PONTAX
Zero Tolerance Equipments

HIGH EFFICIENCY

GRINDING EQUIPMENT

HIGH QUALITY MATERIAL

HIGH **EFFICIENCY**

FAST **WORK**

PRODUCT CATALOG

INDOTARA®
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PXDM580B/750A

DOUBLE DISC SURFACE GRINDER

It is designed for fast & precision grinding of the two parallel surfaces of flat parts, like glass, ceramics, sapphire, metal housing, bearing, valve plate, seal, oil pump vane, piston ring, etc.

PONTAX
Zero Tolerance Equipments

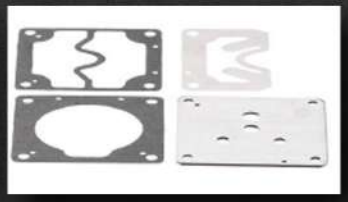
SPECIFICATION

Item/Type	Unit	PXDM580B	PXDM750A
Diameter of workpiece	mm	Φ 12-φ 120	Φ 50-Φ 180
Thickness of workpiece	mm	0.8-40	1.2-60
Size of grinding wheel	mm	Φ 585xΦ 195x75	Φ 750xΦ 195× 75
Power of wheelhead motor	kw	22Kwx2	30Kwx2
Wheel head motor speed	rmp	150-950	150-890
Feeding carrier motor power	kw	1.5	2.2
Feeding carrier motor speed	rmp	1-10	1-10
Flatness nd parallelism of workpiece	mm	≤0.003	≤0.005
Surface roughness of workpiece	μ m	≤Ra0.32	≤Ra0.32
Total Weight	kg	10000	12000
Overall dimensions (LxWxH)	mm	2700x2620x2650	2840x3140x2880

FEATURES

- Strong grinding power, high removal rate.
- Closed loop control of workpiece dimensions.
- Quality grinding surface.
- Automation with 6 times output.

PRODUCT RESULT



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PXM450A

PRECISION SINGLE SURFACE GRINDER

This machine is specifically designed for high efficient & precision grinding and thickness reduction of single surface of metal materials and hard & brittle nonmetal materials, such as glass and ceramics. It features high precision, efficiency and yield.

SPECIFICATION

Technical Parameter	PXM450A
Max size of workpiece	320 mm（diagonal）
Thickness of workpiece	≥0.4 mm
Size of grinding wheel	φ 440× 65×φ 350 mm
Power of wheelhead motor	15 kW
Wheelhead speed	100～ 960 rpm
Power of feeding carrier motor	Swing servo motor: 3.5 kW
Feeding carrier speed	Feeding swing speed: 1～ 16 rpm
Flatness & parallelism of workpiece	≤0.002 mm
Surface roughness of workpiece	≤Ra 0.2 μ m
Total weight	6000 Kg
Overall dimension	2650× 1500× 2650 mm

PRODUCT RESULT

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PXM77110

PONTAX
Zero Tolerance Equipments

HIGH PRECISION DOUBLE SURFACE LAPPING/POLISHING MACHINE

It is mainly used for precision lapping and polishing of double surfaces of hard & brittle parts, such as valve plate, friction plate, oil pump blades and sapphire, etc.

SPECIFICATION

Item	Unit	PXM450A
Size of upper plate(OD*ID*T)	mm	φ 1070×φ 495×φ 45
Size of lower plate(OD*ID*T)	mm	φ 1070×φ 495×φ 45
Pin gear	mm	outer diameter φ 327.5mm Z=64
Min. thickness of workpiece	mm	0.8
Max size of work piece	mm	φ 280 diagonal
Workpiece flatness & parallelism	mm	≤0.008
Workpiece roughness	μ m	≤Ra 0.15 (lapped) ≤Ra 0.05 (polished)
The lower disc speed	rpm	10-80
The upper disc speed	rpm	8-50
The sun wheel speed	rpm	5-35
The motor of lower plate	kW	15
The motor of upper plate	kW	11
Overall dimension L*W*H	Mm	2500× 2000× 3000
Total weight	kg	9000

PRODUCT RESULT

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PX2M8432

DOUBLE SURFACE LAPPING/POLISHING

It is used for the fine lapping/polishing of double surfaces of hard & brittle materials like silicon, glass, ceramic, sapphire, ferrite, lithium niobate, etc. as well as metal parts, such as valve plate, wearing plate, rigid seal ring, cylinder piston ring and oil pump blade.

SPECIFICATION

Item/Type	8436B	8432C	PX2M13M-9L	PX2M13S
Lapping plate size	∅1140 x 375 x 45	∅1070 x 495 x 45	∅978 x 558 x 45	∅860 x 280 x 35/33
Planetary wheel spec	P=15.875 Z=84	P=16.842 Z=60	DP=12 Z=108	DP=12 Z=153
Planetart wheel Qty	3 ≤ n ≤ 5	3 ≤ n ≤ 5	3 ≤ n ≤ 9	3 ≤ n ≤ 5
The max workpiece size (mm)	360 (Rectangle diagonal 36mm)	290 (Rectangle diagonal 36mm)	200 (Rectangle diagonal 200m)	280 (Rectangle diagonal 280mm)
The min THK (mm)	0.4			
Lapping workpiece flatness (mm)	≤ 0.008mm (∅200)			
Polishing workpiece flatness (mm)	≤ 0.005mm (∅200)			
Lapping workpiece roughness	≤ Ra0.15μ m			
Polishing workpiece rouggness	≤ Ra0.125μ m			
Size (L x W x H)(mm)	1800 x 1500 x 2650	1600 x 1440 x 2700	1650 x 1300 x 2650	1620 x 1150 x 2690
Weight (Kg)	3000	3200	2600	3000

PRODUCT RESULT

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PX2M8195

SINGLE SURFACE LAPPING/POLISHING

It is used for the lapping/polishing of single surface of metal parts, such as valve plate, piston ring and oil pump blade, as well as laminated non-metal parts of hard & brittle materials like glass, ceramic, sapphire, etc.

SPECIFICATION

Item/Type	Unit	PX2M8192	PX2M8192II	PX2M8195
Size of lapping plate (OD*T)	mm	∅914 x 35	∅914 x 35	∅952 x 35
Size of operating ring (OD*ID*T)	mm	∅410 x 368 x 80 (3pcs)	∅410 x 368 x 80 (3pcs)	∅400 x 375 x 60 (4pcs)
Max size of work piece	mm	∅300	∅300	∅360
Flatness precision of work piece	um	0.005(∅80)/0.008(∅80)	0.005(∅80)/0.008(∅80)	0.005(∅80)/0.008(∅80)
The roughness of work piece of surface/polishing work piece	um	Ra0.15/Ra0.125	Ra0.15/Ra0.125	Ra0.15/Ra0.125
Rotational speed of lapping plate	rpm	5-90 rpm (stepless regulating)	5-90 rpm (stepless regulating)	5-90 rpm (stepless regulating)
Rotational speed of operating ring	rpm	0-90 rpm (stepless regulating)	0-90 rpm (stepless regulating)	0-90 rpm (stepless regulating)
Motor of plate		7.5KW, Rated speed: 1450 rpm	7.5KW, Rated speed: 1450 rpm	11KW, Rated speed: 1450 rpm
Motor of operating ring		90W, Rated speed: 1440rpm	90W, Rated speed: 1440rpm	90W, Rated speed: 1440rpm
Pressurized cylinder (bore*stroke)	piece	∅100 x 400 (3pcs)	∅80 x 450 (3pcs	∅80 x 450 (4pcs)
Processing station qty	Piece	3	3	4
Overall dimension (LxWxH)	mm	1570 x 1725 x 2250	1600 x 1625 x 2150	1500 x 2200 x 2250
Total weight	kg	2000	2500	2600

PRODUCT RESULT

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PX2M81116A

3D CURVED SURFACE POLISHING MACHINE

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It is mainly used for fine polishing the flat, 2.5D or 3D curved surface of non-metallic or metal material like glass, ceramics, aluminum alloy, stainless steel, etc.

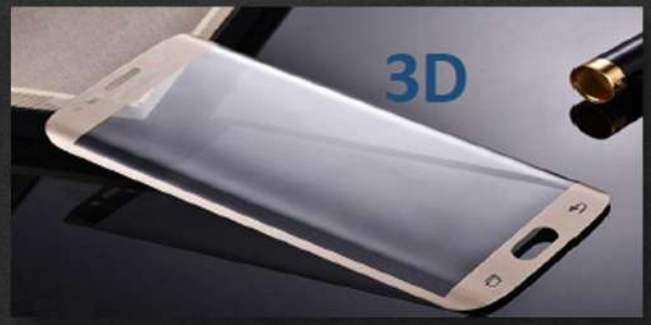
SPECIFICATION

Item/Type	Unit	PX2M81116A
Lower plate size (OD x Thickness)	mm	∅400mm x 35mm ∅400mm x 35mm (Alumunium alloy)
Upper plate size (OD)	mm	∅1135mm
Number of polishing head		5
Workpiece plate rotation speed	rpm	2-45 ± 2 rpm
Workpiece plate revolution speed	rpm	1-12 rpm
Polishing plate rpm	rpm	2-90 ± 2 rpm
Polishing plate lifting stroke	mm	350mm
Overall dimensions (L x W x H)	mm	1900 x 1500 x 2800 mm
Total weight	Kg	3000Kg

FEATURES

- Adopted gear transmission with excellent stability.
- The revolution of lower plate and rotation of workpiece plate is driven independently with stepless speed regulating.
- PLC control system and HMI system.
- Vacuum drainage and abrasives recycle system .

PRODUCT RESULT



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PX2M8690

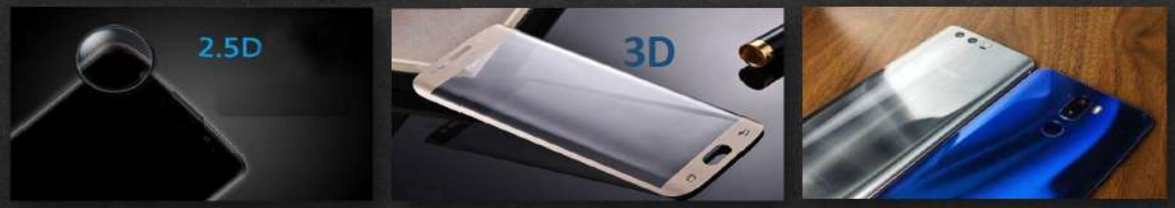
AUTOMATIC 3D CURVED SURFACE POLISHING MACHINE

It is used for polishing 2.5D/3D and arc surface of glass, zirconia, metal and non-metallic parts, and can realize continuous loading and unloading without stop. Each station cooperates with the workstations of upper plate to achieve different process design. Reserved automatic loading and unloading manipulator installation to achieve

SPECIFICATION

Item/Type	Unit	Value
Upper plate size (OD)	mm	3 x ∅ 920
Lower plate size (OD)	mm	12 x ∅ 420
Min. thickness of workpiece	mm	0.5
Max. thickness of workpiece	mm	∅ 360 (Diagonal)
Rotation speed/Revolution speed of lower plate		10-55rpm/5-28rpm (stepless)
Upper plate speed		50-280rpm (stepless)
Drive motor of upper plate		KAF57/1.5Kw
Drive motor of lower plate		FAF67/5.5Kw
Overall dimension (L x W x H)	mm	2600 x 2600 x 2700
Total weight	kg	5000

PRODUCT RESULT



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PX2M4130E

EDGE POLISHING MACHINE

PONTAX
Zero Tolerance Equipments

It is used for shaping & polishing of multi-edges (2.5D and 3D sides) of non-metal and metal frames and plates like glasses, ceramics, sapphire, aluminum alloy and stainless steel. Multi-pieces can be polished at the same time in one process, with high efficiency & good quality.

SPECIFICATION

Item/Type	Unit	PX2M4130E
Polishing head size (OD*H)	mm	Φ 310× 245
Max size of work-piece (Diagonal)	mm	200
Min size of work-piece (Diagonal)	mm	60
Max height of clamped work-pieces	mm	200
Revolving speed of polishing head	rpm	10-1500
Revolving speed of work-piece	rpm	0.5-8
Revolving motor power of polishing head	kW	2.9
Revolving motor power of work-piece	kW	1.5
Elevation motor power of polishing head	kW	0.4
Moving motor power of polishing head	kW	0.4
Number of polishing heads	unit	2
Precision of processed work-piece		Mirror finish, no grain, chip or broken edge
Profile tolerance	mm	± 0.05
Overall dimensions (L*W*H)	mm	1720× 1120× 2125
Total weight	Kg	2500

PRODUCT RESULT

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PX2M8590

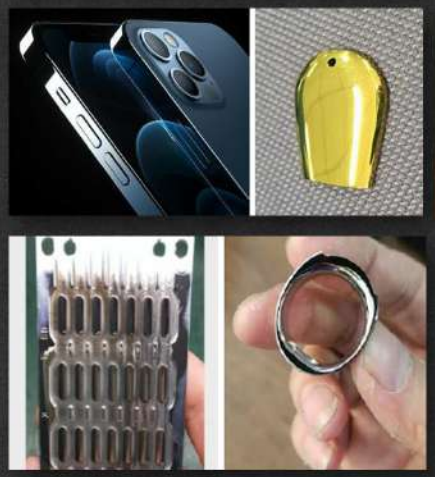
MULTI-STATION POLISHING MACHINE

It is mainly used for polishing complex surface such as arc surface and side edge, such as 3D surface of glass, ceramics, sapphire, metal, plastic, carbon fiber board and other materials.

SPECIFICATION

Item/Type	Unit	Value
Size range of work-piece	inch	1-8
Polishing wheel diameter	mm	ϕ50-ϕ100
Max. height for cylindrical polishing	mm	40
Polishing workstations	pc	5
Numbers of polishing head groups	group	4
Z-axis stroke	mm	380
Polishing head speed	r/min	100-2500
X-axis stroke	mm	400
Y-axis stroke	mm	350
Overall dimensions	mm	2050*2250*2340
Total weight	kg	3500+400(Automatic sandpaper replacement 400)

PRODUCT RESULT



FEATURES

- Intelligent programming platform, five-axis linkage and 3D copying.
- Full servo drive, high speed and high precision control to get precise polishing and polishing.
- Multi-station synchronization, automatic switch of abrasive to reduce polishing process.
- Automatic feeding, memory, storage, dynamic tracking function of grinding wheel.
- Change different abrasives to achieve removing the grain, rough polishing, fine polishing, mirror finish respectively.

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PX2M8169

3D MAGNETIC POLISHING MACHINE

PONTAX
Zero Tolerance Equipments

PX2M8169 3D Magnetic Polishing Machine is a newly developed polishing technology, utilizing the magnetorheological fluid under magnetic field to accomplish the polishing of surfaces (3D & all around) of workpieces in one process. This machine can be applied to the fine 3D or complex surface polishing of nonmagnetic materials like glass, ceramics, sapphire, alum alloy, stainless steel, etc.

PRODUCT RESULT

One-time overall polishing of glass plaque with convex features (sapphire), roughness of flat surface ≤ 0.001μm, **rougness of joint surface** ≤ 0.01μm

Precision polishing of cellphone (iphone 7 series) back cover with 3D features: roughness of flat surface ≤ 0.01μm, rougness of joint surface≤0.015μm, surface glossiness 110Gu.

Polishing of **complex sappire** parts in aviation.

Polishing of **ceramic back cover** of cellphones

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PXJD-500B

PONTAX
Zero Tolerance Equipments

VERTICAL HIGH-SPEED ENGRAVING AND MILLING CNC MACHINE

YHJD-500B is used for engraving & milling of metal & non-metal materials such as stainless steel, steel, aluminum, copper, glass, etc. The machines has excellent vibration suppression performance, very stable in high-precision cutting and processing of high-hardness materials.

SPECIFICATION

Item	Description	Parameter
Drive system	AC digital servo motor and drive	
Moving parts	Ball screw, linear rolling guide	High precision-grade
Worktable	Size	500×400mm
	Load	150kg
Working area	X×Y×Z	500×400×200mm
	Distance range from spindle nose to worktable surface	170~370mm
	Distance from the bottom of beam to worktable surface	300mm
Spindle	Spindle speed / power / tool holder	32000rpm / 6.0kW / HSK E40
Tool magazine	Tool magazine capacity	15pcs
Feed speed	Rapid traverse rate	15m/min
	Feed rate	10m/min
Accuracy	Position accuracy	0.008mm
	Repeatability	0.004mm
Machine dimension	Length × Width × Height	2010×1850×2300mm
Machine weight	Main body	4000kg
Machine power	Voltage	3-Phase AC380V/50Hz
	Total power	12KW
Cooling system	Multi-nozzle design, spindle cooler	
Lubrication system	Automatic grease lubrication system	
Tool sensor	Automatic tool sensor for automatic tool length compensation	
Optional Accessories	Oil mist collector: to collect and purify the generated oil mist, dust and other pollutants	

PRODUCT RESULT

FEATURES

- Adopt Yuhuan high-speed CNC controller.
- High efficiency and high precision processing.
- Excellent metal processing performance.
- Good vibration suppression performance.
- Automatic washing function, easier for machine cleaning.
- Favorable man-machine interaction interface, easy operation.

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INDOTARA®

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