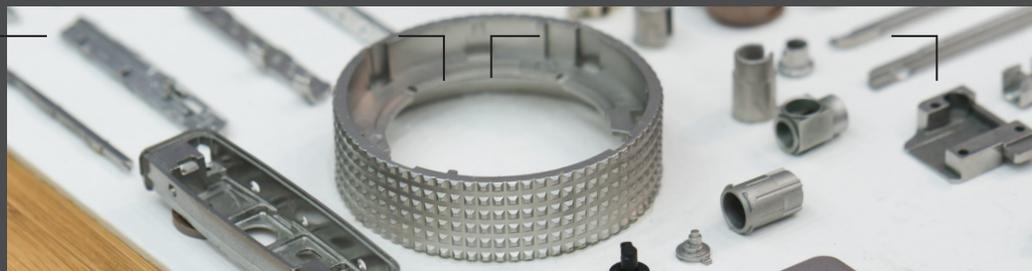
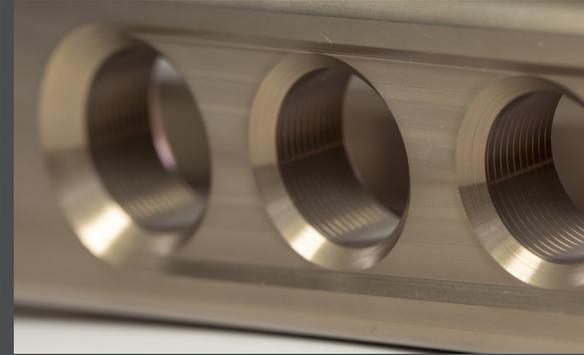
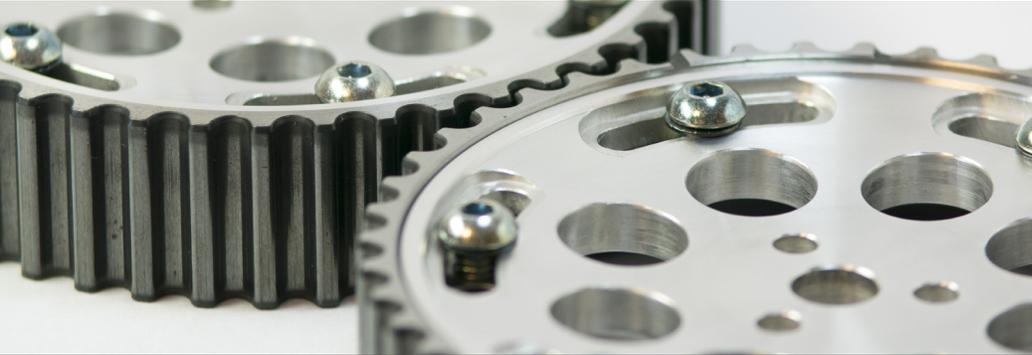




SPINNER MAGNETIC DEBURRING

DEBURRING | POLISHING | FINISHING



SUPERIOR DEBURRING SOLUTION FOR THE HIGHEST QUALITY PRECISION PARTS.



- Batch deburr all your small, precision parts at once.
- Magnetized pin media provides unmatched finish quality.
- Deburrs where hand deburring cannot.
- Great for irregular parts, internal holes, blind angles, cavities, etc.

Send us your parts for free testing. See the SPINner work for you!

Our deburring specialist will provide a complete report. Includes specific media used & average deburring time.



Techniks Inc. is a proud member of Techniks Tool Group.
CNC TOOLING SOLUTIONS
FROM SPINDLE TO WORKPIECE

Connect with TIG

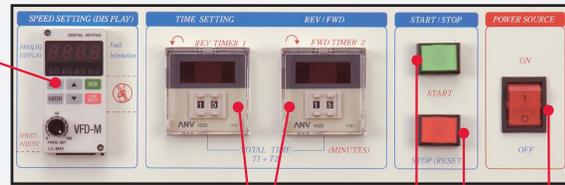


SPINNER MACHINE SETUP AND OPERATION



Each sPINner includes adjustable speed & intensity controls with programmable timers for each direction.

Speed / Intensity Control with LED display



EHD-728 control shown

Programmable Timers (clockwise & counter clockwise)

Cycle Start Cycle Stop

Power

HOW THE SPINNER WORKS

- A powerful magnet located inside the sPINner body activates a rotating magnetic field from under the sPINner well, stirring the contents within your sPINner tub.
- The tumbling action of the magnetized stainless steel pin media effectively deburrs, smooths rough edges, and polishes your parts for the highest quality finish possible.

OPERATION PROCEDURE

- Choose the container based on the amount and size of your parts.
- Place a single layer of your parts on the bottom of the container, make sure your parts are not overlapping.
- Mix water & deburring solution for a 50:1 water to solution ratio. (Add more solution for brighter, shiny parts.)
- Secure lid to container.
- Enter cycle time, adjust speed / intensity, and press START. (Note: cycle time, media size, and parts quantity will depend on your specific application.)



PARTS & MEDIA SEPARATION PROCEDURE

- Slowly drain water/solution leaving parts and media.
- Place media and parts into the separation container.
- Turn the spin frequency to about 1/2 power. Turn on the machine for about 10 seconds.
- Stop the machine. Your parts should be trapped in the top of the separation container. The pins will be pulled through the separation container to the bottom. (Repeat until media and parts are fully separated.)



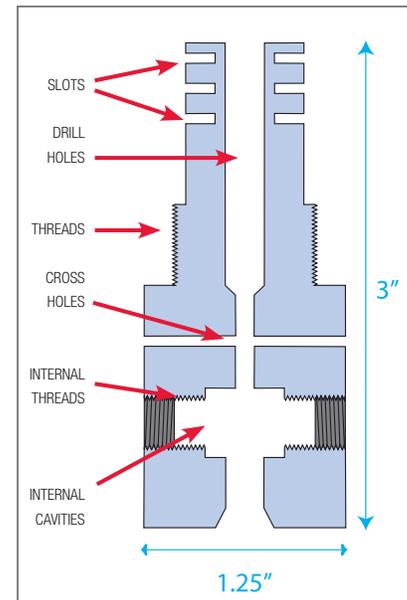
APPLICATIONS OVERVIEW & CASE-STUDY EXAMPLES

SPINNER KEY POINTS:

- Deburring is fast and media will not harm part or affect tolerances.
- sPINner media lasts 3-5 years and is safe to handle during operation.
- Filtration system and parts separator available for high volume needs.
- Does not transfer material, will not introduce new particles to your parts.

APPLICATIONS INCLUDE:

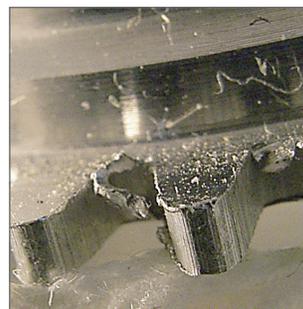
- Surface polishing
- Pre-electroplating processing
- Removing heat treat scaling
- Oxidized grease/film cleaning
- Removing rust/cleaning threads



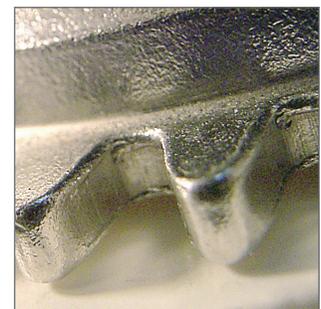
CASE-STUDY EXAMPLES

Case 1: Aluminum Gears	
Dimensions	1 9/16" diameter x 5/16" high
Problem	Soft material, irregular shape with burrs left in multiple gear gaps and rough edges.
Deburring Time	10 minutes.

BEFORE



AFTER



Case 2: Aluminum Cooling Fins	
Dimensions	4.75" x 2.125" x 2.75"
Problem	Soft material with long burrs left in multiple thin slits and rough edges.
Deburring Time	15 minutes.



Case 3: Stainless Steel Turned & Machined Part	
Dimensions	3/4" diameter x 1 7/16" long
Problem	Rusty compact cylinder with burrs left in multiple cross-drilled holes.
Deburring Time	20 minutes.



SPINNER MACHINES AND MEDIA



MACHINES INCLUDE:

- Deburring container
- PFS-747 deburring solution
- Media separator sieve
Choose media specific to your parts. (see below).

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" x 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.

SPINNER MEDIA:



- SUS 304 stainless steel pins
- Hardened to HRC 30
- Magnetically treated for enhanced effectiveness

Pin No. Dia. x Length

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

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

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

USAGE TIPS:

- Use 0.5mm diameter media or larger for hard materials or to increase deburring power.
- Use 0.5mm diameter media or smaller for softer materials.
- Use 3mm length media for parts with small holes and crevices.
- Always use media with diameters smaller than the holes of your parts.
- For high-volume deburring needs order the EDH-SFS200 filtration system and 660 parts and media separator with your machine.



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



660 parts / media separator



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