

General catalog

HIGH QUALITY
SUPER RIGIDITY
EXTREME VERSATILITY

Persuing Excellence • Winning Respect

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.cnc-winner.com
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

Agent/Dealer/Distributor

2011.12.01 **ACTS** TEL: 04-2755526



www.winnerstech.com.tw

WORLD CLASS VMC ACCOMPLISH FOR HIGH PRODUCTITIES

TAIWAN WINNERSTECH Machinery Co., Ltd. was established as a processing plant in 1992 at Taichung in the centre of Taiwan. With the spirit of "Pursuing Excellence, Winning Respect" we take it as the philosophy of enterprise.

ADVANCED TECHNOLOGIES

Taiwan Winner has a complete series of products, covering the X-axis stroke size from 500mm to 2100mm, to meet the needs of different industrial fields.

These precision machines have significantly improved the efficiency, providing the qualified machines meets the requirements of pretty sophisticated molds/parts, and have been widely used in many industries as well as automotive parts, 3C components, medical equipment, and aerospace parts .

CONTINUOUS RESEARCH AND DEVELOPMENT

Taiwan Winner has been innovating for many years and providing fast after-sales service online to support global customers/distribution system. WINNER brand products not only sell well all over the country, but also successfully enter important markets such as Europe, Russia, Southeast Asian countries, Japan, and South Korea.

PURSUING EXCELLENCE, WINNING RESPECT

Through various resources, innovative design, and strict quality assurance system, Taiwan Winner is confident in providing complete solutions for global customers/distributors and becoming your best partner.



www.cnc-winner.com
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LINEAR WAY SERIES

For A model, the X/Y/Z axis adopt heavy duty linear ways; E model, X-Y axis to be equipped with roller type linear ways and Z axis is designed by box way type particularly. Not only to guarantee the smoothly movement on X-Y axis, but also not losing any rigidity while Z-axis moving with its work head.

VMC A750



VMC A/E 850/1000/1100



VMC E1400/1901/2101



BOX WAY SERIES

For the D model, the X/Y/Z axis adopt precision ground box-shaped rails; L model having 3-axis box-shaped rails and Y-axis is also designed with 4 slide rails. Through precise hand scraping, the machine exhibits the best reliability, creating the most outstanding performance.

VMC D/E 850/1000



VMC L1100/1300



VMC L1601/1801



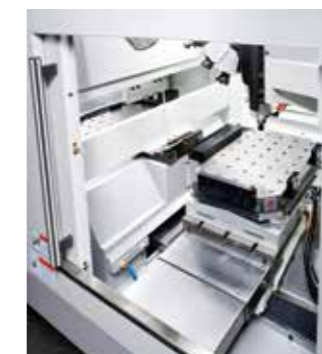
HIGH SPEED TAPPING / DRILLING CENTER

The model AP 500 has strong structure design for heavy cutting, milling, tapping & side machining which perform for high efficiency. AP series is good for multi-sides and shapes machining as well, targeting the jobs for IT components, Auto parts, light alloy formed parts and the most of the other special material works.

TAP 510 / AP 500



APC 500 /600 PALLET CHANGER



Turret Type ATC (16T)

VMC A750

ANTI-FLEX, REINFORCED CASTING

The strong casting is characterized by anti-flex and vibration-absorbing ribs, enhance the precision will not be affected due to the vibration generated by processing. The X, Y, and Z axes all adopt roller type linear ways, which are heavy duty rails, prevent the load deformation.



VMC A/E 850 / 1000 / 1100

X-AXIS ADOPTED ROLLER LINEAR WAY

Ensure that the X-axis does not deform when it moves full stroke. In addition, the E-type machine is equipped with a box-shaped guide rail on the Z-axis to keep high rigidity, low noise and low friction. fast feed rate and contour cutting accuracy are realized.



VMC E1400 / 1901 / 2101

SUPER STRONG 4-GUIDEWAYS ON Y-AXIS

The Y-axis stroke design surpasses products of the same level, bringing the greatest advantage to the processing of large workpieces. The high-horsepower spindle motor is selected for a wide range of uses. The ZF gearbox can be optionally equipped with high torque output.



SPECIFICATION	UNIT	A750	A / E 850	A / E 1000	A / E 1100	
WORKING TABLE	Working table size (LxW)	mm	800 x 460	1000 x 560	1150 x 600	1150 x 600
	T - slots	mm	18 x 3 x 125	18 x 5 x 100	18 x 5 x 100	18 x 5 x 100
	Max. table load	kgs	500	600	600	800
TRAVEL	X axis travel	mm	750	850	1000	1100
	Y axis travel	mm	460	560	600	600
	Z axis travel	mm	540	560	600	600
	Spindle nose to table surface	mm	120 - 660	120 - 680	120 - 720	120 - 720
SPINDLE	Transmission		Belt - Drive			
	Spindle taper		BT - 40	BT - 40	BT - 40	BT - 40
	Spindle speed	rpm	10000	8000	8000	8000
	Spindle motor	kw	5.5 / 7.5	7.5 / 11	7.5 / 11	7.5 / 11
FEED	X-Y-Z motor output (Fanuc)	kw	1.8 / 1.8 / 3	3 / 3 / 3	3 / 3 / 3	3 / 3 / 3
	X-Y-Z motor output (Mitsubishi)	kw	2.2 / 2.2 / 3	3 / 3 / 3	3 / 3 / 3	3 / 3 / 3
	X-Y-Z rapid travel	M/min.		A: 36 / 36 / 30	E :36 / 36 / 24	
	X-Y-Z cutting feed rate	M/min.	10	10	10	
ATC SYSTEM	ATC Type		Arm Type			
	Magazine capacity	pcs	24	24	24	24
	Max. tool diameter	ø(mm)	80	100	100	100
	Max. tool length	mm	200	300	300	300
RAIL TYPE	Max. tool weight	kgs	7	8	8	8
			A series - 3 axis lineaway			
DIMENSION & OTHERS	Power consumption	KVA	15	15	15	20
	Air pressure required	kg/cm ²	6 - 8	6 - 8	6 - 8	6 - 8
	Floor occupation (LxWxH)	cm	260 x 230 x 255	260 x 230 x 255	310 x 290 x 270	310 x 365 x 270
	Machine weights	kgs	4300	6800	7000	7200

SPECIFICATION	UNIT	E1300	E1400	E1901	E2101	
WORKING TABLE	Working table size (LxW)	mm	1500 x 710	1500 x 710	2050 x 1000	2250 x 1000
	T - slots	mm	18 x 7 x 100	18 x 7 x 100	18 x 7 x 150	18 x 7 x 150
	Max. table load	kgs	1000 - 1200	1000 - 1200	2900	3000
TRAVEL	X axis travel	mm	1300	1400	1900	2100
	Y axis travel	mm	650	700	900	1000
	Z axis travel	mm	650	700	900	900
	Spindle nose to table surface	mm	120 - 670	120 - 820	200 - 1000	200 - 1000
SPINDLE	Transmission		Belt - Drive			
	Spindle taper		BT - 40	BT - 40	BT - 50	BT - 50
	Spindle speed	rpm	8000	8000	6000	6000
	Spindle motor	kw	11 / 15	11 / 15	15 / 18.5	15 / 18.5
FEED	X-Y-Z motor output (Fanuc)	kw	3 / 3 / 4	3 / 3 / 4	7 / 7 / 7	7 / 7 / 7
	X-Y-Z motor output (Mitsubishi)	kw	3.5 / 3.5 / 3.5	3.5 / 3.5 / 3.5	7 / 7 / 7	7 / 7 / 7
	X-Y-Z rapid travel	M/min.	20 / 20 / 20	20 / 20 / 20	15 / 15 / 15	15 / 15 / 12
	X-Y-Z cutting feed rate	M/min.	10	10	8	8
ATC SYSTEM	ATC type		Arm Type			
	Magazine capacity	pcs	24	24	24	24
	Max. tool diameter	ø(mm)	100	100	125	125
	Max. tool length	mm	300	300	300	300
RAIL TYPE	Max. tool weight	kgs	10	10	15	15
			E series - Z boxway & X-Y linearway / Y- 4 guideway (for 1300/1400 and larger models)			
DIMENSION & OTHERS	Power consumption	KVA	25	25	25	25
	Air pressure required	kg/cm ²	6 - 8	6 - 8	6 - 8	6 - 8
	Floor occupation (LxWxH)	cm	385 x 350 x 270	385 x 350 x 270	510 x 435 x 335	510 x 435 x 335
	Machine weights	kgs	8500	8900	18500	20000

VMC D850 / 1000

STABLE STRUCTURE DESIGN

The main structural parts are made of super strong cast iron. Their structure is stable and proven. The wide base and box-shaped column facilitate heavy duty machining capabilities.



VMC L1100 / 1300

WIDE BASE \ REINFORCED SADDLE

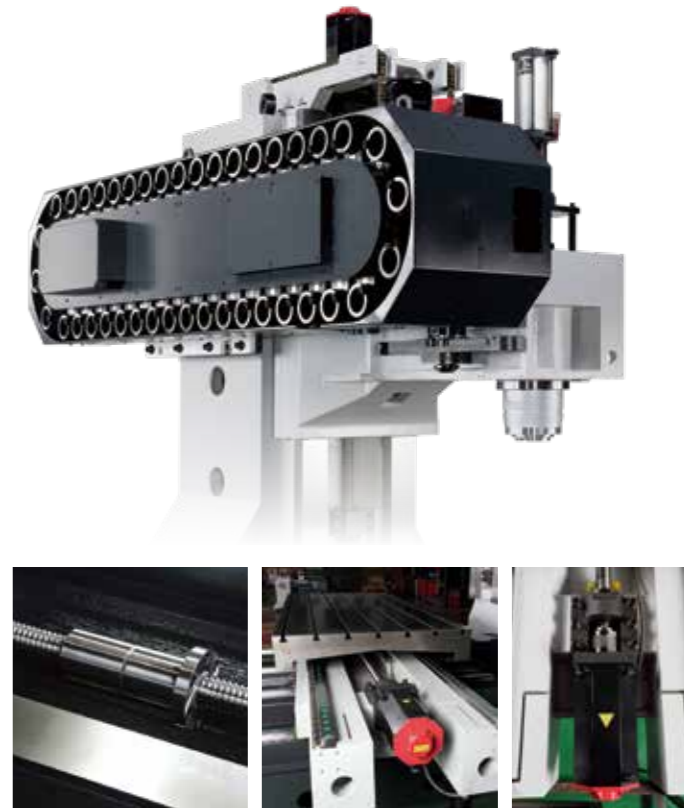
The 4 guide rails on the Y axis ensure that the machine will not be deformed by the load, and the reliability and repeatability are guaranteed. The wide base, box column, reinforced saddle and fully supported work table structure all contribute to heavy-duty machining capabilities.



VMC L1601 / 1801

4-SLIDE GUIDE RAILS ON Y-AXIS

The one-piece solid body and 4 guide rails on the Y axis are precision ground to provide excellent reliability. Superior rigid construction enables precise and long-lasting performance in heavy-duty cutting applications. ZF gearbox is available for high torque requirements.



SPECIFICATION		UNIT	D850	D1000	L1100
WORKING TABLE	Working table size	mm	1000x560	1150x560	1200x610
	T - slots	mm	18x5x100	18x5x100	18x5x100
	Max. table load	kgs	500	650	800
TRAVEL	X axis travel	mm	850	1000	1100
	Y axis travel	mm	560	560	650
	Z axis travel	mm	560	560	610
	Spindle nose to table surface	mm	150-710	150-710	150-760
SPINDLE	Transmission			Belt - Drive	
	Spindle taper		BT - 40	BT - 40	BT - 40
	Spindle speed	rpm	8000	8000	8000
	Spindle motor	kw	7.5 / 11	7.5 / 11	11 / 15
FEED	X - Y - Z motor output (Fanuc)	kw	3 / 3 / 3	3 / 3 / 3	3 / 3 / 3
	X - Y - Z motor output (Mitsubishi)	kw	3 / 3 / 3	3 / 3 / 3	3.5 / 3.5 / 3.5
	X - Y - Z rapid travel	M/min	24 / 24 / 18	24 / 24 / 18	24 / 24 / 18
	X - Y - Z cutting feed rate	M/min	10	10	10
ATC SYSTEM	ATC type			Arm type	
	Magazine capacity	pcs	24	24	24
	Max. tool diameter	ø (mm)	100	100	100
	Max. tool length	mm	300	300	300
	Max. tool weight	kgs	8	8	10
RAIL TYPE	3 - axes boxway; X - Y - Z boxway / Y-axis 4 guideway				
DIMENSION & OTHERS	Power consumption	KVA	15	15	20
	Air pressure required	kg/cm ²	6	6	6
	Floor occupation	cm	310x330x270	310x330x270	385x360x300
	Machine weights	kgs	6800	7000	8200

SPECIFICATION		UNIT	L1300	L1601	L1801
WORKING TABLE	Working table size	mm	1500x710	1860x1000	1970x1000
	T - slots	mm	18x5x140	18x7x120	18x7x120
	Max. table load	kgs	1200	2000	2200
TRAVEL	X axis travel	mm	1300	1600	1800
	Y axis travel	mm	700	900	900
	Z axis travel	mm	610	800	800
	Spindle nose to table surface	mm	150-760	210-1010	210-1010
SPINDLE	Transmission			Belt - Drive	
	Spindle taper		BT - 40	BT - 50	BT - 50
	Spindle speed	rpm	8000	6000	6000
	Spindle motor	kw	11 / 15	15 / 18.5	15 / 18.5
FEED	X - Y - Z motor output (Fanuc)	kw	3 / 4 / 4	7 / 7 / 7	7 / 7 / 7
	X - Y - Z motor output (Mitsubishi)	kw	3.5 / 3.5 / 3.5	7 / 7 / 7	7 / 7 / 7
	X - Y - Z rapid travel	M/min	24 / 24 / 18	18 / 18 / 18	16 / 16 / 16
	X - Y - Z cutting feed rate	M/min	10	8	8
ATC SYSTEM	ATC type			Arm type	
	Magazine capacity	pcs	24	24	24
	Max. tool diameter	ø (mm)	100	125	125
	Max. tool length	mm	300	300	300
	Max. tool weight	kgs	10	15	15
RAIL TYPE	3 - axis boxway; X - Y - Z boxway / Y-axis 4 guideway				
DIMENSION & OTHERS	Power consumption	KVA	25	25	25
	Air pressure	kg/cm ²	6	8	10
	Floor occupation	cm	385x360x300	460x405x325	500x425x330
	Machine weights	kgs	8500	16000	18000

TAP 510 / AP 500

HIGH PROCESSING EFFICIENCY

The 3-axis of the machine tool adopt linear guide rails to achieve super load capacity and rigidity, realize ultra-high-precision operation, prolong the life of the machine tool. The BT-30 direct-drive spindle for tapping, which has high processing efficiency and low noise.



APC 500 / 600

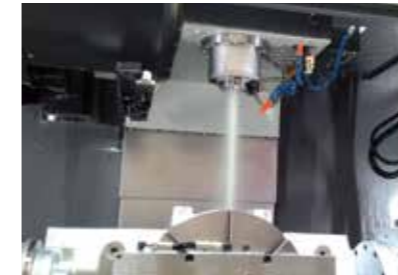
PALLET CHANGER MODEL

The automatic pallet changer is mounted directly on the base for easy installation/maintenance and remains machine reliability at all times. APC series is the best choice for precision molds and product precision and high-speed processing requirements.



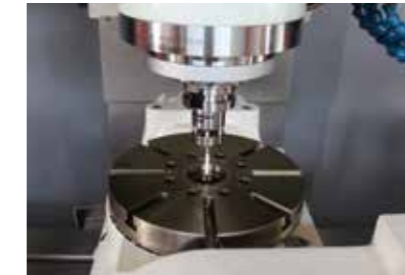
SPECIFICATION		UNIT	AP 500	APC 500 / 600
WORKING TABLE	Working table size	mm	650 x 400	600 x 400*2 pcs
	T - slots	mm	14 x 3 x 125	18 x 3 x 125
	Max. table load	kgs	200	200*2
TRAVEL	X axis travel	mm	500	500 / 600
	Y axis travel	mm	400	400
	Z axis travel	mm	300	300
	Spindle nose to table surface		130-430	130-430
	Spindle center to column	mm	410	410
SPINDLE	Transmission		Direct driving	Direct driving
	Spindle speed		10000	10000
	Spindle motor	rpm	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
Cutting feed rate		m/min	10	10
ATC STSTEM	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
DIMENSION & OTHERS	Tool to tool time	sec	1.6	1.6
	Air pressure required	kg/cm ²	6	6
	Floor occupation	mm	2230 x 1850	2723 x 1850
Machine weights	kg	2300	2700	

OPTIONS



Coolant Through Spindle(CTS)

The optional Coolant Through Spindle (CTS) help to increase the higher cutting speed, chips removable for deep-hole drill and fine finishing of pocketing mill.



Workpiece measurement

The advanced probing equipment provides in-position detection and coordinates compensation for precise processing.



Tool measurement

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



4th / 5th axis rotary table

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



Digital readout

To ensure precise axis positioning in the event of thermal expansion of the machine, precise digital readout is necessary to achieve high positioning accuracy.



Coolant flushing device

The optional side-flushing device can help efficient removal of chips.



CE certified

High-quality power distribution engineering and internal wiring planning comply with European safety regulations CE standards.



Chain type ATC-30T

The loading capacity is 30 tools. BT - 50 tool shank can be options.



Chain type chip conveyor

Chain type chip conveyor provides the most efficient chip removal jobs and best chip-free coolant effect to massive productions.