



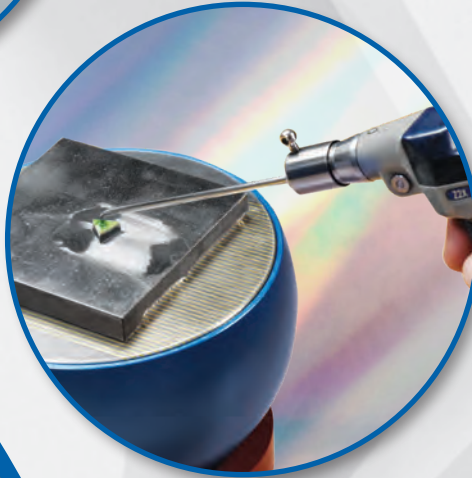
**MICRO TIG  
WELDING**

# Precision Metal Finishing

2020 Brochure



**ULTRASONIC  
POLISHING**



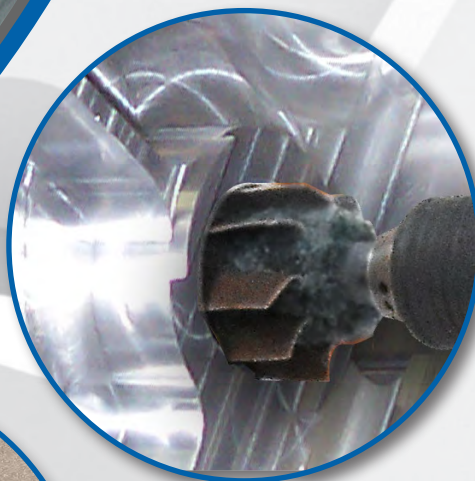
**RECIPROCATING  
TOOLS**



**DIAMOND  
POLISHING**



**BRUSHES  
AND FELTS**



**FINISHING &  
DEBURRING**



**RAPID  
PROTOTYPING**



**DIGITAL  
MICROSCOPES**





# Micro TIG Welding

Precision welding made easy

## PUK U5 Power Mold & Die

Easy to use solution for precision mold and die repairs. Produces strong, small, consistent spot welds that penetrate the mold surface. All heat is concentrated at the spot of the weld (eliminating distortion and metal stress). Backed by a one-year manufacturer's warranty. Made in Germany.



Save Time & Money!

### Applications

- Repairing parting lines, mold seams, and three point corners and edges
- Filling in pores and deep scratches on the mold surface
- Weld into slots, corners, and ribs
- Repair slides, ejectors, and core pins

Keep your mold repairs in house!

*"With the PUK U5 Mold & Die, we have reduced our laser weld outsourcing by 80%. It has also allowed us to become more efficient and flexible with scheduling repairs by eliminating the need to schedule an appointment for laser welding. The PUK U5 Mold & Die is easy to use and requires minimal training. It has quickly become a huge asset to our tooling department. "*

- Ron Evink, Tooling Supervisor at Royal Technologies

830-0957  
(Complete Package shown)  
**\$8,995.00**

**Complete Package includes:**

- Microscope with LED light
- Electrode handpiece
- Set of 0.6mm and 0.8mm electrodes
- Electrode sharpener
- Ground cables
- Argon gas regulator
- Tack resistance welder
- Foot pedal



### Save money

- Keep mold repairs in house! Stop sending out for laser and precision welding.
- Affordable alternative to a laser welder at a fraction of the cost.



### Save time

- Repair your molds the same day.
- No pre-welding heat treatment required.
- Welds quickly: 1 spot weld every 0.8 seconds!
- Small spot welds polish out quickly.



### Easy to use

- Ready to use with pre-programmed presets for most common applications.
- Takes the calculations and guess work out.
- Extremely accurate weld placement. Sharp electrode tip (0.6mm) touches the exact location of weld spot.



### Mobility

- Take the U5 welder to the press for repair!
- Magnetic microscope attaches directly to mold while still in the press!



### Minimal heat

- Prevents damaged caused by overheating of mold, thus increasing life of the tool.
- All heat is concentrated only at the spot of the weld.



# Pre-Programmed Settings

## For Steel, Aluminum, and Copper

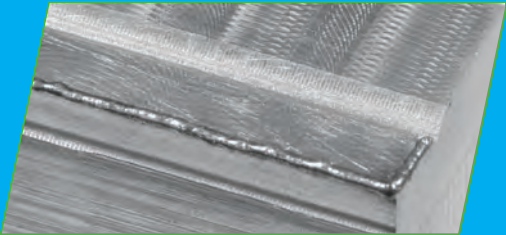
Take the guess work out! Simply select the pre-program for your mold repair application and start welding! Each pre-program is set to the optimal weld pulse and time lapse for the specific mold repair application. Or if you prefer, manually override the pre-programmed settings to dial in your preferred setting.



STEEL



ALUMINUM



COPPER



**PUK® U5 Extended Electrodes & Cap Kit**  
These longer items are designed for welding in deep slots. Includes: Two 200mm long x 1.0 diameter electrodes (830-1598), one 30mm (830-1592), one 50mm (830-1593), one 100mm (830-1594) longer ceramic tip cap and one 1.0mm collet (830-1503).

830-1577      \$376.80



**Transport Case**  
Durable and functional transport case makes moving the PUK® U5 convenient within your organization. Between molds or between buildings, transport the PUK® U5 safely and securely.

830-1558      \$695.00



**PUK® U5 Extension Package**  
Provides a total of 12.5 feet making some large molds and in-press repairs much easier to perform. Includes an extended handpiece, extended magnet ground, and microscope extension cables.

830-0939      \$999.00



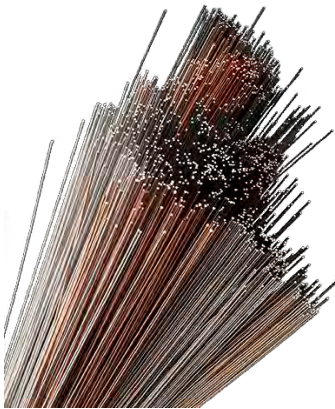
**Wire Holder**  
Made of anodized aluminum. Use with wires from 0.004" to 0.025". Ergonomic holder is comfortable to grip. Wire feeds effortlessly by means of two wheels.

830-2500      \$99.00



**6" Magnetic Ball Vise**  
Tilts from 180 degrees to 90 degrees without losing stability. Spring loaded permanent magnet holds workpieces for polishing, grinding, micro-welding and a variety of other general purpose applications. Made of the highest quality anodized aluminum.

814-0101      \$1,295.00



**Welding Wire (Pkg of 25)**  
Welding wires available for the most popular tool steels as well as copper and aluminum in various lengths and diameters. These wires can be used with any TIG welder and laser welder. Sold in packages of 25. See gesswein.com for a full listing of available wires and pricing.



# Ultrasonic Polishing

*Polish Intricate Details with Ease*

## MF TOUCH or MF Standard 3-in-1 Complete Packages

Utilizes a high-efficiency microprocessor to deliver power to ultrasonic, brushless DC, and brush-type DC handpieces. These complete kits include either the Ultramax MF TOUCH or the Ultramax MF Standard polishing system, a total of 3 handpieces and a convenient cabinet. For precision work, these are the most cost effective solutions available.

*All-In-One Solution!*

## Applications

- Reduces finishing time dramatically!
- Polishes slots, ribs, and intricate details with ease
- Milled surfaces to rough EDM surfaces can be polished to a mirror finish

### Ultramax™ MF 3-in-1 Complete Packages include:

- Ultrasonic Handpiece, 36 watts
- BH-60 Brushless Rotary Handpiece
- Choice of Recipro Z-6X or Z-2X Profiler Handpieces
- 3-in-1 MF Cabinet
- 1mm & 3mm flat clamp tool holders
- 3mm round tool holder
- Variable speed foot rheostat



←  
**MF TOUCH Complete**  
500-0232 (Z-6X)  
or 500-0233 (Z-2X)  
**\$4,395.00**

→  
**MF Standard Complete**  
500-0230 (Z-6X)  
or 500-0231 (Z-2X)  
**\$3,895.00**



## 3-in-1 Consumable Set

Provides the full range of abrasive consumables from aggressive polishing and grinding, up to diamond and mirror polishing.

**500-0234 \$395.00**

Diemaker All Grit Set (11)  
EDM All Grit Set (8)  
Mounted Stone Sampler Set (10)  
New Super Stone All Grit Set (9)  
Round Ceramic Stone Set (3)  
Finishing Stone Holder  
Diamond Compound,  
6 grams each (6)  
Soft Felt Bob Set (7)  
Hard Felt Bob Set (7)  
GMX Soft Cylinders (3)

This set contains 98 polishing consumables specifically selected for the 3-in-1 Complete Packages.

Soft End Brushes (3)  
Hard End Brushes (3)  
Soft Cup Brushes (3)  
Hard Cup Brushes (3)  
Soft Wheel Brushes (3)  
Hard Wheel Brushes (3)  
Diamond Files (6)  
Rockwood & Soft Sticks (8)  
Supreme Green Stoning Oil (2 oz.)



## ULTRAMAX® Mini Ultrasonic Polishing System for Industrial Applications

Polish ribs, slots and intricate details far faster than by hand. Take a rough milled surface to a mirror finish using diamond tools and ceramic stones. Includes a compact ultrasonic handpiece with an infinitely variable stroke length of 3-40µm, 36 watts output power and a complete accessories kit.

**500-0301 \$1,745.00**





# Reciprocating Tools



Complete Kit

## Classic Flex Shaft Drive Mark II Di-Profiler

Attaches to most standard flexible shaft machines. Easy-to-operate reciprocating tool is ideal for profile polishing, filing, honing and lapping straight and curved surfaces and finishing complicated dies and molds. Allows easy stroke adjustments for fast, precise work. Redesigned for improved ergonomics and user flexibility. Adjustable stroke length 0-6mm. 8,000rpm Maximum. 1/4" chuck capacity. Made in Sweden.

850-1905	Di-Profiler for Flex Shaft	\$1,333.85
850-1931	Complete Kit (Includes: Di-Profiler TX Flex Shaft and TXR-1 foot rheostat)	1,495.00



## Z-2X and Z-6X Micromotor Profilers

Use for polishing flat surfaces, deburring, filing, stoning, scraping, lapping and draw-stoning deep cavities. Use with up to (1/4") diameter tools. Secured tools can float freely and be fixed at any position through 360°. Comfortable grips allow prolonged use. Z-2X has a 0-2.0mm length of stroke with a variable strokes per second rate up to 117. Z-6X has a 0-6.0mm length of stroke with a variable strokes per second rate up to 70. Made in Japan.

510-2150	Z-2X (0-2.0mm length of stroke)	\$995.00
510-2160	Z-6X (0-6.0mm length of stroke)	995.00
510-3397	Complete Kit (Includes Z-2X and PH3 Controller)	1,415.00
510-3398	Complete Kit (Includes Z-6X and PH3 Controller)	1,415.00

## Triangular Laps - Cast Iron or Brass

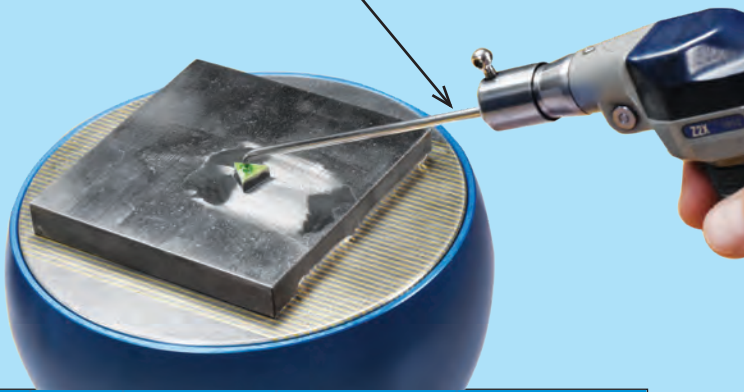
Used for flat polishing small and medium sized surfaces with diamond compounds, creating high surface finishes while maintaining a flat surface. An indentation must be created at the center of the lap to allow for placement of the Profiler Drive rod. Use a carbide ball (129-1060, 1/8" shank) in a rotary tool to create the indentation approximately 1/16" in depth. Then, use the lapping rod with angle (403-1060) to drive the lap with a profiler. 3/8" Triangular laps are 1/8" thick. Made in USA.



Cast Iron  
\$15.50/pkg of 3  
404-1000

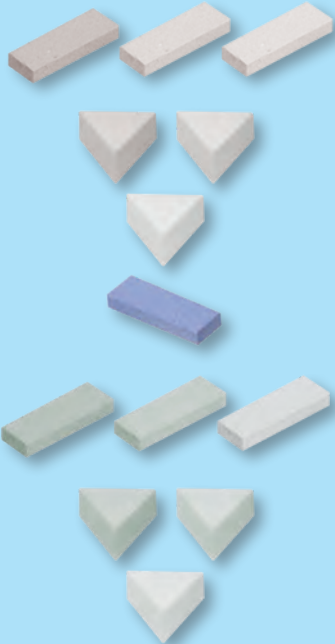
Brass  
\$9.95/pkg of 3  
404-1010

Lapping Rod with angle 403-1060 \$22.50



## Finishing Stone Laps \$4.00/pkg of 10

Polish small surfaces with these Finishing Stone Laps. Available in various grits of Diemaker, EDM Blue and Moldmaker Plus finishing stones. Use our diamond mounted point (226-1263, 1/8" shank) to form a small depression on the top center surface of the finishing stone lap. Then, use the lapping rod with angle (403-1060) to drive the finishing stone lap with a profiler. Use stoning oil with these finishing stone laps.

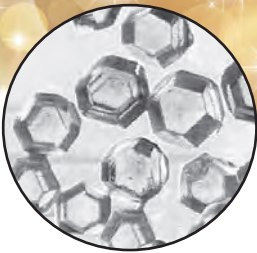


Description	Grit	Thickness	Size	Item #
Diemaker Rectangle	400	1/8"	1/4" x 3/4"	404-1430
Diemaker Rectangle	600	1/8"	1/4" x 1/2"	404-1620
Diemaker Rectangle	900	1/8"	1/4" x 3/4"	404-1930
Diemaker Triangle	400	3/16"	1/2"	404-0421
Diemaker Triangle	600	3/16"	1/2"	404-0621
Diemaker Triangle	900	3/16"	1/2"	404-0921
EDM Blue Rectangle	320	1/8"	1/4" x 3/4"	404-5330
Moldmaker PLUS Rectangle	400	1/8"	1/4" x 3/4"	404-1440
Moldmaker PLUS Rectangle	600	1/8"	1/4" x 3/4"	404-1640
Moldmaker PLUS Rectangle	800	1/8"	1/4" x 3/4"	404-1940
Moldmaker PLUS Triangle	400	3/16"	1/2"	404-0430
Moldmaker PLUS Triangle	600	3/16"	1/2"	404-0630
Moldmaker PLUS Triangle	800	3/16"	1/2"	404-0830

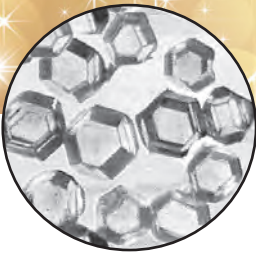


# Diamond Polishing

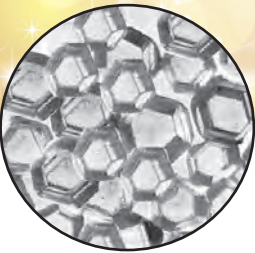
Choose your concentration



MEDIUM



STANDARD



STRONG



### Choose your concentration!

Available in **medium**, **standard**, or **strong** concentrations. Higher concentrations cut faster, thereby reducing polishing time. Additionally, a higher concentration performs better on harder metals.

## HYBRID Diamond Compound



### Gesswein Hybrid Diamond Compound

Both oil and water soluble. Uniform synthetic diamond particles allow for consistent surface finishes. Superbly adheres to mold and die surfaces to achieve a precision finish. Available individually in two size syringes, 5g and 18g. Use with either our oil or water soluble Lubricant/Thinner. Made in Great Britain.

Micron Size	Color	5 Gram Syringe		
		Item # Medium	Item # Standard	Item # Strong
1/2	White	216-3000	216-3100	216-3200
1	Ivory	216-3002	216-3102	216-3202
3	Yellow	216-3004	216-3104	216-3204
6	Orange	216-3006	216-3106	216-3206
9	Green	216-3008	216-3108	216-3208
15	Blue	216-3010	216-3110	216-3210
30	Red	216-3012	216-3112	216-3212
45	Brown	216-3014	216-3114	216-3214
60	Purple	216-3016	216-3116	216-3216

Micron Size	Color	18 Gram Syringe		
		Item # Medium	Item # Standard	Item # Strong
1/2	White	216-3022	216-3122	216-3222
1	Ivory	216-3024	216-3124	216-3224
3	Yellow	216-3026	216-3126	216-3226
6	Orange	216-3028	216-3128	216-3228
9	Green	216-3030	216-3130	216-3230
15	Blue	216-3032	216-3132	216-3232
30	Red	216-3034	216-3134	216-3234
45	Brown	216-3036	216-3136	216-3236
60	Purple	216-3038	216-3138	216-3238

Introductory Set 5pcs - 1 Gram Syringe				
Micron Size	Color	Item # Medium	Item # Standard	Item # Strong
1, 3, 6, 9, and 15	Ivory, Yellow, Orange, Green, and Blue	216-3250	216-3252	216-3254

### Gesswein Hybrid Diamond Compound Introductory Sets - 5pcs

Introductory Sets consist of just 1 gram each of 1, 3, 6, 9, & 15 micron in Medium, Standard, or Strong Concentrations.

See [www.gesswein.com](http://www.gesswein.com) for pricing.



### KIMTECH® Mold Polish Wipes

Use for cleaning the most extreme high polished surfaces. Can be used with diamond compound for the ultimate finishing touch. Engineered for excellent absorbency and low-lint wiping, these disposable wipes are solvent resistant and contain no binders or surfactants. Rayon/polyester spunlace material for cloth-like softness. Applications include mold polishing, aerospace, clean manufacturing areas, DVD manufacturing and printing. 1 roll = 225 sheets. Each sheet measures 7" x 7".

820-0515    \$33.50



# Felt & Brush Sets

## Felt Bob Sets

- Trial sets - 1 each of cylinder-shaped bobs, ranging from 1/4" x 1/4" to 1" x 1/2"
- Use with diamond compound to produce a clean, high finish on molds, dies and models
- Select between soft, medium or hard grades - all made from the finest 100% wool
- Mounted on 1/8" shanks, all measurements are in inches
- Made in USA



### CYLINDER FELT BOB SET OF 7 - 1/8" SHANK

Soft Density	289-1119	\$12.45
Medium Density	290-1120	12.45
Hard Density	286-1121	12.45

## Supra® Brush Sets

Convenient introductory sets allow you to try similar brushes for your application. Mounted wheel, cup and end brushes made of hard or soft animal hair or of straight or crimped brass, steel or stainless-steel wire. Wheel and cup brushes have a solid steel ring construction while the end brushes are one-piece ferrule construction. All brushes are also available individually, sold in dozen quantities. Mounted on 1/8" shank. Made in the USA.



### SUPRA® "MM" WIRE CUP BRUSH SET of 10

Set of 10 crimped wire cup brushes. Contains 2 each of the following: 0.003" and 0.005" brass, 0.003" and 0.005" steel and 0.005" stainless steel.

112-8007 \$39.50



### SUPRA® "MM" BRISTLE CUP BRUSH SET of 8

Soft and hard animal hair in hollow center cup shapes. Hold compound well, especially when polishing vertically. Contains 2 each of both the 9/16" and 1" hard bristle brushes and 2 each of both the 9/16" and 1" soft bristle cup brushes for a total of 8 brushes.

112-8009 \$23.15



### SUPRA® "MM" WIRE WHEEL BRUSH SET of 9

Set of 9 crimped wire wheel brushes. Contains of 1 each of the 3/4" and 1" diameter brushes, in 0.003" brass, single or double row, 0.003" and 0.005" steel in single or double row, and 0.005" stainless steel.

112-8011 \$33.75



### SUPRA® "MM" BRISTLE WHEEL BRUSH SET of 10

Soft and hard animal hair wheel brushes. Contains 2 each of the 5/8" diameter, soft single row bristle, 2 each of the 3/4" diameter hard in single or double rows of upright bristles and 2 each of the soft also in single or double rows for a total of 10 brushes in the set.

112-8013 \$25.50



### SUPRA® "MKM" BRISTLE WHEEL BRUSH SET of 6

Soft and hard animal hair wheel brushes. Contains 2 each of the 1" diameter, soft and hard single row bristles, and 2 each of the 1-1/4" diameter hard, double row of upright bristles, for a total of 6 brushes in the set.

112-8017 \$21.15



Metal Ferrule

### SUPRA® "ME" BRISTLE END BRUSH SET of 20

Soft and hard animal hair end brushes with metal ferrules. Trim length ranges from 1/8" to 9/16" and the metal ferrule diameters range from 3/16" to 5/16". Total of 20 brushes in the set.

112-8019 \$39.70



Plastic Ferrule

### SUPRA® "ME" BRISTLE END BRUSH SET of 20

Soft and hard animal hair end brushes with plastic ferrules to protect your work. Trim length ranges from 3/16" to 9/16". Plastic ferrule diameters range from 3/16" to 5/16". Total of 20 brushes in the set.

112-8021 \$36.40



### SUPRA® "ME" END STRAIGHT WIRE BRUSH SET of 8

Set of 8 straight wire end brushes. Contains 2 each of 0.003" brass, 0.003" steel and 0.003" stainless steel in a trim length of 1/4" and 2 each of the 0.004" steel in a trim length of 3/8".

112-8023 \$16.80



### SUPRA® "ME" END CRIMPED WIRE BRUSH SET of 10

Set of 10 crimped 0.005" wire end brushes. Contains 2 each of brass (7/16" or 9/16" trim length), steel (7/16" or 9/16" trim length) and stainless (7/16" trim length) end brushes.

112-8024 \$42.95

## ROTARY MICROMOTORS



### Marathon Handy 700

The Handy 700 system features an advanced controller and a 50,000rpm, 230W brushless rotary handpiece for incredible power—even at low speeds! Provides 7-8 N-CM torque ensures fast and smooth metal removal.

- Forward/Reverse rotation
- Full compatibility with Power Hand 3 brush-type handpieces.
- Dial or foot rheostat speed control.

510-2920 \$765.00

800.243.4466 | www.gesswein.com



### Marathon

The affordable do-it-all rotary micromotor system! 35,000rpm, 50W rotary handpiece with 1/8" collet. Allows quick tool changes to keep work flowing. Provides finer control and better range of motion than a traditional flex shaft to handle especially delicate jobs. Includes controller with dial speed control and forward/reverse direction switch, handpiece and variable speed rheostat.

510-2946 \$325.00



# Finishing & Deburring

New Products - Innovative Time Savers

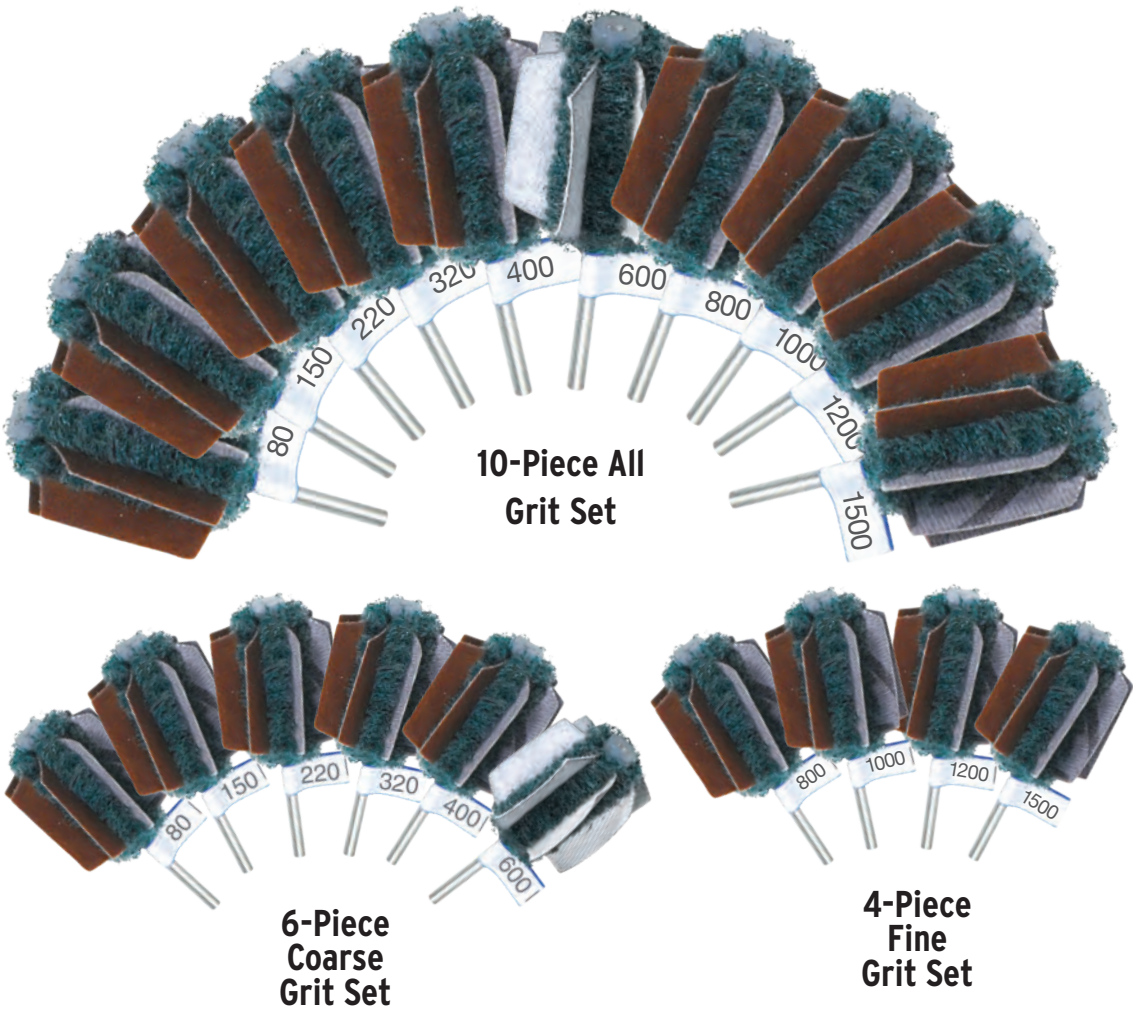


## Mini Mounted Abrasive Buffs

Perfect for deburring and polishing internal port and cross hole areas in metal molds. Comprised of a unique blend of abrasive cloth flaps and a unitized fiber core, both aluminum oxide, mounted on a **3/32" shank**.

Work efficiently and quickly to simultaneously cut and smooth both non-ferrous and ferrous metals. Mount in any standard flex shaft handpiece or micromotor system with a 3/32" collet. Simply run at a slow speed (5,000rpm or less) and the distinctive 45-degree angle of the cloth flaps begin the process of brightening and smoothing in one step. Made in Thailand.

10-Piece All Grit Set	107-5988	\$21.95
6-Piece Coarse Grit Set	107-5990	12.95
4-Piece Fine Grit Set	107-5989	8.95



## Cristone Matrix Ceramic End Brushes

A versatile tool for many finishing applications including: surface polishing, deburring, removing tool marks and EDM scale. The ceramic fiber bristles produce a uniform finish and are color coded for easy grit identification from 150 up to 1200 grit. Easily dress shapes and angles into the brushes by using a diamond abrasive file. Can be used wet or dry. Use in a micromotor handpiece or in a CNC machine. 18,000 Max RPM. **3mm shank**. (LxW = 50mmx5mm). Also available individually. See gesswein.com. Made in Japan.

Introductory Set of 7	355-1526	\$174.65
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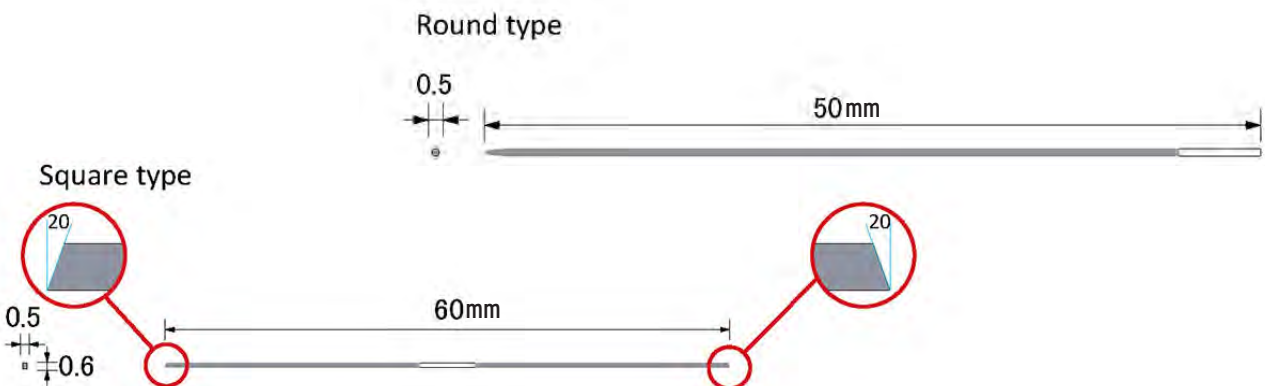


## Spire Diamond Files

Made of steel, which is thinly electro-plated with diamond over more than 75% of the file. Available in 400 and 600 grit in either round or square. Because of their flexibility, these files are very durable making them extremely effective when polishing molds with very narrow and deep ridges.

Round file is 50mm long with a .5mm diameter, tapered to a point. Square file is double-ended and measures 60 L x 0.5 D x 0.6 H mm. Both ends are beveled at a 20 degree angle. Use with our hand-held, double-ended, reversible collet **pin vise (820-4350)**. Made in Japan.

Round 400 Grit	241-0550	\$14.95
Round 600 Grit	241-0555	14.95
Square 400 Grit	241-0560	14.95
Square 600 Grit	241-0565	14.95







## Super Hand Pneumatic Filer

A powerful reciprocating tool for a fast efficient way to file. Reduced vibration due to its double-piston design. Accepts tool diameters up to 5mm. One-year limited warranty. Made in Japan.

### Features:

- Eliminate time consuming manual hand-filing operations.
- Ideal for industrial and production filing applications on steel, aluminum, brass, wood, and other materials.
- Stroke length – 9mm, Strokes per minute – 6,300.
- Air Pressure – 85 psi, Air Consumption – 7.1 CFM.
- Rear exhaust system.

850-7260      **\$395.00**

## Gesswein® POWER HAND® BZX Belt Sander

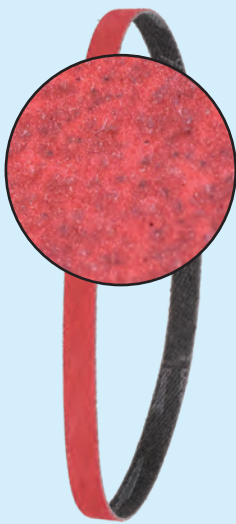
Ideal for a wide variety of precision finishing applications. Use for deburring, removing EDM and machine tool marks and sanding flat and curved surfaces and narrow slots. Operates with minimal vibration and has flexible power cord for easy reach. Supplied with straight and 45° angle arms for 6 and 8mm wide abrasive belts. Arms are spring-loaded for rapid belt changes. Weighs 16 oz. Made in Japan.

<b>BZX Belt Sander w/2 arms</b>	<b>510-2131</b>	<b>\$995.00</b>
<b>Complete Kit</b>	<b>510-3400</b>	<b>1,415.00</b>
(BZX Belt Sander w/2 arms and Controller)		



## Sanding Belts for BZX

All belts are specially made for use with our Power Hand BZX Belt Sander (510-2131). Belts will fit on either the 8mm straight or 8mm 45° angle arms. 8 x 300mm (W x L). Made in Japan.



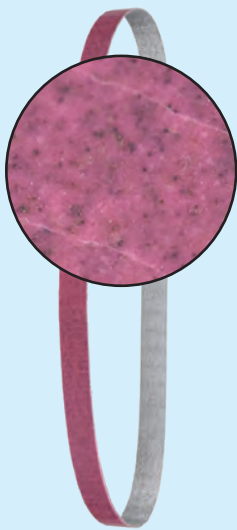
### CERAMIC

**NEW**

*Sold in packages of 10 belts.*

Item #	Grits
510-0565	40
510-0567	60
510-0569	80
510-0571	100
510-0573	120

**\$24.95/pkg of 10**



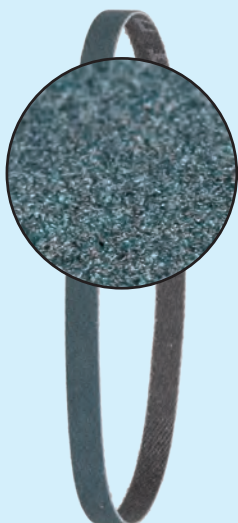
### DIAMOND

**NEW**

*Sold individually*

Item #	Grits
510-0581	180
510-0583	240

**\$19.95/each**



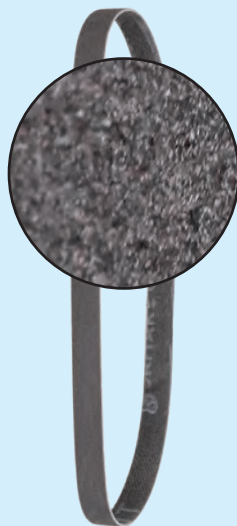
### ZIRCONIA

**NEW**

*Sold in packages of 10 belts.*

Item #	Grits
510-0575	80
510-0577	120
510-0579	180

**\$24.95/pkg of 10**



### ALUMINUM OXIDE

*Sold in packages of 10 belts.*

Item #	Grits
510-0536	80
510-0541	120
510-0546	180
510-0552	320

**\$21.95/pkg of 10**



# Digital Microscopes

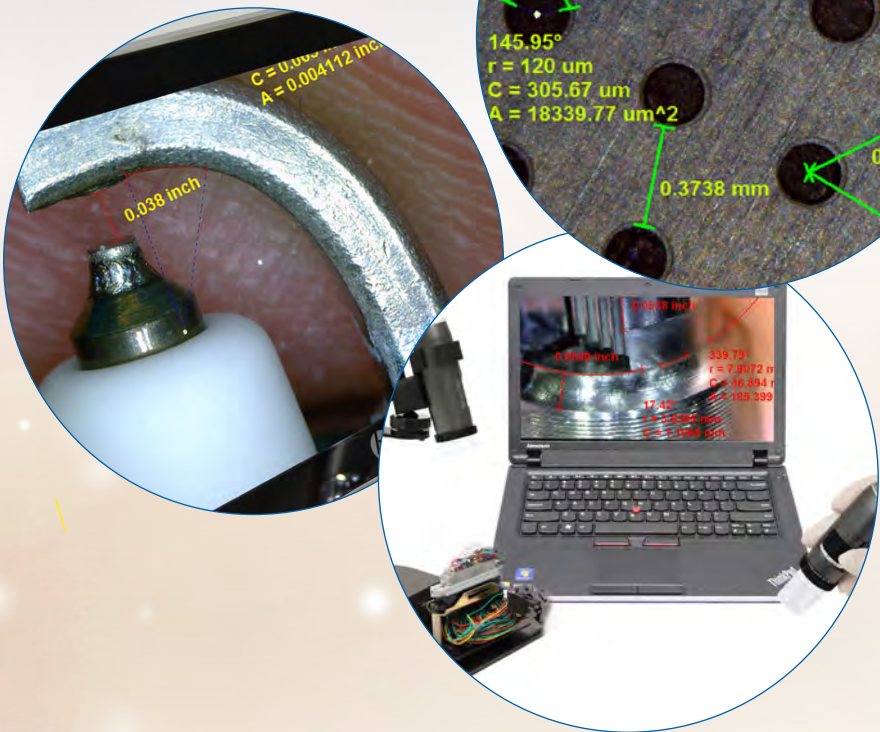
Measuring, Inspection, and Q.C.

## High Performance Digital Scopes

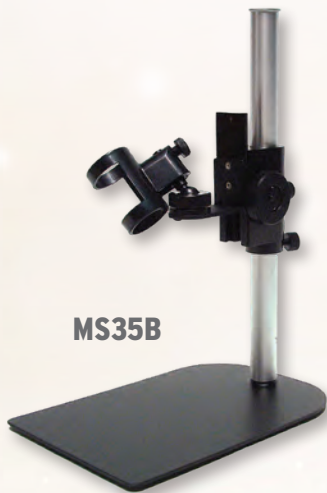
The Dino-Lite® digital microscope is an amazing and easy to use portable handheld device for inspection, testing, and documentation. As the live image is displayed on a monitor, users are able to inspect, analyze the image using software while sitting in a comfortable upright position.

### All Scopes include:

- 8 Ultra-Brite LED Lights
- Magnification Lock
- Microtouch Sensor
- 2 year Warranty



	AM4111T	AM4115ZT
Item #	810-0086	810-0110
Price:	\$329.00	\$629.00
Description:	The AM4111T handheld digital microscope comes with a high quality 1.3 megapixel image sensor that views and takes highly detailed images for professionals.	The AM4115ZT Dino-Lite Edge delivers higher image quality with a state-of-the-art lens design, providing matchless image quality with stunning sharpness, less aberration, and less vignetting throughout the whole magnification range.
Measuring Software:	No	Yes
Polarization:	No	Yes
Magnification:	10-50x, 220x	10-220x
Working Distance:	Standard	Standard
Resolution (pixels):	1280 x 1024	1280 x 1024
Max Frame Rate (fps):	30	30
AMR:	None	None
EDOF/EDR:	None	None
Operating System:	Windows XP, Vista, 7, 8, 10 Mac OS 10.5+	Windows XP, Vista, 7, 8, 10 Mac OS 10.5+
Connectivity:	USB 2.0	USB 2.0
Dimensions (cm/in):	10.5 x 3.2 4.13" x 1.26"	10.5 x 3.2 4.13" x 1.26"
Body Material:	ABS Plastic	ABS Plastic



### Dino-Lite MS35B Tabletop Stand

The Tabletop Stand (MS35B) is made of stainless steel and aluminum and features rigid design for unmatched stability and precision, 360° rotating slide assembly, & ball-and-socket microscope holster for an additional 45° lateral movement. Offers up to 8" working distance.

810-0091

\$99.00

# Rapid Prototyping Form 3

formlabs



The Build platform (5.7" x 5.7") can fit approximately 60 small parts. Print times depend on the complexity of the item and the resin used.





Dino-Lite®

AM4115ZTW	AM4115ZTF	AM73115MTF	AM73915MZT	AM7915MZT	AM7915MZTL
810-0201	810-0202	810-0203	810-0204	810-0205	810-0206
\$689.00	\$699.00	\$1,129.00	\$1,369.00	\$1,269.00	\$1,299.00
The AM4115ZTW Dino-Lite Edge delivers higher image quality with Larger Field-of-View (FOV) and Depth-of-Field (DOF), which makes it ideal for macro viewing applications because of it's dual focus feature.	The AM4115ZTF was designed for the longest working distance with magnification up to 70x.	USB 3.0 interface delivers exceptional sharp and fluent imaging without compression to reveal the finest details.	USB 3.0 interface delivers exceptional sharp and fluent imaging without compression to reveal the finest details, this model includes EDOF/EDR and AMR. EDOF/EDR are available to Windows PC users only.	The AM7915MZT aluminum alloy encased, 5 megapixel microscope camera, combines a polarizer with image processing features; Extended Depth of Field (EDOF) and Extended Dynamic Range (EDR). EDOF/EDR are available to Windows PC users only.	5 Megapixel aluminum alloy encased microscope camera with Polarizer, Longer Working Distance and a magnification range of 10x -140x, image processing features; Extended Depth of Field (EDOF); Automatic Magnification Reading (AMR); Extended Dynamic Range (EDR).
Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	No	Yes	Yes	Yes
2-50x	10-70x	10-70x	10-220x	10-220x	10-140x
Long	Far	Far	Standard	Standard	Long
1280 x 1024	1280 x 1024	2560 x 1920	2560 x 1920	2592 x 1944	2592 x 1944
30	30	45	45	30	30
None	None	None	Yes	Yes	Yes
None	None	None	Only PC users	Only PC users	Yes
Windows XP, Vista, 7, 8, 10 Mac OS 10.5+	Windows XP, Vista, 7, 8, 10 Mac OS 10.5+	Windows 7, 8, 10 Mac OS 10.9+	Windows 7, 8, 10	Windows 7, 8, 10	Windows 7, 8, 10 Mac OS 10.9+
USB 2.0	USB 2.0	USB 3.0	USB 3.0	USB 2.0	USB 2.0
10.5 x 3.2 4.13" x 1.26"	10.5 x 3.2 4.13" x 1.26"	11.9 x 3.3 4.69" x 1.30"	11.9 x 3.3 4.69" x 1.30"	10.5 x 3.2 4.13" x 1.26"	10.5 x 3.2 4.13" x 1.26"
ABS Plastic	ABS Plastic	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy



Dino-Lite RK-06A Tabletop Stand

The Dino-Lite RK-06A tabletop stand is designed for general purpose and built with quality. It is compatible with all Dino-Lite handheld microscopes. With smooth focus adjustment and quick vertical movement and lateral movement, the **RK-06A** eases the task of focusing when using Dino-Lite microscopes. When you require more precise movements add the **XY arm** which provides a 3cm x 3cm range.

<b>RK-06A Table Stand</b>	<b>810-0208</b>	<b>\$189.00</b>
<b>XY Arm (optional)</b>	<b>810-0209</b>	<b>99.00</b>



Form 3 - Complete Package

The next generation in 3D printing from Formlabs, introducing the Form 3. With the innovated technology of Low Force Stereolithography (LFS), 3D printing now can balance detail and speed, giving you finer print detail and quicker print times.

Features:

- Quicker Print Time - Build Platform does not have a release after each layer.
- Finer Print Details - Laser Spot Size 40% smaller, ensuring accurate, repeatable prints.
- Export .stl or .obj files from PreForm Software to get your design ready for printing.
- Perpendicular printing provides crisp, clean edges on your prints.
- Remote Printing - Print your files overnight or when not in office. Allows users to start printing process via internet connection.
- With advanced Low Force Stereolithography (LFS™) technology, Formlabs has completely re-engineered resin-based 3D printing to drastically reduce the forces of the print process.
- Soft release from a flexible resin tank enables faster part clean up by requiring small and minimal supporting.
- Wide range of additional resins also available. See gesswein.com for details.

Package Includes:

- Form 3 Printer
- Form Wash (once parts are created, they get cleaned in the Form Wash).
- Form Cure (once cleaned, the final step is in the Form Cure).
- Resin Tank - Standard
- Build Platform Form 3
- Finishing Kit (rinse station, buckets, basket and bottle, finishing tray, tweezers, scraper, removal tool, jig, flush cutters and disposable nitrile gloves).
- Grey Resin Cartridge (262-0240)
- One-year PSP Pro Service Plan
- One-year warranty on Form 3 (machine and parts).

<b>262-0415</b>	<b>\$4,999.00</b>
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# Mold Polishing Technology



## Mold Polishing Class Schedule



Gesswein Office, Bridgeport, CT

### 2020 Dates

March 23rd- 24th and 26th- 27th  
October 19th - 20th and 22nd - 23rd  
Location: Bridgeport, CT

### Overview

- 2 Days of intensive hands-on mold polishing
- Polish a rough EDM surface to a Mirror A-2 finish
- Use the latest tools and equipment
- Bring parts from your workplace for review!
- MicroTIG and Laser Welder Demonstrations

# We'll come to you!

## MOLD POLISHING TRAINING at your shop.

### On-Site Training Overview

- 2 days of intensive hands-on mold polishing training
- Use the latest tools and equipment
- Polish your own parts (optional)
- Equipment and tools provided by Gesswein

## MEET THE INSTRUCTORS

With a combined 90 years experience and counting, these instructors are masters in the art of mold polishing. They specialize in achieving supreme finishes and have trained over **700 working professionals**.



**Steve Smith**

Over 50 years experience in mold polishing and coaching. Steve was the mold polishing supervisor at Caco Pacific for the majority of his career. He's now retired and has become a consultant and instructor for Gesswein.

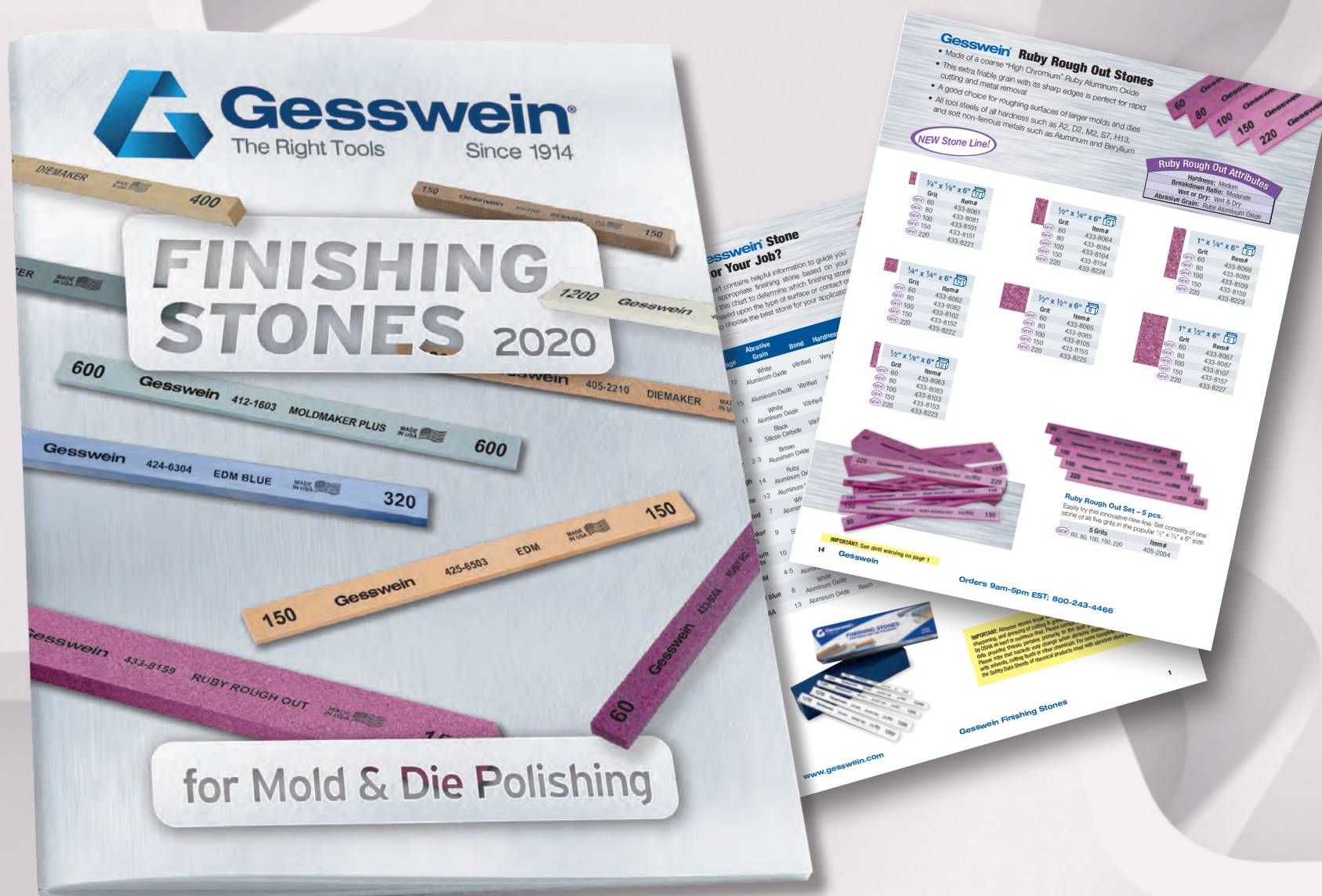


**Donald Gonzalez**

Over 40 years experience in mold polishing. He started his apprenticeship in 1979 at Caco Pacific moving onto The Kipp Group for a total of 11 years before he started his own mold polishing business at DG Mold Polishing which he currently runs today with his family.

## REQUEST YOUR COPY OF OUR NEW FINISHING STONE CATALOG TODAY!

### NEW STONES, GRITS AND SHAPES!



for Mold & Die Polishing

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