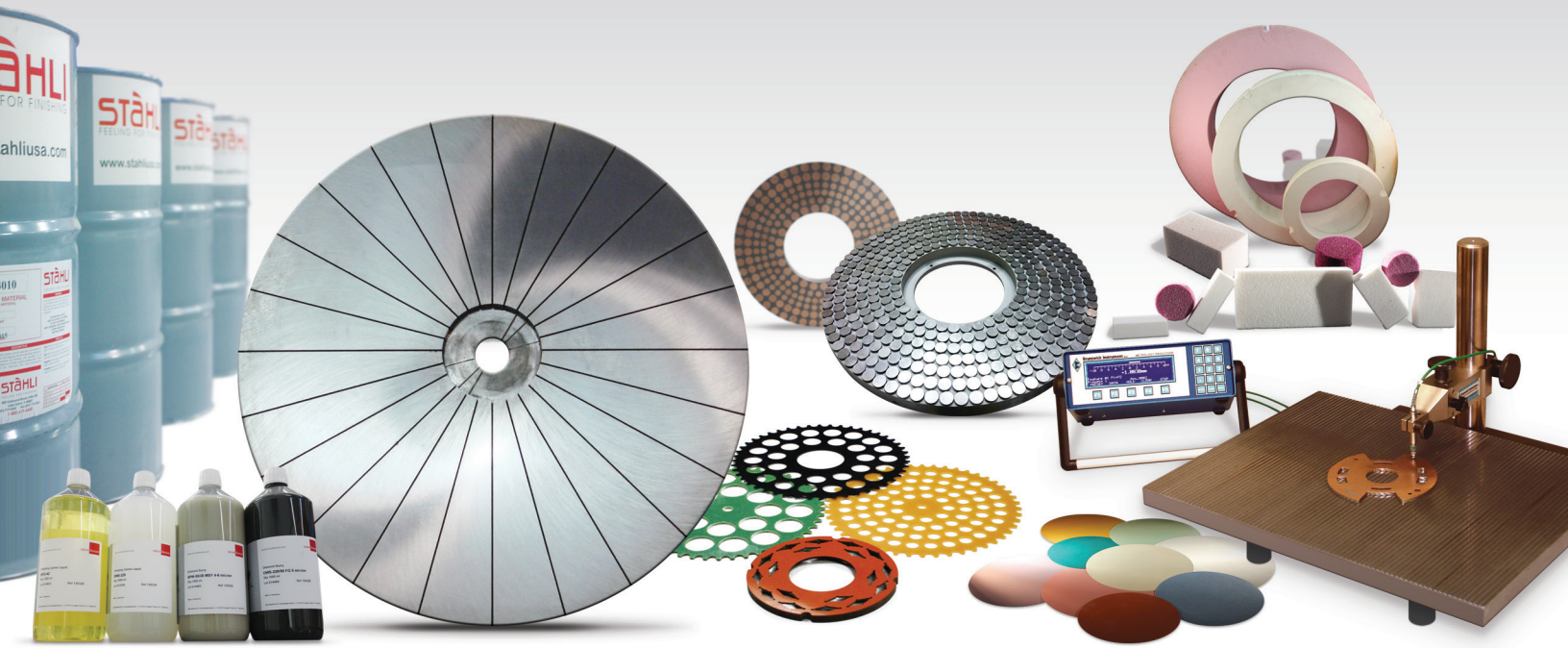
STÅHLI
FEELING FOR FINISHING



CONSUMABLES -

For Stahli machines; in addition, to other precision lapping, flat honing, and polishing machines in your line.

Never underestimate the importance of high quality consumables in the longevity of your machines' life.

Stahli offers:

- Templates
- Carriers
- Precision Straight Edges for Checking Wheels
- Polishing Tables
- Dressing Systems
- Flat Honing Oils
- Lapping & Polishing Plates
- Pressure Pads
- Rings
- Diamond Products
- And More

Selected suppliers and manufacturers exclusively produce all accessories and consumable articles according to our specifications. They are subject to constant quality control and are continuously adapting to the latest technological demands.

Our consumables go above and beyond on Stahli machines and are also optimized for all other flat honing, lapping and polishing equipment.

Contact Stahli today. Let us help you determine the optimal consumable product for your machine.

YOUR SINGLE SOURCE FOR CONSUBMABLES FOR ALL FLAT HONING, LAPPING, AND POLISHING EQUIPMENT



ABRASIVE POWDERS

- Aluminum Oxide
- Boron Carbide
- Green Silicon Carbide
- Silicon Carbide
- Micro Alumina



CONDITIONING & RETAINING RINGS

- Cast Iron
- Ceramic
- Conditioning Carriers
- Diamond Pellet
- Hardened Alloy



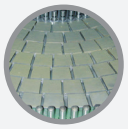
PRESSURE PADS

- Gray Felt
- Green Felt
- Hard Neoprene
- Sponge Neoprene
- Any Durometer Rubber



ABRASIVE PASTE & SLURRIES

- Aluminum Oxide
- Boron Carbide
- Green Silicon Carbide
- Silicon Carbide
- Micro Alumina



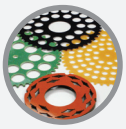
FIXED ABRASIVE WHEELS

- Diamond
- CBN
- Resin Bond
- Vitrified Bond
- Aerometal Bond



SLURRY DELIVERY & RECLAMATION

- Agitator Pumps
- Diamond Dispensing
- Diaphragm Pumps
- Peristaltic Pumps
- Vehicle Reclamation



CARRIERS & WORKHOLDER DISCS

- Blue Steel
- Fiberglass
- Lexan
- Phenolics
- PVC
- Tempered Steel



METROLOGY

- Monochromatic Lights
- Optical Flats
- Polishing Papers
- Polishing Stands
- Precision Flats
- Straight Edges



SPARE PART PACKAGES AVAILABLE

- Drive Components
- Electrical Components
- Hydraulic Components
- Pneumatic Components



DIAMOND PRODUCTS (OIL, WATER & EMULSIONS)

- Diamond Slurries
- Lubricants
- Pastes
- Pellets
- Powders
- Chlorine-free Suspensions



LAPPING PLATES

- Cast Iron Plates
- Composite Plates
- Ductile Iron Plates
- Hand Lap
- Hardened Segments
- Spiral Grooved Plates
- Tin Antimony Plates
- Copper Plates
- Steel Plates



VEHICLES

- Concentrates
- Oil Based
- Synthetic
- Water Based
- Glycol Based

YOUR CHALLENGE IS OUR SPECIALTY | Flat Honing, Lapping, and Polishing

Stahli USA, Inc
Lake Geneva, Wisconsin P 847-719-0360 sales@stahliusa.com www.stahliusa.com

Stähli Läpp-Technik GmbH
Weil im Schönbuch, Germany P +49 7031 75 779 6 LTS@stahli.com www.stahli-lohnfertigung.de

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CONSUMABLES

STÄHLI
FEELING FOR FINISHING

Diamond Slurry

Stahli USA develops, formulates, and mixes diamond slurries for a variety of industries. Our formulation will be specific to your application.

The specification of a diamond slurry plays a critical role not only in the quality of finished workpieces, but also, in throughput rates. Improper slurry formulation can influence surface finish, stock removal, and overall reproducibility of the finished component.

FEATURES

- Monocrystalline and polycrystalline diamond powders are used.
- Water based, water soluble, and oil based vehicle options ensure our customers have the best possible solution for each application.
- In-house mixing allows Stahli USA to be price competitive.
- Raw materials are stocked.
- Each application is treated differently.
- We have 60+ years of experience behind our product lines.



APPLICATIONS

- Stahli USA diamond slurries supports the following polishing machines and more:
  - -Stähli
  - -Lapmaster
  - -Engis
  - -Norton
  - -Peter Wolters
  - -Custom / Homemade
- Metallography
- Chemo-Mechanical Polishing (CMP)
- Superconductor Industry
- Optics Industry
- Aerospace and Automotive Applications



YOUR CHALLENGE IS OUR SPECIALTY

Flat Honing, Lapping, and Polishing

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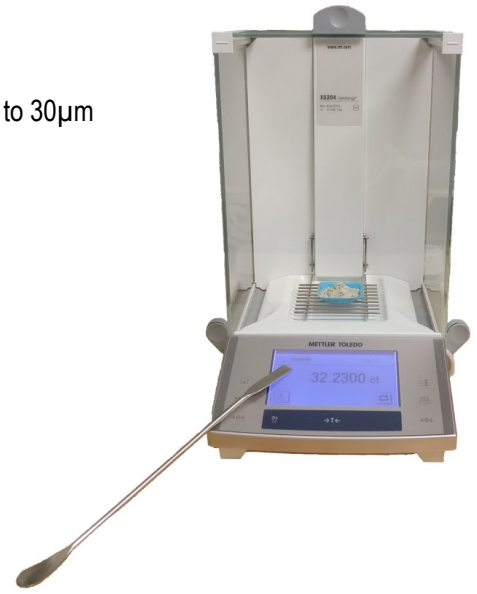


Diamond Slurry Options

Crystal Type:	Monocrystalline and Polycrystalline Diamond
Crystal Micron Size:	Monocrystalline - 0.1µm to 70µm
	Polycrystalline - 0.25µm to 30µm
	Polycrystalline Fine Particle Distribution - 0.03µm to 30µm
Vehicle Types:	Water Based - 60cP to 325cP
	Water Soluble - 5cP to 800cP
	Oil Based - 4.5cP to 350cP







Stahli is one of the leading companies worldwide in manufacture of precision lapping, flat honing, and polishing machines. Our name is synonymous with the highest standards of performance, power, automation, productivity, and efficiency for customers in such diverse industries as automotive, electronics, aerospace, and ceramics. The dynamic design of our ultramodern machine line ensures you precision and reliability. Stahli machines are user-friendly and environmentally sound.

Consultation, Sales, Machining, and Testing Centers

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Lake Geneva, Wisconsin P 847-719-0360 sales@stahliusa.com www.stahliusa.com

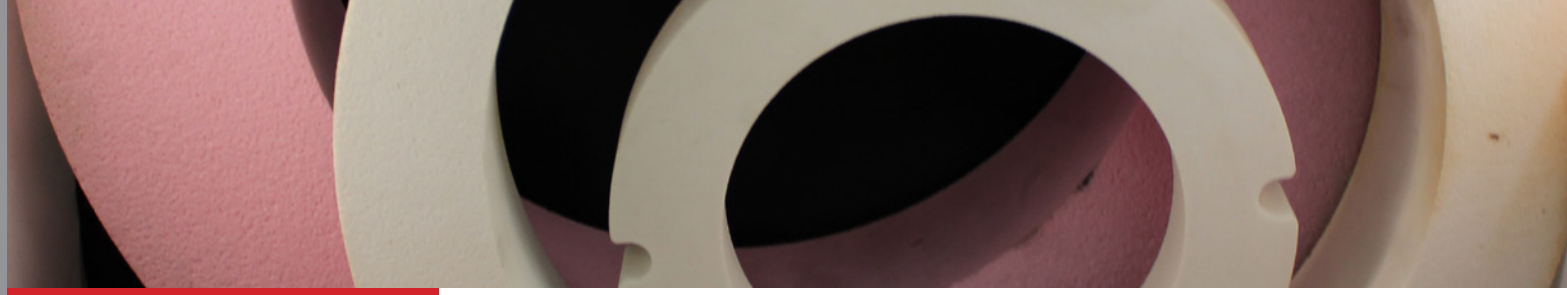
Stähli Läpp-Technik GmbH
Weil im Schönbuch, Germany P +49 7031 75 779 6 LTS@stahli.com www.stahli-lohnfertigung.de

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Stahli Lapping Technology (Xiamen) Co., Ltd
Xiamen, China P +86 592 651 3551 LTCN@stahli.com www.stahlichina.com

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CONSUMABLES

STÄHLI
FEELING FOR FINISHING

Dressing Stones for Flat Honing Applications

150 GRIT WHITE ALUMINUM OXIDE RINGS

Optimal consistency for sharpening of fixed abrasive resinoid bonds from crystal sizes of 54 micron and coarser.

150 GRIT PINK ALUMINUM OXIDE RINGS

Optimal consistency for sharpening of fixed abrasive vitrified and metal bonds from crystal sizes of 54 micron and coarser.

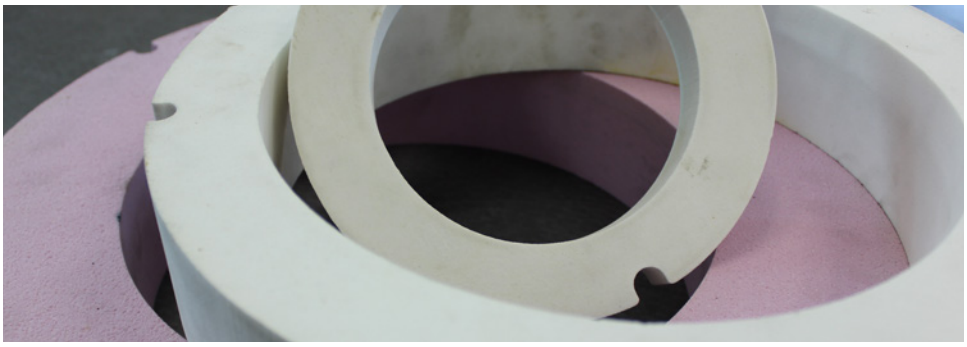
320 GRIT WHITE ALUMINUM OXIDE RINGS

Optimal consistency for sharpening of fixed abrasive resinoid bonds from crystal sizes of finer than 54 micron.

320 GRIT PINK ALUMINUM OXIDE RINGS

Optimal consistency for sharpening of fixed abrasive vitrified and metal bonds from crystal sizes of finer than 54 micron.

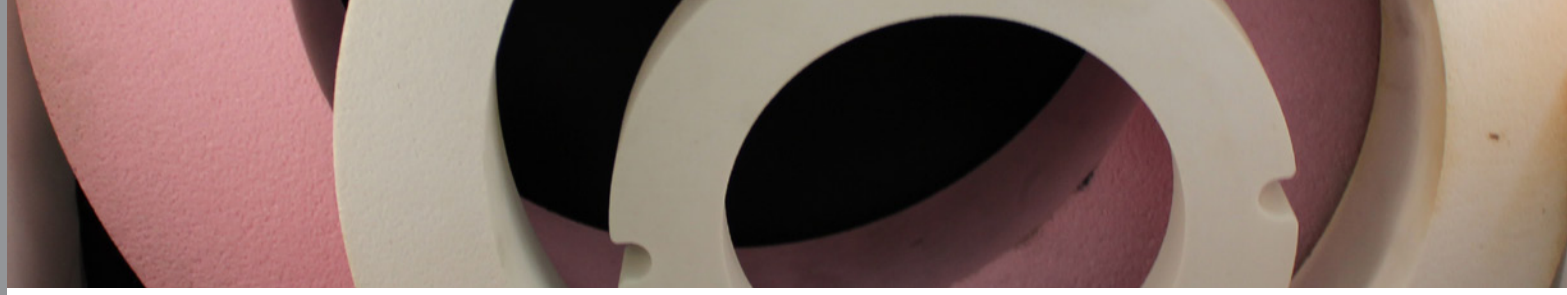
ADDITIONAL GRIT SIZES ARE IN STOCK. FEEL FREE TO REACH OUT TO US FOR ANY INQUIRIES.



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Flat Honing, Lapping, and Polishing

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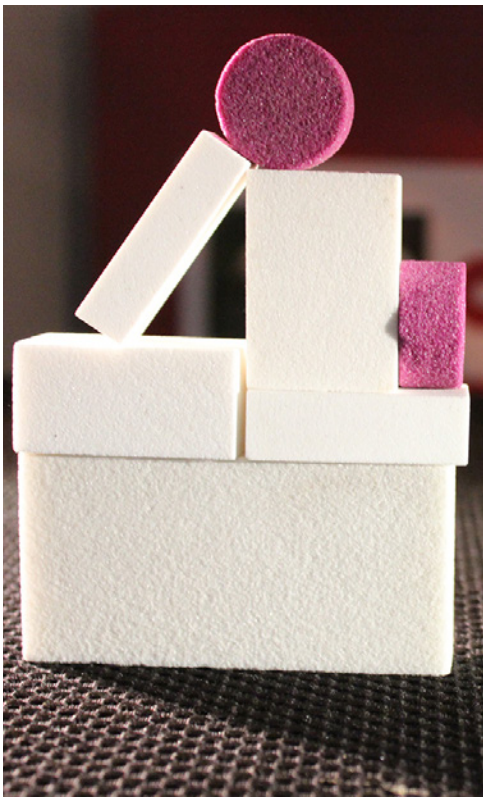
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PRODUCT SELECTION

Aluminum Oxide — Available grit sizes:

150 Grit White
150 Grit Pink
320 Grit White
320 Grit Pink

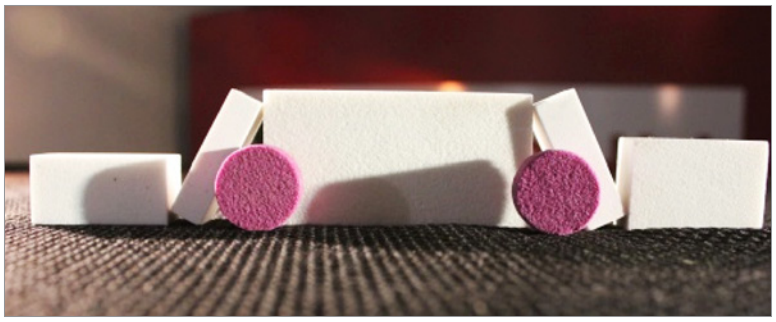
*Custom orders available to stock upon request



PLATFORM SIZES VARY FROM 500-1,400 MM

Dressing stones for any flat honing machine including
Stahli, Lapmaster, Peter Wolters, Melchiorre, Hahn + Kolb

Custom Applications



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Consultation, Sales, Machining, and Testing Centers

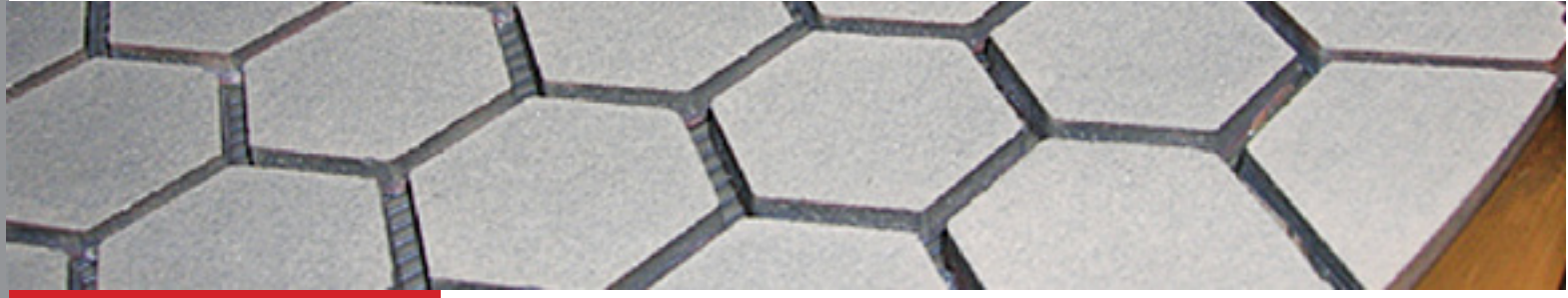
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Lake Geneva, Wisconsin P 847-719-0360 sales@stahliusa.com www.stahliusa.com

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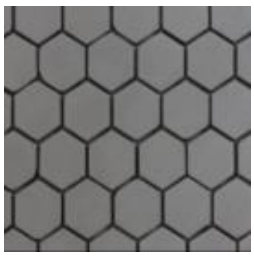
CONSUMABLES

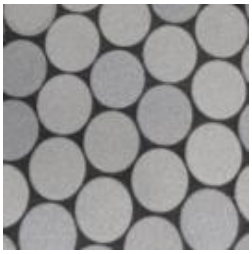
STÄHLI
FEELING FOR FINISHING

Fixed Abrasive Wheels

In cooperation with wheel manufacturers worldwide, Stahli USA designs, tests, and builds fixed abrasive, flat honing wheels.

Stahli USA's laboratory tests the latest developments in super abrasive technology on a daily basis. We have ongoing contract work as well as research and development projects. Our work includes the utilization of resin bond, vitrified bond, aero metal, and hybrid products. With the rigidity and speed capabilities of the Stahli designed DLM and FLM machines, we can now take advantage of the expansion in wheel development.

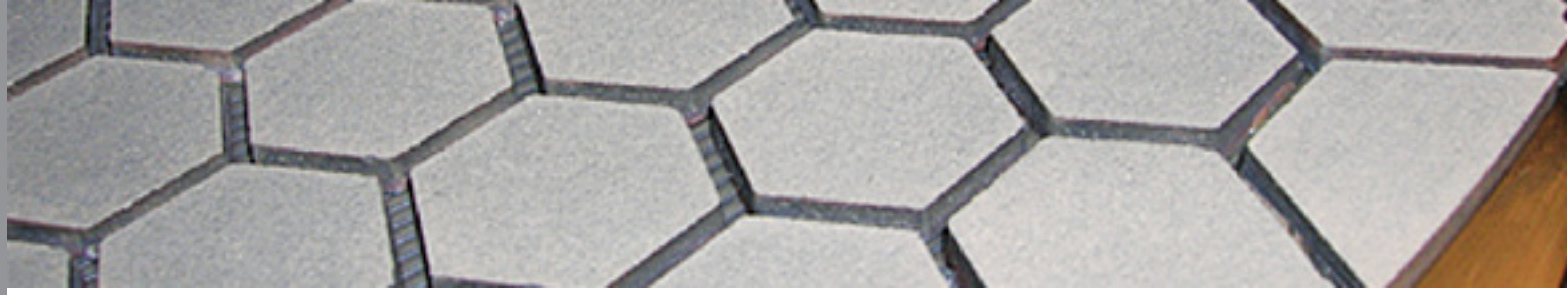







YOUR CHALLENGE IS OUR SPECIALTY

Flat Honing, Lapping, and Polishing



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PRODUCT SELECTION

Diamond — Available crystal sizes:
3 microns up to 151 microns

CBN — Available crystal sizes:
3 microns up to 151 microns

Bonds Available

- Resin
- Cold Pressed Vitrified
- Hot Pressed Vitrified
- Metal Bond
- Hybrid

Wheels available for following machines

- Stahli
- Hahn & Kolb
- Melchiorre
- Peter Wolters
- Lapmaster



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Stähli Läpp-Technik GmbH
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Pieterlen, Switzerland P +41 32 376 05 00 LTP@stahli.com www.stahli.com

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Winterthur, Switzerland P +41 52 203 50 51 LTW@stahli.com www.stahli.com

Stahli Lapping Technology (Xiamen) Co., Ltd
Xiamen, China P +86 592 651 3551 LTCN@stahli.com www.stahlichina.com



CONSUMABLES

STÄHLI
FEELING FOR FINISHING

Flat Honing Oil & Lapping Vehicles

FLAT HONING OIL

ITEM CODE	DESCRIPTION	APPLICATION
V-STAHLIHONE1	Stahli General Natural Oil #1	Powder Metal, Steels, General Purpose
V-STAHLIHONE2	Stahli General Synthetic Oil #1	Powder Metal, Steels, General Purpose
V-STAHLIHONE3	Stahli Ceramic Grinding Oil	Alumina Ceramics
V-STAHLIHONE4	Stahli General Natural Oil #2	Powder Metal, Steels, General Purpose
V-STAHLIHONE5	Stahli General Synthetic Oil #2	Powder Metal, Steels, General Purpose
V-STAHLIHONE6	Stahli Carbide Natural Oil	Carbide Inserts, Carbide Saw Blades

LAPPING VEHICLES

OIL BASED VEHICLE:

OBV-2500

WATER BASED VEHICLES:

WB-3000
WC-3010
WC-4200
SBV5000 (Butyl Carbitol - Aluminum Parts Only)

* 5 gal buckets and 55 gal drums available
* Totes available upon request



YOUR CHALLENGE IS OUR SPECIALTY

Flat Honing, Lapping, and Polishing

Stahli is a worldwide leader in the manufacturing of precision flat honing, lapping, and polishing machines. Our name is synonymous with the highest standards of performance, power, automation, productivity and efficiency for customers in such diverse industries as automotive, electronics, aerospace, and ceramics. The dynamic design of our ultramodern machine line ensures precision and reliability. Stahli machines are user-friendly and environmentally sound.

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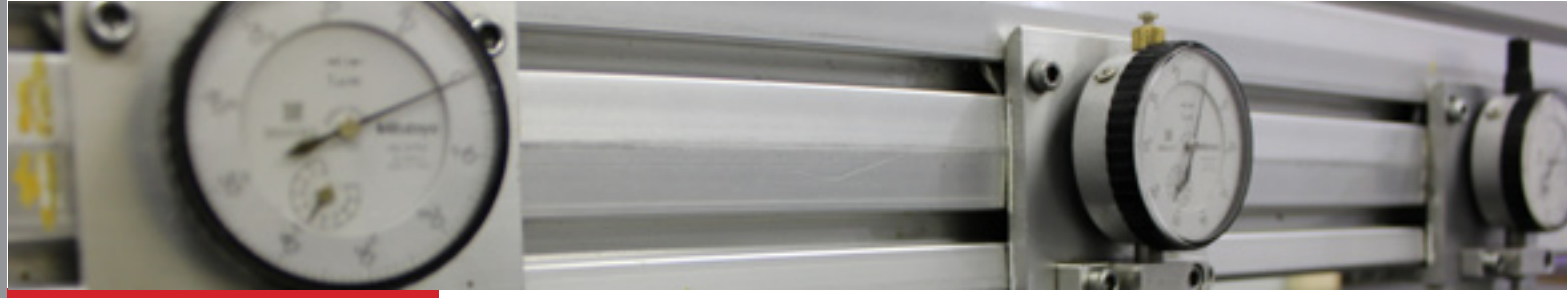
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Xiamen, China P +86 592 651 3551 LTCN@stahli.com www.stahlichina.com

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CONSUMABLES

STÄHLI
FEELING FOR FINISHING

Precision Plate Flatness Gauge

For the precise measurement of flat honing, lapping, and polishing wheels

In the world of lapping and polishing, higher quality requirements for the flatness of work pieces have led to the design of the precision straight edge. Consistent control of wheel flatness is absolutely necessary for the quality system, and avoids time consuming corrections.



FEATURES

- Three dial gauges with resolution to 0.001mm
- Easy to read 58mm diameter gauge face
- Analog or digital
- Lightweight for ease of use
- Metric or inch
- Adjustable gauge location
- All plate sizes
- Works on single and double sided machines





SPECIFICATIONS

- Metric or Inch analog gauges
- Digital available upon request
- Gauges require corresponding granite table for calibration
- Granite surface plates available upon request

YOUR CHALLENGE IS OUR SPECIALTY

Flat Honing, Lapping, and Polishing

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CONSUMABLES

STAHLI
FEELING FOR FINISHING

Lapping Abrasives







SILICON CARBIDE

Fast stock removal for hard or soft materials. Commonly used on SpeedFam machines with hardened rings and segments. Works well with Stahli OBV-2500 Lapping Oil.

BROWN FUSED ALUMINUM OXIDE

General lapping with fine surface finish. Commonly used on Spitfire, Lapmaster, Cleveland, Wentsky, and similar type machines with cast iron tables. Works well with Stahli WBC-3010 Water Based Vehicle.

CALCINED ALUMINA (Micro Alumina)

For use with metals, optics, silicon wafers, and other semiconductor materials.

BORON CARBIDE

For use with ceramic, carbide, and other hard materials.

YOUR CHALLENGE IS OUR SPECIALTY

Flat Honing, Lapping, and Polishing



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PRODUCT SELECTION

Silicon Carbide — *Available grit sizes:*
120, 180, 220, 240, 280, 320, 360, 400, 500, 600, 800, 1000, 1200, 1500

Aluminum Oxide — *Available micron sizes:*
1, 3, 5, 7.5, 9.5, 12.5, 14.5, 17.5, 20, 22.5, 25, 27.5, 30

Micro Alumina — *Available micron sizes:*
0.5, 1.0, 3.0, 5.0, 7.0, 9.0, 12.0, 15.0, 18.0, 20.0, 28.0, 30.0

Boron Carbide — *Available grit sizes:*
150, 180, 220, 240, 280, 320, 400, 500, 600, 800, 1000, 1200, 1500

* Available in 50lb pails and 250-400lb drums depending on the abrasive

* Additional sizes and types available upon request

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CONSUMABLES

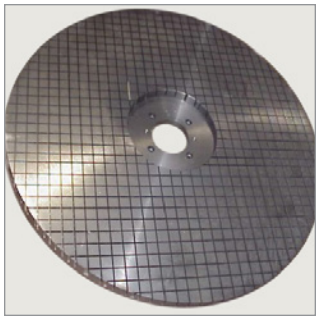
STAHLI
FEELING FOR FINISHING

Lapping Plates & Rings

Stahli USA is the leading supplier for plates, segments, and rings for all makes and models of lapping and polishing machines in the market. These include:

- SpeedFam
- Mitsunaga
- Lapmaster
- Stahli
- Peter Wolters
- P. R. Hoffman
- Cleveland
- Engis
- Spitfire
- Melchiorre
- Wentzky
- C&B
- Custom

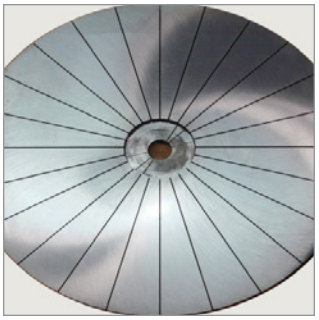
From concept to delivery, Stahli USA provides the most efficient turn around time and guaranteed performance.



Cross Hatched Ductile Iron



Spiral Groove Copper/Steel



Radial Slotted Cast Iron Plate



Conditioning Rings

YOUR CHALLENGE IS OUR SPECIALTY

Flat Honing, Lapping, and Polishing

STAHLIUSA.COM



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LAPPING PLATES

- Cast Iron
- Composite Plates
- Ductile Iron Plates
- Hand Laps
- Double Sided



CONDITIONING & RETAINING RINGS

- Cast Iron
- Hardened Alloy



HARD POLISH PLATES

- Multi Metal
- Copper
- Cast Iron
- Steel Soft Steel
- Aluminum
- Tin
- Composites



LAPPING SEGMENTS

- Lapmaster
- SpeedFam



POLISH PLATES

- Stainless
- Aluminum
- Ceramic

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Consultation, Sales, Machining, and Testing Centers

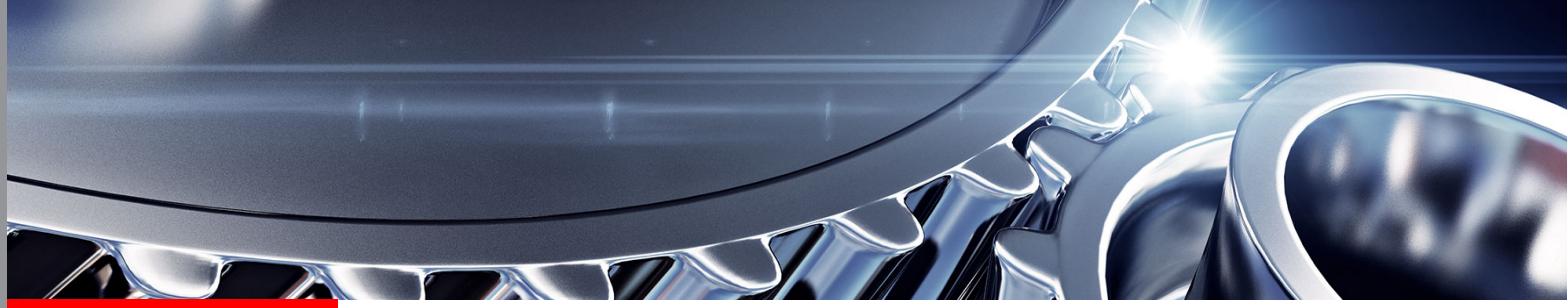
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CONSUMABLES

STÄHLI
FEELING FOR FINISHING

Pressure Plate, Polishing, & Grinding Pads

Stahli USA offers a diverse range of lapping and polishing application materials. All of which can be customized to your needs.

Pressure Plate Pads

Materials:
- Neoprene
- Felt
- Cellasto®
- Custom

Thickness:
- Quarter Inch
- Half Inch
- Custom Sizes

Most materials & sizes available in stock

Polishing Pads

Materials & Applications:

-Hard Synthetic Fiber
- ➤ Used for pre-polishing with high stock removal

-Medium Hard Synthetic Fiber Cloth
- ➤ Steady removal rate & superb finishing on almost all materials

-Medium Hard Woven Wool Polishing Cloth
- ➤ Fine polishing of larger workpieces

-Flocked Universal Polishing Pad
- ➤ Consistent removal rates for all kinds of metals

-Universal Polishing Cloth With Low Flock Density
- ➤ Superfinishing

-Non-Woven Polishing Pad, PU Impregnated
- ➤ Good removal rates and superb finish to metals and optical materials

- Universal Polishing Cloth With High Flock Density
- ➤ Crossover pad for diamond and oxide polishing

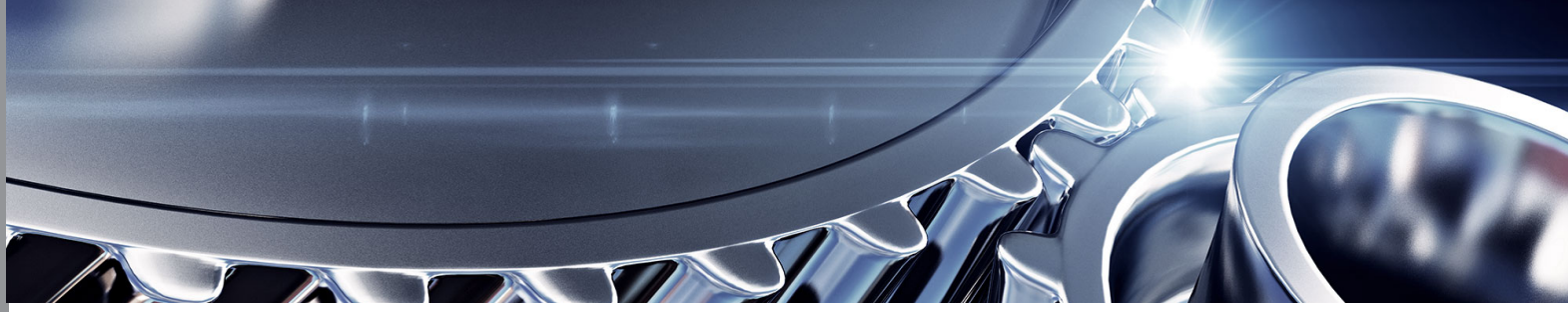
- Chemically Resistant, Spongy Oxide Polishing Cloth
- ➤ Final finishes with oxide polishing slurries



YOUR CHALLENGE IS OUR SPECIALTY

Flat Honing, Lapping, and Polishing

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Diamond Grinding Pads

At Stahli USA, we offer three different types of diamond grinding pads that have all the key features that will suit all of your lapping needs. Durability and precision are what we are known for worldwide. You will be impressed with the types of finishes you will receive while still maintaining a stock removal rate that cannot be matched for the workpieces. We continuously strive to offer high quality products that will increase productivity with long lasting materials.

Resin Bond Diamond

- Fast and clean handling
- High stock removal rate
- High flatness quality
- High surface quality
- Made for all mounting systems
- Self-sharpening system
- Production time & cost savings
- Long lifetime
- Non-erosion backing
- Universal flat honing application

Resin Bond with Silicon Carbide

- Economic price/quantity
- Universal application
- Fast mounting
- Keeps removal rate
- Used for wet & dry applications
- Fits on all mounting systems

Composite Polishing

- Impressive stock removal rate
- Universal fine grinding application
- High surface quality
- Fast and clean handling
- High flatness
- Non-erosion backing
- Self-sharpening bond system
- Production time & cost savings

Stahli is one of the leading companies worldwide in manufacture of precision lapping, flat honing, and polishing machines. Our name is synonymous with the highest standards of performance power, automation, productivity, and efficiency for customers in such diverse industries as automotive, electronics, aerospace, and ceramics. The dynamic design of our ultramodern machine line ensures you precision and reliability. Stahli machines are user-friendly and environmentally sound.

Consultation, Sales, Machining, and Testing Centers



Stahli USA, Inc
Lake Geneva, Wisconsin P 847-719-0360 sales@stahliusa.com www.stahliusa.com



Stähli Läpp-Technik GmbH
Weil im Schönbuch, Germany P +49 7031 75 779 6 LTS@stahli.com www.stahli-lohnfertigung.de



Stähli Lapping Technology Ltd
Pieterlen, Switzerland P +41 32 376 05 00 LTP@stahli.com www.stahli.com



Stähli Lapping Technology Ltd
Winterthur, Switzerland P +41 52 203 50 51 LTW@stahli.com www.stahli.com



Stähli Lapping Technology (Xiamen) Co., Ltd
Xiamen, China P +86 592 651 3551 LTCN@stahli.com www.stahlichina.com

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CONSUMABLES

STÄHLI
FEELING FOR FINISHING

Workholders & Carriers

Stahli USA designs and manufactures high-performance carriers and workpiece templates for all flat honing, lapping, and polishing machines.

Carrier and template designs play a critical role, not only in encapsulating the specific workpiece, but also in maintaining proper plate flatness.

FEATURES & BENEFITS

- All materials including fiber glass, phenolic, PVC, tempered steel, and blue steel
- Diameters up to 48”
- Raw material in stock
- Workholders and templates for all makes and models of single-sided and double-sided machines
- Specialized carriers for fragile workpieces
- Design engineering services or carriers customized to your drawings
- In-house manufacturing with expedited delivery capabilities

APPLICATIONS

- All pin and gear drive systems
- All lapping, polishing, and flat honing machines:
  - » SpeedFam
  - » Melchiorre
  - » Stähli
  - » Cleveland
  - » Norton
  - » Custom/ Homemade
  - » Fujikoshi
  - » Peter Wolters
  - » Lapmaster
  - » Spitfire
  - » Engis
  - » Gerber
  - » Mistunaga
  - » P.R. Hoffman

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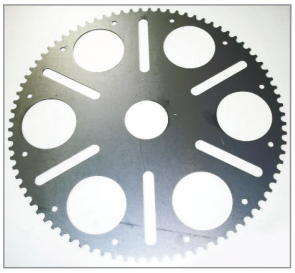
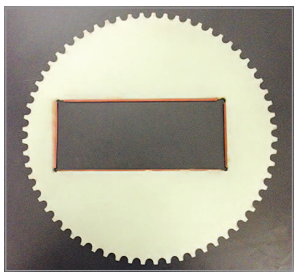
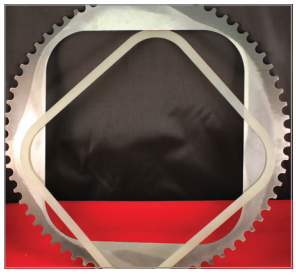
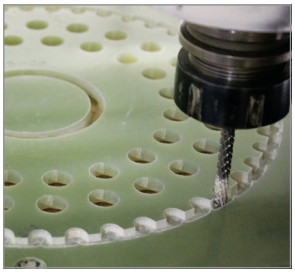


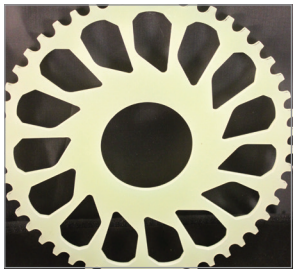
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STANDARD MATERIALS & THICKNESS

Sheet Steel:	0.040" and up
Spring Steel:	0.004" - 0.060"
G10 Stock:	0.031" - 1"
Phenolic:	0.031" - 1"
Grey PVC:	0.031" - 1"
Other:	Steel, Aluminum, Carbide, Tool Steel

**Other materials and sizes available upon request*



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