

Persuing Excellence - Winning Respect

Machine
WINNER
台灣威諾斯漢 CE

Taiwan Headquarter

TAIWAN WINNERSTECH MACHINERY CO., LTD.
37, Lane 282 North 6th, Sec. 4, Changping Rd.,
Daya Dist., Taichung City 42850, Taiwan.
TEL +886-4-2565-2092(3) • FAX +886-4-2565-2391
E-mail: info@winnerstech.com.tw
www.winnerstech.com.tw

China Factory

NANJING WINNER TECHNOLOGIES CO., LTD.
No.1-2, Fengyuan Road, Guabu Town, Luhe District, Nanjing
TEL +86-025-57633338 Fax +86-025-57632338
www.winner.tw.cn

Agent/Dealer/Distributor

16011301 Mac's TEL: 012735326

HIGH SPEED
TAPPING / DRILLING CENTER

www.winnerstech.com.tw



TAP-510 / AP-500

HIGH EFFICIENCY AND STABILITY

TAIWAN WINNERSTECH high performance Tapping/Drilling Center integrates the features of high speed and maximum stability. The series of machines enhances the structural design to assure the best dynamic and static durability. They are equipped with a 10000rpm high speed spindle, combined with 48 m/min. rapid traverse rate on 3-axes making an optimistic integration for high speed, high accuracy and efficiency.



Tapping/Drilling Machine

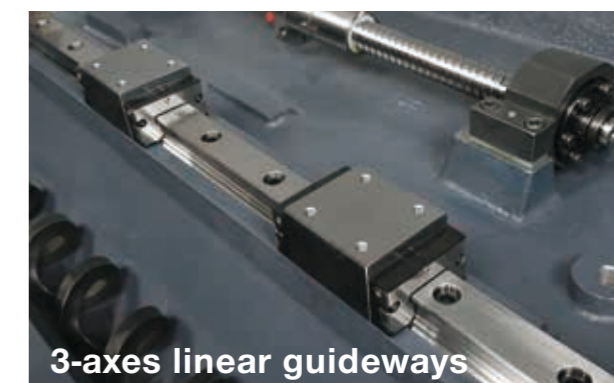
Features

- The stable low gravity machine base offers a solid foundation for the entire machine. The strong inner ribs provide long lasting dynamic and static accuracy.
- Extra wide span between linear ways exhibits exceptional stability to absorb cutting vibration; free from overhang problems.
- 10000rpm direct-drive spindle (STD) equipped with BT-30 spindle taper leads for high machining efficiency but stays in low-noise.
- 12000/20000rpm as alternative choices for some other particularly material cutting.



WIDE INTERIOR SPACE

- Wide interior space features efficient chip evacuation and easier change parts.
- Two independent-controlled pumps respectively for spindle cutting and for chip enclosure's coolant flush.



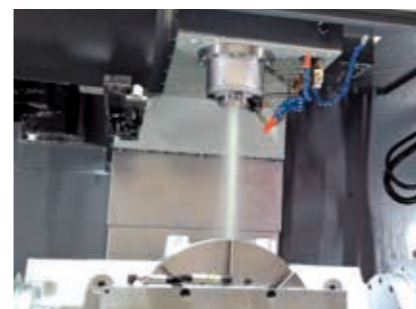
3-axis linear guideways

APC-500 PALLET CHANGER

ACCOMPLISH AND DESIGN FOR HIGH-PRODUCTIVITIES



Options



COOLANT THROUGH SPINDLE(CTS)
The optional Coolant Through Spindle (CTS) help to increase the higher cutting speed, chips removable upon deep-hole drilling and fine finishing of pocket milling.



TOOL MEASUREMENT
Simplified tool measurement either for tool length or tool outer diameter can be activated with initial M codes for breakage detect and also auto compensation.



BT-30 SPINDLE TAPER
An innovative 10,000 rpm, in-line direct-drive spindle is coupled directly to the motor. It is also available for higher spindle speed up to 20,000rpm as optional choice.



4TH/ 5TH AXIS ROTARY TABLE
4th / 5th axis rotary table available for multi-sides machining. The reduced set-up brings higher productivity and absolute parts accuracy.



ELECTRICAL CABINET
High quality of wiring panels complied with CE standard.



SPINDLE OIL COOLER
Spindle oil cooler can be good helps to keep normal temperature when spindle high speed & long time running.



Auto Pallet Change System

- Hydraulic drive, high loading capacity; also easy for fixture mounting.
- Fast pallet change & employs high precision conical positioning blocks to ensure stability while pallet changing.
- Available for twin-table equipped to meet small lot but flexible production.



Controllers

FANUC / MITSUBISHI controllers are user-friendly human-computer interface for easy operation; the control panel meets the safety requirement and rotates easily for operation.



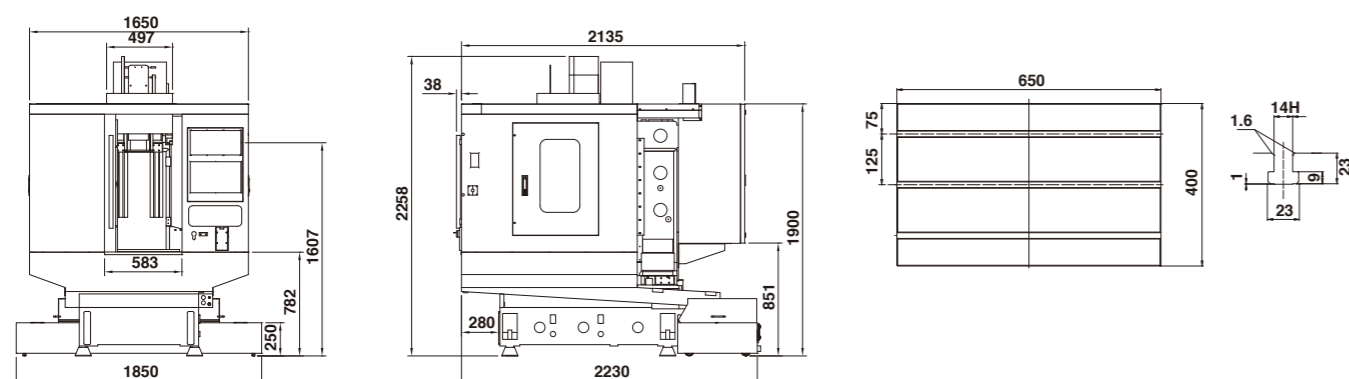
Specification

	Unit	AP-500	APC-500
Work Table			
Working table size	mm	650 x 400	600 x 400 * 2 pcs
T - slots	mm	14 x 3 x 125	18 x 3 x 125
Max. table load	kg	200	200 * 2
Travel			
X axis travel	mm	500	500
Y axis travel	mm	400	400
Z axis travel	mm	300	300
Spindle nose to table surface	mm	130-430	130-430
Spindle center to column	mm	410	410
Spindle			
Transmission		Direct driving	Direct driving
Spindle speed	rpm	10000	10000
Spindle motor	kw	3.7 / 5.5	3.7 / 5.5
X-Y-Z motor output(Fanuc)	kw	1.2 / 1.2 / 1.8	1.2 / 1.2 / 1.8
X-Y-Z motor output(Mitsubishi)	kw	1.5 / 1.5 / 2.2	1.5 / 1.5 / 2.2
Feed			
Rapid feed	m/min	48 / 48 / 36	48 / 48 / 36
Cutting feed rate	m/min	10	10
ATC System			
ATC type		Turret type /Indexing mechanism	
Spindle taper		BT-30	BT-30
Tool no.	pcs	16T	16T
Max. tool length	mm	200	200
Max. tool weight	kg	3	3
Tool to tool time	sec	1.6	1.6
Air pressure			
Air pressure requirement	kg/cm ²	6	6
Machine's Diameter			
Floor occupation	mm	2230 x 1850	2723 x 1850
Machine weights	kg	2300	2500

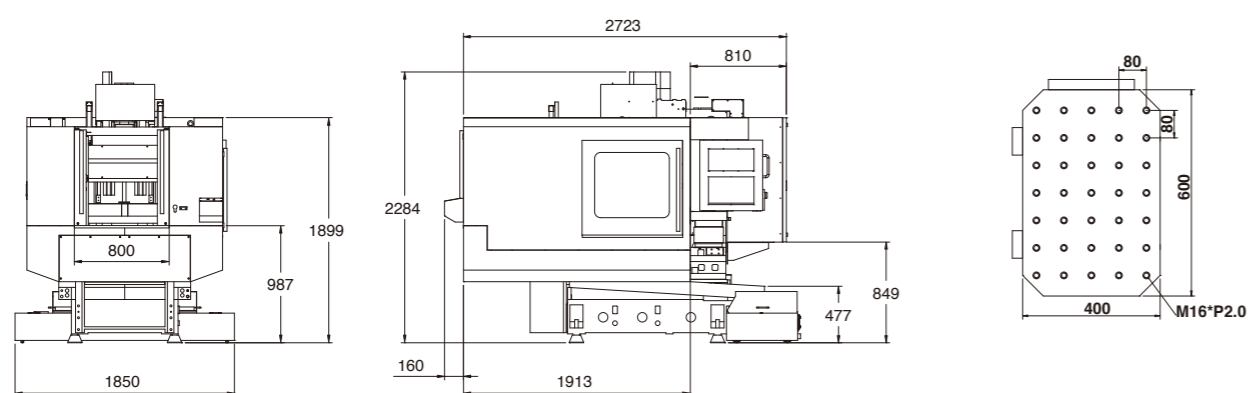
Turret Type ATC - 16T (STD)

- BT-30 spindle tool shank
- Turret type ATC features fast and stable tool change.
- Random and bi-directional tool section.
- Mechanical tool-unclamp mechanism features extremely smooth motion.
- Accurate cam system design for synchronous tool knocking.

Model Dimensions



AP-500



APC - 500

Standard Accessories

- 1 Rigid tapping
- 2 Cooling device
- 3 Full enclosed guard
- 4 Auto lubrication system
- 5 RS232 transmission interface
- 6 Heart exchanger
- 7 Work lamp
- 8 Alarm Indicator
- 9 Tool kits & foot pad screws
- 10 Maintenance / Operation manual

Optional Accessories

- 1 FANUC / MITSUBISHI controller
- 2 Chip conveyor
- 3 4th & 5th axis rotary table
- 4 Spindle speed upgrade
12000rpm / 20000rpm(Direct-drive)
- 5 Spindle cooling system
- 6 Auto tool length measurement
- 7 Work-piece measurement
- 8 Disc oil / coolant separator
- 9 Coolant through spindle (CTS)
- 10 Spindle splash surround
- 11 Electric cabinet air conditioner
- 12 Automatic voltage stabilizer
- 13 Transformer