

# Specifications

Models	VL-10i APC	
<b>Travel</b>		
X - Axis Travel	1030mm	
Y - Axis Travel	600mm	
Z - Axis Travel	560mm	
Spindle Center To Z - Rail	650mm	
Spindle Nose To Table	150-710mm	
<b>Table</b>		
Table Size	1000mm X 500mm	
T - Slot (number*width*pitch)	5 X 14mm X 100mm	
Maximum Table Load	250kg X 2	
<b>Automatic Pallet changer</b>		
The Workbench Number	2 Individual Pallets	
Table Change time	13 sec	
Rotary Angle	180°	
<b>Spindle</b>		
Spindle Taper	BT-40	
Type Of Driving	Belt Type	
Spindle RPM	50-10000 rpm	
<b>Feed Rate</b>		
X. Y Axis Rapid Feed Rate	36m/min	
Z Axis Rapid Feed Rate	36m/min	
X. Y. Z Max.Cutting Feed Rate	10m/min	
<b>Automatic tool changer</b>		
Arm Type (Tool to Tool)	24T (3sec)	
Max.Tool Diameter*Length (Adjacent)	Φ150 X 300mm (Φ78X 300mm)	
Max. Tool Weight	8 kg	
<b>Motors</b>		
	Fanuc	Mitsubishi
Spindle Motor (RATED / MAX)	11 kw / 15kw	7.5 kw / 11kw
X. Y Axis Servo Motor	3.0kw	2.0kw
Z Axis Servo Motor	3.0kw BS	3.0kw BS
<b>Machine Accuracy</b>		
Positioning Accuracy (JIS)	± 0.005mm / 300mm	
Repeat Poitioning Accuracy (JIS)	± 0.003mm	
<b>Other</b>		
Approximate Weight	10000kg	
Floor Space Measurement	2850mm X 4000mm X 3100mm	

★ \*SPECIFICATIONS SUBJECT TO CHANGED WITHOUT PRIOR NOTICE. THANKS!

## Standard Features

- FANUC 0i-MF Plus 10.4" LCD screen
- Arm type ATC (24T)
- Spindle coolant system
- Heat exchanger for control cabinet
- Chip flush / Back chip flush
- Auto lubrication system
- Auto power off / Rigid tapping
- Work lamp / Three color light
- Air blast through spindle
- RS232 interface
- CF card interface
- Remote manual pulse generator (MPG)
- High pressure coolant & air gun
- Leveling screws with blocks
- Tool box & tool
- Full splash guard
- System operation and procedures manual
- Machine manual

## Optional Features

- Mitsubishi / Siemens controller
- BT-40 Direct type spindle 10000/12000/15000rpm
- Around spindle cutting coolant unit
- Column raised (200mm / 300mm)
- Chain type chip conveyor with cart
- Tool length measurement system
- Coolant through spindle (20bar / 30bar / 50bar)
- Electric cabinet A/C unit
- Three axis optical scale (HEIDENHAIN)
- Air counter balance



# VL-10i APC



## CNC VERTICAL MACHINING CENTER WITH APC SYSTEM

ECOM VL-APC offers a space-saving, high-precision, and high-performance Vertical CNC Machining Center with two individual pallets.



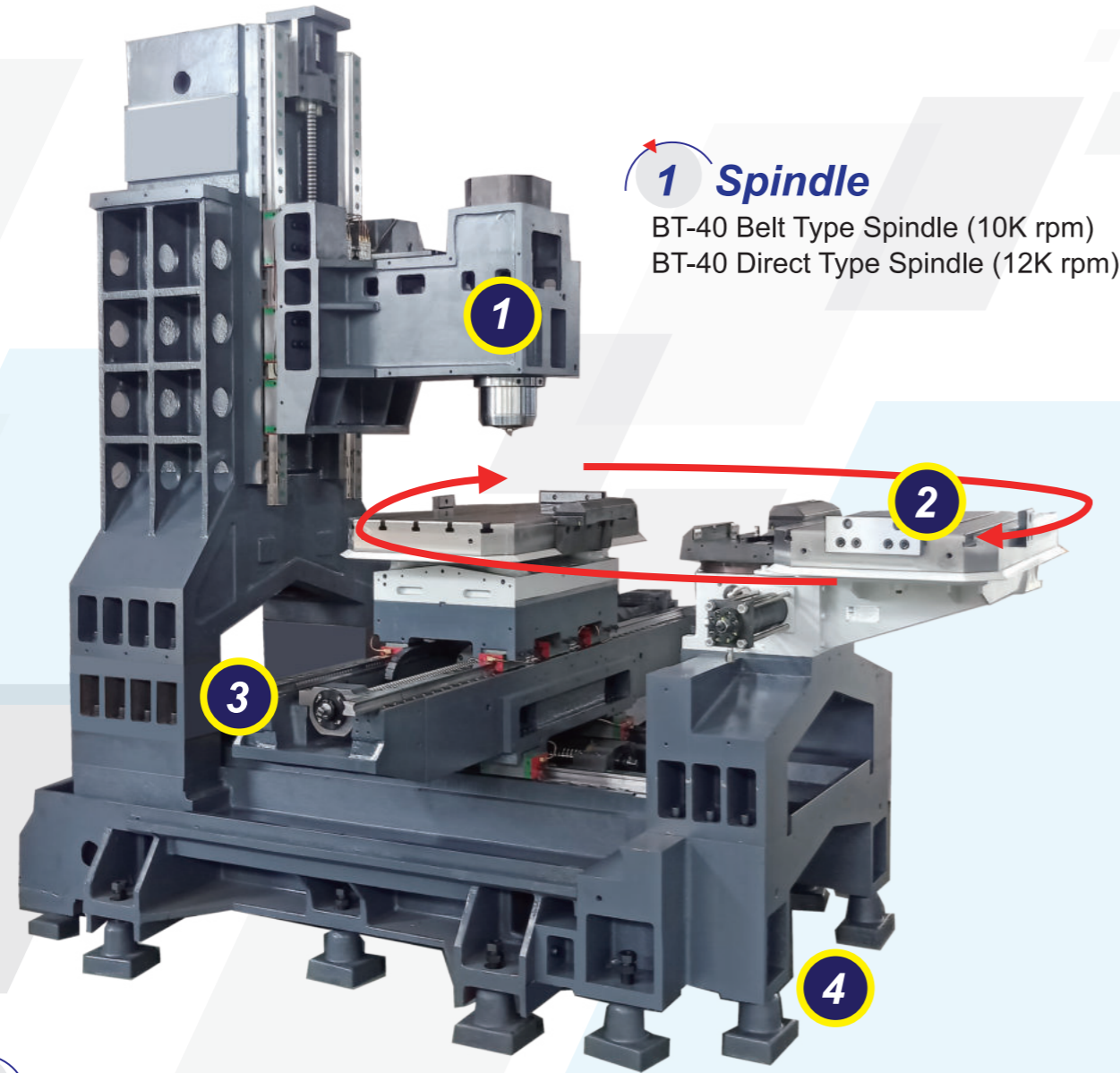
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# ECOM VL-10i APC



## 1 Spindle

BT-40 Belt Type Spindle (10K rpm)  
BT-40 Direct Type Spindle (12K rpm)

- 1 Simplifying Processes: Each pallet is hydraulically locked with four taper cones for high accuracy positioning.
- 2 Improve Productivities: The VL- 10i APC allows customers to process complex machinings such as milling, drilling, boring, and more. Ideal for mass production applications on two individual pallets.



## 2 Automatic Pallet Changer

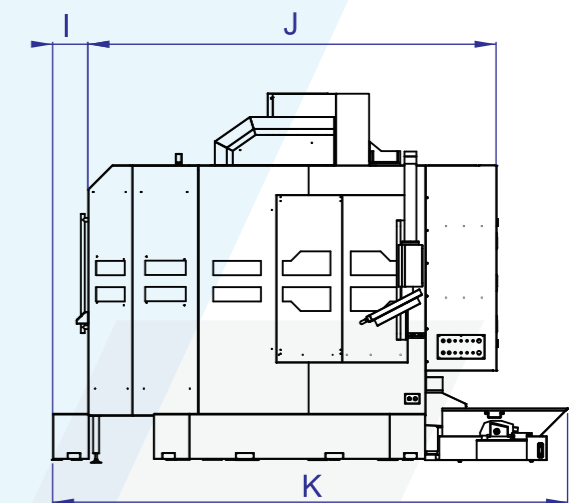
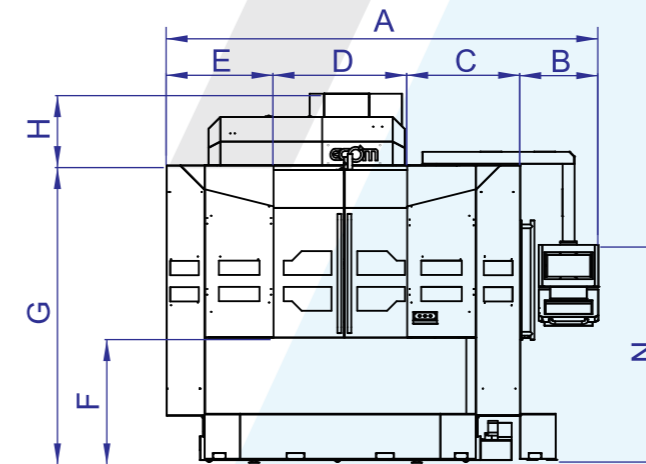
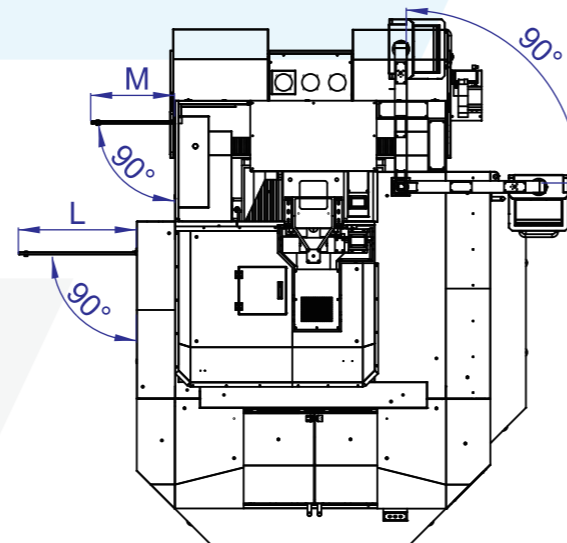
13 sec Table Change time  
180° Rotary Angle  
Clamping Method : Hydraulic  
Pallet Locking Method : Locking by 4 Taper Cones

## 3 Linear Guideways

6 Heavy Duty Roller Blocks on X and Z Axis  
3 Axis Design with Precision  $\Phi$  40 Ball Screw.

## 4 Base

Made of Solidly Meehanite Cast Iron  
Heavy-Duty and High-Rigidity Base  
Herringbone Base Design  
Outstanding Stability  
Nine Leveling Bolts for High Stability Design



Models	Unit	A	B	C	D	E	F	G	H	i	J	K	L	M	N
VL-10iAPC	mm	3616	655	946	1120	895	1050	2492	603	295	3420	4314	990	702	1802