sPINner Deburring

The sPINner machine batch deburrs small precision parts FAST!

- *medical parts - swiss turned*
- *drilled or threaded parts*
- *machined or stamped parts*

- *eliminate hand deburring*
- *deburr parts faster & better*
- *improve quality of parts*

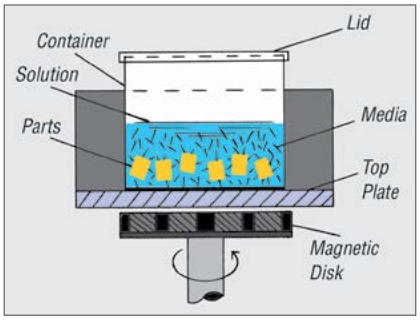
Send us your parts for free testing. See what the sPINner can do for you.

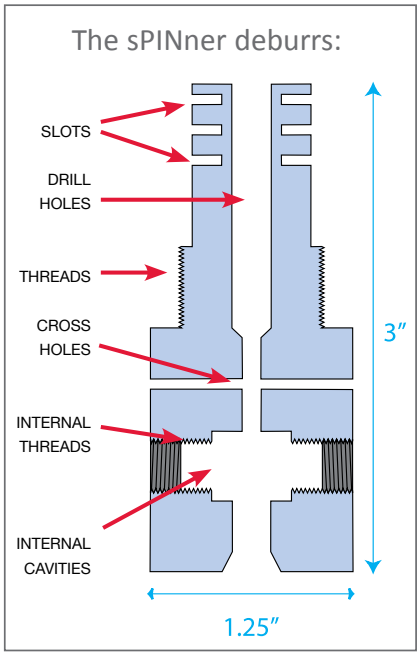
Send your parts to Mike Smalley, Deburring Specialist.
He will deburr your parts and provide a complete report including media used, deburring time, and photo results.

Techniks sPINner Deburring
9930 East 56th St.
Indianapolis, IN 46236

The sPINner Deburring Process

The sPINner deburrs both internal and external part features.

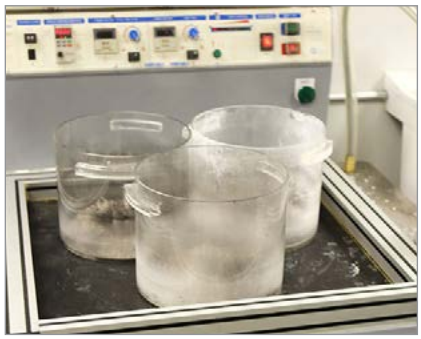




The sPINner machine quickly batch deburrs dozens or even hundreds of small, precision parts produced on machining centers, swiss-type screw machines, and lathes. This includes ferrous and non-ferrous parts produced for the medical, electronics, and other industries.

The sPINner's unique, stainless steel pin media removes light burrs and flash without harming the part. Because the media is magnetically activated it can ***deburr internal cavities, slots, holes, and even blind holes.*** All parts are automatically demagnetized at the end of the cycle.

Deburring setup and machine operation

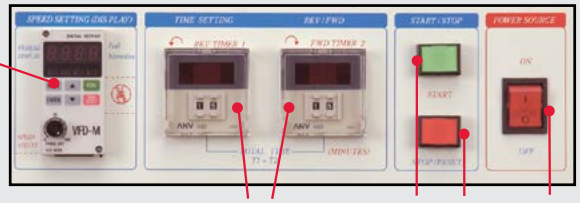


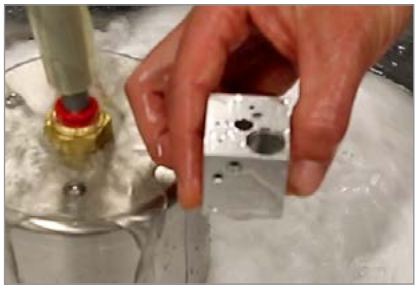
1. Setup your deburring containers on the sPINner. Use multiple containers to increase capacity if needed.

2. Put your pin media and parts into container and fill with water until parts are submerged. Add PFS-747 deburring solution 50:1 ratio.

3. Set the time, speed and duration and press the start button. The sPINner alarm will sound when deburring is complete.

Typical deburring duration is 10-20 minutes. Each sPINner includes adjustable speed & intensity controls with programmable timers for each direction.





See the sPINner in action on our youtube channel. http://ow.ly/X03Nc

Send us your parts for a free deburring test. We will provide a full report with photos!

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Six Case-Study Application Examples

sPINner Key Points

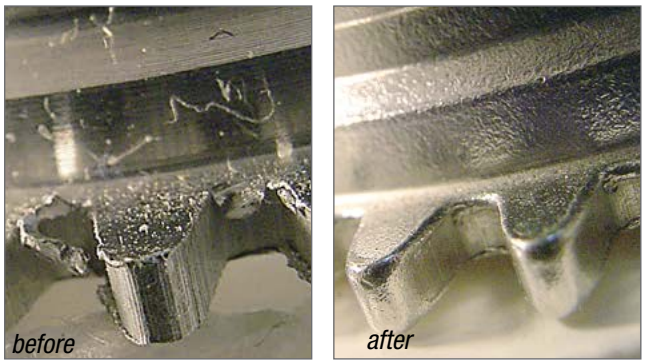
A. Deburring is fast and media will not harm part or affect tolerances
B. Deburrs parts 100% inside & out. Deburrs where hand deburring cannot
C. Great for irregular parts, internal holes, blind angles, cavities, etc.
D. sPINner media lasts 3-5 years and is safe to handle during operation
E. Filtration system and parts separator available for high volume needs

Other Applications Include:

Surface polishing
Pre-electroplating processing
Removing heat treat scaling
Oxidized grease/film cleaning
Removing rust/cleaning threads

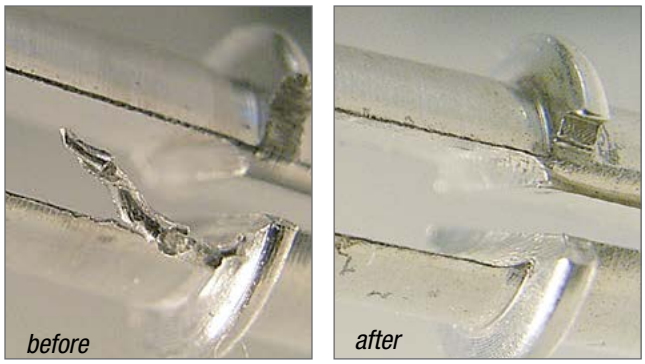
1. Aluminum Gear Application

Burrs and rough edges. Deburred part in 10 minutes. Part Dimensions: 1 9/16" diameter x 5/16" high.



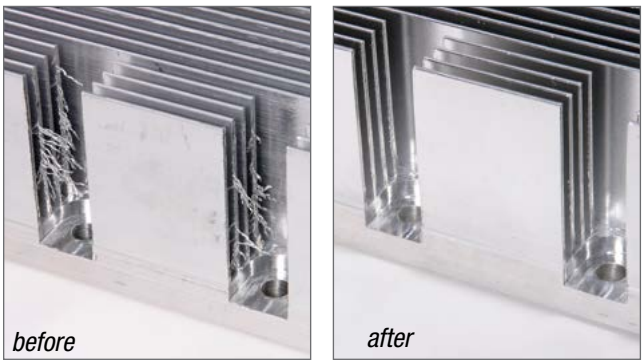
2. Complex Turned & Machined Aluminum

Burrs on O.D. and in I.D. slots. Batch deburring in 10 minutes. Part Dim. 3/16" diameter x 1 3/16" long.



3. Aluminum Cooling Fins

Long burrs and rough edges. Deburred part in 15 minutes. Part Dim. 4.75 x 2.125” x 2.75”

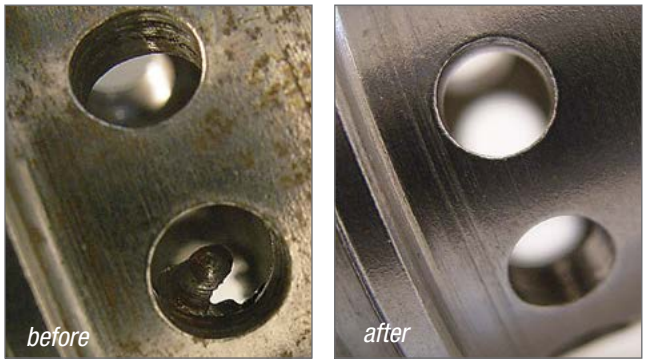


4. SCUBA Regulator Valve Part (4140 steel)

Burrs and flash left behind. Batch deburred parts in 10 minutes. Part Dim. 1.25" diameter x 1.25" long.

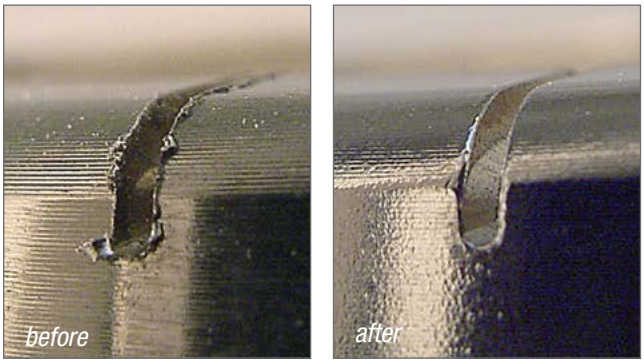
5. Stainless Steel Turned and Machined Part

Internal cavity burrs left in cross-drilled holes Eliminated costly hand deburring and improved quality. Part Dim. 3/4" diameter x 1 7/16" long.



6. Slot in Light Alloy Collar 0.01” Diameter

Fine burrs in hard-to-reach slotted area. Eliminated part quality problem and saved labor costs. Part Dimensions: 1 7/32" diameter x 1/8" high.



sPINner Machines and Media

Machines include: 1 deburring container, 1 gallon PFS-747 deburring solution, a media sieve, and operations manual. Media is specific to your part (see below). For high-volume deburring needs order the EDH-SFS200 filtration system and 660 parts and media separator with your machine.

728 735 750 765 7200

sPINner Media is made from SUS 304 stainless steel and hardened to HRC 30, with a magnetic treatment that enhances deburring action. It is sold in 2.2 lb. packages. Contact Mike Smalley at 877.354.3837 for assistance selecting the right media for your part.

Use a diameter of media bigger than 0.5mm to deburr hard materials (stainless steel etc.) or if you need to increase deburring power. Use diameters less than 0.5mm for soft material (brass, copper, aluminum)To deburr small holes, choose a pin diameter smaller than the hole. 3mm length media will work better for small holes and crevices.

Filtration unit continuously cleans deburring fluid, minimizing machine downtime for water changes.

660 parts / media separator

PFS-747 1-gallon
PFS-7475G 5-gallon

PIN No.	Dia. x Length	Size
EHD-S1	0.2mm x 5mm	
EHD-P1	0.3mm x 3mm	
EHD-S2	0.3mm x 5mm	
EHD-S13	0.3mm x 7mm	
EHD-P2	0.4mm x 3mm	
EHD-S3	0.4mm x 5mm	
EHD-P3	0.5mm x 1mm	
EHD-P4	0.5mm x 3mm	
EHD-S4	0.5mm x 5mm	

PIN No.	Dia. x Length	Size
EHD-P5	0.7mm x 3mm	
EHD-S5	0.7mm x 5mm	
EHD-P6	0.8mm x 3mm	
EHD-S6	0.8mm x 5mm	
EHD-P7	1.0mm x 1mm	
EHD-P8	1.0mm x 3mm	
EHD-S7	1.0mm x 5mm	
EHD-A1	1.0mm x 7mm	
EHD-P41	1.0mm x 10mm	

PIN No.	Dia. x Length	Size
EHD-P10	1.2mm x 3mm	
EHD-S8	1.2mm x 5mm	
EHD-P42	1.2mm x 10mm	
EHD-P9	1.5mm x 3mm	
EHD-S9	1.5mm x 5mm	
EHD-A3	1.5mm x 7mm	
EHD-P43	1.5mm x 10mm	
EHD-S10	2.0mm x 5mm	

Machine No.	L x W x H	Tank Size L x W	Container W x H	Power Supply	Amps	Weight
EHD-728	19" x 19" x 37"	11" x 11"	9" x 8"	220V single phase	5	160 lbs.
EHD-735	23" x 26" x 34"	15" x 16"	13" x 9"	220V single phase	10	220 lbs.
EHD-750	29" x 30" x 36"	21" x 23"	19" x 10"	220V single phase	15	385 lbs.
EHD-765	37" x 39" x 43"	29" x 26.75"	25" x 10"	220V single phase	10	516 lbs.
EHD-7200	58" x 26.5" x 43"	50" x 14"	32" x 12"	220V three phase	15	1,100 lbs.
EDH-SFS200	12" x 12" 40"	N/A	N/A	110V single phase	5	75 lbs.
ESS-660	18" x 18" x 26"	18" x 18"	N/A	110V/220V	15	97 lbs.

Call Us at: 877.354.3837 or 317.803.8034 • email: *info@techniksusa.com*

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