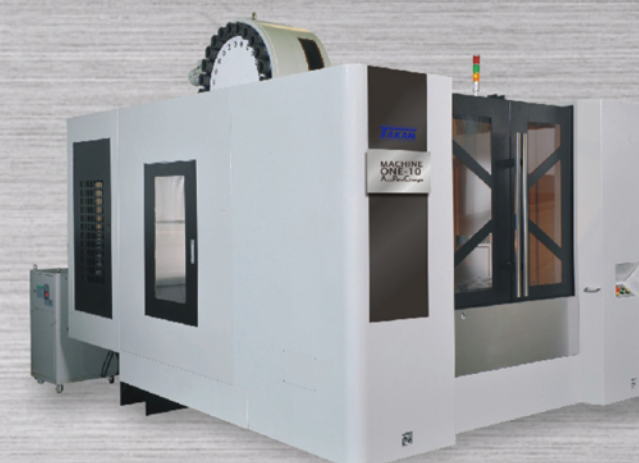




M-One APC Series by Takam



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INTRODUCING
THE TAKAM
M-One APC Series

High Speed CNC Vertical Auto Pallet Change Machining Center

With globe demand increasing, limited factory floor space, and shortage of labor force.

Many companies have been looking for solutions that can help with these increasing problems.

Look no further, Takam machinery once again has the solution to increase production with the uses of smaller limited factory floor space.

Introduction the M-One APC Series. With the M-One APC Series get 25% to 60% increase in productivity from one machine.

By not having to stop the machine after every machining cycle, this machine can work non-stop while you are changing your work pieces.

Not only can this machine increase your productivity, it can also decrease the usage of your plant floor.

The M-One Series machine only needs an extra 30% of your floor space compare to a standard vertical machining center.

Takam machinery once again brings the M-One APC Series machining center with "endless innovation".

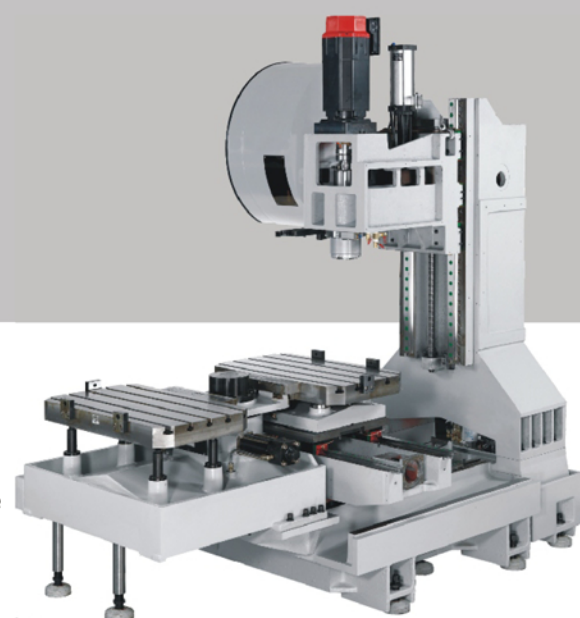


M-One APC Series by Takam



FOUNDATION FOR QUALITY

The Perfect Platform No matter what the project a house, a skyscraper, or a suspension bridge the soundness of the structure is determined by the sturdiness of the foundation. The same principle applies to our APC machining centers. It all starts with the base and column structures. How well the machine cuts is tied to the sturdiness of the basic structure.



High Quality Industrial Cast-Iron Structure Cast iron provides up to ten times the damping capacity of steel. That's why Takam uses cast iron for all major components. Our castings are reinforced with heavy ribs to resist flex and damp vibrations, and inspected thoroughly before and after machining to ensure they are free of flaws.

Wide-Stance Design Our wide-stance design allow maximum structural loading with efficient use of materials. They provide a rigid and stable machining platform that resists flex, distributes cutting forces effectively, and making the machine more stable regardless of the direction of the cutting force.

Ball screw

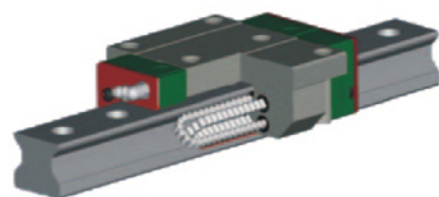
M-One models uses high accuracy ballscrews constructed of high quality important materials that have been heat treated to prevent wear from usage.

Also, the ballscrews are created with inner tubing. This design reduces noise from ballscrews travel by 20-40% compare to other standard ballscrews.



Linear guideway roller

All M-One series models uses roller type linear guide way. High strength rollers have a great weight load capacity. Furthermore, the roller type guide ways are designed to have unbelievable tilt resistance. With P-grade roller type linear guide ways, perfect flatness is guaranteed from every part machined.



Spindle Features

- Built in (High Speed Equipment)
- Belt Driven (Standard Equipment)
- In-Line (Mid Range Equipment)
- 2-Step Gear Box (Heavy Duty Equipment)



Control Panel



4 way swivel control panel

The M-One APC model machining center features one and only 4 way swivel control panel. By being able to swivel multiple axis, the user can adjust the monitor to the perfect viewing position that the operator desires.



Chip removal back wash

The M-One APC Series does not stop working. Therefore all M-One APC series come with standard chip removal back wash system. With the limited amount of time allowed to clean the machine, the chip removal back wash system will do the cleaning for you.

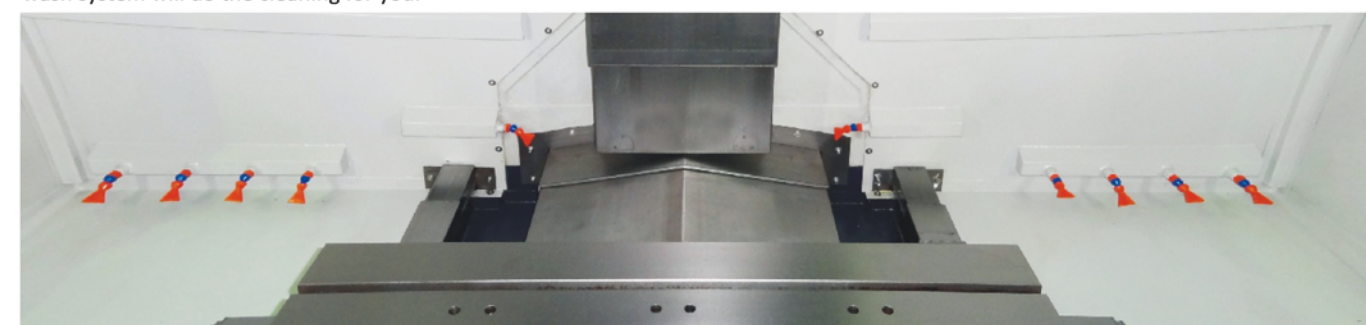
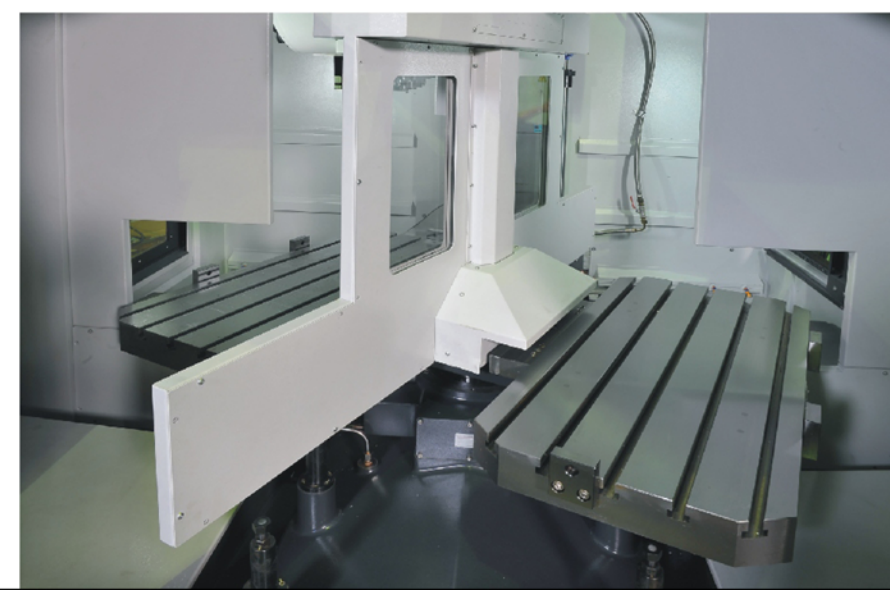


Table change time

When every second counts, a fast table change is very important. We the M-One APC fast table change is what we do. Our table change time from the moment of lift off with complete 180 degree turn only takes less than 7 seconds.



M - One APC Series

Machine Specifications:

		M-On e6	M-On e8	M-On e10
TABLE				
Work Table Size	mm	600 x 400	850 x 500	1000 x 500
Work range	mm	600 x 400	850 x 500	1000 x 500
Number of Pallets	piece	2	2	2
T-Slot of tables	mm	100*14*3	100*18*5	100*18*5
Table Change Time	Sec.	5	5	5
Max Weight on Table	kgs	200 x 2	300 x 2	300 x 2
TRAVEL				
X Axis	mm	600	850	1000
Y Axis	mm	400	500	500
Z Axis	mm	500	600	600
Spindle Nose to Table(min to max)	mm	110-610	150-750	150-750
SPINDLE				
Spindle Taper		ISO40	ISO40	ISO40
Spindle Max Speed	r.p.m.	(ISO40)10,000rpm,(ISO50)6,000rpm		
Drive Type		Belt Driven		
Spindle motor	kw	5.5	7.5	11
ATC				
Tool Quantity		24Tools	24Tools	24Tools
Tool change type		Arm Type	Arm Type	Arm Type
Max. tool diameter&length	mm	φ80/300	φ80/300	φ80/300
Max. tool weight	kgs	7	7	7
Handle Type		ISO40 (BT,CAT,DIN, HSK, SK)		
Tool change time		T-T:1.8	T-T:1.8	T-T:1.8
MOTOR				
Servo motor X/Y/Z axis-FANUC	kw	1.8/1.8/1.8BS	2.5/2.5/2.5	2.5/2.5/2.5
Servo motor X/Y/Z axis-MITSUBISHI	kw	2.0/2.0/3.0BS	2.0/2.0/3.5BS	2.0/2.0/3.5BS
3-Axis cutting feed rate	mm/min	12000	12000	12000
3-Axis rapid feed rate	M/min	36/36/36	24/24/24(36)	24/24/24(36)
OTHER				
Machine Size	L*W*H(M)	2270 x 3400 x 2300 mm	2810 x 5570 x 3300 mm	3660 x 5160 x 3300 mm
Machine Weight	kgs	4000	6500	7500

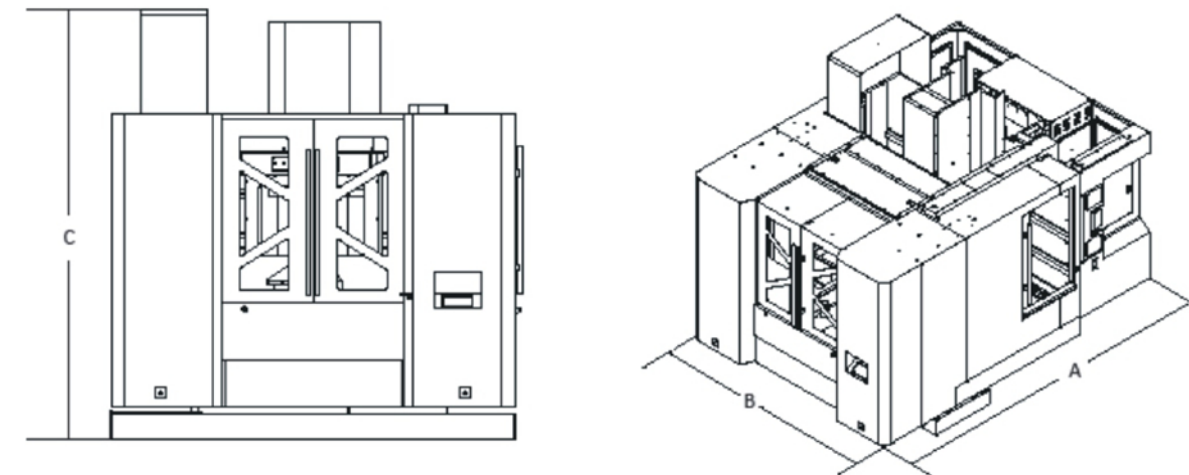
STANDARD ACCESSORIES

Arm Type Automatic Tool Changer BT-40 (24-tools)	Rigid tapping
Fully Enclosed Guard	Tool Box
Swiveling Control Box	Leveling Screws & Blocks
Low Energy Work Light	Operation Manual
LED 3 Color Warning Light	Mechanical Oil Coolant Separator
Volumetric Type Automatic Lubricator	Air Gun
Coolant and Chip Flushing System	Screw Type Chip Conveyor
Auto Power Off	Chip Wash System

OPTIONAL ACCESSORIES

Arm Type Automatic Tool Changer BT40 (32-Tools)
Chain Type Automatic Tool Changer BT40 (32/40-Tools)
Arm Type Automatic Tool Changer BT50 (24-Tools)
Chain Type Automatic Tool Changer BT50 (32-Tools)
Coolant Through Spindle (CTS)
Transformer
Chain Chip Conveyor
Linear Scale
CNC Rotary Table
Automatic Tool Probe
Automatic Tool Setter
Maple 2-Step Gear Box-BT40 (6000,8000,10000 rpm)
Maple 2-Step Gear Box-BT50 (6000,8000 rpm)

Machine layout



M-One APC Series Machine Dimensions

Series	M-One6 APC	M-One8 APC	M-One10 APC
Dimension A	3200 mm	3700 mm	3700 mm
Dimension B	2070 mm	2270 mm	2656 mm
Dimension C	2720 mm	2870 mm	2870 mm

Machine APC work table size and diagram

