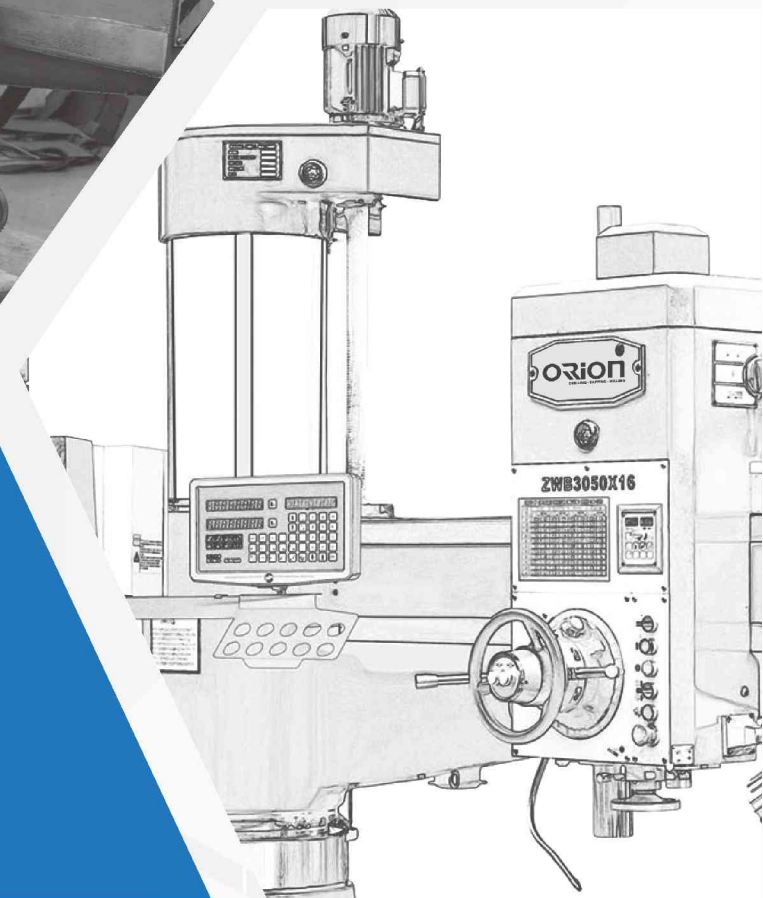


HEAVY DUTY CNC MACHINE TOOLS



- Vertical Machine Center
- High Speed Drilling Machine
- Drilling & Milling Machine
- Vertical Milling Machine
- Drilling Machine
- Bench Drilling Machine
- Tapping Machine
- CNC Series Tapping Machine
- Electric Threading Machine

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INDOTARA

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CNC VERTICAL MACHINE CENTER

Standard accessories

- Heat exchanger system for control cabinet
- CNC control system HNC-21M
- Auto timing lubrication system
- Leveling screw and block
- VC full machine enclosure
- Automatic tool change
- Thread-cutting feature
- Operation manual
- Coolant system
- Tool box
- Lamp



TELESCOPIC COVER FOR GUIDE WAYS

Special accessories

- 4th, 5th axis rotating table
- Cutter center cooling system
- Cutter auto measure device
- Chip conveyor and handcart
- Two steps speed change gearbox
- Squirt gun
- Portable air gun for chip blow-out
- Edge finders

VMC1060 / VMC1370 / VMC1691 / VMC890

		VMC1060	VMC1370	VMC1690	VMC1890	
Moving	X-axis travel	mm	1000	1300	1600	1800
	Y-axis travel	mm	600	700	900	900
	Z-axis travel	mm	600	650	680	680
	Distance between spindle and to table	mm	140-740	140-790	160-840	160-840
	Distance between spindle center to column surface	mm	650	785	950	950
Table	Table size	mm	1300 x 600	1400 x 710	1800 x 900	2000 x 900
	T slot (side X number X space)	/	18mmx5x100mm	22mmx5x120mm	22mmx5x120mm	22mmx5x160mm
	Allowable load	kg	800	1000	1600	1600
Spindle	Motor of spindle	kW	7.5/11	15/18.5	18.5/22	18.5/22
	Speed of spindle	r/min	8000	6000	6000	6000
	Taper of spindle nose	/	BT40	BT50	BT50	BT50
Feed	Motor of X,Y axis	kW	2	3.5	6	6
	Motor of Z axis	kW	2	3.5	6	6
	Rapid feed rate	m/min	12	12	12	12
	Cutting feed rate	m/min	6	6	6	6
Accuracy	Positioning accuracy	mm	0.005			
	Repeat ability	mm	0.003			
ATC	Change type	/	Arm type			
	Tool magazine capacity		24 Tools			
	Max. Tool (dameter x weight x length)	/	φ 80mm x 7kg x 300mm			
	Change time	S	3			
Other	Power requirement	kW	20	35	45	45
	Overall Size	m	3 x 1.65 x 2	3.65 x 2.1 x 1.94	4.7 x 2.5 x 2.7	4.7 x 2.5 x 2.7
	N.W	kg	6500	9500	13500	15000
Type of screw		C3 grade ball screw				
Motor connect mode		Direct				
Type of guide way		Rectangular hardened guide ways				
Material of bed		High quality cast iron				
Type of lubrication		Central lubrication				
Type of cover		Totally enclosed guard				
CNC control System		FANUC, MITSUBISHI, SIEMENSE, KND, HNC, GSK				

CNC VERTICAL MACHINE CENTER

• Standard accessories

- Heat exchanger system for control cabinet
- CNC control system HNC-21M
- Auto timing lubrication system
- Leveling screw and block
- VC full machine encloser
- Automatic tool change
- Thread-cutting feature
- Operation manual
- Coolant system
- Tool box
- Lamp



VMC650 / VMC850

TELESCOPIC COVER FOR GUIDE WAYS

• Special accessories

- 4th, 5th axis roating table
- Cutter center cooling system
- Cutter auto measure device
- Chip conveyer and handcart
- Two setps speed change gearbox
- Squirt gun
- Portable air gun for chip blow-out
- Edge finders

		VMC650	VMC850	
Moving	X-axis travel	mm	650	850
	Y-axis travel	mm	500	500
	Z-axis travel	mm	500	500
	Distance between spindle and to table	mm	110-610	110-610
	Distance between spindle center to column surface	mm	560	560
Table	Table size	mm	900 x 450	900 x 450
	T slot (aide X number X space)	/	18mm x 5 x 90cm	18mm x 5 x 90cm
	Allowable load	kg	600	600
Spindle	Motor of spindle	kW	3.7/5.5	3.7/5.5
	Speed of spindle	r/min	8000	8000
	Taper of spindle nose	/	BT40	BT40
Feed	Motor of X,Y axis	kW	1	2
	Motor of Z axis	kW	1	2
	Rapid feed rate	m/min	15	15
	Cutting feed rate	m/min	6	6
Accurecy	Positioning accuracy	mm	0.005	0.005
	Repeat ability	mm	0.003	0.003
ATC	Change type	/	Armless	Armless
	Tool magazine capacity		16Tools	20Tools
	Max. Tool (dameter X weight X length)	/	φ 80mm x 7kg x 300mm	φ 80mm x 7kg x 300mm
	Change time	S	6	3
Other	Power requirement	kW	10	15
	Overall Size	m	2.4 x 1.38 x 1.9	2.6 x 1.4 x 1.9
	N.W	kg	3500	4000
Type of screw		C3 grade ball screw		
Motor connect mode		Direct		
Type of guide way		Rectangular hardened guide ways		
Material of bed		High quality cast iron		
Type of lubrication		Central lubrication		
Type of cover		Totally enclosed guard		
CNC Control System		FANUC, MITSUBISHI, SIEMENSE, KND, HNC, GSK		

CNC VERTICAL MACHINE CENTER



Standard accessories

- CNC control system HNC-210A
- VC full machine encloser
- Coolant system
- Auto timing lubrication system
- Lamp
- Leveling screw and block
- Telescopic cover for guile ways
- Heat exchanger system for control cabinet
- Automatic tool change
- Thread-cutting feature
- Operation manual
- Tool box

Special accessories

- 4th, axis rotation table
- squirt gun
- Portable air gun for chip blowout



VMC420 / VMC420L

		VMC420	VMC420L
Moving	X-axis travel	mm	410
	Y-axis travel	mm	260
	Z-axis travel	mm	500
	Distance between spindle and to table	mm	120-620
	Distance between spindle center to column surface	mm	280
Table	Table size	mm	700 x 290
	T slot (aide X number X space)	/	14mm x 3 x 80cm
	Allowable load	kg	250
Spindle	Motor of spindle	kW	3.7
	Speed of spindle	r/min	6000
	Taper of spindle nose	/	BT30
Feed	Motor of X,Y axis	kW	1.2
	Motor of Z axis	kW	1.2
	Rapid feed rate	m/min	6
	Cutting feed rate	mm/min	5-1500
Accuracy	Positioning accuracy	mm	0.010
	Repeat ability	mm	0.006
ATC	Change type	/	Armless
	Tool magazine capacity		12
	Max. Tool (dameterXweightXlength)	/	Φ 80 x 4 x 200
	Change time	S	6
Other	Power requirement	kW	7.5
	Overall Size	mm	1660X1630X2260
	Packing size	mm	1660X1630X2260
	N.W / G.W	kg	2185/2400
Type of screw	C3 grade ball screw		
Motor connect mode	Direct		
Type of guide way	Rectangular hardened guide ways	Line guide	
Material of bed	High quality cast iron		
Type of lubrication	Central lubrication		
Type of cover	Totally enclosed guard		
CNC control system	FANUC, MITSUBISHI, SIEMENSE, KND, HNC, GSK		

CNC HIGH SPEED MACHINE CENTER

ZK3020L

SPINDLE MAXIMUM SPEED
4000 r/min



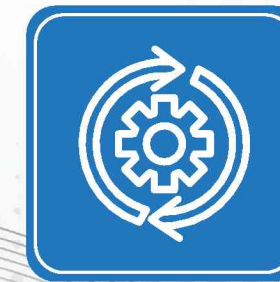
● Main Characteristics

- With Max. Spindle speed up to 4000r/min, wide speed range, the machine can be applied in the processing of non ferrous metals such as Zinc, Aluminium, Copper, as well as Resin Matrix Composite materials.
- Window type parameterized CNC system gathers modules of processing of common thread. The CNC system is convenient to operate and program, meanwhile, G-code programming can also be adopted to meet the requirement from different user.
- CNC cross slide table with high positioning accuracy and fast moving speed, which can be applied in the processing of components with multi threads of these with high requirement in thread distance, such as the processing of strainer in food machinery.

			ZK3020L
Moving	X-axis travel	mm	300
	Y-axis travel	mm	180
	Z-axis travel	mm	300
	Distance between spindle and to table	mm	40-340
	Distance between spindle center to column surface	mm	255
Table	Table size	mm	500 x 200
	T slot (aide x number x space)	/	12mm x 3 x 63cm
	Allowable load	kg	50
Spindle	Motor of spindle	kW	0.4
	Speed of spindle	r/min	10000-40000
	Taper of spindle nose	/	ER16
Feed	Motor of X,Y axis	N.m	2.4
	Motor of Z axis	N.m	7
	Rapid feed rate	m/min	25
	Cutting feed rate	m/min	1.5
Accuracy	Positioning accuracy	mm	0.03
	Repeat ability	mm	0.02
Other	Power requirement	kW	3.2
	Overall size	m	1.36 x 1.35 x 1.88
	N.W	kg	1200
	Type of cover		Totally enclosed guard



SPEED UP TO
40000 r/MIN



EXCHANGE GEAR



PRECISE



EASY OPERATION

CNC DRILLING & MILLING MACHINE

• Standard accessories

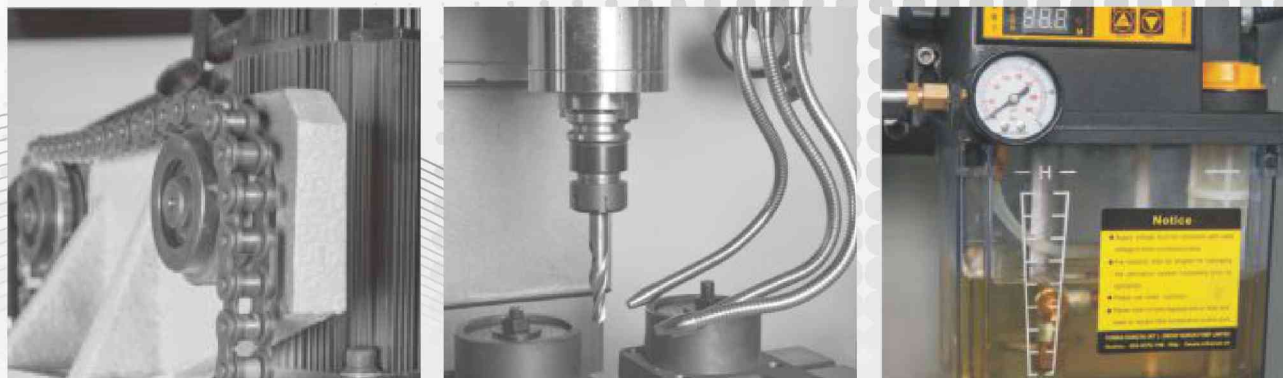
- CNC control system HNC-18M
- VS half machine encloser
- Coolant system
- Auto timing lubrication system
- Lamp
- Leveling screw and block
- Operation manual
- Heat exchanger system for control cabinet
- Tool box

• Special accessories

- 4th, axis rotation table
- Squirt gun
- Portable air gun for chip blowout
- Thread-cutting feature



ZK-32A/ZK-32AL



		ZK-32A	ZK-32AL
Moving	X-axis travel	mm	400
	Y-axis travel	mm	260
	Z-axis travel	mm	500
	Distance between spindle and to table	mm	120-620
	Distance between spindle center to column surface	mm	320
Table	Table size	mm	700 x 290
	T slot (aide x number x space)	/	14mm x 3 x 80cm
	Allowable load	kg	250
Spindle	Motor of spindle	kW	3.7
	Speed of spindle	r/min	100-6000
	Taper of spindle nose	/	BT30
	Spindle column	mm	110
	Mode of drive	/	Synchronous Belt
Feed	Motor of X,Y axis	kW	1.2
	Motor of Z axis	kW	1.2
	Rapid feed rate	m/min	6
	Cutting feed rate	mm/min	5-1500
Accurecy	Positioning accuracy	mm	0.025
	Repeat ability	mm	0.015
Other	Power requirement	kW	7.5
	Overall Size	mm	1400x1500x2150
	Packing Size	mm	1750x1550x2460
	N.W/G.W	kg	1880/2100
Type of screw	Ball screw		
Type of guide way	Rectangular hardened guide ways	Line guide	
Mode of tool change	Pneumatic fast tool change		
Material of bed	High quality cast iron		
Type of lubrication	Central lubrication		
Type of cover	Semi-enclosed guard, Totality enclosed guard		
CNC control system	FANUC, MITSUBISHI, SIEMENSE, KND, HNC, GSK		

CNC DRILLING & MILLING MACHINE

• Standard accessories

- CNC control system HNC-21M
- Telescopic cover for guide ways
- VS half machine encloser
- Coolant system
- Auto timing lubrication system
- Leveling screw and block
- Operation manual
- Coolant system
- Tool box
- Lamp



HEAT EXCHANGER SYSTEM FOR CONTROL CABINET

• Special accessories

- 4th, 5th axis rotating table
- Automatic tool change
- Chip conveyer and handcart
- Thread cutting feature
- Portable air gun for chip blow-out
- Squirt gun



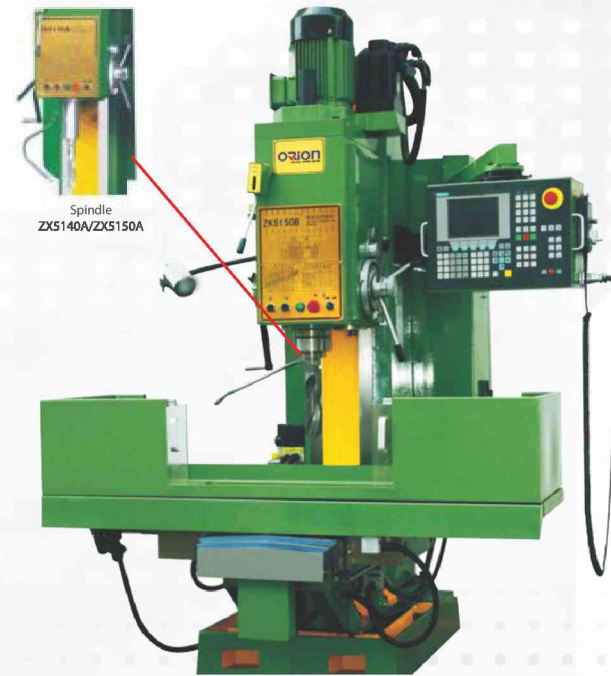
XK713 / XK714

		XK713	XK714	
Moving	X-axis travel	mm	600	800
	Y-axis travel	mm	400	500
	Z-axis travel	mm	500	500
	Distnce between spindie end to table	mm	110-610	75-575
	Distnce between spindie to column surface	mm	457	519
Table	Table Size	mm	1000 x 360	1270 x 400
	T slot (wide x number x space)	/	14mm x 3 x 110mm	18mm x 3 x 110mm
	Allowable load	kg	300	500
Spindle	Motor of spindie	kW	3.7/5.5	5.5/7.5
	Speed of spindle	r/min	8000	8000
	Taper spindle nose	/	BT40	BT40
Feed	Motor of X, Y axis	kW	1	1.5
	Motor of Z axis	kW	1	1.5
	Rapid feed rate	m/min	8	8
	Cutting feed rate	m/min	4	4
Accuracy	Positioning accuracy	mm	0.025	0.025
	Repeat ability	mm	0.015	0.015
Other	Power requirement	kW	12	12
	Overall Size	m	2.45X1.45X1.9	2.8X1.52X1.9
	N.W	kg	2700	3000
Type of screw		C3 grade ball screw		
Motor connect mode		Direct		
Type of guide way		Rectangular hardened guide ways		
Material of bed		High quality cast iron		
Type of lubrication		Central lubrication		
Type of cover		Semi-enclosed guard : Totally-enclosed guard		
CNC Control system		FANUC,MITSUBISHI,SIEMENSE,KND,HNC,GSK		

CNC VERTICAL MILLING MACHINE

Standard accessories

- Suitable for machining medium and small size, discs, shell complex workpiece, moulds & dies etc. In batch production.
- Well constructed with special casting. Highly rigid structure. Quenched turcite guideways and automatic intermittent lubrication ensure high accuracy and stable feed without creep.
- The spindle is driven by AC motor, featuring high speed, high torque, wide constant power range minimum thermal increase and low noise.
- Heavy cutting, flood coolant, wide chip disposal grooves.
- Equipped with RENHE CNC system, and the GSK system or HNC system can provide on customer's order.



ZK5140B / ZK5150B



		ZK5140A/ZK5150A		ZK5140B/ZK5150B	
Max. Drilling capacity		mm	40/50	50/50	
Moving	X-axis travel	mm	600		
	Y-axis travel	mm	300		
	Z-axis travel	mm	250		
	Distance between spindle and to table	mm	120-740/80-700	175-795	
	Distance spindle axis to column generating ling	mm	335		
Table	Table size	mm	8500x450		
	T slot (wide x number x space)	/	14mm x 3 x 100mm		
	Allowable load	kg	300		
Spindle	Motor of spindle	kW	3/4		
	Speed of spindle	r/min	31.5-1400		
	Taper of spindle	/	MT4/MT5		
Feed	Motor of X,Y axis	kW	1.2/1.2		
	Motor of Z axis	kW	2.5		
	Rapid feed rate	m/min	8/8/2		
	Cutting feed rate	m/min	1.5		
Accuracy	Positioning accuracy	mm	X,Y:0.03 Z:0.06		
	Repeat ability	mm	X,Y: 0.03 Z:0.04		
Other	Power requirement	kW	12/13		
	Packing dimension	cm	185x172x250		
	N.W/G.W	kg	1900 / 2015		
Type of screw	C5 grade ball screw				
Motor connect mode	XY				
Type of guide way	Rectangular hardened guideways				
Material of bed	High quality cast iron				
Type of lubrication	Central lubrication				

CNC DRILLING MACHINE

• Characters

- An electromechanical integration design ensures the compact structure and esthetic appearance.



ZK2515-3

• Characters

- The feed for spindle transmission uses the high accuracy brew, the localization is precise, the precision stability is good, especially using in the blind hole decides the dep precision high work piece.
- The feeding is realized by means of CNC system, capable of realizing a cycle comprising fast forward - fine forward - fast backward (chip removal), the efficiency prominently improved. In addition, an orders are designed specifically drilling operation, which simplifies the operation, which simplifies the operation and improves the effectiveness.



ZK2515

			ZK2515	ZK2515-3
Max.Drilling capacity		mm	25	25
Moving	X-axis travel	mm	/	230
	Y-axis travel	mm	/	180
	Z-axis travel	mm	150	
	Distance between spindle and to table	mm	130-680	90-640
	Distance spindle axis to column generating ling	mm	29.75	
Table	Table size	mm	/	8500x450
	T slot (wide x number x space)	/	18x2x200	14x3x80
	Allowable load	kg	50	50
Spindle	Motor of spindle	kW	2.2	
	Speed of spindle	r/min	0-940, 0-144-, 0-2880	
	Taper of spindle	/	MT3	
Feed	Motor of X,Y axis	N.m	/	7
	Motor of Z axis	N.m	7	
	Rapid feed rate	m/min	4	8/8/4
	Cutting feed rate	m/min	1.5	1.5
Accurecy	Positioning accuracy	mm	0.35	
	Repeat ability	mm	0.02	
Other	Power requirement	kW	3	5
	Overall Size	m	1.2x11.56x2.2	1.35x1.77x2.2
	Packing dimension	mm	1310x1650x2350	1550x1970x2350
	N.W/G.W	kg	1310x1650x2350	1550x1970x2350
Type of screw	C5 grade ball screw			
Type of cover	Semi-enclosed guard			

CNC BENCH DRILLING MACHINE



ZK4120C / ZK4120B / ZK4120X2

• Characters

- An electromechanical integration design ensures the compact structure and esthetic appearance.
- The feeding is realized by means of CNC system, capable of realizing a cycle comprising fast forward - fine forward - fast backward (chip removal), the efficiency prominently improved. In addition, an orders are designed specifically for drilling operation, which simplifies the operation, which simplifies the operation and improves the effectiveness.



ZK4120C

		ZK4120	ZK4120X2	ZK4120A	ZK4120-2	ZK4120-3	ZK4120C
Max.Drilling capacity	mm	20					
X-axis travel	mm	/		230		/	
Y-axis travel	mm	/			180		/
Z-axis travel	mm	115					
Distance between spindle end to table	mm	630	750	750	605	575	630
Max. Distance spindle nose to table	mm	370	/				370
Distance between spindle center to column surface	mm	240					
Distance column	mm	/	600	/			
Table size	mm	370x590	1040x680	680x440	/		375x590
T slot (wide x number x space)	/	14x2x170mm	14x2x200mm	14x3x80mm	Grove size and match	14x3x80mm	14x2x170mm
Allowable load	kg	100	150	150	50	50	100
Motor of spindle	kW	1.1					
speed of spindle	r/min	365,560,1000,1800,3150					
Taper of spindle nose	/	MT2					
Motor of X axis	kW	/		1.2	1.2	/	
Motor of Y axis	kW	/			1.2	/	
Motor of Z axis	kW	0.75					
Rapid feed rate	m/min	4					
Cutting feed rate	m/min	0.5					
Positioning accuracy	mm	0.06					
Repeat ability	mm	0.04					
Power requirement	kW	1.8	3.6	1.8	3	4.2	1.8
Overall size	cm	82x52x113	138x95x193	115x74x193	100x121x193	100x121x193	82x52x113
N.W	kg	170	600	280	300	350	170

CNC TAPPING MACHINE

● Main Characteristics

- Feeding system is driven by exchange gears, which is convenient to replace to meet the processing requirement with different screw pitches.
- Driving system with protect clutch, has overload protection function to avoid the cracking of taps.
- The backlash spring is mounted in feeding system with high thread precision.
- Gear driving with large transmission torque, stable in transmission performance, multiple steps of spindle speeds, and with large thread size.
- Window type parameterized CNC system gathers modules of processing of common threads. The CNC system is convenient to operate and program, meanwhile, G-code programing can also be adopted to meet the requirement from different user.
- CNC cross slide table with high positioning accuracy and fast moving speed, which can be applied in the processing of components with multi threads or these with high requirement in thread distance, such as distributor thread processing.

SK6532



EXCHANGE GEAR



PRECISE



EASY OPERATION

			SK6532
	Max.Tapping capacity	mm	M32
Moving	X-axis travel	mm	230
	Y-axis travel	mm	180
	Z-axis travel	mm	550
	Spindle-axis travel	mm	65
	Distance between spindle end to table	mm	55-670
	Distance between spindle center to column surface	mm	380
Table	Table size	mm	400 x 250
	T slot (aide X number X space)	mm	14 x 3 x 80
	Allowable load	kg	50
Spindle	Motor of spindle	kW	1.5 (6P) /2.2 (4P)
	Speed of spindle	r/min	80, 150, 280, (6P Motor). 120, 220, 420 (4P Motor)
	Taper of spindle nose	/	MT3
Feed	Motor of X, Y axis	N.m	7
	Motor of Z axis	N.m	7
	Rapid feed rate of X, Y axis	m/min	10
	Auto-feeding accuracy	mm	1.25/1.5/1.75/2.0/2.5/3.0/3.5/19/18/16/14/13/12/11/10/9/8/7TPI
Accurecy	Positioning accuracy	mm	x, y: 0.03
	Repeat ability	mm	x, y: 0.02
Other	Power requirement	kW	6
	Overall size	m	1.35 x 1.98 x 2.3
	N.W	kg	1500
	Type of cover		Semi-enclosed guard



CNC SERIES TAPPING MACHINE

● Main Characteristics

- SK4016 CNC tapping machine design development with market demand. Suitable for spare parts of motor, pump, valve, made mould, gaspipe, cooking utensils relay element.

SK4016



MACHINE INTERFACE



WORKTABLE SUPPORT CLAMPING



UP/DOWN HANDLE

● Character

- Screw tap drive by servo motor, without special drive system inside machine, high precision thread, avoid bad thread.
- System can setting tapping torque, with overload protection function, avoid screw tap break.
- Spindle with decelerate safety device, structure compactly. Drive stabilize, deliver big torque.
- Window type parametric CNC system, only need to fill out relevant parameters to complete different pitch thread processing which simple to operate.
- Be visible, displaying the actual work to seat torque, the actual thread depth setting thread depth; the machine speed, the number of qualified tapped screw threads.
- Can control: Can change speed and torsion, cam setting depth of the process choose process model, can choose backward chip removal, choose lubrication method.

Model		SK4012	SK4016	SK4024	SK4042
Max. tapping capacity	mm	M10,M12	M16	M24	M42
Diameter of column	mm	70	70	85	100
Spindle travel	mm	80	80	100	120
Distance between spindle and to table	mm	350	350	580	880
Distance spindle axis to column generating line	mm	218	218	240	287.5
Spindle taper		B18	B18	B22	M14
Spindle speed	r/min	0 - 600	0 - 370	0 - 187	0 - 95
Dimension of base surface	mm	274x274	274x274	315x370	470x540
N.W	kg	90	90	120	280
Overall size	mm	370x490x810	370x490x810	540x650x1150	590x690x1850

ELECTRIC THREADING MACHINE

SRA-M12
ELECTRIC THREADING MACHINE



SRA-M12
Movable table - cast iron



SRA-M16W
ELECTRIC THREADING MACHINE



Model		SRAM12	SRAM12W
Max. tapping	mm	M3-M12	
Spindle speeds	r/min	0-400	
Air pressure	kg	8-10	
Radius	mm	900	
Standard accessories	/	Tapping Chuck M3-M12 (Optional)	
Work direction	/	Down	Any
Weight	Kg	18	18

ELECTRIC THREADING MACHINE

SRM-M24
SRM-M24W

ELECTRIC THREADING MACHINE



Movable table - steel plate

SRM-M42
SRM-M42W

ELECTRIC THREADING MACHINE

Model		SRM-M16	SRM-M16W	SRM-M24	SRM-M24W	SRM-M42	SRM-M42W
Max. tapping	mm	M3-M16	M3-M16	M6-M24	M6-M42	M16-M42	M16-M42
Spindle speeds	r/min	0-300 (adjustable)	0-300 (adjustable)	0-200 adjustable	0-200 adjustable	0-200 (adjustable) 0-50 (adjustable)	0-200 (adjustable) 0-50 (adjustable)
Power	w	600	600	1000	1000	1200	1200
Voltage	v	220	220	220	220	220	220
Radius	mm	1000	1000	1200	1200	1300	1300
Standard accessories	/	Tapping Chuck M3-M16 (Optional)	Tapping Chuck M3-M16 (Optional)	Tapping Chuck M3-M24 (Optional)	Tapping Chuck M3-M24 (Optional)	Tapping Chuck M3-M42 (Optional)	Tapping Chuck M3-M42 (Optional)
Work direction	/	Down	Any	Down	Any	Down	Any
Weight	kg	25kg	25kg	50kg	50kg	110kg	110kg