



OptoTech

# Product Catalogue

## Consumables

## Ophthalmics





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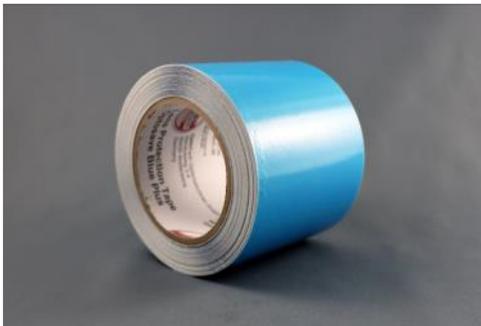
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Content

## Lens Protection Tape



Surface Saver Tape for protecting lenses during the processing cycle in RX production. Excellent conformity and removes cleanly.

It offers moderate tack and adhesion properties, and high cohesion for mineral and organic lenses

Saver tape	Lens material	Dimensions (L x W)	Art. No.
Optosave blue PLUS 35	Mineral + Organic	35 m x 0.1 m	SC-82-3301
Optosave blue PLUS 105	Mineral + Organic	105 m x 0.1 m	SC-82-3304
Optosave blue PLUS 210	Mineral + Organic	210 m x 0.1 m	SC-82-3303

Saver tape	Lens material	Dimensions (L x W)	Art. No.
Optosave Low tack 35	Mineral + Organic	35 m x 0.1 m	SC-82-3311
Optosave Low tack 105	Mineral + Organic	105 m x 0.1 m	SC-82-3314
Optosave Low tack 210	Mineral + Organic	210 m x 0.1 m	SC-82-3313

## Alloy



Alloy is a low melting metal craving for blocking of organic and mineral lenses in RX production.

Alloy	Work piece	Weight	Art. No.
Alloy 47°C / 117°F	Mineral + Plastic	1 Kg	GE-53-3301
Alloy 7 70°C / 158°F	Mineral	1 Kg	GE-53-3302
Alloy 60°C / 145°F	Mineral + Plastic Pb and Cd-free	1 Kg	GE-53-3303
Alloy 47-52°C / 126°F	Mineral + Plastic Cd-free	1 Kg	GE-53-3304

## Blocking Chuck



For blocking all kind of lenses incl. axis notch for recognizing free form lens axis.

Ø47mmx50mmx10mm

Aluminium **Art. No.: 061-90-231**  
Stainless steel **Art.-No.: 061-90-225**

## Nozzle Cutter



For cutting alloy nozzles around the alloy block to guarantee a plano contact surface for the collet chuck.

Ø47mmx52mmx15mm

**Art. No.: 161-90-011**

## Coolant KE 500



Water soluble coolant additive without mineral oil for processing optical lenses with diamond tools. KE 500 is free of phenols, nitrite, silicon and PCB/PCT, PTBB as well as other dangerous and/or raw materials.

Further advantages of KE 500 are:

- high anticorrosive reserve
- less foaming
- good machine maintenance
- environment-friendly
- good skin tolerance

## Coolant GE 44



Fluid G 44 is a full synthetic, mineral-oil free water soluble coolant for processing ceramics, flat-, optical- and crystal glass. It can also be used for processing steel and non iron metals like copper.

Fluid G 44 is free from chlorine, phenols, nitrite, silicon and PCB/PCT and PTBB labelling obligation as well as other dangerous and/or raw materials with labelling obligation.

Further advantages of Fluid G 44 are:

- high economic
- low foaming
- good rust protection and cooling impact
- good rinsing
- good skin tolerance

Article	Color	Viscosity (20°C)	pH-Value	Refractometer Factor	Packing units	Art. No.
KE 500	yellow	12mm <sup>2</sup> /s	9.3	1.8	10 ltrs, 25 .ltrs or 200 ltrs.	KM-28-0002
GE 44	light yellow	8mm <sup>2</sup> /s	9.4	2.0	10 ltrs, 25 .ltrs or 200 ltrs.	KM-29-0004

## Milling Tools ASM 80 CNC



Bronze bonded tool for fining organic and mineral lenses in RX-production prior to polishing.  
Type A Ø 60mm x 40mm x 3mm  
Grit sizes D30 / C35

**Art. No.: PS-02-0045 (ball)**

**Art. No.: 063-90-0010 (reception)**



Bronze bonded diamond tool with pre- and a fine-generating process to produce RX- and freeform lenses in mineral on the ASM 80 CNC.

**Art. No.: PS-03-0001**

**Art. No.: PS-02-0093**

**Art. No.: 063-90-0020**

## Dressing Stone



Silicon carbide dressing stone for dressing diamond tools on the ASM 80 CNC.

Dressing stone Ø70mm x 25mm,  
Ø45mm x 50mm x 10mm

**Art. No.: 062-90-0018**

**Milling Tools**



Milling tool with 11 PCD inserts

Machine designed milling cutter with PCD inserts for generating all types of lenses in RX production on OptoTech Digital Surfacing Turning Machines.

Setting a standard with high cost-effectiveness and consistent quality for milling and diameter reduction enable to cut all kind of organic lens indices.

Re-sharpening up to 3 times is possible.

Ø 60mm x 55mm x 14mm R7 HD 20

11 inserts **Art. No.: FC-76-0013**



Milling tool with 12 PCD inserts

Ø 66mm x R 6.0 / Z12 HSK 32

12 inserts **Art. No.: FC-80-0001**

Ø 66mm x R 6.0 / Z15 HSK 32

15 inserts **Art. No.: FC-80-0007**



Milling tool with 15 PCD inserts

## PCD Turning Tool



Electroplated turning tool for fining the lens after generating process prior to polishing. Recommended for toric RX prescription lenses in standard CR 39

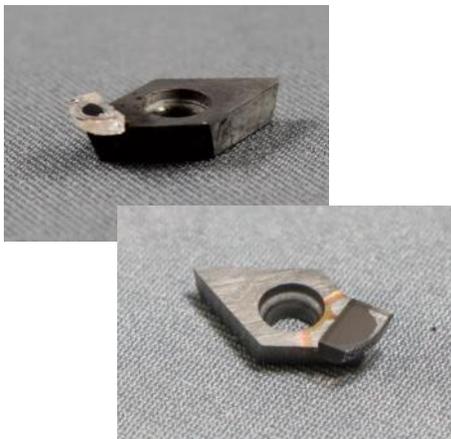
PCD Radius 5.5 mm **Art. No.: WZ-05-0112**

Holder Art. No. 064-90-0016

PCD Radius 2.0 mm **Art.No.: WZ-05-0111**

Holder Art. No. 064-90-0015

## Diamond Turning Tool



Natural diamond for turning generated surfaces prior to polishing. Recommended for all free form processes in 1.6, 1.67, trivex and polycarbonate.

ND R 2.0 mm 120° **Art. No.: WZ-05-0110**

ND R 5.0 mm 40° **Art. No.: WZ-05-0119**

## Holder for Turning Tool



### Holder Titanium Version

Titanium holder natural diamond **Art. No. 064-90-0065**

Titanium holder pcd cutting plate **Art. No. 064-90-0066**

### Holder Stainless Steel Version

Stainless steel holder natural diamond **Art. No. 064-90-0015**

Stainless steel holder pcd cutting plate **Art. No. 064-90-0016**

**Polishing Tool ASP 80 Twin-A**



New OptoTech HPT Tools  
(Hybrid Polishing Technology)

The ASP 80 Twin-A is equipped with a new processing method to bring down process times and increase tool lifetime while producing high value products. With these materials, OptoTech has the fastest machine in the market, polishing 2 lenses simultaneously.

The process depends always on :

- Diameter
- Material index
- Curve geometry
- Quality of turned surface



HPT Polishing Membrane  
Ø61 R43

**Art. No. PT-15-2180**



HPT Polishing Membrane  
Ø50 R38

**Art. No. PT-15-2179**



HPT Fine Polishing Membrane  
Ø50 R38

**Art. No. PT-15-2173**



HPT Fine Polishing Membrane  
Ø33 R26

**Art. No. PT-15-2187**



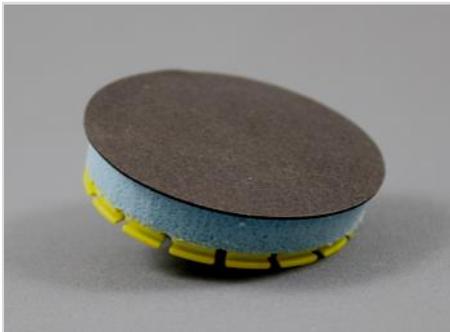
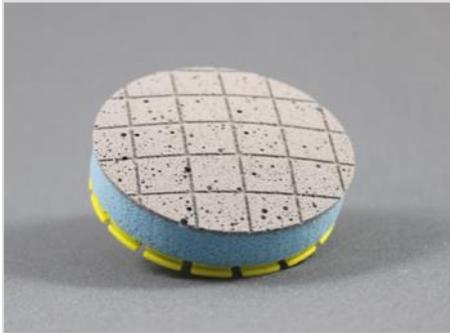
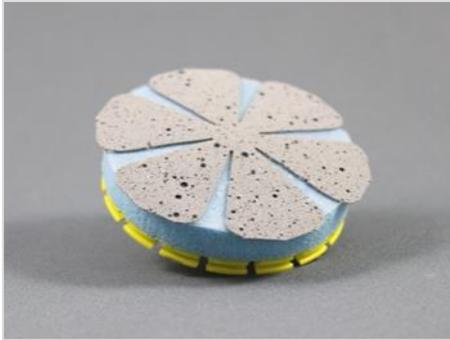
Holder for HPT Polishing Membrane  
Ø50 R38

**Art. No. 196-90-0126**

Holder for HPT Polishing Membrane  
Ø61 R43

**Art. No. 196-90-0127**

**Spring Tool ASP 80 CNC / Torilab Store**



**Polishing spring tools for RX-production**

Different polishing ground for polishing free form and other lenses in RX-production. Various types are available, e.g. GR 35, LP46, black felt and LSF-material.

Radius	Material	Art. No.
45	Polyurethane flower structure	PT-17-5023
75		PT-17-5022
250		PT-17-5021
1000		PT-17-5027
-90		PT-17-5028
-50		PT-17-5029
45	Polyurethane round	PT-17-5003
75		PT-17-5002
250		PT-17-5001
1000		PT-17-5007
-90		PT-17-5008
-50		PT-17-5009
45	Black felt	PT-17-6003
75		PT-17-6002
250		PT-17-6001
1000		PT-17-6007
-90		PT-17-6008
-50		PT-17-6009
45	Black LSF	PT-17-3003
75		PT-17-3002
250		PT-17-3001
1000		PT-17-3007
-90		PT-17-3008
-50		PT-17-3009

**Polishing Organic Freeform**

**Polishing Tools Easy Twin**

Highly flexible polishing method with combined membrane and spring tool process. Our variety of tools offers individual solution for all lens materials to bring out the best quality standards possible.



Membrane Ø69 R42  
**Art.No.: PT-15-2164/1**



Flatback Tool R42  
**Art.No.: 150-90-0558**



Ø50 R45 GR35 0,51  
**Art.No.: PT-17-5023**  
*For large minus surfaces up to  
-14 dpt for pre-polishing*



Ø55 R75 GR35 0,51  
**Art.No.: PT-17-5022**  
*For flat curves  
(Frame blending positive)*



Ø60 R250 Black Foil  
**Art.No.: PT-17-3001**



Ø50 R45 Black Foil  
**Art.No.: PT-17-3003**



Adaptor Flatback  
**Art.No.: 151-90-0005**

## Polishing Tool ASP 80 Twin-A



Polishing wheel with PU

Polishing wheel covered with special polyurethane foil. Type 126 Polyurethane polishing foil for polishing free form and other lenses in RX-production.

**Art. No. 16900700500351**



Ball with PU Polishing Strip

Polishing wheel covered with special polyurethane foil Type 126 Polyurethane polishing foil for polishing free form and other lenses in RX-production. Various types are available, e.g. GR 35, LP46, LP66

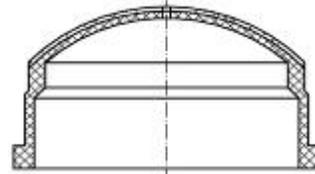
**Art. No. 195-90-0014 (Ball)**

**Art. No. FZ-026-127-003 (PU Strip)**



**Polishing membrane for FEM - tool in RX-production**

Polyurethane polishing foil for polishing free form and other lenses in RX-production.



Dimensions	Material	Article Number
Ø78 R45 Ø55 R35	Polyurethane structured	PT-15-2151/1 PT-15-2160/1
Ø78 R45 Ø55 R35	Black felt	PT-15-2152 PT-15-2161
Ø78 R45 Ø55 R35	to stick polishing pads	136-90-154 136-90-175

Polishing Membranes Ø55/78mm

## Flat-back 2" Tool



Polishing membrane tools as additional tool for the ASP Wheel MULTItool.

With polyurethane polishing foil or black felt for polishing free form and other lenses in RX-production.

**Art. No.: 150-90-0512**

**Art. No.: 150-90-0518**

## Black 1 Step Fining Pad Conventional



The surface structure of the pad is designed to give excellent stock removal characteristics while maintaining a quality lens surface without extending polishing times.

250 Pads / Roll

**Art. No.: BP- 37-1104 (76mm 6-leaf)**

**Art. No.: BP- 37-1105 (89mm 6-leaf)**

## Green Hi Index 1 Step Fining Pad Conventional



The Green Hi-Index 1 Step fining pad is a major advance in pad technology that produces a superb finish on all the latest CR39 and Hi-Index lens materials.

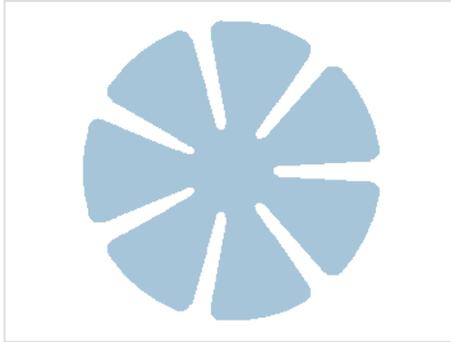
The special abrasive is unique and will give the highest quality surface with the minimum running times, providing an excellent foundation for the successful AR coating of the lenses.

250 Pads / Roll

**Art. No.: BP-37-1103 (83mm 6-leaf)**



## Polishing Pad Conventional



OptoTech “PP Pad light blue” is a high quality universal polishing pad with low fiber erosion with special adhesive for polishing organic lenses in RX-production.

250 Pads / Roll

**Art. No.: BP-31-2205 (76mm)**

**Art. No.: BP-31-2203 (83mm)**

**Art. No.: BP-31-2201 (89mm)**

## Diamond Smoothing Pad Mineral Conventional



OptoTech SG Diamond Pad is a sintered diamond foil for smoothing glass materials in RX production. The SG Diamond Pad works very cost effective and gives an excellent finishing.

Available types:

SG Diamond Pad 15-20 micron  $\varnothing$  76

**Art. No.: BP-02-1101**

SG Diamond Pad 20-30 micron  $\varnothing$  76

**Art. No.: BP-02-2030**

SG Diamond Pad 20-30 micron  $\varnothing$  79

**Art. No.: BP-02-1102**

## Polishing Pad Mineral Conventional



OptoTech Blue polishing pad for glass materials in RX-production.

Available types:

PB Polishing Pad  $\varnothing$  76 mm

**Art. No.: BP-31-2207**

PB Polishing Pad  $\varnothing$  83 mm

**Art. No.: BP-31-2227**

PB Polishing Pad  $\varnothing$  89 mm

**Art. No.: BP-31-2211**



## IQ Polish



### IQ Polish

Aluminum oxide polishing compound, especially designed for one-step fining applications for CR 39, high index and polycarbonate. Tight particle size distribution for high removal rate and superior finish

Ideal for A/R and hard coated lenses.

Ideal for cut to polish applications.

### Technical Data

Appearance:	white slurry
Viscosity (20°C):	10mm <sup>2</sup> /s
pH-Value:	3.6
Baumè:	22 to 20
Particle size:	1.9µ

Packing unit: 1 Gallon

**Art. No.: PM-14-2101**

## Polishing Compound Mineral Glas Ceri 5005



Water-mixable polishing compound based on cerium oxides made from rare earths for polishing optical elements in mass and RX production.

**Benefits:**

New cerium oxide offers excellent clean-up benefits. Superior stock removal and finish. No hard settle- even without agitation

**Applications:**

Low speed ophthalmic applications (1500 RPMS)

For use in single bowl and central slurry systems

Appearance: white powder

Ph-value: 5.8-7.5

Particle size: 1.1-1.8 $\mu$

Packing unit : 20 kg Container

**Art. No.: PM-14-2202**

## Polishing Compound Mineral Glas Ceriox 1663



Water-mixable polishing compound based on cerium oxides made from rare earths for polishing optical elements in mass and RX production.

Appearance: white powder

Ph-value: 6.0-7.0

Particle size: 0.9-1.6 $\mu$

Packing units: 20 kg Containers

**Art. No.: PM-19-2201**

## Manual Refraktometer



A measuring unit for checking the concentration of coolant suspensions in ophthalmic and precision optics.

**Art. No.:** GE-39-3301

## Aerometer



Measuring device for testing the concentration and the specific weight of fluids like polishing fluid.

Integrated thermometer (0 to +35°C)

Length: approx. 350 mm

Also available: Measuring cylinders with hexagonal stand and nozzle in many different sizes.

**Art. No.:** GE-40-3303

## Thickness Gauge For Blocked Lenses



Thickness gauge for blocked lenses to measure the center thickness  
Clock gauge increments: 0.01 mm

**Art. No.:** 605-90-0006

Options:

- Support for finished lenses
- Digital gauge

## Spherometer



Spherometer for convex- and concave measuring.

**Art. No.: 605-90-0003**

## Torometer



Torometer for convex- and concave measuring.

**Art. No.: 605-90-0001**

## Magnifier



Very stable magnifier, available in 6x, 8x, 10x and 15x.

**6x Art. No.: GE-15-0002**

**8x Art. No.: GE-15-0003**

**10x Art. No.: GE-15-0004**

**15x Art. No.: GE-15-0005**

## Contact Glue 3M Scotch Grip



This special adhesive based on polychloropren is suitable to glue all kind of polishing foils like polyurethane, desmopan, desmoflex or polishing felt on tools which you need in ophthalmic optics or precision optics.

1 Ltr. Tin

**Art. No.: KK-57-3301**

## Cleaning Sponge



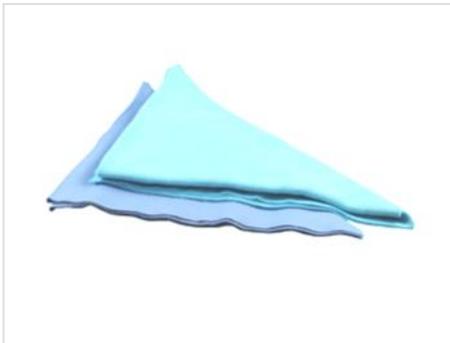
Highly absorbent and durable viscose sponge

Silicone free

Colour: Yellow

**Art. No.: RM-35-0001**

## Cleaning Cloth



Soft and lint-free cotton cloth for cleaning very sensitively surfaces in optical industry.

The clothes are free from silicone and washable by 90 °C in usual washing machines.

100% Cotton

Colour: white or blue

Size: 40mm x 40mm, 50mm x 50mm

**Art. No.: RM-19-3301 white**

**Art. No.: RM-21-3301 blue**

Other qualities on request

## Cleaning Cloth Kanebo



Material for easy cleaning of polycarbonate and trivex, scratch-free.

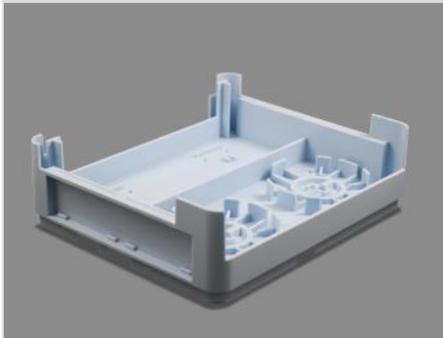
Material is washable in usual washing machine

Colour: white

Size: 1 sqm

**Art. No.: RM-83-3301 white**

## Multi Job Tray



Colours:

Beige: **Art. No.: GE-30-0010**

Blue: **Art. No.: GE-30-0020**

Green: **Art. No.: GE-30-0030**

Red: **Art. No.: GE-30-0040**

## Coating Job Tray



Colour:

Black: **Art. No.: GE-31-0010**

Other colours on request.



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