built-in high speed spindle


Linear way : 18,000~24,000 rpm
 Heat extension : <0.02 mm
 Low vibration : 1mm / sec

Linear way

■ Built-in type

■ Direct-driven type

Y-Circuit Δ-Circuit

Power: 22/26 kW (cont./30min)


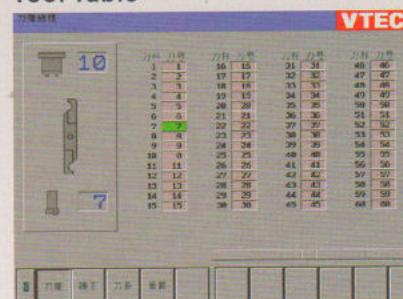
Vision Wide convenient software for safe and easy operations

Concept of Software Development

Background of co-growing by experience sharing with customers. Design concept of simple, quick and convenient operation. Customer satisfaction from quick service and working process shortening. Win-win by supporting customers for productivity management.

VW FX

Tool Table



Tool table data

Tools status refer to ATC

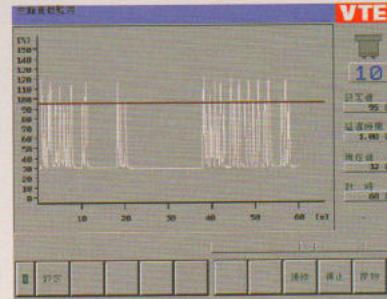
Tool Compensation Table

刀具	刀号	半径	刀尖	半径补偿	刀具号
B1	-200.000	0.000	0.000	0.000	1
B2	-200.000	0.000	0.000	0.000	2
B3	-200.000	0.000	0.000	0.000	3
B4	-300.000	0.000	0.000	0.000	4
B5	-200.000	0.000	0.000	0.000	5
B6	-320.000	0.000	0.000	0.000	6
B7	-200.000	0.000	0.000	0.000	7
B8	-200.000	0.000	0.000	0.000	8
B9	-200.000	0.000	0.000	0.000	9
B10	-200.000	0.000	0.000	0.000	10
B11	-200.000	0.000	0.000	0.000	11
B12	-200.000	0.000	0.000	0.000	12
B13	-220.000	0.000	0.000	0.000	13
B14	-200.000	0.000	0.000	0.000	14
B15	-200.000	0.000	0.000	0.000	15
B16	0.000	0.000	0.000	0.000	16

Tool compensation data

Duty rate information

Tool Load Manager

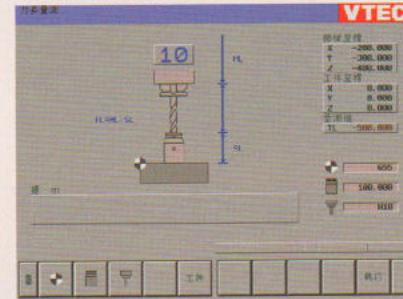


Over load alarm for each tool

Setting range 0~120%

No need any further external hardware

Manual Tool Compensation & Measurement

Fast tool compensation
Manual tool compensation

Machine Status

X00	X01	Y00	Y01
M X00-1: 10-停止	M X01-1: 10-停止	M Y00-1: 10-停止	M Y01-1: 10-停止
M X00-2: 10-停止	M X01-2: 10-停止	M Y00-2: 10-停止	M Y01-2: 10-停止
M X00-3: 10-停止	M X01-3: 10-停止	M Y00-3: 10-停止	M Y01-3: 10-停止
M X00-4: 10-停止	M X01-4: 10-停止	M Y00-4: 10-停止	M Y01-4: 10-停止
M X00-5: 10-停止	M X01-5: 10-停止	M Y00-5: 10-停止	M Y01-5: 10-停止
M X00-6: 10-停止	M X01-6: 10-停止	M Y00-6: 10-停止	M Y01-6: 10-停止
M X00-7: 10-停止	M X01-7: 10-停止	M Y00-7: 10-停止	M Y01-7: 10-停止

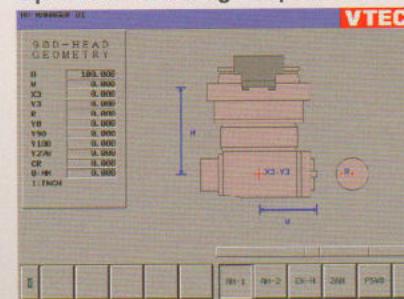
Fast mappings of I/O and program comment
Quick maintenance

Machining Parameter

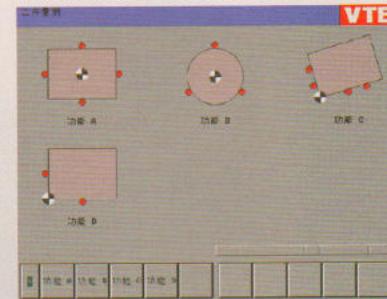
LEVEL	LEVEL 1			LEVEL 2			LEVEL 3		
	X	Y	Z	X	Y	Z	X	Y	Z
P1020	2000	5000	5000	3000	3000	3000	25000	25000	25000
P1051	10	10	10	20	20	20	30	30	30
P1052	20	20	20	30	30	30	40	40	40
P1053	30	30	30	40	40	40	50	50	50
P2000	5000	5000	5000	6000	6000	6000	7000	7000	7000
P2007	15000	15000	15000	16000	16000	16000	18000	18000	18000
P2020	0	0	0	0	0	0	15	15	15
P2030	0	0	0	0	0	0	0	0	0
P2043	2000	2000	2000	2200	2200	2200	2200	2200	2200
P2177	30	30	30	40	40	40	50	50	50

Additions 3 parameters for machining
The best efficiency machining modules
The highest precision machining modules
The smoothest machining modules

Optimal machining adaptation

V/H Tool length and diameter compensation
Working coordinates affine transformation and compensation (between different faces)
Automatic horizontal spindle center finding
V/H rigid tapping
V/H manual interrupting
V/H manual feeding
(V/H = vertical/horizontal)

Work Piece Coordinate Searching

Get the middle point of a rectangle geometry
Get the radius and center of a circular geometry
Calculate the tilted angle between a line and X axis
Get the corner of the included angle



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In-time service
Efficiency management
Customer-oriented design

Remote control

Machine Status Monitor

Tools status refer to ATC
Duty rate information
Coordinates display
Running program display
Running function display

Factory Manager

Operation time counter
Duty rate counter
Machined parts counter

Productivity Analysis

Machine productivity analysis
Factory productivity analysis

Machine Parameter

Built-in e-book for quick lookup
Easy parameter backup

Program Manager

NC memory file manager
Data Server file manager
Simple and quick transfer

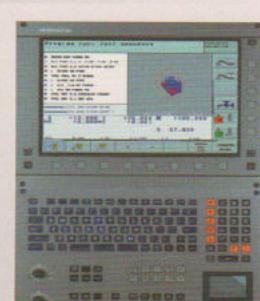
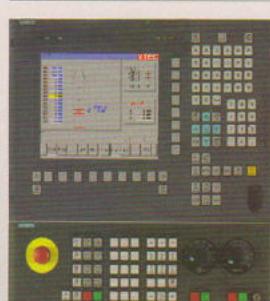
Tool Compensation Table

Tool compensation data
Variable value setting in Macro

Machine Status Detecting

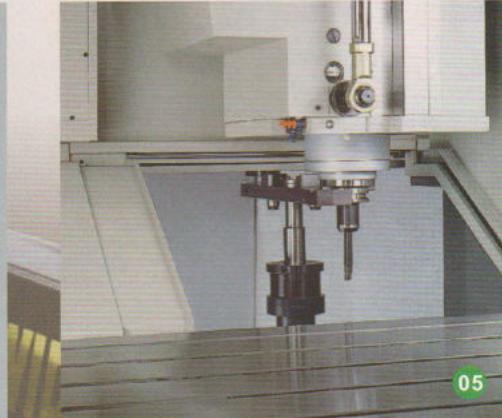
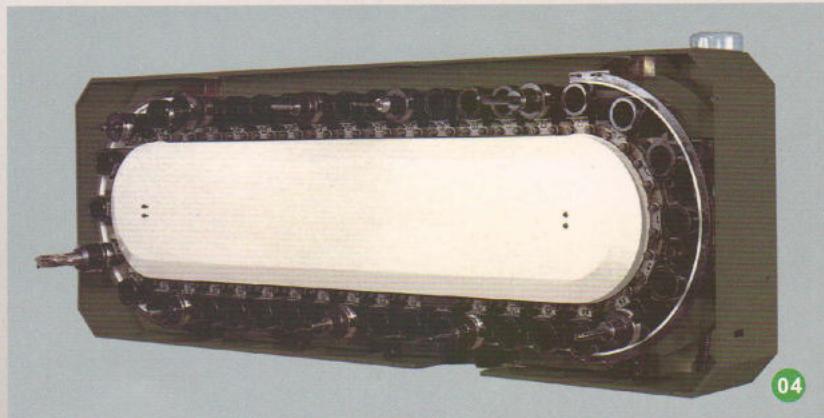
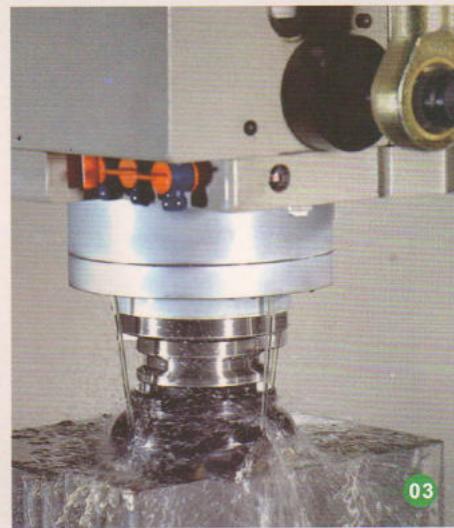
Quick checking of machine status by a remote PC (Timer/Keep relay/Counter/Data)

Numerical Controller



With More Standard / Optional Accessories

- 01 Auto. tool length measurement (Opt.)
- 02 Cam type ATC
- 03 Ring & nozzle type flood coolant (incompatible with attachment heads)
- 04 Automatic tool changing: 32 / 40 (Opt.) / 60 tools (Opt.)
Max. exchanging tool : Ø180 x L380 mm
- 05 Fast cam-type automatic tool changer (3 second tool-to-tool)
- 06 Pressured air assist balancing
- 07 Heat exchanger for electrical cabinet
- 08 Splash water gun & air outlet
- 09 Operation manual
- 10 Screw type chip conveyor
- 11 Caterpillar chip conveyor / Chip cart (Opt.)
- 12 Spindle cooling system



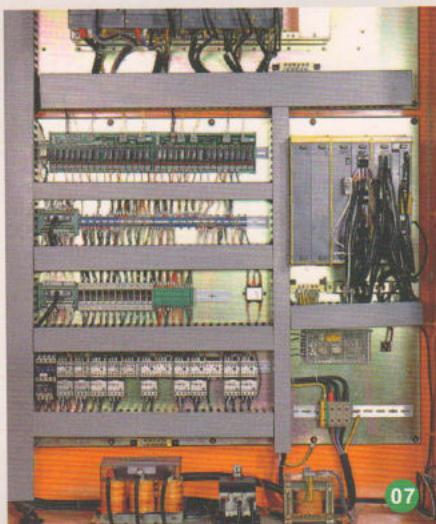


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Multi-layer front door design provides the widest door opening



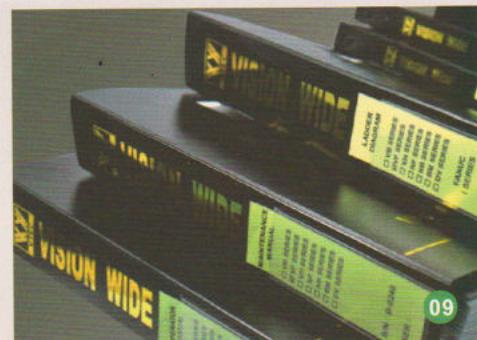
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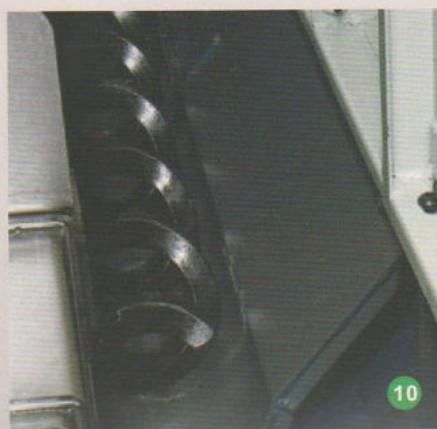
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08



09



10



11



12

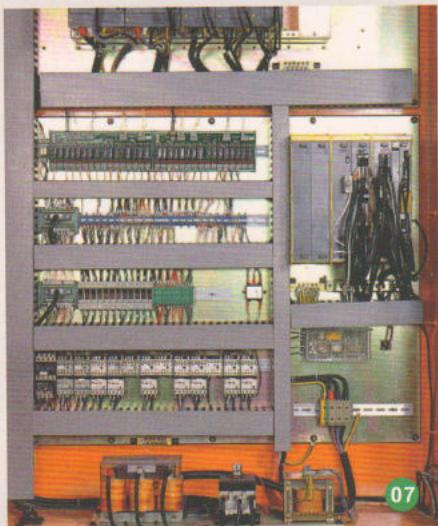
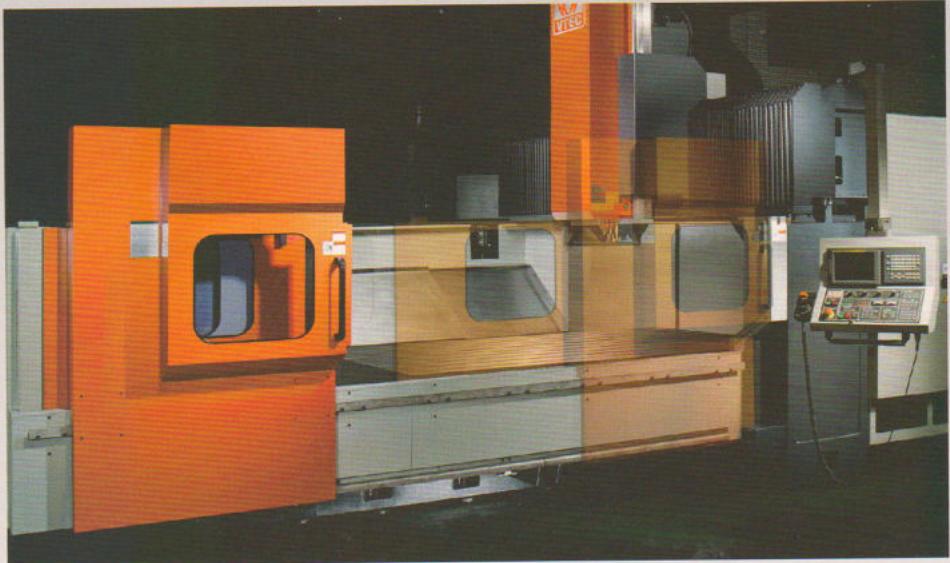


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Multi-layer front door design provides the widest door opening



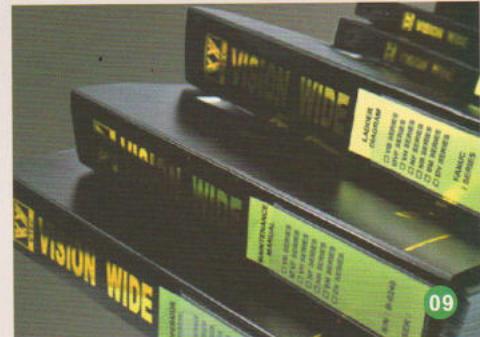
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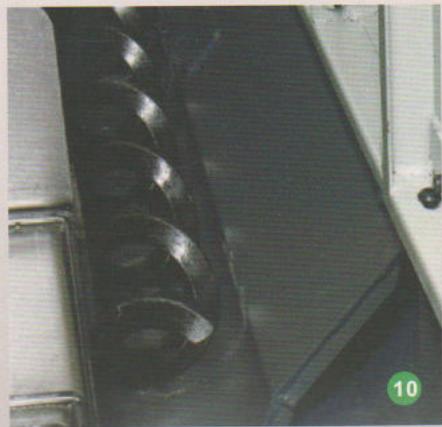
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12

TPS Management

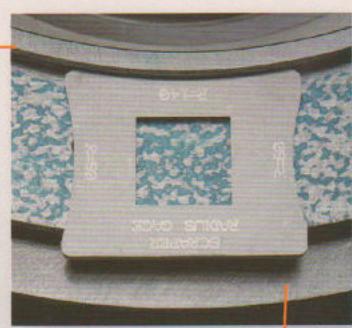
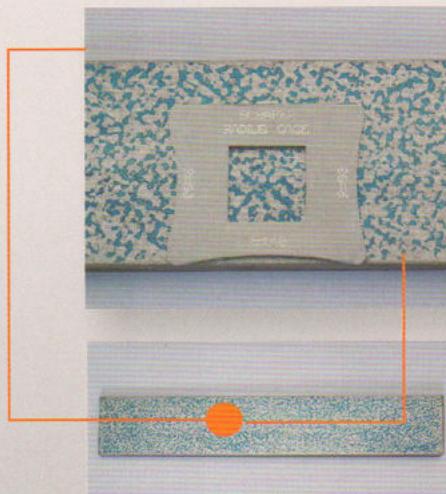
Under the guideline of constructing a thinking-active environment, while in the RD process, we set up the management of production quality. By imposing the necessary training in every key task and keeping continuous improvement, we pursue the best performance of technology and quality.



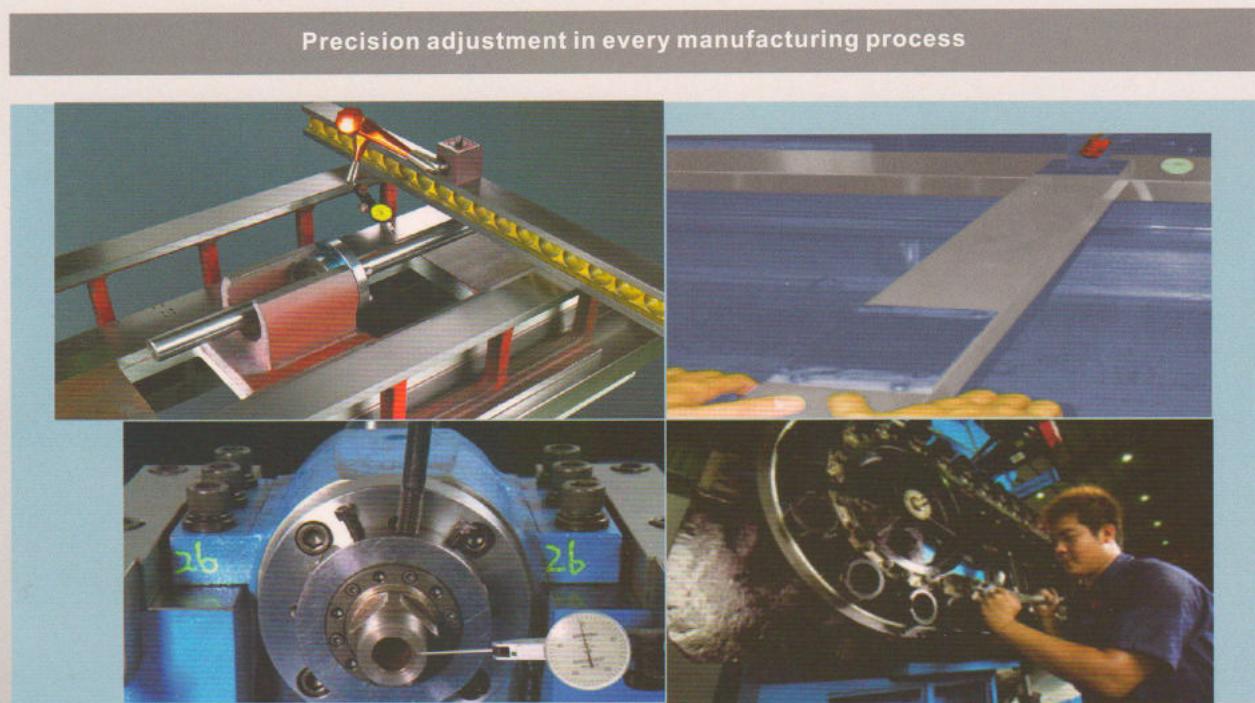
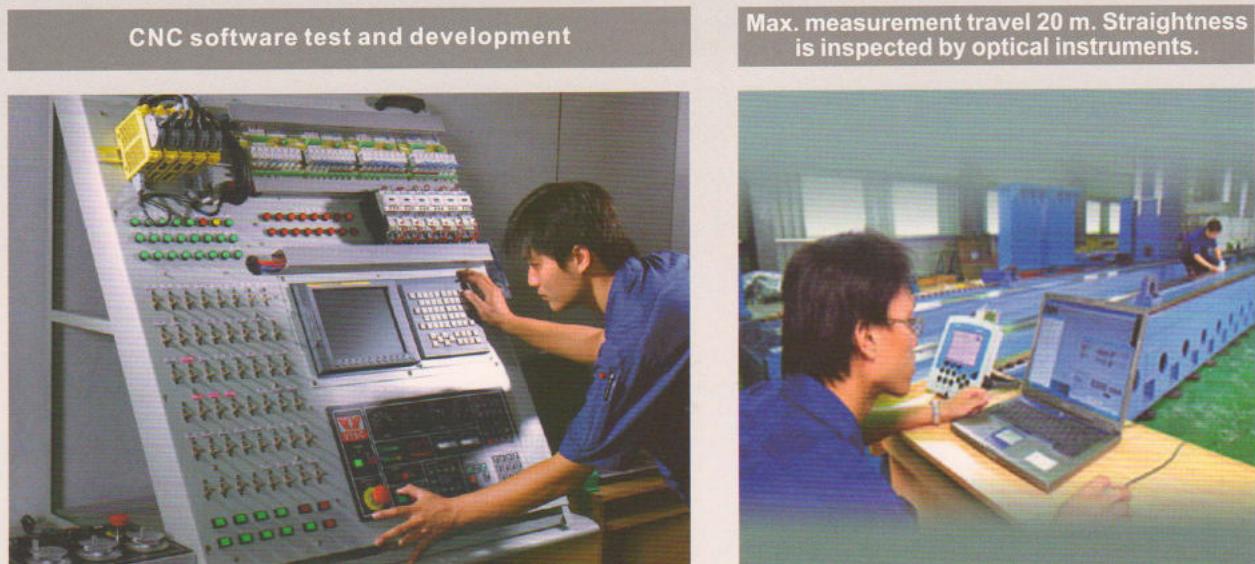
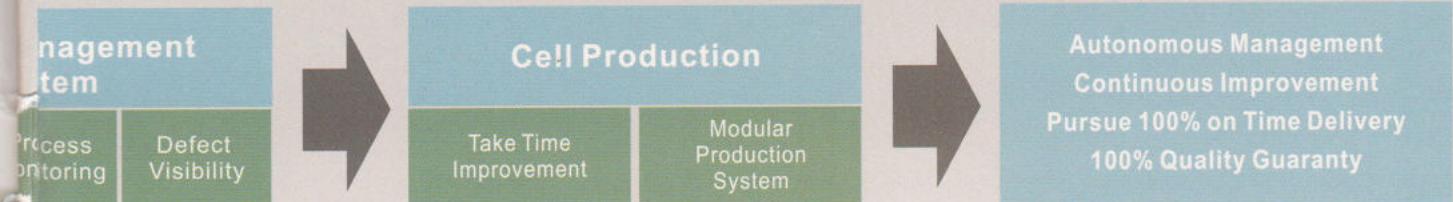
Modular Production – After components assembled and tested, they will be combined with the main production line.



Craft of realization for high rigidity concerning assemble.



Sliding face: 15~20 scrapping spots, 70% contact rate
Fixed face: 25~30 scrapping spots, 70% contact rate



ISO 9001:2008 Quality Management

Quality & Inspection



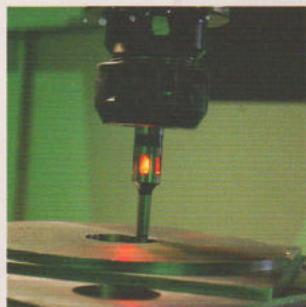
Dynamic accuracy
(ISO 10791-7)



CMM inspection



Straightness inspection
with collimator



3D mold cutting

Continual
Improvement

We commit for
“Quality First”
by following P-D-C-A
process in every
production segment,
using the advanced
instruments and strict
quality standards.

Reliability
test

Cutting
test

Positioning
accuracy
inspection

Function
test

Assembly
inspection

Geometric
accuracy
inspection



Vibration inspection



Heavy cutting



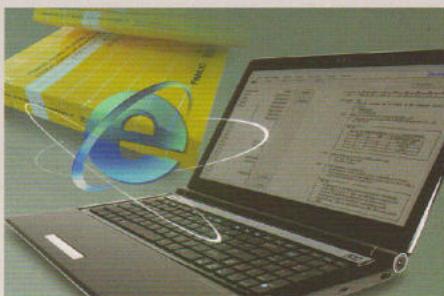
Circularity by ball bar test
(ISO 230-4)

High quality technology service

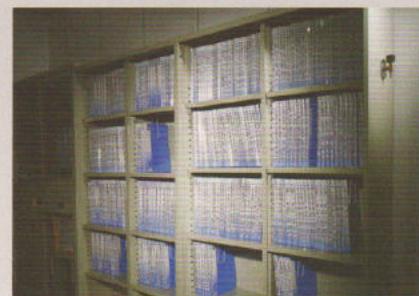
Annual maintenance and service



Frequent overseas service training given to agents so that profession and service are delivered



With FANUC E-hand books and remote control, the operator may query and monitoring anywhere immediately.



Complete record

CAD/CAM analysis service

The CAD/CAM application team offers the best proposal according to customers' machining requirements.

單號	日期	製表			
圖名	圖號	序號			
刀號	直徑	轉速			
Tool No.	mm	rpm			
	m/min				
T1 KEY-A-1	精銑	64	1000		
T2 KEY-A-2	精銑	8	3000		
T3	鑽孔加工	5.5			
T4	攻牙加工	攻牙	M7	Optimal tool path analysis	
T5	削魚眼孔	端銑刀			
T6	攻牙加工	攻牙	M7		
T7	鑽孔加工	鑽孔	6		
T8 KEY-A-8	銑削圓孔	端銑刀	8	1000	
T9 KEY-A-8	精鏤基準孔	鏤孔刀	30	1000	
T10 KEY-B-1	外形精銑	面銑刀	64	1000	
T11 KEY-B-3	精鏤基準孔	鏤孔刀	65	800	
T12 KEY-B-4	鑽孔加工	鑽孔	5	1000	
T13 KEY-B-5	銑削魚眼孔	端銑刀	10	1000	

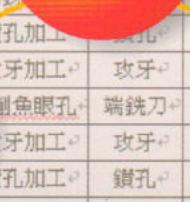
Optimal accuracy, cutting and tool path planning



CAD/CAM application service team



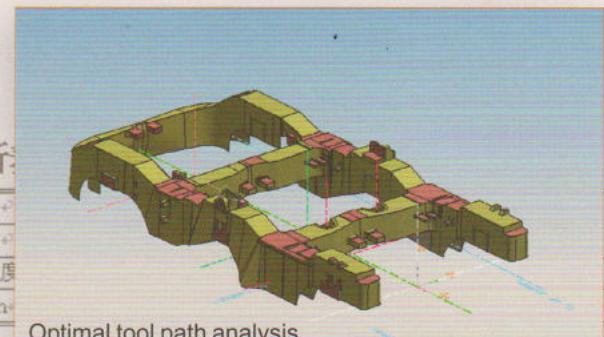
Tool selection
Machining condition



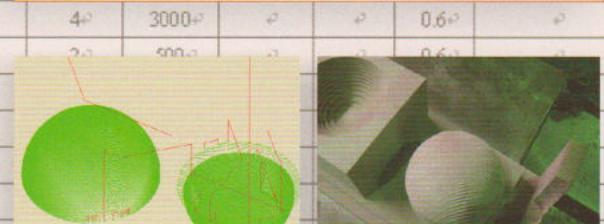
Machining time & Productivity analysis



工藝分析



Machining simulation



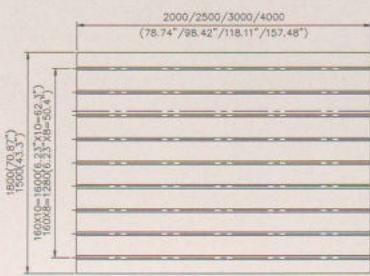
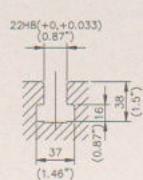
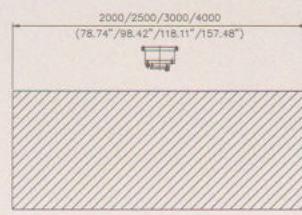
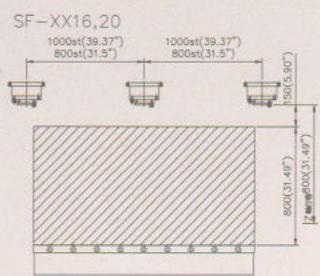
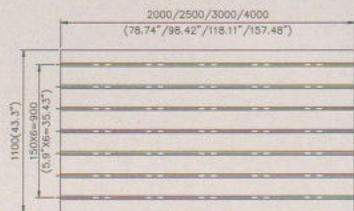
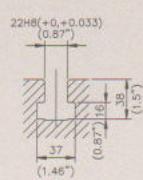
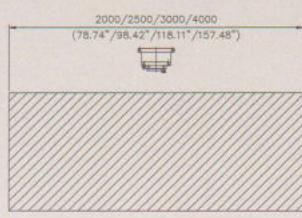
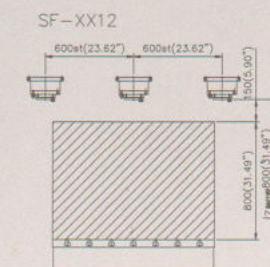
Real cutting processing



1. 以上為程式 CYCLE TIME 不包含換刀-翻面等時間。
 2. 僅計算工件上下面加工，未計算側邊加工部位。
 3. 總計時間為 5.5min 上述時間為軟體計算時間與實際機台上加工時間約有 20%誤差。

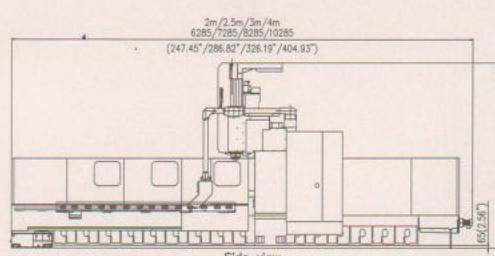
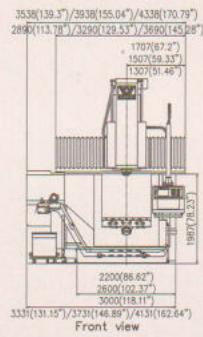
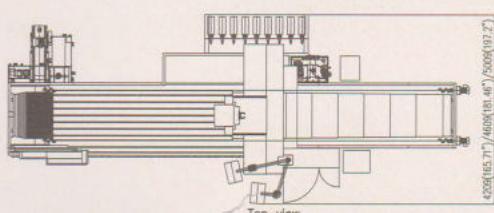
Table and T-slot Dimension

unit: mm(inch)



Major Machine Dimension

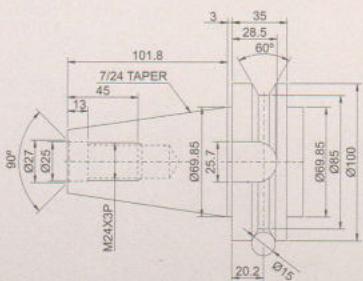
unit: mm(inch)



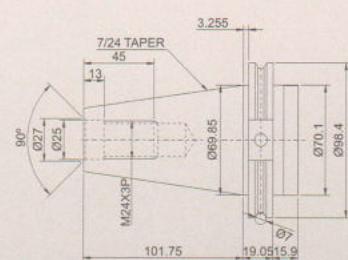
Tool Shank & Pull Stud Dimension

unit: mm

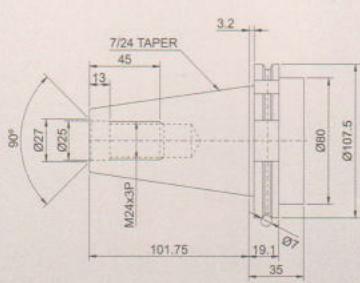
Tool shank (BT-50)



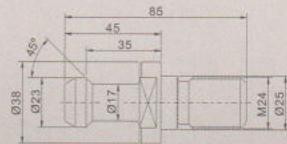
Tool shank (CAT-50)



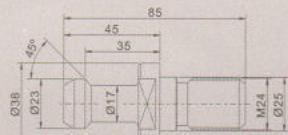
Tool shank (DIN-50, DIN69871)



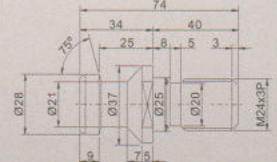
Pull stud bolt (P50T-1)



Pull stud bolt (CAT50)



Pull stud bolt (DIN-50, DIN69872B, ISO7388/2-4A)



Attachment Heads

Manual Attachments Heads



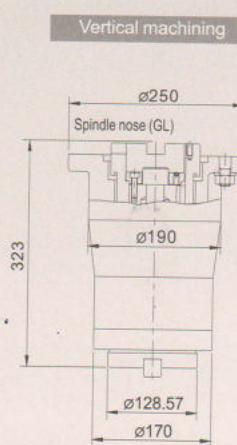
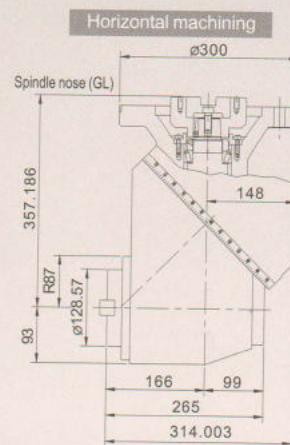
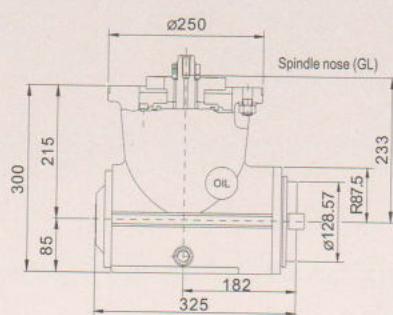
90° angular head



Universal head



Extended head

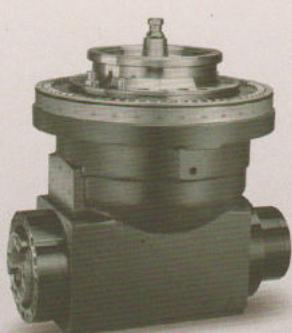


Max. power	11kW
Max. speed	2,000rpm
Spindle taper	#50
Head clamping	Manual
Axis indexing	Manual at C-axis

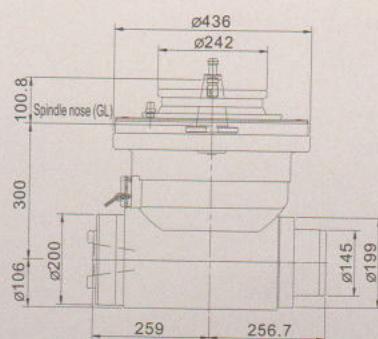
Max. power	11kW
Max. speed	1,200rpm
Spindle taper	#50
Head clamping	Manual
Axis indexing	Manual at A and C-axis

Max. power	11kW
Max. speed	2,000rpm
Spindle taper	#50
Head clamping	Manual
Axis indexing	Not available

Hydraulic Attachment Heads



AC 90° angular head



Max. power	26kW
Max. speed	3,000rpm
Spindle taper	#50
Head clamping	Hydraulic
Axis indexing	Auto angular indexing (1°, C-axis)

SF series

MODEL	UNIT	SF-2112	SF-2612	SF-3112	SF-4112
TRAVEL					
X axis	mm	2,100	2,600	3,100	4,100
Y axis	mm		1,200		
Z axis	Box way	mm		800	
	Linear way	mm		800	
Distance from spindle nose to table	Box way (2-step gear)	Z axis=800	mm		150-950
		Z axis=1,000	mm		130-1,150
	Linear way (Direct-driven / Built-in)	Z axis=800	mm	185-985 (BT 50) / 163-963 (BT 40)	
		Z axis=1,000	mm		-
Distance from spindle center to column	mm		453		
Distance between columns (port width)	mm		1,370		
TABLE					
Dimension	mm	2,000 x 1,100	2,500 x 1,100	3,000 x 1,100	4,000 x 1,100
T-slot (Width x Number x Pitch)	mm	22 x 7 x 150	22 x 7 x 150	22 x 7 x 150	22 x 7 x 150
Max. table load	kg	4,000	5,000	6,000	8,000
SPINDLE					
Spindle motor (Continuous / 30 minutes rated)	kW		18.5 / 22 (22 / 26 opt.)		
Spindle speed	Box way	2-step gear	rpm	6,000 / 4,500 (opt.)	
		Belt-driven	rpm	8,000 (opt.) / 10,000 (opt.)	
	Linear way	2-step gear	rpm	4,000 (opt.) / 8,000 (opt.)	
		Direct-driven	rpm	10,000 (BT-50)(opt.) / 15,000 (BT-40)(opt.)	
		Built-in	rpm	18,000 (opt.) / 24,000 (opt.)	
Spindle taper			ISO NO. 50	ISO NO. 50	ISO NO. 50
FEED					
Cutting feed rate	mm/min		1-10,000		
Rapid traverse	m/min		XY:24 Z:15		X:18 Y:12 Z:10
X, Y, Z motor (FANUC)	kW		XYZ:4		X:7 Y:5 Z:4
ACCURACY (X, Y, Z)					
Positioning accuracy	Refer to JIS B6333	mm	± 0.005 / 300, ± 0.015 / Full Travel		
	Refer to ISO 10791-2	mm	P0.02	P0.02	P0.03
Repeatability	Refer to JIS B6333	mm	± 0.003	± 0.003	± 0.003
	Refer to ISO 10791-2	mm	Ps0.015	Ps0.015	Ps0.025
ATC					
Tool storage capacity	pcs		32 / 40 (opt.)		
Max. tool weight	kg	18	18	18	18
Tool size (D x L) (Full tools)	mm	Ø125 x 380L	Ø125 x 380L	Ø125 x 380L	Ø125 x 380L
Max. tool size (D x L) (next pockets empty)	mm	Ø180 x 380L	Ø180 x 380L	Ø180 x 380L	Ø180 x 380L
Tool shank		BT 50 / CAT 50	BT 50 / CAT 50	BT 50 / CAT 50	BT 50 / CAT 50
Pull stud bolt		P50T-1	P50T-1	P50T-1	P50T-1
OTHERS					
Electric power consumption	kVA	45	45	45	45
Machine net weight	kg	20,500	22,500	24,500	28,000
Machine gross weight	kg	23,500	25,500	28,500	32,000
Max. space volume (L x W x H)	m	7.62 x 5.05 x 4.15	8.62 x 5.05 x 4.15	9.62 x 5.05 x 4.15	11.62 x 5.05 x 4.15

Standard Accessory & Function

- 01. Fanuc 0iMD controller
- 02. 6,000 rpm 2-step gear spindle (Box way)
- 03. Spindle and gear box cooling system
- 04. Twin hydraulic cylinders with pressured air assistance balance system
- 05. 32 tool magazine with arm type ATC
- 06. Centralized auto lubrication system
- 07. Independent lubrication oil collector for 3 axes (X/Y/Z)
- 08. Enclosure splash guard (without roof)
- 09. Working light
- 10. 3-color signal lamp
- 11. Air blast through spindle
- 12. Moveable manual pulse generator
- 13. Wash gun & pneumatic interface
- 14. RS232 interface
- 15. Absolute pulse coder feedback
- 16. Vision Wide VW-FX graphical user interface
- 17. Flood coolant system (Ring & Nozzle)
- 18. Heat exchanger for electrical cabinet
- 19. Twin chip screws on table side
- 20. Caterpillar type chip conveyor
- 21. Foundation pads & bolts kits
- 22. Tool kits
- 23. Operation manual, PLC & electrical circuit diagram



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SF-2116	SF-2616	SF-3116	SF-4116	SF-2120	SF-2620	SF-3120	SF-4120
2,100	2,600	3,100	4,100	2,100	2,600	3,100	4,100
1,600					2,000		
800					800		
800 / 1,000 (opt.)					800 / 1,000 (opt.)		
150-950					150-950		
130-1,150					130-1,150		
185-985 (BT 50) / 163-963 (BT 40)					185-985 (BT 50) / 163-963 (BT 40)		
185-1,185 (BT 50) / 163-1,163 (BT 40)					185-1,185 (BT 50) / 163-1,163 (BT 40)		
453					453		
1,700					2,100		
2,000 x 1,500	2,500 x 1,500	3,000 x 1,500	4,000 x 1,500	2,000 x 1,800	2,500 x 1,800	3,000 x 1,800	4,000 x 1,800
22 x 9 x 160	22 x 9 x 160	22 x 9 x 160	22 x 9 x 160	22 x 11 x 160	22 x 11 x 160	22 x 11 x 160	22 x 11 x 160
8,000	9,000	10,000	12,000	8,000	9,000	10,000	12,000
18.5 / 22 (22 / 26 opt.)					18.5 / 22 (22 / 26 opt.)		
6,000 / 4,500 (opt.)					6,000 / 4,500 (opt.)		
8,000 (opt.) / 10,000 (opt.)					8,000 (opt.) / 10,000 (opt.)		
4,000 (opt.) / 8,000 (opt.)					4,000 (opt.) / 8,000 (opt.)		
10,000 (BT-50)(opt.) / 15,000 (BT-40)(opt.)					10,000 (BT-50)(opt.) / 15,000 (BT-40)(opt.)		
18,000 (opt.) / 24,000 (opt.)					18,000 (opt.) / 24,000 (opt.)		
ISO NO. 50	ISO NO. 50	ISO NO. 50	ISO NO. 50	ISO NO. 50	ISO NO. 50	ISO NO. 50	ISO NO. 50
1-10,000					1-10,000		
XY:24 Z:15		X:18 Y:24 Z:15			XY:24 Z:15		X:18 Y:24 Z:15
XYZ: 4		X:7 YZ: 4			XYZ: 4		X:7 YZ: 4
± 0.005 / 300, ± 0.015/ Full Travel					± 0.01 / 300, ± 0.015/ Full Travel		
P0.02	P0.02	P0.03	P0.03	P0.02	P0.02	P0.03	P0.03
± 0.003	± 0.003	± 0.003	± 0.003	± 0.003	± 0.003	± 0.003	± 0.003
Ps0.015	Ps0.015	Ps0.025	Ps0.025	Ps0.015	Ps0.015	Ps0.025	Ps0.025
32 / 40 (opt.)					32 / 40 (opt.)		
18	18	18	18	18	18	18	18
Ø125 x 380L	Ø125 x 380L	Ø125 x 380L	Ø125 x 380L	Ø125 x 380L	Ø125 x 380L	Ø125 x 380L	Ø125 x 380L
Ø180 x 380L	Ø180 x 380L	Ø180 x 380L	Ø180 x 380L	Ø180 x 380L	Ø180 x 380L	Ø180 x 380L	Ø180 x 380L
BT 50 / CAT 50	BT 50 / CAT 50	BT 50 / CAT 50	BT 50 / CAT 50	BT 50 / CAT 50	BT 50 / CAT 50	BT 50 / CAT 50	BT 50 / CAT 50
P50T-1	P50T-1	P50T-1	P50T-1	P50T-1	P50T-1	P50T-1	P50T-1
50	50	50	50	50	50	50	50
20,000	22,000	24,000	27,500	21,000	23,000	25,500	29,500
23,500	25,500	28,000	31,500	24,500	26,500	29,500	33,500
7.62 x 5.45 x 4.15	8.62 x 5.45 x 4.15	9.62 x 5.45 x 4.15	11.62 x 5.45 x 4.15	7.62 x 5.85 x 4.15	8.62 x 5.85 x 4.15	9.62 x 5.85 x 4.15	11.62 x 5.85 x 4.15

© All specifications are subjected to change without prior notice.

Optional Accessory & Function

- 01. 4,000 / 4,500 / 8,000 rpm 2-step gear spindle
- 02. 8,000 / 10,000 rpm belt-driven spindle
- 03. 18,000 / 20,000 rpm Built-in spindle
- 04. 10,000 rpm direct-driven spindle
- 05. 40T / 60T tool magazine
- 06. Coolant through tool holder interface
- 07. Coolant through spindle system
- 08. HEIDENHAIN linear scale feedback
- 09. 200 / 300 /400 mm higher column extension
(Higher column 200 mm extended only for SF-xx12 series)
- 10. Sub working table
- 11. Oil skimmer
- 12. Oil mist cooling device
- 13. Rotary table
- 14. Interface preserved for rotary table
(Machine contains within the hose and oil tank)
- 15. 3-axis manual pulse generator
- 16. Automatic tool length measurement
- 17. Automatic work piece measurement
- 18. Manual clamping heads: 90 degree / extended / universal
- 19. Semi-auto clamping heads: 90 degree
- 20. Transformer
- 21. Chip cart
- 22. Z-axis retract function at power failure
- 23. Full enclosure splash guard



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VISION WIDE TECH CO., LTD.

No.43, 17th Industrial Rd., Taiping,
Taichung 41154, Taiwan
TEL: 886-4-2271 2000
FAX: 886-4-2271 2009
E-mail: info@visionwide.com.tw

Representative:

<http://www.visionwide-tech.com>

Vertical, Bridge, 5-Face Machining Center