



Sitco Precision Machinery



End mill Re-sharpening Machine

Model:

ERM-12/20/32

ERM-12A (Φ 2- Φ 12)



SDC, CBD

Grinding wheel: SDC wheels used for tungsten carbide tools, CBN wheels used for high-speed steel tools.

• PRODUCT ADVANTAGES

1. Applicable to (2/3/4-flute) tungsten carbide and high-speed steel end mill.
2. Grind rear inclined angle, blade edge and front inclined angle.
3. For different end mill grinding, no need to change grinding wheel.
4. Easy to handle, grind one piece need no more than one minute.
5. High precision(0.01mm), normatively re-sharpening.
6. Mill cutting edge can be adjusted suitable for materials to be processed.

Model No.	ERM-12	ERM-12A	ERM-20	ERM-32
Applicable diameter	Φ 2~ Φ 12mm	Φ 2~ Φ 12mm	Φ 4~ Φ 20mm	Φ 12~ Φ 32mm
Applicable flutes	2刃、3刃、4刃、 2flutes, 3flutes, 4flutes	2刃、3刃、4刃、 2flutes, 3flutes, 4flutes	2刃、3刃、4刃、 2flutes, 2flutes, 2flutes	2刃、3刃、4刃、 2flutes, 2flutes, 2flutes
Axial angles	刀刃 6° Secondary clearance angle 6° Primary relief angle 20° End gash angle 30°	刀刃 8° Secondary clearance angle 8° Primary relief angle 22° End gash angle 30°	刀刃 6° Secondary clearance angle 6° Primary relief angle 20° End gash angle 30°	刀刃 6° Secondary clearance angle 6° Primary relief angle 20° End gash angle 30°
Grinding wheel	E12SDC(CBN Choose)	E12SDC-A(CBN Choose)	E20SDC(CBN Choose)	E32SDC(CBN Choose)
Power	220V $\pm$ 10%AC	220V $\pm$ 10%AC	220V $\pm$ 10%AC	220V $\pm$ 10%AC
Motor output	300W	300W	600W	600W
Rated speed	6000rpm	6000rpm	6000rpm	6000rpm
Outer dimensions	290x260x230(mm)	290x260x230(mm)	310x260x260(mm)	430x350x330(mm)
Weight	15Kg	15Kg	22Kg	40Kg
Normal accessories	Collet*1pcs, 2flutes holder*8pcs, 3flutes holder*8pcs, 4 flutes hold*8pcs, case*1pcs, Hexagon wrench*2pcs, Brush*1pcs, controller*1pcs	Collet*7pcs, 2flutes holder*8pcs, 3flutes holder*8pcs, 4 flutes hold*8pcs, case*1pcs, Hexagon wrench*2pcs, Brush*1pcs, controller*1pcs, Gaskets*1pcs, square flutes holder*1pcs	Collet*8pcs, 2flutes holder*8pcs, 3flutes holder*8pcs, 4 flutes hold*8pcs, case*1pcs, Hexagon wrench*3pcs, Brush*1pcs, controller*1pcs	Collet*5pcs, 2flutes holder*8pcs, 3flutes holder*8pcs, 4 flutes hold*5pcs, case*1pcs, Hexagon Wrench*1pcs, Brush*1pcs, controller*1pcs

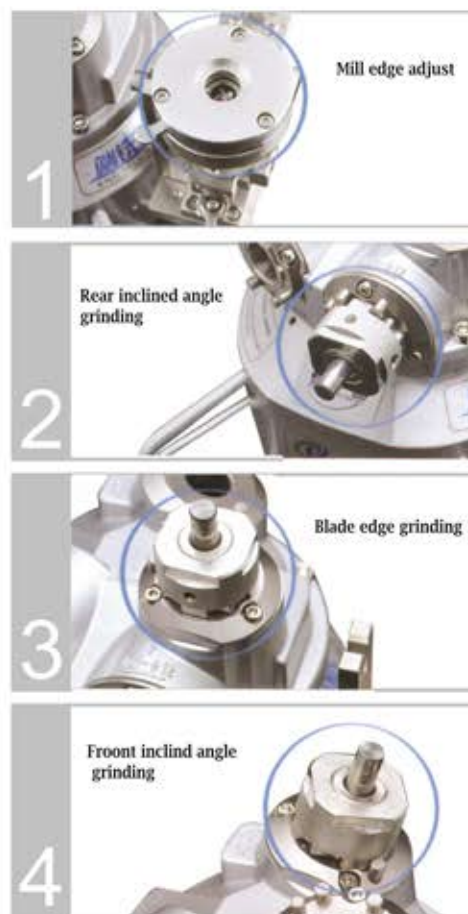


End mill Re-sharpening Machine

Optimized structure design



Re - sharpening operation steps



High precision grinding wheel and grinding structure



SDN

CBN

Grinding wheel: SDC wheels used for tungsten carbide tools, CBN wheels used for high-speed steel tools.

Unique mill edge adjustment device



Precise holder fixture



collet

2flutes holder

3flutes holder

4flutes holder





Ball end mill Re-sharpening Machine

Model: BRM-13(R1-R6)



PRODUCT ADVANTAGES

1. Applicable to $\phi 2$ - $\phi 13$ (2-flute) tungsten carbide and high-speed steel ball end mill.
2. Grind rear inclined angle, arc blade edge and front inclined angle.
3. Easy to handle, grind one piece need no more than 2 minute.
4. High precision(0.02mm), normatively re-sharpening.
5. Tungsten carbide bars can be grinded, and used as ball end mill.
6. Second none, has applied for patent of invention.

Product Parameter

Model	BRM-13
Applicable rang	R1~R6
Applicable flutes	2 刃 Two flutes
Grinding wheel	B13SDC
Power	220V $\pm$ 10%AC
Motor output	250W
Rated speed	2800rpm
Outer dimensions	580X570X400(mm)
Weight	76Kg
Normal accessories	collect 7 pcs, ER collect handle 1 pcs, Tool case 1 pcs, Hexagon wrench 2 pcs, ER-20A wrench*1pcs



Drill Re-sharpening Machine

Model:

DRM-13($\phi 3$ - $\phi 13$)

DRM-20($\phi 3$ - $\phi 20$)

DRM-50($\phi 13$ - $\phi 50$)



SDC, CBD

Grinding wheel: SDC wheels used for tungsten carbide tools, CBN wheels used for high-speed steel tools.



• PRODUCT ADVANTAGES

1. Applicable to tungsten carbide and high-speed steel drills re- sharpening
2. Grind rear inclined angle, cutting edge and chisel edge.
3. Easy to handle, grind one piece need no more than 20 seconds.
4. High precision, normatively re-sharpening.
5. Apex angle can be adjusted from 90° to 150° , rear inclined angle from 0° to 12° .
6. Length of drill to be grinded has no limitation.

Model No.	DRM-13	DRM-20	DRM-50
Applicable diameter of the drill	$\phi 3 \sim \phi 13\text{mm}$	$\phi 3 \sim \phi 20\text{mm}$	$\phi 13 \sim \phi 50\text{mm}$
Grinding scope of the apex angle	$90^\circ \sim 150^\circ$	$90^\circ \sim 150^\circ$	$118^\circ \sim 180^\circ$
Grinding scope of the dorsal horn	$0^\circ \sim 120^\circ$	$0^\circ \sim 120^\circ$	4°
Grinding wheel	D13SBN(CBN Choose)	D20SBN(CBN Choose)	D50SBN
Lenth of drill			400mm Maximum Length400mm
Power	220V $\pm$ 10%AC	220V $\pm$ 10%AC	AC220V
Motor output	250W	250W	200W
Rated speed	5000rpm	5000rpm	2800rpm
Outer dimensions	290x260x230(mm)	345x160x210(mm)	350*590*350(mm)
Weight	16Kg	19Kg	85Kg
Normal accessories	Collet $\phi 3 \sim \phi 13\text{mm}$ (11 pcs), Hexagon wrench *2pcs, Chuck group* 1 group , controller* 1pcs	Collet $\phi 3 \sim \phi 20\text{mm}$ (18 pcs), Hexagon wrench *2pcs, Chuck group* 2 group , controller* 1pcs	Jacker for taper shank (4-1#, 4-3#) one for each, Iron wedge block*3pcs Hexagon wrench *2pcs, Chuck group* 1 group



Horizontal Spindle Surface Grinding Machine

Model:
YTU 400

Specification		YTU 400
Machine table surface	mm	500X200
Table stroke (X) movement	mm	400
Max. distance from wheel to table surface	mm	350
Table travel length (Y)	mm	200
Table travel adjustment	mm	0-200
Cutting wheel diameter (max)	mm	250X30X76.2
Cutting head speed	rpm	1400
Table speed (max) (X)	m/d	0-20
Wheelhead manual feed every handwheel turn	mm/tur	1
Wheelhead manual min (Z) feed (Approximately)	mm	0.005
Table feed every handwheel turn Y feed	mm	7
Table (Y) feed Automatic	mm	0.02-5
Electrical system	V	380-24 V
Length of machine	mm	1120
Work length of machine	mm	1600
Width of machine	mm	1400
Height of machine	mm	1730
Weight of machine	Kg	1000





Surface Grinding Machine (Punch Blades and Test Laboratories)

Model:
YT 150

Specification		YT 150
Machine table surface	mm	200x120
Min/max. distance from wheel to table surface	mm	85/138
Min/max. distance from wheel to manyetik table surface	mm	0/50
Cutting wheel diameter	mm	150
Cutting head speed	rpm	1400
Wheelhead manual feed every handwheelturn	mm/tur	4
Horizontal movement of the wheelhead	(-)	180
Electrical system	V	380-24
Lenght of machine	mm	560
Work lenght of machine	mm	560
Width of machine	mm	470
Hlight of machine	mm	670
Weight of machine	Kg	80

For grinding the blades of punch machines
For preparing the materials that will be tested in Spectrometer device in foundry lavatories and designed to be used for all the metals to be tested in Test lavatories.

For grinding different size and dimensions shims and valve cups that are locadet in motor cylinder in intended sizes.





Minilathe machine

Model:
210CNC3



SPECIFICATIONS

KM 180V

FEATURES:

- Widely useful, VARIABLE SPEED hobby lathe
- V-way bed is hardened and precision ground
- Spindle speed digital display
- High quality aluminium pulleys
- Quick locking on tailstock
- Equipped with forward/reverse switch
- Equipped with emergency stop button



OPTIONAL STAND

Model No.	KM 180V	KM 210V
Distance between centers	300 mm	400 mm
Swing over bed	180 mm	210 mm
Swing over cross slide	100 mm	110 mm
Width of bed	100 mm	100 mm
Taper of spindle bore	MT3	MT3
Spindle bore diameter	21 mm	21 mm
Range of spindle speeds	50-2250 rpm (variable)	50-2250 rpm (variable)
Range of longitudinal feeds	0.08-0.16 mm/r	0.08-0.16 mm/r
Range of inch threads	10-44 T.P.I	10-44 T.P.I
Range of metric threads	0.5-3 mm	0.5-3 mm
Top slide travel	55 mm	55 mm
Cross slide travel	75 mm	75 mm
Tailstock quill travel	60 mm	60 mm
Taper of tailstock quill	MT2	MT2
Motor power	450 W	600 W
Packing size	820x480x460 mm	920x480x460 mm
Net weight	60 kgs	75 kgs

Standard Accessories

3-jaw chuck	1 pc
Splash guard	1 pc
Chip tray	1 pc
Centers	1 pc
Toolbox & tools	1 set

Optional Accessories

4-jaw chuck	1 set
Steady rest	1 pc
Follow rest	1 pc
Face plate	1 pc
Lead screw cover	1 set
Turning tools	1 set
Stand	1 set



CNC Machine

Model:
210CNC3



Specification	Items
	210CNC
Swing over bed	300mm
Distance between centers	400mm
Width of bed	100mm
Spindle speed	50-2250r/min
Spindle taper	MT3
Z-axis moving	2000mm/min
X-axis moving	1000mm/min
Z-axis feeding	500mm/min
X-axis feeding	250mm/min
Z-axis torque	1.5Nm
X-axis torque	2Nm
Z-axis travel	250mm
X-axis travel	80mm
Motor of Z axis	1.5N
Motor of X axis	2N
Tool position	4
Angle of the tool post	360°
Tape of tailstock	MT2
Travel of tailstock	50mm
Z/X-axis position accuracy	0.01mm
Position accuracy of tools	0.005mm
Main motor power	600w
Packing size	115Kg
Weight(n.w/g.w)	160Kg



قلاویززن برقی و بادی تمام اتومات بازو بلند



بادی در سایزهای ۱۶-۳ میلی متر
برقی در سایزهای ۱۶-۳ و ۳۰-۵ میلی متر

CNC Tapping Machine

Model:
TP1300



Product Features

High torque, sufficient and stable power, with tapping capacity of M60.



Model:
TP1800 & 2000



Product Features

Moving light and flexible, universal tapping, the power head can be adjusted towards any direction, no noise and with a wide working scope.



Technical parameters

"U" stand for universal "D" stand for model with two speed

	Model	Capacity (mm)	Working radius (mm)	Chuck size (mm)	Power (Kw)	Speed (r.p.m)	Net weight (Kg)	Gross weight (Kg)	Package size (mm)
TP1300	TP300-42A(UD)	M3-M42	1300	Φ 48	1.8	0/30/100	100	110	830X780X330
	TP1300-60A(UD)	M3-M60	1300	Φ 48	2.2	0/20/100	110	120	830X780X330
TP1800	TP1800-12A(U)	M2-M12	1800	Φ 19	1.2	0/600	30	38	675X450X250
	TP1800-16A(U)	M2-M16	1800	Φ 19	1.2	0/250	32	40	675X450X250
TP2000	TP2000-24A(U)	M4-M24	2000	Φ 31	1.2	0/150	42	50	675X450X250
	TP2000-30A(U)	M4-M30	2000	Φ 31	1.2	0/100	45	55	675X450X250



قلاویزن برقی تمام اتومات سایزهای ۳-۱۶ و ۳۰-۵ میلی متر



CNC Tapping Machine

Model:
TP915



User's reference

Convenient and easy operation,
complete workload of 50days within
one day, the best partner of the CNC.



Model:
TP1100



Product Features

Standard configuration of floating model,
maintain a high machine precision all the
range, and easy operation, only need
0.5 pounds of pressure.



Technical parameters

"U" stand for universal "D" stand for model with two speed

	Model	Capacity (mm)	Working radius (mm)	Chuck size (mm)	Power (Kw)	Speed (r.p.m)	Net weight (Kg)	Gross weight (Kg)	Package size (mm)
TP915	TP915-12A	M2-M12	915	Φ 19	1.0	0-600	20	25	680X450X210
	TP915-16A	M2-M16	915	Φ 19	1.2	0-250	22	30	680X450X210
TP1100	TP1100-24A(U)	M3-M24	1100	Φ 31	1.2	0-150	32	40	720X475X300
	TP1100-30A(U)	M3-M30	1100	Φ 31	1.2	0-150	35	45	720X475X300



CNC Tapping Machine



High speed



High - precision



Energy saving

Machine Performance Comparison

	Auxiliary equipment	Noisy	Tool wear	Depth control	Scope of work	Investment
Pneumatic Tapping Machine	 Air compressor air tank	 Noisy	 3 Pieces	 Manual	 Fixed	
CNC Tapping Machine	 Plug	 Quiet	 1 Pieces	 CNC Locating	 Flexible	 Save 30%