



OptoTech

Product Catalogue

Consumables

Ophthalmics





Content

Lens Protection 3

Blocking 4

Coolants 5

Milling Tools 6

Diamond Tools 8

Polishing Organic FF 9

Polishing Tools ASP 80 Twin-A 10

Polishing Tools EasyTwin 11

Polishing Mineral Glass FF 12

Fining / Polishing Conventional 13

Polishing Conventional 15

Polishing Mineral Glass Conventional 16

Polishing Liquid Organic 17

Polishing Compound Mineral Glass 18

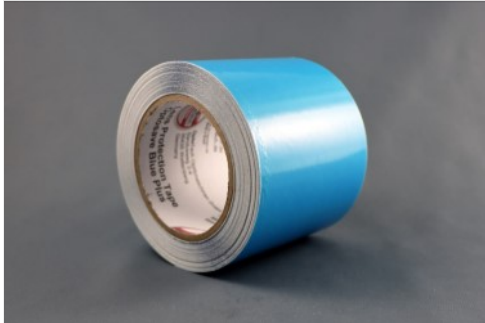
Measuring Instruments 19

Glue and Cleaning 21

Job Trays 23

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.

Ø 43mm x 17mm

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.

Ø 43mm x 30mm

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 ² /s	9.3	1.8	10 ltrs, 25 .ltrs or 200 ltrs.	KM-28-0002
GE 44	light yellow	8mm ² /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

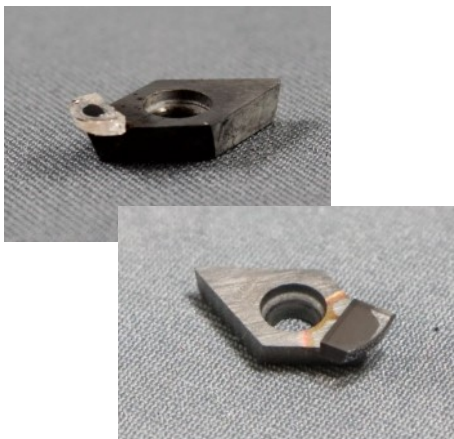
PCD Radius 5.5 mm **Art. No.: WZ-05-0112**

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

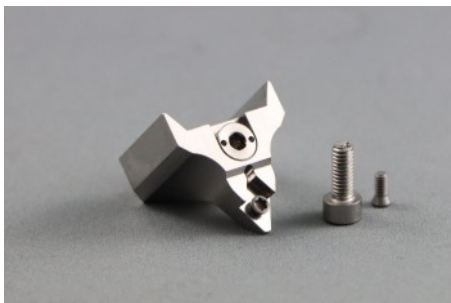


Natural diamond for turning generated surfaces prior to polishing. Recommended for all free form processes in 1.6, 1.67, trivex and polycarbonate.

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



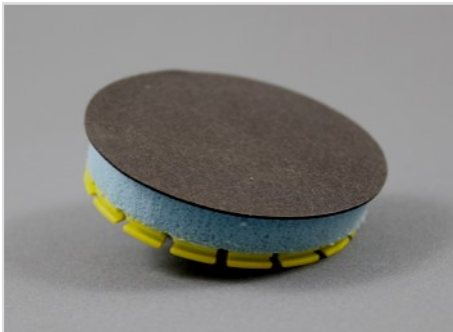
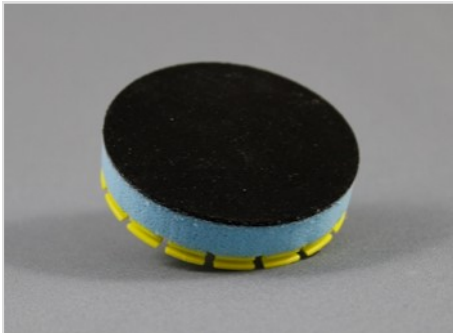
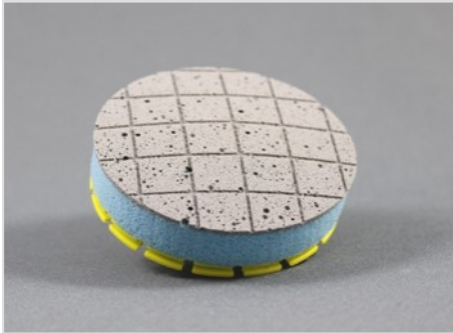
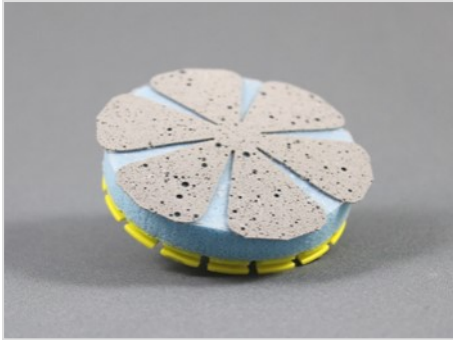
Holder for HPT Polishing Membrane
Ø50 R38

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.



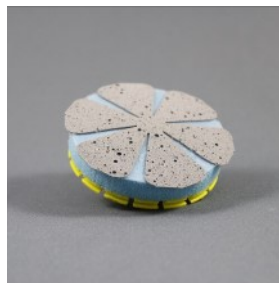
Membrane Ø69 R42
Art.No.: PT-15-2164/1



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

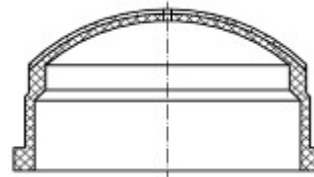
Art. No. 195-90-0014 (Ball)

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.



Polishing Membranes Ø55/78mm

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

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.

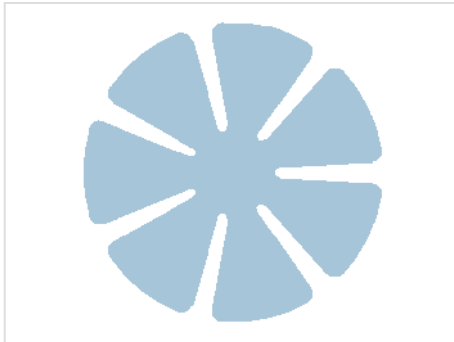
The special abrasive is unique and will give the highest quality surface with the minimum running times, providing an excellent foundation for the successful AR coating of the lenses.

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 ² /s
pH-Value:	3.6
Baumè:	26.5
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: 1.1-1.8µ

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: 0.9-1.6µ

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



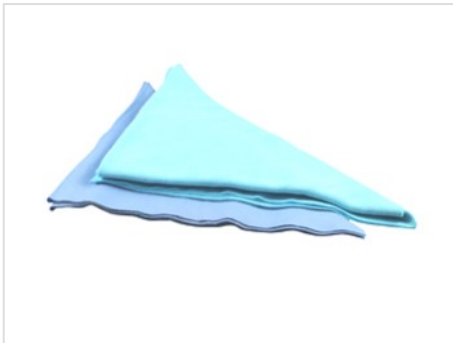
Highly absorbent and durable viscose sponge

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

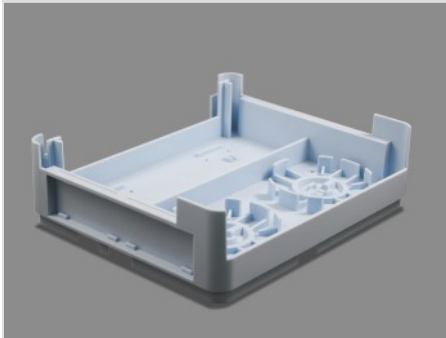
Colour: white

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.



Contact:



OptoTech Optikmaschinen GmbH
Sandusweg 2 - 4
35435 Wettenberg
Germany
T: +49 641 98 20 3-0
E: info.de@optotech.net
W: www.optotech.net



OptoTech S.r.l.
Via Romolo Murri 22/28
20013 Magenta MI
Italy
T: + 39 02 52804085
E: sales.it@optotech.net



OptoTech AG
Luterbachstrasse 10
4528 Zuchwil
Switzerland
T: +41 32 613 38 00
E: info.ch@optotech.net



OptoTech Asia Ltd.
Room 22, 23/F, Metro Centre II
21 Lam Hing Street, Kowloon Bay
Hongkong
T: +852 3568 3243
E: service-asia.hk@optotech.net



OptoTech Technologies Inc.
PO Box 665
Germantown, WI 53022
USA
T: +1 877 412 8350
E: info.us-pa@optotech.net



OptoTech Optikmaschinen GmbH
Damji Shamji Trade Centre 505
5th Floor, Station Road
Vidyavihar – W
Mumbai – 400 086
India
T:+91 22 66 71 03 93
E: info.in@optotech.net



2023-01-16; Subject to change