



Magnetic De-burring

& Polishing Machine



Holding

CE

Magnetic De-burring Machine Inventor

Holding[®]

About SPINner

- ✓ The sPINner is a special magnetic force generating equipment motivating magnetized SUS PINs to bounce and rotate rapidly to grind workpieces uniformly
- ✓ Deburring, polishing and cleaning at the same time
- ✓ Patented in many countries





Stainless steel PINs (Abrasive material) Workpiece Water+ Grinding liquid (1~2%)

Patented high frequency alternating magnetic field

Made by Holding company in Taiwan Obtained patents from many countries

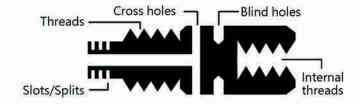
Magnetic force

generating equipment

Working Principle

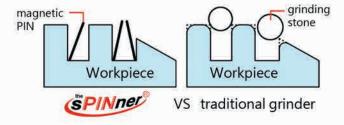
Grind Every Corner

- ✓ The magnetic PINs are thin. They can penetrate into every corner of the workpiece
- ✓ Able to grind the inside of tubes, holes and grooves without any dead corners
- ✓ Effectively remove burrs and round sharp edges
- ✓ Suitable for grinding various shapes and irregular workpieces



Suitable for all kinds of workpieces with grooves or holes





Grind for High-precision Parts

- ✓ The force of the magnetic PINs is gentle, suitable for grinding high-precision workpieces with precision requirements
- ✓ Never deform parts
- ✓ Never affects accuracy
- ✓ Never damage surfaces
- *Able to process threads, screw holes, screws, gears, thin stamping parts, long fragile workpieces, springs, shrapnel, etc.

Thin workpieces



Screws and gears



Workpieces with threads/screw holes



High-precision workpieces



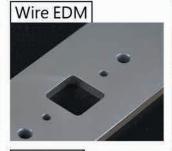


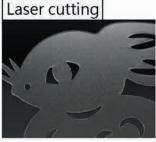
Suitable Processes

Beyond traditional Deburring/polishing/cleaning













Thermal treatment













Suitable Industries

Suitable for high-precision industries such as aerospace, semiconductor, biomedical and bicycle industries

- ✓ Bicycle indutry
- √ Aerospace industry
- √ Biomedical stainless steel and titanium parts
- ✓ CNC turning and milling parts
- √ Laser sheet metal
- √ Accessories, handicrafts
- √ Heat sinks, heat spreaders, and lead of frames
- √ High-precision stamping parts and springs
- √ Nozzles, joints, and valve parts
- √ Cleaning of semiconductor process devices

Suitable Materials

Copper, brass, aluminum alloy, stainless steel, zinc alloy, titanium alloy, hard plastic, glass fiber, carbon fiber, ceramics

Stainless steel





Aluminum alloy



Zinc alloy

Copper/brass





Deburring & Round Sharp Edges

The sPINner can effectively remove small burrs caused by machining and cutting, and slightly round the sharp edges to make the workpiece smooth.

It can uniformly remove the burrs in holes, tubes, and slots.

It is also useful for removing mold burrs of die-casting parts.

√ CNC lathing/milling

√ Stamping

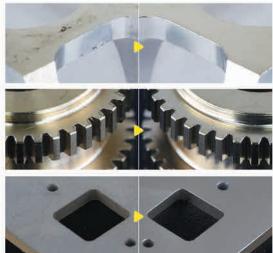
✓ Die casting

√ Laser cutting √ Wire EDM

✓ Cutting √ Hobbing ✓ Powder metallurgy

✓ Plastic, glass fiber, carbon fiber machining







Surface Treatment

The sPINner can quickly remove tool marks and scratches, rusty layers of steel/iron and oxide layers of copper/aluminum.

It can also recover laser scorch marks and oxidative discoloration caused by heat treatment as well as restore brightness and reduce color difference.

- ✓ Remove turning and milling tool marks ✓ Remove oxide layer from copper parts ✓ Reduce surface color difference

- √ Improve surface roughness
- √ Rust removal of steel and iron parts
- ✓ Remove heat treatment oxidized layer

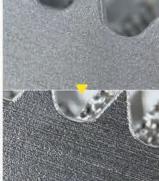
- √ Remove surface scratches
- √ Surface matte treatment
- √ Reduce layer texture from 3D printing
- ✓ Improve electroplating, anode surface uniformity & image and text clarity
- ✓ Remove laser scorch marks & spatter marks















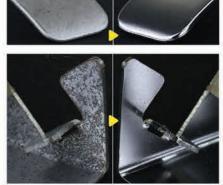


Polishing

The sPINner can slightly remove the metal surface layer, resulting in a matte/sub-mirror finishing and greatly increasing the metallic luster.

Dead corners such as holes and pipes can also be polished.

- √ Matte/sub-mirror polishing
- ✓ MIM parts polishing
- ✓ Increase metallic luster
- √ Brass, copper polishing.
- ✓ Aluminum/zinc die casting polishing
- ✓ Polishing of casting and forged parts
- ✓ Irregular surface polishing
- √ Metal 3D printing polishing
- √ Stainless steel 2B/No.1 surface polishing









Cleaning

The patented magnetic technology motivates the PINs, like a fluid steel brushes, to clean every corner of the workpieces without any dead corners.

Never damage and never deform the base material.

Compared with traditional methods, the sPINner can batch cleaning the process deposition on the semiconductor device.

The grinding liquid used is non-corrosive, environmentally friendly, non-toxic, and without recycling problem.

- √ Remove process depositions
- ✓ Pump and turbine blade cleaning
- √ Remove machining scarps

- ✓ Semiconductor device cleaning
- ✓ Cleaning of water /oil pipelines, heating and pipe components







Standard Model



-Effective grinding range

Central invalid area

The sPINner uses a patented magnetic field to drive the PINs to bounce and rotate rapidly to evenly grind all parts of the workpiece.

The standard series include grinding areas ranging from Φ280mm to Φ830mm.

The user can choose according to the workpiece output,

material, and size.

HD-790 Max grinding capacity 18KG

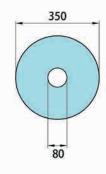
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HD-750 Max grinding capacity 8KG



HD-735 Max grinding capacity 3KG





HD-765 Max grinding capacity 12KG

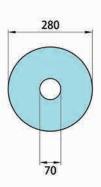


HD-745 Max grinding capacity 5KG



HD-728 Max grinding capacity 1KG





(unit: mm)

(The maximum grinding capacity is estimated for solid, small, non-magnetic stainless steel or copper workpieces. The actual grinding capacity depends on the material, shape and conditions of the workpiece.)

MONETIC DE-BURRING & POLISHING MACHINE

HD-790



Features:

- The largest sPINner in the standard series
- · Max grinding capacity: 18kg
- · Max grinding area Ф830mm
- According to the size and quantity of workpieces, users can choose different sizes and shapes of flat-bottomed plastic containers
- 3-stage grinding programs with independent adjustment functions for grinding force (speed), grinding time and rotation direction

Powerful version HD-790F (P.12)

Power	Accessories	
3 phase AC220/380V(50/60HZ	1. Stainless pins : 24KG	
Weight	2. Plastic container : 2sets	
340KG	3. Separating container: 1set 4. PIN collector: 2sets	
Container size (LxW)	5. Grinding liquid (20,000c.c.)	
Ф830x250mm	6. Operation manual	
Max grinding ca	picity (reference)	
Stainless steel (Non-Magnet	c), Copper 18KG	
Stainless steel (Magne Aluminum, Zinc, Iron, S	tic), 7.5KG	
Machine size (LxWxH)	1050x1140x1220mm	











Features::

- · Max grinding capacity: 12kg
- · Max grinding area Φ650mm
- According to the size and quantity of workpieces users can choose different sizes and shapes of flat-bottomed plastic containers
- 3-stage grinding programs with independent adjustment functions for grinding force (speed), grinding time and rotation direction

Powerful version HD-765F (P.12)

Power	Accessories	
3 phase AC220/380V(50/60HZ)	1. Stainless pins : 12KG	
Weight	2. Plastic container: 2sets	
234KG	3. Separating container: 1set 4. PIN collector: 1set	
Container size (LxW)	5. Grinding liquid (12,000c.c.)	
Ф650x250mm	6. Operation manual	
Max grinding cap	icity (reference)	
Stainless steel (Non-Magnetic)	, Copper 12KG	
Stainless steel (Magnetic Aluminum, Zinc, Iron, Ste	c), sel 5KG	
Machine size (LxWxH)	960x1000x1100mm	









Features:

- · Max grinding capacity: 8kg
- Max grinding area Φ500mm
- · According to the size and quantity of workpieces users can choose different sizes and shapes of flat-bottomed plastic containers
- · 2-stage grinding programs with independent adjustment functions for grinding force (speed), grinding time and rotation direction

Power	Accessories	
Single phase AC220/380V(50/60HZ)	1. Stainless pins : 6KG	
Weight	2. Plastic container : 2sets	
150KG	3. Separating container : 1: 4. PIN collector : 1set	
Container size (LxW)	5. Grinding liquid (6,000c.c.)	
Ф500x245mm	6. Operation manual	
Max grinding capic	ity (reference)	
Stainless steel (Non-Magnetic), (Copper 8KG	
Stainless steel (Magnetic), Aluminum, Zinc, Iron, Stee	3KG	
Machine size (LxWxH)	810x790x1070mm	













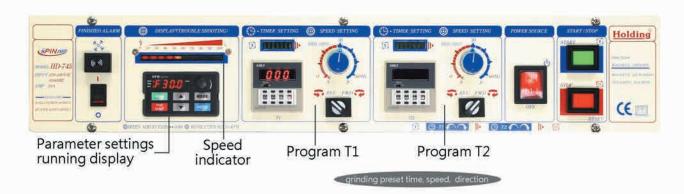
Features:

- · Max grinding capacity: 5kg
- · Max grinding area Φ400mm
- According to the size and quantity of workpieces users can choose different sizes and shapes of flat-bottomed plastic containers
- 2-stage grinding programs with independent adjustment functions for grinding force (speed), grinding time and rotation direction

Grinding container:



Power	Accessories	
Single phase AC220/380V(50/60HZ)	1. Stainless pins : 5KG	
Weight	2. Plastic container : 2sets	
135KG	3. Separating container: 1set 4. PIN collector: 1set	
Container size (LxW)	5. Grinding liquid (5,000c.c.)	
Ф400x235mm	6. Operation manual	
Max grinding capi	icity (reference)	
Stainless steel (Non-Magnetic),	Copper 5KG	
Stainless steel (Magnetic) Aluminum, Zinc, Iron, Stee	2KG	
Machine size (LxWxH)	610x700x1120mm	









- Accessories Power Single phase AC220/380V(50/60HZ) 1. Stainless pins: 4KG 2. Plastic container: 2sets Weight 3. Separating container: 1set 100KG 4. PIN collector: 1set Container size (LxW) 5. Grinding liquid (4,000c.c.) 6. Operation manual Ф350x200mm Max grinding capicity (reference) Stainless steel (Non-Magnetic), Copper 3KG Stainless steel (Magnetic), 1.5KG Aluminum, Zinc, Iron, Steel Machine size (LxWxH) 560x630x1020mm

- Max grinding capacity: 3kg
- Max grinding area Φ350mm
- · 2-stage grinding programs with independent adjustment functions for grinding force (speed), grinding time and rotation direction



HD-728



Grinding container:



- · Max grinding capacity: 1kg
- Max grinding area Φ280mm
- · 2-stage grinding programs with independent adjustment functions for grinding force (speed), grinding time and rotation direction

Power	Accessories	
Single phase AC220/380V(50/60HZ	1. Stainless pins : 2KG	
Weight	2. Plastic container : 2sets	
65KG	3. Separating container : 1se 4. PIN collector : 1set	
Container size (LxW)	5. Grinding liquid (2,000c.c. 6. Operation manual	
Ф260x270mm		
Max grinding ca	picity (reference)	
Stainless steel (Non-Magnetic), Copper 1KG	
Stainless steel (Magnet Aluminum, Zinc, Iron, St	ic), eel 0.5KG	
Machine size (LxWxH)	410x530x970mm	







Powerful Model



Powerfully upgraded version of the sPINner, with high-density magnetic field, increasing the grinding force & height, also shortens the grinding time.

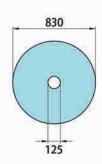


HD-790F Max grinding capacity 18KG

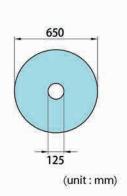


Max grinding capacity 12KG





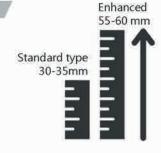




Enhanced Magnetic Field









Magnetic flux density increase by

150~250%

Grinding force enhance by 80~120%

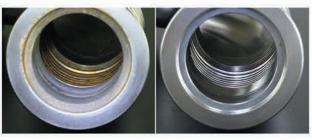
Grinding height increase by 50~80%

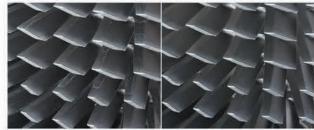
Grinding time shorten by 20~50%

Application Examples

- · CNC aluminum molds and aluminum shells
- √ Tooling mark removal ✓ Brilliant treatment ✓ Polishing
- √ Surface homogenization √ Surface refinement
- Semiconductor equipment cleaning
- ✓ Cleaning of oil and water pipelines ✓ Clean the pump blades
- √ Remove the surface depositstions of semiconductor process
- √ Improve the surface roughness of the inner tube wall









HD-790F



Features:

- Max grinding area Φ830, grinding height 55~60mm
- According to the size and quantity of workpieces users can choose different sizes and shapes of flat-bottomed plastic containers
- 3-stage grinding programs with independent adjustment functions for grinding force (speed), grinding time and rotation direction

Power	Accessories	
3 phase AC220/380V(50/60HZ)	1. Stainless pins : 24KG	
Weight	2. Plastic con	
345KG	3. Separating container: 14. PIN collector: 2sets5. Grinding liquid (20,000c6. Operation manual	
Container size (LxW)		
Ф830x250mm		
Max grinding ca	picity (referen	ce)
Stainless steel (Non-Magnetic), Copper		18KG
Stainless steel (Magnetic), Aluminum, Zinc, Iron, Steel		7.5KG
Machine size (LxWxH)	1050x1140x1220mm	

HD-765F



Features:

- Max grinding area Φ650, grinding height 55~60mm
- According to the size and quantity of workpieces users can choose different sizes and shapes of flat-bottomed plastic containers
- 3-stage grinding programs with independent adjustment functions for grinding force (speed), grinding time and rotation direction

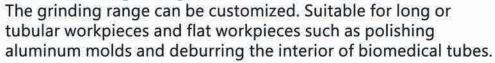
Power	Accessories	
3 phase AC220/380V(50/60HZ)	1. Stainless pins : 12KG	
Weight	2. Plastic container : 2sets	
250KG	3. Separating container : 1s 4. PIN collector : 1set	
Container size (LxW)	5. Grinding liquid (12,000c.c.)	
Ф650x250mm	6. Operation manual	
Max grinding ca	picity (reference)	
Stainless steel (Non-Magnet	ic), Copper 12KG	
Stainless steel (Magne Aluminum, Zinc, Iron, S	tic), Steel 5KG	
Machine size (LxWxH)	960x1000x1100mm	



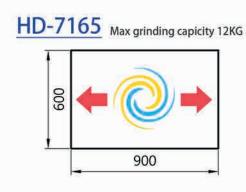
Holding[®]

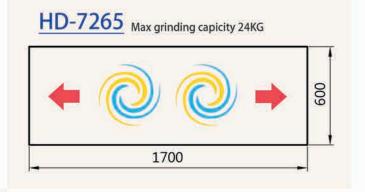
Parallel Model

The parallel model of the sPINner can be equipped with multiple magnetic force generating devices, which move in parallel to increase the grinding area.

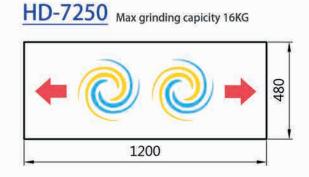


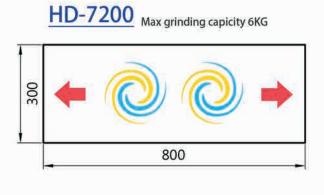


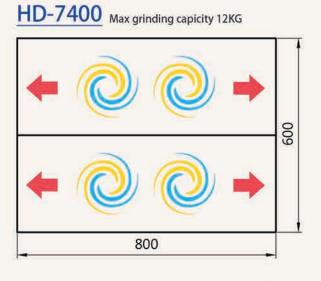


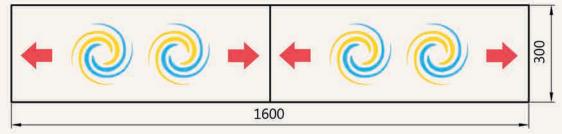












(unit:mm)



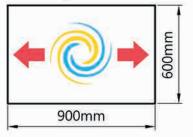


Features:

- Patented magnetic base design for left and right parallel movement, able to grind workpieces uniformly without dead corners
- · Grinding area 900(L)x600(W)mm
- Can be equipped with enhanced grinding magnetic field (HD-7165F) Increased magnetic flux density 150-250%, effectively enhance grinding force & increases grinding height
- Suitable for long workpieces and flat workpieces
- · Suitable for long biomedical tubes
- Suitable for large aluminum molds and aluminum shells

Grinding area:

Power	Accessories	
3 phase AC220/380V(50/60HZ)	1. Stainless pins: 15KG	
Weight	2. Customized PP rectangular container: 1set	
281KG	3. HD-765 round PP grinding container: 1set	
Max grinding area (LxW)	4. Separating container: 1set 5. PIN collector: 2sets	
900x600mm	6. Grinding liquid (15,000c.c) 7. Operation manual	
Max grinding ca	picity (reference)	
Stainless steel (Non-Magnetic	c), Copper 12KG	
Stainless steel (Magnet Aluminum, Zinc, Iron, St	ic), eel 6KG	
Machine size (LxWxH)	1360x1070x1365mm	











Features:

- Patented magnetic base design for left and right parallel movement, able to grind workpieces uniformly without dead corners
- Grinding area 700(L)x480(W)mm
- Suitable for long workpieces and flat workpieces
- Suitable for long biomedical tubes
- Suitable for large aluminum molds and aluminum shells

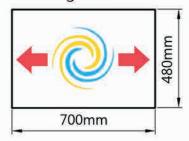
Power Accessories 1. Stainless pins: 8KG Single phase AC220/380V(50/60HZ) 2. Customized PP rectangular container: 1set Weight 3. HD-750 round PP grinding 200KG container: 2sets 4. Separating container: 1set Container size (LxW) 5. PIN collector: 2sets 6. Grinding liquid (8,000c.c) 700x480mm 7. Operation manual Max grinding capicity (reference) Stainless steel (Non-Magnetic), Copper 8KG

Stainless steel (Magnetic),

Aluminum, Zinc, Iron, Steel

Machine size (LxWxH)

Grinding area:



Grinding container (examples):





4KG

1270x850x1370mm

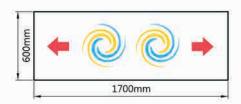


HD-7250

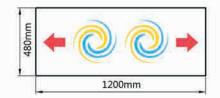




- Patented dual magnetic bases + left and right parallel movement design, able to grind workpieces uniformly without dead corners
- · Independent dual spindles, can be operated separately
- · Suitable for long biomedical tubes, aluminum molds, and aluminum shells









Power	Accessories	
3 phase AC220V/380V(50/60HZ)	1. Stainless pins : 30KG	
Weight	2. Plastic container : 2sets	
330KG	 Separating container: 1s PIN collector: 3sets 	
Effective grinding area	5. Grinding liquid (27,000c.c)	
1700x600mm	6. Operation manual	
Max grinding c	apicity (reference)	
Stainless steel (Non-Magnet	tic), Copper 24KG	
Stainless steel (Magn Aluminum, Zinc, Iron,	etic), Steel 12KG	
Machine size (LxWxH)	2500x1100x1300mm	

Power	Accessories		
3 phase AC220/380V(50/60HZ)	1. Stainless pins : 16KG		
Weight	2. Plastic container : 2sets		
230KG	3. Separating container: 1set 4. PIN collector: 3sets		
Effective grinding area	5. Grinding liquid (14,000c.c		
1200x480mm	6. Operation manual		
Max grinding o	apicity (reference)		
Stainless steel (Non-Magne	etic), Copper 16KG		
Stainless steel (Magr Aluminum, Zinc, Iron	netic), , Steel 8KG		
Machine size (LxWxH) 2022x830x1370mm			







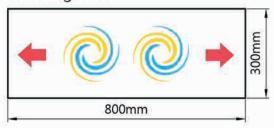


Features:

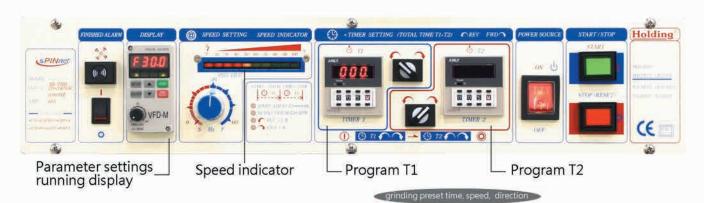
- Patented dual magnetic bases+ left and right parallel movement design, able to grind workpieces uniformly without dead corners
- · Grinding area 800(L)x300(W)mm
- Independent dual spindles, can be operated separately
- Suitable for long biomedical tubes
- Suitable for aluminum molds and aluminum shells

Power	Accessories	
3 phase AC220/380V (50/60HZ)	1. Stainless pins : 12KG	
Weight	2. Plastic container : 2sets	
500KG	3. Separating container : 19 4. PIN collector : 3sets	
Effective grinding area	5. Grinding liquid (12,000c.c)	
800x300mm	6. Operation manual	
Max grinding ca	picity (reference)	
Stainless steel (Non-Magnet	cic), Copper 6KG	
Stainless steel (Magn Aluminum, Zinc, Iron,	etic), Steel 3KG	
Machine size (LxWxH)	1480x670x1100mm	

Grinding area:













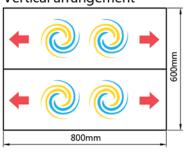


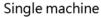


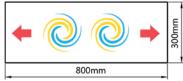


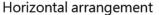
Dual-machine alignment

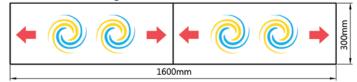
Vertical arrangement











Features:

- Dual-machine design, can be aligned vertically or horizontally.
- Patented dual magnetic bases + left and right parallel movement design, able to grind workpieces uniformly without dead corners
- Independent dual spindles, capable of stand-alone operation
- Suitable for grinding and polishing extra long or extra large workpieces
- Can be flexibly operated alone or combined
- · Longest grinding size: 300×1600mm
- · Widest grinding size: 600×800mm

Power	Accessories		
3 phase AC220/380V(50/60HZ)	1. Stainless pins: 24KG 2. Plastic container: 4sets 3. Separating container: 1se 4. PIN collector:5 sets 5. Grinding liquid (20,000c.c) 6. Operation manual		ns : 24KG
Weight			
1000KG			
Controller size (LxWxH)			
525x325x1050mm			nanual
Max grinding capicity (reference)			
Stainless steel (Non-Magnetic), Copper		12KG	
Stainless steel (Magnetic), Aluminum, Zinc, Iron, Steel		6KG	
Standalone size (LxWxH)		1480x680x765mm	





Circular Model

High-capacity, Automated, Labor-saving Model

Circular model integrates multiple grinding areas together with a center-rotating worktable. It can grind multiple tanks of workpieces at the same time and reduce operating manpower. It equips a friendly HMI (hum-machine interface) and a PLC controller.

Many operation modes can be selected. It can communicate with external controllers through common protocols and I/O, and it can interact with robot arms to achieve full automation.

It supports many intelligent functions such as: saving and loading parameters as recipes; recording production history; managing accessing permissions; and recording abnormal alarms.







Fully Customized Machine

This model can be customized in many aspects according to the size and output of workpieces, such as the number of grinding areas, the size of the grinding area, and the operation models. The HMI can be integrated into the machine or at an external control box. The user interface and external handshaking can also be customized.



HD-7445



Power	Accessories		
3 phase AC220/380V (50/60HZ)	 Stainless pins: 20KG Plastic container: 4sets Separating container: 2sets PIN collector: 5sets Grinding liquid (20,000c.c) 		
Weight			
400KG			
Container size			
Ø390x300mm	6. Operation manual		
Max grinding ca	picity (reference)		
Stainless steel (Non-Magne	etic), Copper 1 tank : 5KG 4 tanks : 20KG		
Stainless steel (Mag Aluminum, Zinc, Iror	netic), 1 tank : 2KG n, Steel 4 tanks : 8KG		
Machine size (LxWxH)	1276x1270x1710mm		



HD-7450C



Power	Accessories	
3 phase AC220/380V (50/60HZ)	 Stainless pins: 24KG Plastic container: 4sets Separating container: 2sets PIN collector: 5sets Grinding liquid (24,000c.c) Operation manual 	
Weight		
450KG		
Container size		
Ø480x300mm		
Max grinding capicity (reference)		
Stainless steel (Non-Magne	tic), Copper 1tank : 8KG 4tanks : 32KG	
Stainless steel (Magr Aluminum, Zinc, Iron	netic), 1tank : 3KG , Steel 4tanks : 12KG	
Machine size (LxWxH)	1470x1470x1710mm	

HD-7645C

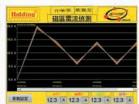


Power	Accessories		
3 phase AC220/380V (50/60HZ)	1. Stainless pins: 30KG		
Weight	2. Plastic container: 6sets3. Separating container: 2sets4. PIN collector: 7sets5. Grinding liquid (30,000c.c)6. Operation manual		
500KG			
Container size			
Ø390x300mm			
Max grinding ca	picity (reference)		
Stainless steel (Non-Magne	tic), Copper 1tank : 5KG 6tanks : 30KG		
Stainless steel (Magr Aluminum, Zinc, Iron	netic), 1tank : 2KG , Steel 6tanks : 12KG		
Machine size (LxWxH)	1480x1470x980mm		

HMI Rreference:













Magnetized Stainless Steel PIN

The PINs are semi-permanent abrasive media and can be used for many years.

The gentle grinding force will not deform or damage the workpiece, nor affect accuracy.

The PINs come in various sizes and shapes and can be selected according to the material and shape, burr size, and surface roughness requirement of the workpiece.

PIN selection guide:

- 1. According to the material of the workpiece: the thicker PIN, the stronger the grinding force
- 2. According to the size of the hole: to prevent the PINs from jamming
- 3. According to the burr size and surface roughness requirement



Standard

PIN NO. **S5** 59 S1 S2 **S3 S4 S6 S7 S8** Ф0.3×5 Φ0.4×5 Ф0.5×5 Ф0.7×5 Ф0.8×5 Ф1.0×5 Φ1.2×5 Φ1.5×5 Φ2.0×5 Φ×length

Other PIN diameter: 0.1, 0.15, 0.2 ~ 1.0, 1.2, 1.5, 2.0mm; PIN length: 1~10mm; all can be customized

PIN NO. P1 P2 **P3** P4 P5 P6 **P7** P8 **P9** P10 Φ×length Φ0.2×5 Ф0.3×3 Φ0.4×3 Φ0.5×1 Ф0.5×3 Ф0.7×3 Ф0.8×3 Φ1.0×1 Φ1.0×3 Φ1.2×3

Special

A variety of special-shaped grinding magnetic PINs have been designed, including L-shaped, U-shaped, Z-shaped, M-shaped, Ω-shaped, 45° bevel PINs and round-head PINs, etc., to achieve the following effects

1. Reduce the probability of the PIN getting stuck in the hole of the workpiece

2. Enhance the matte effect 3. Achieve a sub-mirror polishing effect



L5 L1 L3 L-shaped Ф0.5×7×7 Φ0.7×5×5 Φ0.7×7×7 Ф0.5×5×2 Ф0.5×5×5 Φ×L×L 45° Bevel A1 A2 A3 A4 Φ×L Ф1.0×7 Φ1.0×10 Φ1.5×7 Φ1.5×10



45° Bevel



L-shaped











Round-head R1

Ф0.7×3

U-shaped U1

Ф0.7×3×4×3

Z-shaped Z1

Ф0.7×2×4×2

M-shaped M1

Ф0.7×2×3×3×2

 Ω -shaped Ω 1 Ф0.7×4×6×4

120°

 Ω -shaped Ω 2 Ф0.7×3×4×3 180°

(unit:mm)

Machine Specifications

Model	Size(LxWxH)	Grinding area(LxW)	Power	Weight
HD-790	1050x1140x1220mm	Ф830mm	3phase 220/380V (50/60HZ)	340kg
HD-765	960x1000x1100mm	Ф650mm	3phase 220/380V (50/60HZ)	234kg
HD-750	810x790x1070mm	Ф500mm	single phase 220/380V (50/60HZ)	150kg
HD-745	610x700x1120mm	Ф400mm	single phase 220/380V (50/60HZ)	135kg
HD-735	560x630x1020mm	Ф350mm	single phase 220/380V (50/60HZ)	100kg
HD-728	410x530x970mm	Ф280mm	single phase 220/380V (50/60HZ)	65kg
HD-7165	1360x1070x1365mm	900x600mm	3phase 220/380V (50/60HZ)	281kg
HD-7150	1270x850x1370mm	700x480mm	single phase 220/380V (50/60HZ)	200kg

Grinding Liquid

Grinding liquid has the following functions: polishing, cleaning, rust prevention, lubrication, and cooling. The grinding liquid has passed SGS and RoHS certification and complies with the environmental standards with an ingredient list and safety data sheet (SDS).

Packaging capacity: ①5 gallons (20 liters)/barrel ②1 liter/bottle

HD-233	Stainless steel, copper, aluminum, titanium alloy and other non-magnetic materials		(Dilute with water 50~100 times before use)
HD-903	903 Iron, carbon steel and other materials that will rust		(Dilute with water 50~100 times before use)
HD-293	Neutral type for die-casting magnesium and aluminum alloy		(Dilute with water 50~100 times before use)
HD-160CB	For copper and brass to prevent oxidation	(Dilute 10 times with water before use, soak after magnetic grinding)	
HD-201	Deoxidizer for aluminum alloy to remove oxide layer	(Dilute 10 times with water before use, soak before magnetic grinding)	







HD-903(Anti-rust type)



HD-293(neutral type)

Containers

Every series of the sPINner model is equipped with a matching grinding container.

The large models are equipped with customized PP containers.

The grinding container can be flexibly selected according to the size, quantity, and shape of the workpieces. Any plastic container with a flat bottom and high enough walls can be used for grinding.





For 750

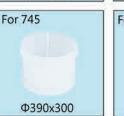
Commercial containers













Ф500x245

















(unit:mm)



Standard sPINner



Revolutionary deburring technology. Uniform grinding for high precision parts.

Parallel sPINner



Parallel moving magnetic field. For long and wide parts.

Powerful sPINner

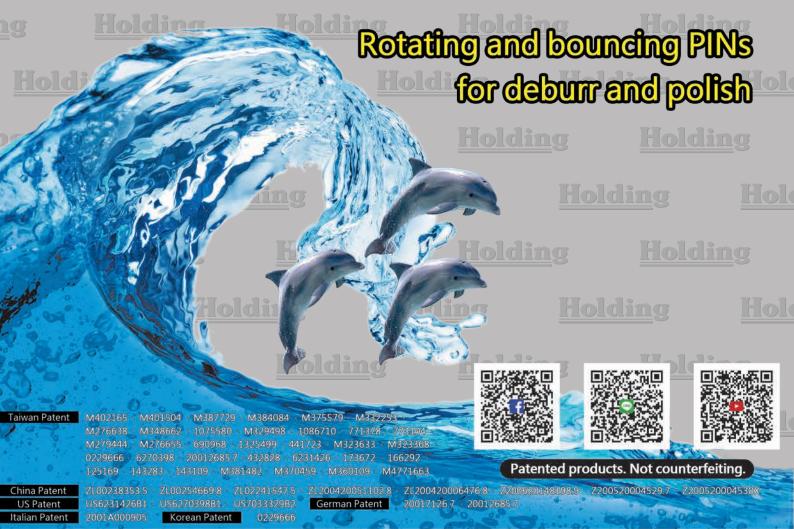


Magnetic field strength 150~250% UP. For high parts.



Circular sPINner

Circular pipeline mechanism. For automation production.





CE, RoHS, SGS certified

HOLDING ELECTRIC CO., LTD.

E-mail: hd@holding.com.tw www.holding.com.tw



