

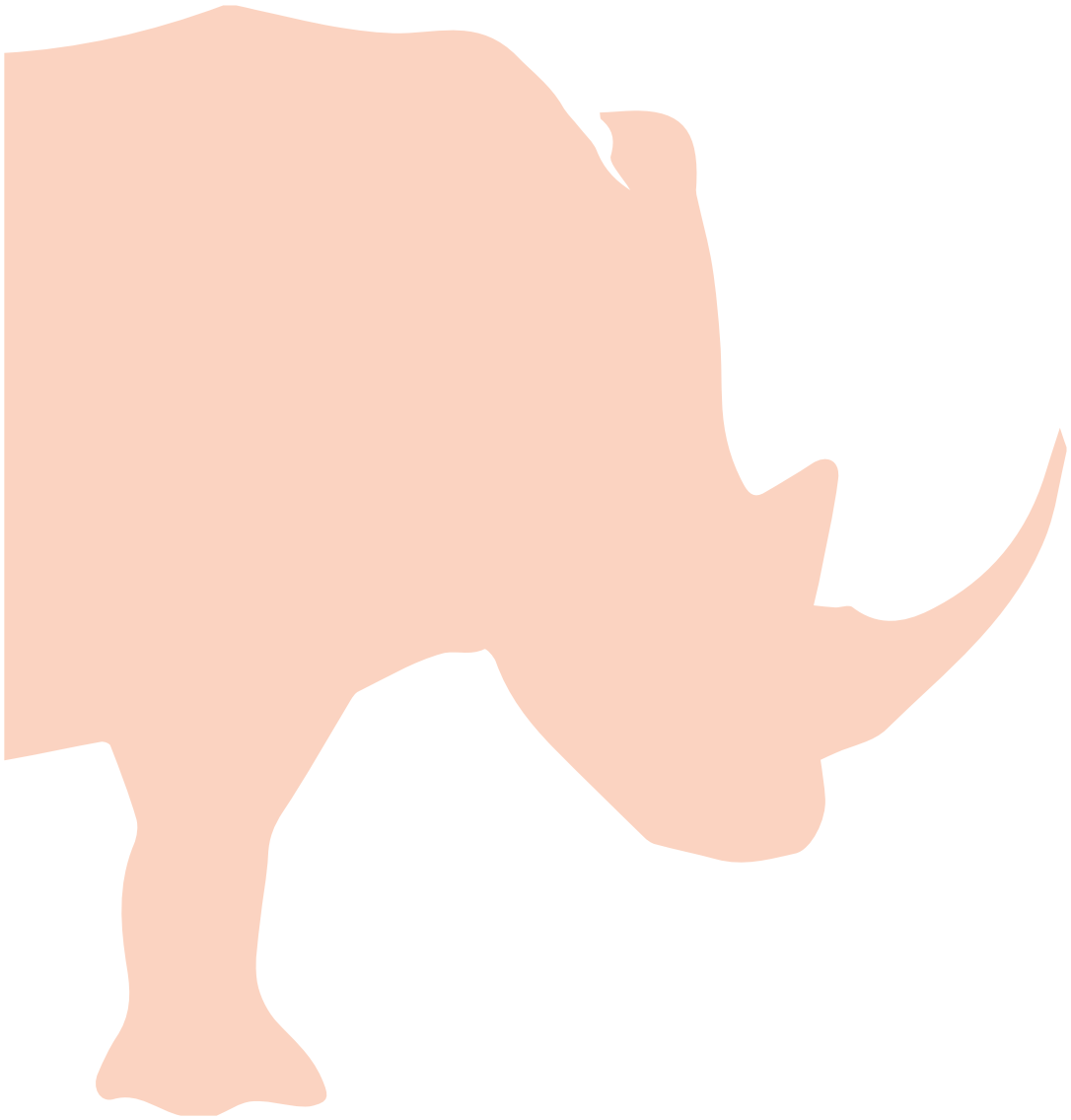
DURE™ OPTICAL LENS CONSUMABLES

CATALOGUE
2025/26
EDITION



LEADERS
In Optical Lens Products,
Consumables & Services

Member of
LIBERTY
— MEDICAL WORLD —



DURE™

Pioneering a Brighter Vision

At Dure™, we are dedicated in meeting the distinct needs of optical labs and optometrists, providing quality durable products and efficient service.

Through innovative process and focus on integrated services, we enhance global accessibility.

With over 1000 products, Dure™ leads the optical industry, offering a comprehensive wide range. Our rigorous production controls ensure enduring quality.

We appreciate your continuous support and pledge ongoing dedication to delivering the best in affordable optical products.

Join us on the journey to a brighter future.

www.libertymedicalworld.com

OUR MISSION:

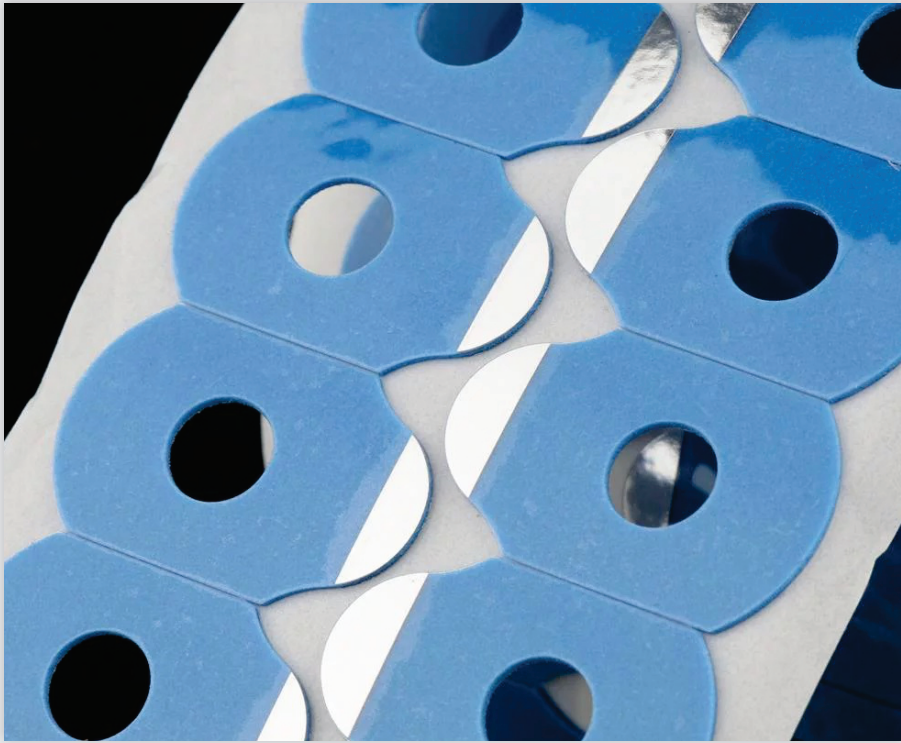
- To support our customers by providing superior products and services of exceptional value, which help them gain competitive advantage in their target markets
 - To preserve our vision and mission by always seeking renewal through ongoing education and learning, as well as the use of new technologies and best business practices, while always taking into account the environmental impact of our own or our customers' actions.
 - Dure™ will strive to save you money every month, but with higher-quality goods and one of the industry's fastest worldwide support teams, we can boost your production up-time, minimize your supply costs, eliminate breakage, and increase production efficiency.
 - Dure™ offers certified and guaranteed to operate for optimum performance components that are available from a single convenient source.
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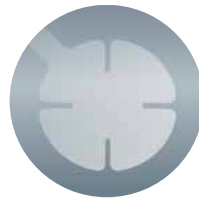
OPTICAL LENS TAPES



ANTI SCRATCH TAPE



ANTI SCRATCH TAPE (ACF)



ACF0135

width: 35mm Leaf Round
2,500 pcs/Roll



ACF4048

40 mm x 48mm
2,500 pcs/Roll

DURE™

EDGING/BLOCKING PAD

#A2225.5



22 x 25.5mm

Essilor
Visionix

#A14.522



14.5 x 22mm

Essilor

#A2431



24 x 31mm

Essilor

#A1823



18 x 23mm

Essilor
Visionix

#A18.529



18.5 x 29mm

Huvitz

#A1733



17 x 33mm

Nidek

ANTI SLIP PADS (TRANSPARENT TAPE)

#A4028



40 x 28mm

#A4226



42 x 26mm

#A4226



42 x 26mm

#A4226



42 x 26mm

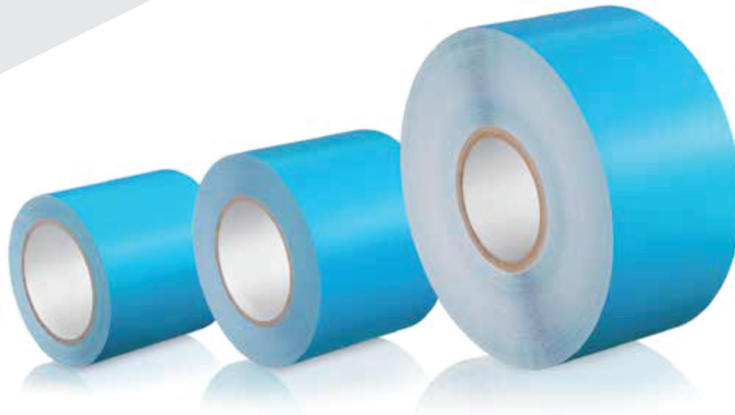
DURE™

SURFACE SAVER TAPE FOR ALLOY/WAX

	Wax Surface Adhesive Power	Alloy Surface Adhesive Power
H grade	standard	standard
G grade	standard	↓↓
C grade	↑	standard
M grade	standard	↑
R grade	↑	↑

M033H

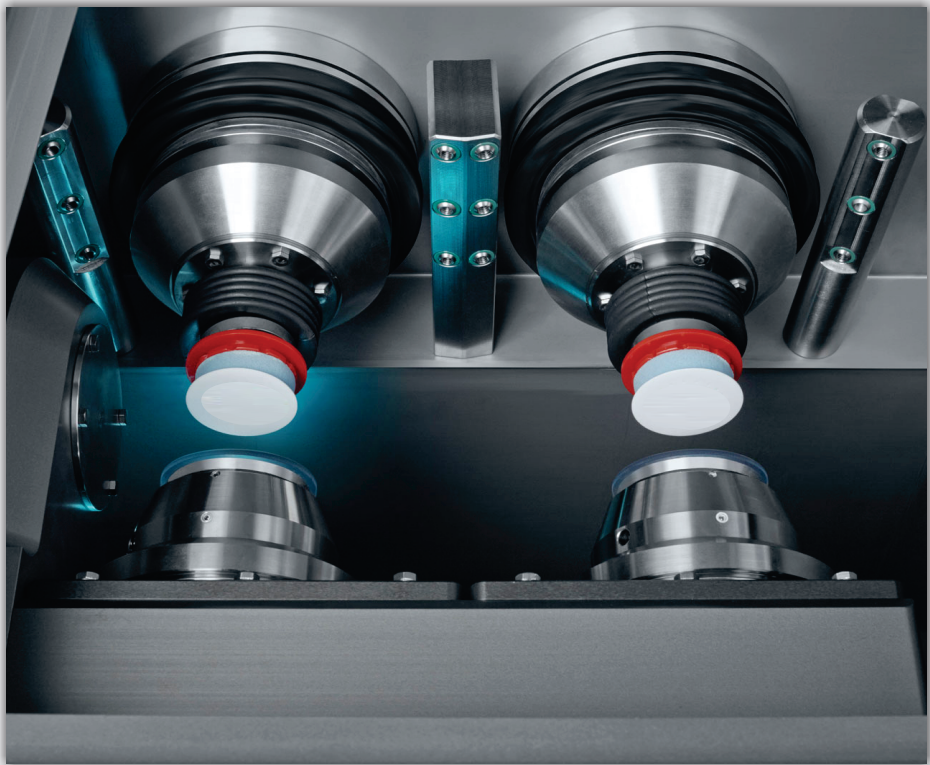
H grade
width 100mm length 33m
Blue



M SERIES

DURE™

Free-form/Digital Polishing Tools



SATISLOH

Auto & i-Flex Machines

INFO



Technical Data

Diameter: 47 mm | Work range base 0-14 dpt, cyl 0-4 dpt (max. 14 dpt in strongest meridian) | Polyurethane based polish carrier.



Benefits

High shape accuracy for all lens surfaces | Eliminates hard lap tools | Cost efficient | Reduces handling, because fewer tools are needed for large working range | Short polish times through high stock removal rates; process times nearly independent of cylinder and/or add powers | Highly versatile: polishes all lens formats (toric, spherical, free-form, convex & concave).



Recommendations

Please use with recommended polishing compound only.

AVAILABLE CURVES

OEM DESIGN REFERENCES



CURVE 0 = 14-007-000/OEM
CURVE 1 = 14-007-001/OEM
CURVE 2 = 14-007-002/OEM
CURVE 3 = 14-007-003/OEM
CURVE 4 = 14-007-004/OEM
CURVE 5 = 14-007-005/OEM
CURVE 6 = 14-007-006/OEM

CURVE 7 = 14-007-007/OEM
CURVE 8 = 14-007-008/OEM
CURVE 9 = 14-007-009/OEM
CURVE 10 = 14-007-010/OEM
CURVE 11 = 14-007-011/OEM
CURVE 12 = 14-007-012/OEM
CURVE 13 = 14-007-013/OEM

ATD DESIGN REFERENCES



CURVE 0 = 14-007-000/ATD
CURVE 1 = 14-007-001/ATD
CURVE 2 = 14-007-002/ATD
CURVE 3 = 14-007-003/ATD
CURVE 4 = 14-007-004/ATD
CURVE 5 = 14-007-005/ATD
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CURVE 7 = 14-007-007/ATD
CURVE 8 = 14-007-008/ATD
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CURVE 10 = 14-007-010/ATD
CURVE 11 = 14-007-011/ATD
CURVE 12 = 14-007-012/ATD
CURVE 13 = 14-007-013/ATD

OEM DESIGN REFERENCES



- CURVE 0 = 14-008-000/OEM
- CURVE 1 = 14-008-001/OEM
- CURVE 2 = 14-008-002/OEM
- CURVE 3 = 14-008-003/OEM
- CURVE 4 = 14-008-004/OEM
- CURVE 5 = 14-008-005/OEM
- CURVE 6 = 14-008-006/OEM
- CURVE 7 = 14-008-007/OEM
- CURVE 8 = 14-008-008/OEM
- CURVE 9 = 14-008-009/OEM
- CURVE 10 = 14-008-010/OEM
- CURVE 11 = 14-008-011/OEM
- CURVE 12 = 14-008-012/OEM
- CURVE 13 = 14-008-013/OEM



- CURVE 0 = 14-014-000/OEM
- CURVE 1 = 14-014-001/OEM
- CURVE 2 = 14-014-002/OEM
- CURVE 3 = 14-014-003/OEM
- CURVE 4 = 14-014-004/OEM
- CURVE 5 = 14-014-005/OEM
- CURVE 6 = 14-014-006/OEM
- CURVE 7 = 14-014-007/OEM
- CURVE 8 = 14-014-008/OEM
- CURVE 9 = 14-014-009/OEM
- CURVE 10 = 14-014-010/OEM
- CURVE 11 = 14-014-011/OEM
- CURVE 12 = 14-014-012/OEM
- CURVE 13 = 14-014-013/OEM



- CURVE 1 = 11-010-001/OEM
- CURVE 3 = 11-010-003/OEM
- CURVE 5 = 11-010-005/OEM
- CURVE 7 = 11-010-007/OEM
- CURVE 9 = 11-010-009/OEM
- CURVE 11 = 11-010-011/OEM
- CURVE 13 = 11-010-013/OEM



- CURVE 1 = 11-011-001/OEM
- CURVE 3 = 11-011-003/OEM
- CURVE 5 = 11-011-005/OEM
- CURVE 7 = 11-011-007/OEM
- CURVE 9 = 11-011-009/OEM
- CURVE 11 = 11-011-011/OEM
- CURVE 13 = 11-011-013/OEM



- CURVE 1 = 11-012-001/OEM
- CURVE 3 = 11-012-003/OEM
- CURVE 5 = 11-012-005/OEM
- CURVE 7 = 11-012-007/OEM
- CURVE 9 = 11-012-009/OEM
- CURVE 11 = 11-012-011/OEM
- CURVE 13 = 11-012-013/OEM

ATD DESIGN REFERENCES



- CURVE 0 = 14-008-000/ATD
- CURVE 1 = 14-008-001/ATD
- CURVE 2 = 14-008-002/ATD
- CURVE 3 = 14-008-003/ATD
- CURVE 4 = 14-008-004/ATD
- CURVE 5 = 14-008-005/ATD
- CURVE 6 = 14-008-006/ATD
- CURVE 7 = 14-008-007/ATD
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- CURVE 10 = 14-008-010/ATD
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- CURVE 12 = 14-008-012/ATD
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- CURVE 0 = 14-014-000/ATD
- CURVE 1 = 14-014-001/ATD
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- CURVE 10 = 14-014-010/ATD
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- CURVE 12 = 14-014-012/ATD
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- CURVE 1 = 11-010-001/ATD
- CURVE 3 = 11-010-003/ATD
- CURVE 5 = 11-010-005/ATD
- CURVE 7 = 11-010-007/ATD
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- CURVE 1 = 11-011-001/ATD
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- CURVE 13 = 11-011-013/ATD



- CURVE 1 = 11-012-001/ATD
- CURVE 3 = 11-012-003/ATD
- CURVE 5 = 11-012-005/ATD
- CURVE 7 = 11-012-007/ATD
- CURVE 9 = 11-012-009/ATD
- CURVE 11 = 11-012-011/ATD
- CURVE 13 = 11-012-013/ATD

OEM DESIGN REFERENCES



- CURVE 1 = 11-013-001/OEM
- CURVE 3 = 11-013-003/OEM
- CURVE 5 = 11-013-005/OEM
- CURVE 7 = 11-013-007/OEM
- CURVE 9 = 11-013-009/OEM
- CURVE 11 = 11-013-011/OEM
- CURVE 13 = 11-013-013/OEM

ATD DESIGN REFERENCES



- CURVE 1 = 11-013-001/ATD
- CURVE 3 = 11-013-003/ATD
- CURVE 5 = 11-013-005/ATD
- CURVE 7 = 11-013-007/ATD
- CURVE 9 = 11-013-009/ATD
- CURVE 11 = 11-013-011/ATD
- CURVE 13 = 11-013-013/ATD

MYRIAD-FLEX
INFO

➔ **Technical Data**

Diameter: Down to 48 mm | Work range base 14-18 dpt, cyl 0-6 dpt (max. 14 dpt in strongest meridian) | Polyurethane based polish carrier | Up to 85 lenses / hour | Significantly wider working range | Recommended for lenses which will be hard coated later in a 1-Step process.



12-011-325



12-011-360



12-011-426

DLP MINI-FLEX
INFO

➔ **Technical Data**

Diameter: 50 mm / 55mm / 70mm | Work range base 0-14 dpt, cyl 0-4 dpt (max. 14 dpt in strongest meridian) | Polyurethane based polish carrier.



- DLP 50mm = 13-011-050
- DLP 55mm = 13-011-055
- DLP 70mm = 13-011-070

SCHNEIDER

CCP Swift, CCP 102, CCP 103 CCP Modulo, CCP Modulo S, CCP Nano and CCP Nano 2 Machines

INFO

→ Technical Data

Diameter: 45 mm | Work range base 0-14 dpt, (max. 14 dpt in strongest meridian) | Polyurethane based polish carrier.

→ Benefits

2nd step black topped tool for CR-39, Polycarbonate, Trivex and Hi-index lenses | Designed for maximum output per tool, production proven to last +/- 2,000 seconds with optimum results | More accurate, improved mapping quality | Smoother peak to valley surface quality | Greater stock removal | Excellent resistance to sharp edge lenses.

→ Recommendations

Please use with recommended polishing compound only.

→ IMPORTANT

Designed tools for CCP Swift, CCP 102, CCP 103, CCP Modulo, CCP Modulo S, CCP Nano and CCP Nano 2 polishing machines.

OEM DESIGN REFERENCES



CURVE 032 / YELLOW = 10-010-032/OEM
CURVE 075 / BLUE = 10-010-075/OEM
CURVE 150 / RED = 10-010-150/OEM
CURVE 600 / GREY = 10-010-600/OEM
NEGATIVE CURVES / GREEN
(UPON REQUEST)



CURVE 032 / YELLOW = 19-019-032-OEM
CURVE 075 / BLUE = 19-019-075-OEM
CURVE 150 / RED = 19-019-150-OEM
CURVE 600 / GREY = 19-019-600-OEM
NEGATIVE CURVES / GREEN
(UPON REQUEST)

ATD DESIGN REFERENCES



CURVE 032 / YELLOW = 10-010-032/ATD
CURVE 075 / BLUE = 10-010-075/ATD
CURVE 150 / RED = 10-010-150/ATD
CURVE 600 / GREY = 10-010-600/ATD
NEGATIVE CURVES / GREEN
(UPON REQUEST)



CURVE 032 / YELLOW = 19-019-032-ATD
CURVE 075 / BLUE = 19-019-075-ATD
CURVE 150 / RED = 19-019-150-ATD
CURVE 600 / GREY = 19-019-600-ATD
NEGATIVE CURVES / GREEN
(UPON REQUEST)

OEM DESIGN REFERENCES



CURVE 032 / YELLOW = 23-023-032-OEM
 CURVE 075 / BLUE = 23-023-075-OEM
 CURVE 150 / RED = 23-023-150-OEM
 CURVE 600 / GREY = 23-023-600-OEM
 NEGATIVE CURVES / GREEN
 (UPON REQUEST)



CURVE 032 / YELLOW = 23-023-032-OEM
 CURVE 075 / BLUE = 23-023-075-OEM
 CURVE 150 / RED = 23-023-150-OEM
 CURVE 600 / GREY = 23-023-600-OEM
 NEGATIVE CURVES / GREEN
 (UPON REQUEST)



CURVE 032 / YELLOW = 29-029-032-OEM
 CURVE 075 / BLUE = 29-029-075-OEM
 CURVE 150 / RED = 29-029-150-OEM
 CURVE 600 / GREY = 29-029-600-OEM
 NEGATIVE CURVES / GREEN
 (UPON REQUEST)



CURVE 032 / YELLOW = 33-033-032-OEM
 CURVE 075 / BLUE = 33-033-075-OEM
 CURVE 150 / RED = 33-033-150-OEM
 CURVE 600 / GREY = 33-033-600-OEM
 NEGATIVE CURVES / GREEN
 (UPON REQUEST)



CURVE 032 / YELLOW = 29-029-032-OEM
 CURVE 075 / BLUE = 29-029-075-OEM
 CURVE 150 / RED = 29-029-150-OEM
 CURVE 600 / GREY = 29-029-600-OEM
 NEGATIVE CURVES / GREEN
 (UPON REQUEST)

ATD DESIGN REFERENCES



CURVE 032 / YELLOW = 23-023-032-ATD
 CURVE 075 / BLUE = 23-023-075-ATD
 CURVE 150 / RED = 23-023-150-ATD
 CURVE 600 / GREY = 23-023-600-ATD
 NEGATIVE CURVES / GREEN
 (UPON REQUEST)



CURVE 032 / YELLOW = 19-025-032-ATD
 CURVE 075 / BLUE = 25-025-075-ATD
 CURVE 150 / RED = 25-025-150-ATD
 CURVE 600 / GREY = 25-025-600-ATD
 NEGATIVE CURVES / GREEN
 (UPON REQUEST)



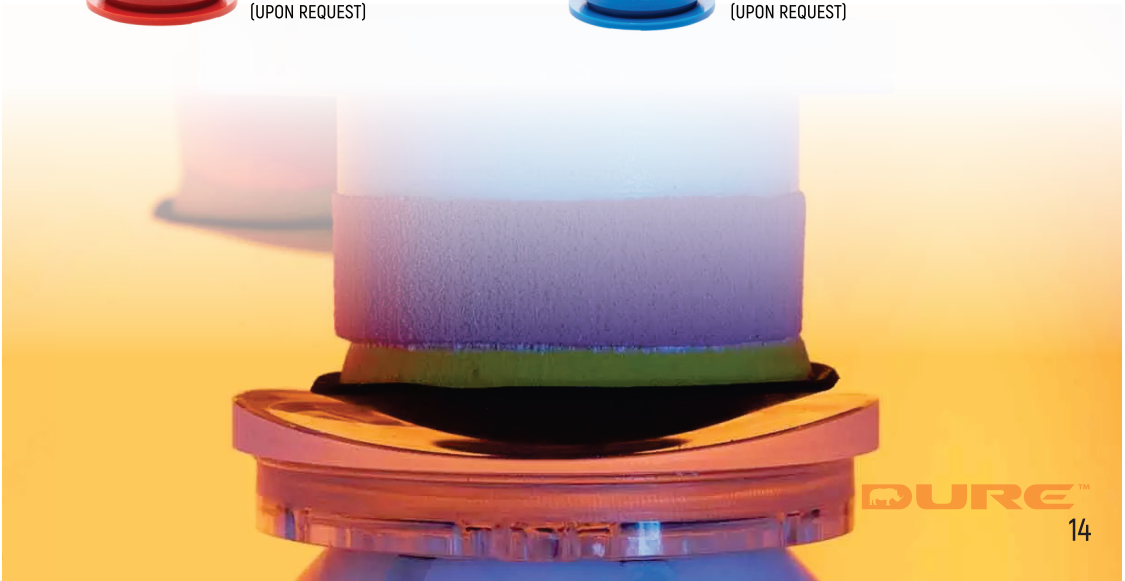
CURVE 032 / YELLOW = 29-029-032-ATD
 CURVE 075 / BLUE = 29-029-075-ATD
 CURVE 150 / RED = 29-029-150-ATD
 CURVE 600 / GREY = 29-029-600-ATD
 NEGATIVE CURVES / GREEN
 (UPON REQUEST)



CURVE 032 / YELLOW = 33-033-032-ATD
 CURVE 075 / BLUE = 33-033-075-ATD
 CURVE 150 / RED = 33-033-150-ATD
 CURVE 600 / GREY = 33-033-600-ATD
 NEGATIVE CURVES / GREEN
 (UPON REQUEST)



CURVE 032 / YELLOW = 37-037-032-ATD
 CURVE 075 / BLUE = 37-037-075-ATD
 CURVE 150 / RED = 37-037-150-ATD
 CURVE 600 / GREY = 37-037-600-ATD
 NEGATIVE CURVES / GREEN
 (UPON REQUEST)



OPTOTECH

ASP 80, Torilab Store, Easy Twin Machines

INFO

→ Technical Data

Diameter: 50 mm / 56 mm / 60mm / 65 mm | Plano up to 10 dpt. (cylinder -4 dpt.) | Polyurethane based polish carrier.

→ Benefits

2nd step black topped tool for all lenses materials. | Designed for maximum output per tool, production proven to last up to 100 surfaces per tool | More accurate, improved mapping quality | Smoother peak to valley surface quality | Greater stock removal | Designed for polishing toric, spherical and freeform lenses.

→ Recommendations

Please use with recommended polishing compound only.

→ IMPORTANT

Designed tools for ASP 80, TORILAB STORE, COMBI TWIN CNC and EASY TWIN CNC Optotech polishing machines.



CURVE 045 = 07-000-5003/BLACK
CURVE 075 = 07-000-5002/YELLOW
CURVE 250 = 07-000-5001/RED
CURVE 1000 = 07-000-5000/BLUE



CURVE 045 = 16-000-5003/BLACK
CURVE 075 = 16-000-5002/YELLOW
CURVE 250 = 16-000-5001/RED
CURVE 1000 = 16-000-5000/BLUE



CURVE 045 = 20-000-5003/BLACK
CURVE 075 = 20-000-5002/YELLOW
CURVE 250 = 20-000-5001/RED
CURVE 1000 = 20-000-5000/BLUE



CURVE 045 = 13-000-5003/BLACK
CURVE 075 = 13-000-5002/YELLOW
CURVE 250 = 13-000-5001/RED
CURVE 1000 = 13-000-5000/BLUE

FEM RX-PRODUCTION

INFO



Technical Data

Polyurethane black PU felt membrane for polishing free form and other lenses in RX-production | Flat-back 2".



Benefits

Special bond design from rubber to top pad for outstanding lifetime of the tool and polishing quality.



21-001-5003/FEM
Diameter: 78mm | Curve: R45
Optotech polishing machines.



21-000-5003/FEM
Diameter: 78mm | Curve: R45
Optotech polishing machines.



21-000-5002/FEM
Diameter: 69mm | Curve: R45
Optotech polishing machines.



21-001-5001/FEM
Diameter: 55mm | Curve: R35
Optotech polishing machines.



21-000-5001/FEM
Diameter: 55mm | Curve: R35
Optotech polishing machines.



21-001-5001/FEM
Diameter: 83mm | Curve: R100
Optotech polishing machines.



21-000-5001/FEM
Diameter: 83mm | Curve: R100
Optotech polishing machines.

ASP 80 Twin - A Machines

INFO



Technical Data

Polyurethane black PU felt rubber membrane with technical shock absorber foam which adapts to the topography of the lens surface.



Benefits

Increased tool lifetime of our Hybrid Polishing Technology (HPT) tools while producing high value products | Low operating costs thanks to the long life time of the HPT tools | Consistent, reproducible surface quality | All materials can be processed with the same tools | High process reliability.



17-2173
Diameter: 50mm | Curve: R38
ASP 80 Twin-A Optotech machines.



17-2174/1
Diameter: 61mm | Curve: R45
ASP 80 Twin-A Optotech machines.



17-2173/1
Diameter: 50mm | Curve: R38
ASP 80 Twin-A Optotech machines.

COBURN (DURE™)

COBOLT DP

INFO



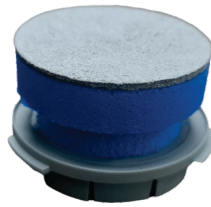
Important

Our company is the OEM (Original Equipment Manufacturer) of well recognized companies in the optical market. Our policy of exclusivity and confidentiality agreements with our partners allows us to put at their disposal all our know-how in the development of new products, without ever compromising the relationship of trust, since all the products and innovations created in the scope of exclusive partnership are not allowed to be used in other products or/and to be sold by our company to third parties.



Ecoline Freeform
Polishing Pads

253514 - D
(45-60) lenses



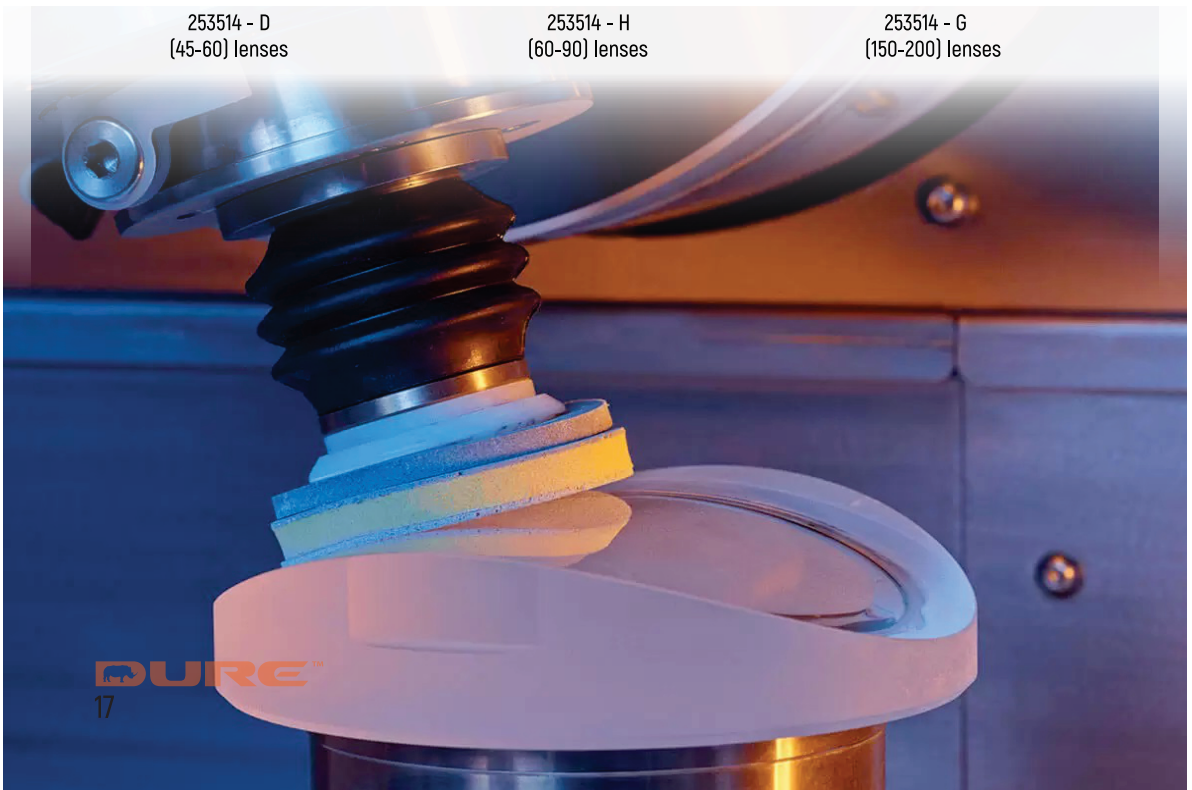
Comfiline Freeform
Polishing Pads

253514 - H
(60-90) lenses



Super-Dura Free
Polishing Pads

253514 - G
(150-200) lenses



METAL SPARES



LOH/SCHNEIDER BLOCKER

INFO



Technical Data

For blocking all kind of lenses including axis notch for recognizing free form lens axis. | Ø47mmx50mmx10mm.



Benefits

Machined from solid aluminum bar stock to exacting tolerances | All blocks are anodized | 2 standard colors available in 2 or 3 slot version.



Recommendations

Designed to have great behavior with our job trays LOH/SCHNEIDER system.



Important Remark

Spare part for LOH/SCHNEIDER machines use only.

LOH/SCHNEIDER SYSTEM – 2 SLOTS



BLACK = 60-002-000

RED = 60-002-032

**FURTHER BLOCKINGS
AVAILABLE ON REQUEST**

LOH/SCHNEIDER SYSTEM – 3 SLOTS



BLACK = 60-003-000

RED = 60-003-032

**FURTHER BLOCKINGS
AVAILABLE ON REQUEST**

D/T MACHINE METAL TOOL POST

INFO



Technical Data

Metal polishing tool support for Satisloh Duo and Toro flex machines.



Benefits

Quality replacement OEM part | Specific designed metal support has superior lifetime | Centering cross line eliminate misalignment of the tool and substantially reduce optical lens rejects.



Recommendations

Designed to have outstanding behavior with our polishing tools clip & place system.



Important Remark

Designed spare part for Duo-Flex and Toro-Flex Satisloh polishing machines use only.



60-004-000

D/T MACHINE METAL BALL PIN

INFO



Technical Data

Metal ball pin for Satisloh Duo and Toro flex machines polishing tools post.



Benefits

Quality replacement OEM part | Specific designed metal support has superior lifetime | Centering cross line eliminate misalignment of the tool and substantially reduce optical lens rejects.



Recommendations

Designed to have outstanding behavior with our metal machine tool post.



Important Remark

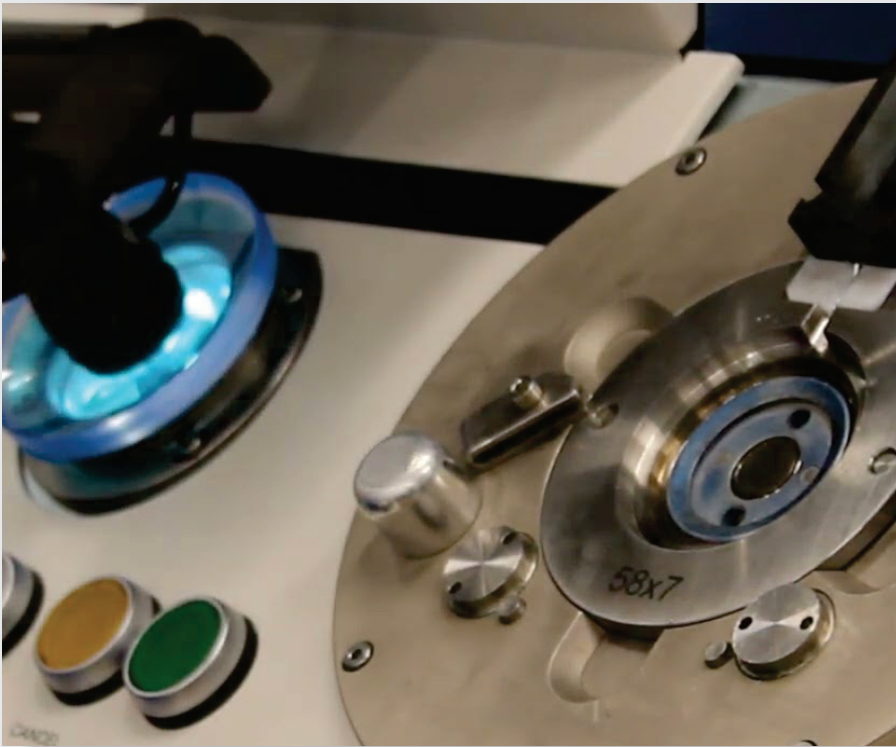
Designed spare part for Duo-Flex and Toro-Flex Satisloh polishing machines use only.



60-004-000



Surface Blocking Consumables



ALLOY BLOCKING COMPOUND

Alloy 47/117 quickly and cleanly furnishes a firm bond between the block and taped lens, yet provides easy separation when surfacing and finishing operations are complete. The blocking material is reusable by simple reclaiming. Five pounds of alloy blocks approximately 10 lenses.



WAX BLOCKING COMPOUND



Proprietary, thermoplastic material eliminates alloy use, reclaim, and waste management. Formulated to remove health hazards and environmental risks in surface blocking. FreeBond's low melting, blocking temperature, and density results in cooler lens processing and fewer aberrations. Approximately 240 lenses can be blocked per gallon.

DURE™

CONVENTIONAL PADS

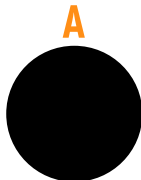


SURFACING PADS

INFO

→ Technical Data

We offer a range of alternative pad shapes for different applications, such as high curve impellor pads. Our technical and engineering departments can design and produce to a customer's specifications.



A
Plain Round
64mm | 76mm
67mm 80mm
70mm | 83mm
89mm



Q
8 Leaf
76mm
83mm
89mm



P
6 Leaf
64mm | 80mm
67mm 82mm
76mm 89mm



O
Impellor Top
Curve
6 Leaf
67mm
83mm



T
7 Leaf
76mm
80mm
83mm
89mm



V
16 Leaf
76mm



Hi-Index 1st Fine Pad

The Black 1st fine HI-Index pad is an evolutionary pad designed for use with modern generators with little or no elliptical error. The lower stock removal rates make it ideal for today's soft HI-Index lens materials. The unique design and specification of the abrasive ensures consistent stock removal rates throughout the curve range in all conditions while maintaining excellent surface quality.

MATERIAL - Silicon Carbide | THICKNESS - 0.28MM | SIZES - All Sizes | SHAPES - P Q T | RECOMMENDED PRESSURES - 15lbs - 18lbs (LoH 0.25/0.35 bar) | RECOMMENDED RUNNING TIME - | 1/2 minute | SLURRY - plain water filtered via a propriety filter system or direct to waste



"Superfine" Black 1st Fine Pad

A unique 1st fine pad, giving consistent and high stock removal rates throughout the fining cycle, yet achieving an excellent surface finish for the 2nd fine stage. The unique design of the abrasive particles specifies finer grains, which will continue to be effective to the end of the cycle, whilst giving a superior finish to the standard 1st fine pads. The flexible backing ensures excellent conformity to the tool and the adhesive has been specifically designed to give superb adhesion during the cycle, followed by an easy and clean removal.

MATERIAL - Silicon Carbide | THICKNESS - 0.28MM | SIZES - All Sizes | SHAPES - P Q T | RECOMMENDED PRESSURES - 15lbs - 18lbs (LoH 0.25/0.35 bar) | RECOMMENDED RUNNING TIME - | 1/2 minute | SLURRY - plain water filtered via a propriety filter system or direct to waste



"Superfine" Pink 2nd Fine Pad

This pad has been designed especially for use with the latest generation of Plastic lens materials. "Superfine" Pink 2nd Fine is suitable for use on all leading makes of optical equipment. The aluminium oxide abrasive is unique and requires no breakdown of the abrasive to achieve a high quality surface with minimum running times. For the best results use a direct water supply running to waste, or re-circulate using a propriety filter system unit set with the recommended temperature of 50 degrees F.

MATERIAL - Aluminium Oxide | THICKNESS - 0.13MM | SIZES - All Sizes | SHAPES - P T | RECOMMENDED PRESSURES - 18lbs | RECOMMENDED RUNNING TIME - 1-2 minutes | SLURRY - plain water filtered via a propriety filter system or direct to waste



Dure Red 1 Step

The Dure Red 1 Step is an evolutionary pad for the one step finishing of all CR39 and Hi-Index materials. The unique design and specification of the aluminium oxide particles ensures a high consistent stock removal rate throughout the curve range and in all conditions while maintaining an excellent surface quality. The fined surface is easily polished in a normal cycle time when used with Dure's high speed polishing pads. Available with the special Dure compensated backing which is the thickness of a 1st and 2nd fine pad combined, or as a non-compensated version. Both peel cleanly from the tool.

MATERIAL - Silicon Carbide | THICKNESS - 0.27MM, 0.47mm compensated | SIZES - All Sizes | SHAPES - P Q T | RECOMMENDED PRESSURES - 15lbs - 18lbs (Loh 0.25/0.35 bar) | RECOMMENDED RUNNING TIME - 1.5 - 2.5 minutes | SLURRY - Plain water filtered via a propriety filter system or direct to waste



"Superfine" 2nd Fine Pad

A more aggressive addition to our family of 2nd fine pads. This new pad follows the same rigid particle selection process but at a higher level, thus increasing stock removal rates without loss of surface quality. Consistent results ensure complete suitability on the full range of CR39 and Hi-Index lens materials. The specially formulated backing allows excellent conformity to the tool and the high grip adhesive ensures no movement when placed directly over the 1st fine pad.

MATERIAL - Silicon Carbide | THICKNESS - 0.26MM | SIZES - All Sizes | SHAPES - P Q T | RECOMMENDED PRESSURES - 15lbs - 18lbs (Loh 0.25/0.35bar) | RECOMMENDED RUNNING TIME - 1,1/2 - 2 minutes | SLURRY - plain water filtered via a propriety filter system or direct to waste



180 Grit Roughing Pad

The 180 grit is a well tried extremely aggressive pad and is ideally suited for curve correction or removal of extreme elliptical error.

MATERIAL - Aluminum Oxide | THICKNESS - 0.40MM | SIZES - 76MM, 89mm | SHAPES - P T | RECOMMENDED PRESSURES - 15lbs - 18lbs (Loh 0.25/0.35 bar) | RECOMMENDED RUNNING TIME - As required | SLURRY - plain water filtered via a propriety filter system or direct to waste



Dure 1 Step Multiplex Pad

The Dure Multiplex pad is a natural progression from our original Wizard pad, which was the first multi purpose one step pad to be developed for finishing both Polycarbonate and CR39 materials. This one step pad does away with the multitude of pads found in most modern labs, eliminating the need to have different pads for different plastic lens materials. The improved high quality surface that can be now achieved has only been made possible due to the constant research and development of new manufacturing processes and technology.

MATERIAL - Silicon Carbide | THICKNESS - 0.027mm, 0.46mm compensated | SIZES - 76mm, 89mm | SHAPES - P T | EQUIPMENT - All leading makes RECOMMENDED PRESSURES - 15lbs - 20lbs (Loh 0.25/0.40 bar) | RECOMMENDED RUNNING TIME - CR39 30 seconds, Polycarbonate 2 minutes



White Polishing Pad

This addition to Dure's range of polishing pads was developed to be compatible with all lens materials, liquid polishes and makes of machinery. Its balance between performance and cost makes this product the top choice for a great number of customers who are looking for exceptional value for money and good consistent quality.

MATERIAL - Stock flock Synthetic | THICKNESS - 0.70mm (compressed) | SIZES - All Sizes | SHAPES - P Q T | RECOMMENDED PRESSURES - 18lbs - 22lbs (Loh 0.30/0.40 bar) | RECOMMENDED RUNNING TIME - 2-7 minutes / Recommended Polish - Digi-Pol 3Rx, Digi-Lite, Super-Lite and all other leading brands of lens polish



Dure Polishing Pad

The Dure is a high performance plastic polishing pad which has been specially developed for today's demanding production and to complement the latest advancements in aluminium oxide organic lens polishes. A truly great Dure.

MATERIAL - Stock flock Synthetic | THICKNESS - 0.75mm (compressed) | SIZES - All Sizes | SHAPES - P Q T | RECOMMENDED PRESSURES - 18lbs - 22lbs (Loh 0.30/0.40 bar) | RECOMMENDED RUNNING TIME - 2-7 minutes / Recommended Polish - Digi-Pol 3Rx, Digi-Lite, Super-Lite and all other leading brands of lens polish



Dure Black 1 Step

Now established as the "standard" against which other one step pads are compared. The surface structure of the pad is designed to give excellent stock removal characteristics while maintaining a quality lens surface without extending polishing times. Available as a standard thickness or with the special Dure compensated backing which is the thickness of a 1st and 2nd fine pad combined and has the added properties of easy and clean removal from the tool.

MATERIAL - Silicon Carbide | THICKNESS - 0.27MM, 0.47mm compensated | SIZES - All Sizes | SHAPES - P Q T | RECOMMENDED PRESSURES - 15lbs - 18lbs (Loh 0.25/0.35 bar) | RECOMMENDED RUNNING TIME - 1.5 - 2.5 minutes | SLURRY - Plain water filtered via a propriety filter system or direct to waste



Black Polycarbonate 1 Step

The black polycarbonate 1 step pad has been developed for the discerning customer who is looking for minimal stock removal while achieving the best possible finish quality on Polycarbonate and Trivex lenses. Produced to exceptionally high standards this pad benefits from Dure's unique approach to only selecting the finest grade abrasive grit and materials to produce the best finished result possible.

MATERIAL - Silicon Carbide | THICKNESS 0.46mm compensated | SIZES - 76mm, 89mm | SHAPES - P T | RECOMMENDED PRESSURES - 15lbs - 18lbs (Loh 0.25/0.35 bar) | RECOMMENDED RUNNING TIME - 2 minutes



320 Grit Roughing Pad

An aggressive Silicon Carbide material specifically designed as a superior first fine pad for Polycarbonate Lenses. It gives a consistent removal rate throughout the fining operation and leaves a regular surface for the next fining stage. This pad can also be used as a standard roughing pad for CR39 and Hi-Index lenses with excellent results.

MATERIAL - Silicon Carbide | THICKNESS - 0.30MM | SIZES - 76MM, 89mm | SHAPES - P T | RECOMMENDED PRESSURES - 15lbs - 18lbs (Loh 0.25/0.35 bar) | RECOMMENDED RUNNING TIME - 2 minutes when used as a Polycarbonate first fine | SLURRY - Plain water filtered via a propriety filter system or direct to waste



Silver Polishing Pad

The Silver Polishing pad is for the discerning customer looking for the balance between economy and quality. This polishing pad has specifically been developed for all types of machines and lens materials. The synthetic substrate backing and uniform velveteen nap give a firm pad with excellent curve reproduction capabilities.

MATERIAL - Stock flock Synthetic | **THICKNESS** - 0.70mm (compressed) | **SIZES** - All Sizes | **SHAPES** - P Q T | **RECOMMENDED PRESSURES** - 18lbs - 22lbs (Loh 0.30/0.40 bar) | **RECOMMENDED RUNNING TIME** - 2-7 minutes / Recommended Polish - Superlite/Digi-Pol 3Rx/ Ultima and all other leading brands of lens polish



Yellow Dure Polishing Pad

Yellow Dure: the original bench mark for companies looking to buy the best possible high end polishing pad on the market. This is still as true today as it was then. The cotton twill backing and the uniform nap length give a firm pad with excellent curve reproduction capabilities. It is produced to the highest standards with total control over thickness and quality. The Lustre is particularly suited for use after "one step" fining and direct to polish operations on both CR39 and Hi-Index lenses.

MATERIAL - Stock flock Synthetic | **THICKNESS** - 0.70mm (compressed) | **SIZES** - All Sizes | **SHAPES** - P Q T | **RECOMMENDED PRESSURES** - 18lbs - 22lbs (Loh 0.30/0.40 bar) | **RECOMMENDED RUNNING TIME** - 2-7 minutes / Recommended Polish - Digi-Pol 3Rx, Digi-Lite, Super-Lite and all other leading brands of lens polish



Sapphire Polishing Pad

Dure is proud to introduce the Sapphire pads to its range, giving our customers even greater choice over their consumable needs. The Sapphire pad is suitable for use on all types of lens materials and is also suited to all machinery styles. A short synthetic nap allows for the maximum delivery of polish to the lens surface ensuring superb results. It also benefits from Dure's unique backing and adhesive technology, making it suitable for use on all lap types, while absorbing any minor defects in the surface of the tool and peeling cleanly after use.

MATERIAL - Stock flock Synthetic | **THICKNESS** - 0.70mm (compressed) | **SIZES** - All Sizes | **SHAPES** - P Q T | **RECOMMENDED PRESSURES** - 18lbs - 22lbs (Loh 0.30/0.40 bar) | **RECOMMENDED RUNNING TIME** - 2-7 minutes / Recommended Polish - Digi-Pol 3Rx, Digi-Lite, Super-Lite and all other leading brands of lens polish



The Sapphire Direct Coat Polishing Pad

The Sapphire Direct Coat Polishing Pad was introduced to give our customers even greater choice to enable them to choose the best products for their specific application. The product does not require the usual plastic backing found on most types of polishing pads which gives the pad much better flexibility and makes it particularly suitable for use on laps with gripper pads applied. The Sapphire Direct Coat pad benefits from Dure's unique backing and adhesive technology which allows adhesive to be applied directly to the flock material without becoming hard and brittle. It also has a short synthetic nap which allows for the maximum delivery of polish to the lens surface. Sapphire Direct Coat Pads are suitable for use on all types of lens material and is also suited to all machinery types.



DURALUX

A non-woven polishing pad giving consistent curve conformity and developed for use in all applications. Superb adhesive properties give ease of removal at finish combined with immobility during the polishing cycle.

MATERIAL - Synthetic Fiber | **THICKNESS** - 0.56MM | **SIZES** - All Sizes | **SHAPES** - A P Q T | **RECOMMENDED PRESSURES** - 32lbs - 35lbs | **RECOMMENDED RUNNING TIME** - 4-6 minutes | **POLISHING COMPOUND** - Ceri-pol 90



Zinc Pad

Uni-Semi Leaf Lens Tool Facing Pad Grooved

- Zinc fining pad
- Grooved for better slurry distribution
- Groove wear indicates time to replace



POLISHING LIQUID & POWDER



Plastic



Multi-Shine

Multi-Shine has been designed for use on all organic lens materials available in today's diverse market. It is suitable for use in all freeform equipment and traditional polishing lines and is well suited for the customer who is looking for a high quality finish at a reasonable price. The lower level of viscosity allows for an increased flow rate. This is especially good when used on deep minus curved lenses. It also has the following characteristics: excellent suspension, easy mixing and clean up, long lasting, soft settle after resting and a superb surface finish.

Technical Data

APPEARANCE - White Slurry / AVERAGE PARTICLE SIZE - 1.3 microns / PH - 3.6 / BAUME - 20-21 / SUSPENSION TREATED - Yes / POLISH PAD COMPATIBILITY - All major brands of polishing pads but particularly suited to Cerium's White and Performance Polishing pads



Poli-Shine

BENEFITS

- MORE AFFORDABLE THAN POLISHING LIQUID
- USEABLE IN BOTH CONVENTIONAL & DIGITAL LENS PROCESS
- SUITABLE FOR ALL TYPES OF LENS INDEX
- EASY TO STOCK & TRANSPORT



Digi-Prime

The latest in particle size distribution technology and suspension treatment has helped us to develop this into the polish that others will strive to imitate. High stock removal characteristics, suitable for use on all organic lens materials, excellent suspension, easy mixing and clean up, soft settle after resting and a superb surface finish, ensure this is a polish suitable for all applications including AR coating. Digi-Prime is compatible for use with all types of surfacing equipment, from Free form to traditional. All polishes should be chilled and filtered during the lens polishing cycle to maximise performance and life.

Technical Data

APPEARANCE - White Slurry / PARTICLE SIZE - 2.5 - 3.5 Microns / PH - 3.2 - 4.2 / BAUME - 22 minimum / SUSPENSION TREATED - Yes / POLISH PAD COMPATIBILITY - All major brands of polishing pads but particularly suited to Cerium's Yellow and Silver pads

SPECIFICATIONS

- APPEARANCE: WHITE POWDER
- PRINCIPAL COMPONENT: ALUMINUM OXIDE
- PARTICLE SIZE: 1.8 MICRON
- pH: 3.5
- BAUME: 20'- 30'

DURE™

GLASS

Our well established range of Glass Polishing products represent the latest developments in cerium oxide based polishing compounds. They have been especially formulated for excellent suspension characteristics, rapid stock removal and clarity of finish. Three grades of polish are offered to enable us to offer a price point and finish quality users demand.



Crystal Cool

Represents the latest development in cerium oxide based polishing compounds. It has been especially formulated for excellent suspension characteristics, rapid stock removal and clarity of finish.

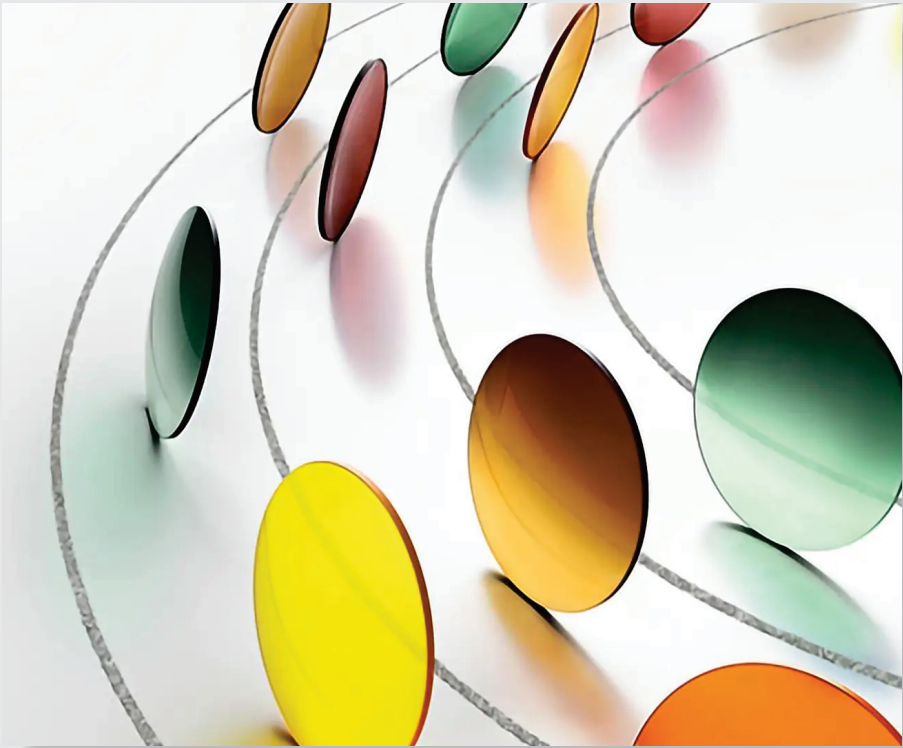
Crystal cool is a premium grade product that is used mainly in the field of precision lens polishing. It is also suitable for use in high quality ophthalmic lens polishing. It can also be used at very low concentrations resulting in significant cost savings over other products.



Crystal Shine

This product has been designed as a polish with the ophthalmic lens production market firmly in mind. It represents the latest developments in cerium oxide based polishing compounds for the glass polishing industry. It has been especially formulated for excellent suspension characteristics and rapid stock removal to achieve the desired result. Crystal shine Focus has been developed to produce the clearest optical finish quality for optical lenses and is suitable for use in all types of equipment in today's market; it is also suitable for use in high speed polishing for the flat glass and edge bevelling industry.

OptiColors



OptiColors Capsules



BLACK
CAP - 001



GRAY
CAP - 002



SWBLACK
CAP - 050



VRL BLACK
CAP - 101



SG GREEN
CAP - 017



GREEN
CAP - 007



S BROWN
CAP - 006



BROWN
CAP - 004



ROSETONE
CAP - 045



ROSE
CAP - 012



RED
CAP - 014



ORANGE
CAP - 025



SAHARA
CAP - 015



YELLOW
CAP - 010



BLUE
CAP - 011



LAVENDER
CAP - 021



PINK
CAP - 013



Colors are approximate
due to printing variations
Actual colors may vary
due to composition of lens
materials and coatings.
Opticolors Products
can custom match any
color. Ask your sales
representative for details

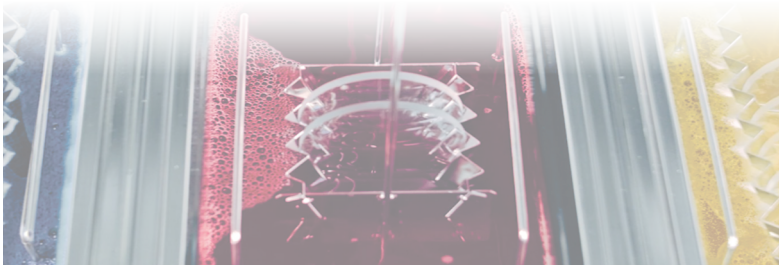


Liquid Dye



								
ULTRA BLACK DY - 200	GEN GRAY DY - 161	SWBLACK DY - 050	BLACK DY - 001	TRU-TONE DY - 029	GRAY DY - 002	S GRAY DY - 003	MOSS DY - 252	S GREEN DY - 008
								
SLATE DY - 251	BLUE GRAY DY - 103	ROYAL BLUE DY - 060	MIDNIGHT BLUE DY - 079	BLUE DY - 011	SKY BLUE DY - 030	AQUA DY - 079	SG GREEN DY - 017	GREEN DY - 007
								
ROSE DY - 012	ROSETONE DY - 045	LAVENDER DY - 021	LILAC DY - 049	ORCHID DY - 040	VIOLET DY - 009	PINK DY - 013	BLUSH DY - 033	CRUX LITE DY - 028
								
TRU-RED DY - 078	RED DY - 014	BROWN DY - 004	SAHARA DY - 015	TANGERINE DY - 035	PUMPKIN DY - 083	ORANGE DY - 025	PEACH DY - 023	YELLOW DY - 010
								
S BROWN DY - 006	COCOA DY - 005	AUTUMN DY - 018	LC CRUX CAP - 007					

Colors are approximate due to printing variations. Actual colors may vary due to composition of lens materials and coatings. Opticolors Products can custom match any color. Ask your sales representative for details.



DURE™

OptiColors

ECO-LINE



One water-soluble dye pack
makes one quart (946 ml)
of dye solution

- Better Colour consistency
- Faster tint absorption into lens material
- No mess. No Shaking, spilling and rinsing of bottles
- No loss of product from spillage as entire pouch goes unopened into hot water
- Extended shelf life. Packets last over 3 years on the shelf
- Less storage space needed



Du1001
Black Grey



Du1002
Grey



Du1003
Burgundy



Du1004
Sun Brown



Du1005
Reddish Brown



Du1006
Chocolate Brown



Du1015
Green (G15)



Du1016
Pink



Du1017
Purple



Du1019
Reddish Orange



Du1021
Sky Blue



Du1023
Cobalt Blue



Du1024
Night Vision Yellow

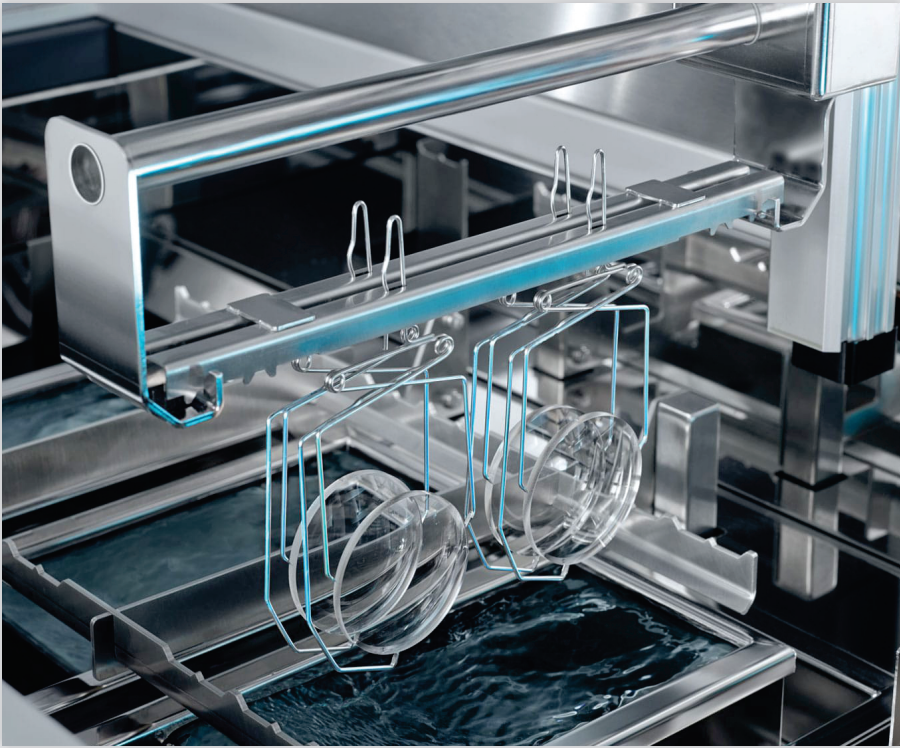


Du1027
Emerald Blue



Du1028
Turquoise

Lens Chemicals



Lens Chemicals



NEUTRALIZER

Safe on all lenses. Does not leave an oily residue. Also available in a Kit which includes easy to use 4oz. dispenser bottle & 8oz. Bottle of Ink Remover.

POLY KLEAR NEUTRALIZER

Safe and gentle neutralizer formulated specifically for polycarbonate & acrylic lenses. It can also be used on CR39. Available in Gallons only



HC CLEAR PLUS

Offers safe removal on all types of lenses. It is great for drilled rimless as it causes no crazing around drilled holes. 8oz. & Gallon. Concentrate

ULTRA CLEAR

Fast acting high powered Neutralizer that will bleach lenses clear without yellowing. Can be used on all lenses. Available in Quarts and Gallons



SUPER SCRATCH - GARD

Anti-Static - Anti Fog. Scratch Resistant Lens Treatment for CR-39 Lenses. 1 Quart will treat approximately 175 pairs of lenses

HEAT TRANSFER FLUID

Dure Heat Transfer Fluid is the best solution for even heat distribution in your tint units. It protects your tinting unit from corrosion while keeping each dye at even temperatures from pot to pot. It's non-toxic, environmentally friendly, biodegradable and virtually odorless. Available in Gallon & Quart bottles



SPEC-PREP

Spec Prep is a pre-tint solution that removes oils from the surface of the lens and prepares the lens for tinting. It's easy to use, just dip the lens in and shake off the excess and proceed to Tint or UV protection. Spec-Prep helps you obtain more consistent, blotch free color than with water rinsing alone. It's safe for all lenses and will not harm the tints or UV solutions. Available in Quart or Gallon.



UV CLEAR AS GLASS

A 5-minute UV that gives the lens the appearance of a piece of glass. 8oz. Concentrate



60 SECOND UV

Dure best UV in 60 seconds. Great for 1 Hour locations or busy Labs. Treat approximately 200 pairs of lenses. 8oz. Concentrate.



ARC CONSUMABLES



Super Hydrophobic



Material name : OR-112

Size : 18% mm X 7t mm / 176 mm X 7t mm (crucible)
Size : 12% mm X 4t mm (pill)*

Experimental condition

- Coating Machine . Univac 1350
- Evaporation source : Molybdenum [Boat & Ring] & Substrate : CR-39 with (SiO₂ is coated on CR-39 substrate
- Distance from source to substrate (mm) : 880mm
- Substrate temperature (°C) : NO heating..Base pressure (Torr) : 8x10⁻⁶ Torr
- Evaporation Source : Resistance heating

Super Hydrophobic Wet Solution

[Excellent adhesive property with good slip]

Physical properties

Product name - OR-112 Series
Features - Anti-Fingerprint
Solvent - Hydrofluoroether
Shape - Liquid

Experimental condition

Coating source - Spray system (AFP-KAT750)
Plasma condition - N₂
Spraying rate (mm/s) - 900
Spraying height (mm) - 100
Spraying pressure (kg/cm²) - 2
Curing Temp (°c) - 150
Curing Time (min) - 20
Substrate - Gorilla Glass
Anti-Abrasion - 2,000 times with 1,000g Steel wool(#0000 Bonstar)
Anti-Chemical - 250 times with 500g rubber and ethanol
Brine Test - 72 hrs with 5% salt water spray

Storage & Handling

1. Keep container tightly sealed
2. Store in cool, dry place in tightly closed containers
3. Ensure good ventilation at the work place to prevent formation of dust
4. 12 months after manufacturing

H-Index Coating Material



Material name : ZrO₂/S

Physical properties

Product name - ZrO₂/S
Color/Shape/Size - White/Pellet,Granule
Density - 5.5
Melting point (°C) - 2,700

Experimental condition

Evaporation temperature (°C) - 2700-2850
Evaporation source - E.B.Gun
Coater - UNIVAC ø1,350
Distance from source to substrate (mm) - 1,100
Evaporation rate (Å/s) - 10
Base pressure (Torr) - 5x10
Evaporation pressure (Torr) - 2x10
Substrate - S-BSL7

Material name : CZrO₂

Physical properties

Product name - ZrO₂
Color/Shape/Size - White/Pellet, Granule
Density - 5.5
Melting point (c) - 2,700

Experimental condition

Evaporation temperature (°C) - 2,700-2,850
Evaporation source - E.B.Gun
Coater - UNIVAC ø1,350
Distance from source to substrate (mm) - 1100
Evaporation rate (Å/s) - 10
Base pressure (Torr) - 5x10
Evaporation pressure (Torr) - 2x10
Substrate - S-BSL7



Material name : SiO₂

Physical properties

Product name - SiO₂
Color/Shape/Size - White Clear / Pellet, Granule
Density - 2.2
Melting point (°C) - 1,700

Experimental condition

Evaporation temperature (C) - 1,600-1,700
Evaporation source - E.B.Gun
Coater - UNIVAC ø1350
Distance from source to substrate (mm) - 1,100
Evaporation rate (Å/s) - 20
Base pressure (Tor) - 5x10
Evaporation pressure (Torr) - 2x10
Substrate - S-LAM66

L-Index Coating Material



Standard Hydrophobic

Material name : WR-110



Production Information

WR-110, water repellent top coating material, protects the AR layer deposited on the organic substrates used in optical devices by its super hydrophobic and lubricative property. The thin film coated with WR-110 have anti-soiling and water repellent property, and are easy to clean stains if any. Also, it has excellent abrasion resistance due to its lubricative property.

Properties

- Water repellent property : Slide angle 6.00 / Contact angle 110
- Abrasion resistance test: CS 10F
- Test condition - load : 5g (#0000 Steel Wool)
- cycle : 10,000

Destruction of AR coated film is absorbed by UV spectroscopy after the abrasion resistance test, The reflectance of film becomes higher with the increasing destruction of AR layer caused by abrasion to the coatings.

Dimension

R type : dia. 8 x 5 mm
S type : dia. 10 x 6 mm

Application

WR-110 S designed to repel any waterdrop on the surface of organic lens and keep the surface clean, and help easy to clean if any contaminations.

Storage

- Keep away from direct sunlight and high humidity
- Storage temperature should not exceed 50°C
- WR-110 can be stored up to one year at the room temperature.

Precaution

WR-110 may be broken by a strong mechanic shock.

H-Index Coating Material

Material name : Ti30s

Physical properties

Product name - Ti30s
Color/Shape/Size - Gold&Black / Granule
Density - 4.0
Melting point (c) - 1,800

Experimental condition

Evaporation temperature [°C] - 2,400-2,450
Evaporation source - E.B.Gun
Coater - UNIVAC Ø1,350
Distance from source to substrate (mm) - 1,100
Evaporation rate (Å/s) - 10
Base pressure [Torr] - 5x10⁻⁶
Evaporation pressure [Torr] - 2x10⁻⁶
Substrate - S-BSL7



Material name : TiO₂

Physical properties

Chemical formula - TiO₂
Synonym - Titanium(IV) Oxide
CAS No. -13463-67-7
Appearance: Tablet - dia. 9X5t
Amorphous granule - 1-3mm



Experimental condition

Evaporation temperature (°C) - 1,800-2,000
Source - E.B.
Deposition rate - 10nm/sec. in the best condition

Test condition for evaporation

Coater - Chamber dia, 850
Evaporation source - E.B.gun
Distance from source to substrate (mm) - 710
Substrate temperature (°C) - 300
Evaporation pressure (Torr) - 2x10
Substrate - S-BSL7

Physical properties of bulk material (at 25°C)

Crystal type - Rutile (Tetragonal)
Molecular weight - 79.89
Density - 4.0
Melting point (°C) - 1,800
Coefficient of linear expansion (x10) - 8.22
Transmittance range (u0) - 0.43-6.2
Purity: Titanium dioxide (TiO₂) - 99.99% min.
Purity: Chromium (Cr) - 0.001% max.
Purity: Cobalt (Co) - 0.0005% max.
Purity: Copper (Cu) - 0.001% max.
Purity: Iron (Fe) - 0.005% max.
Purity: Vanadium (V) - 0.0005% max.

Material name : EU-3

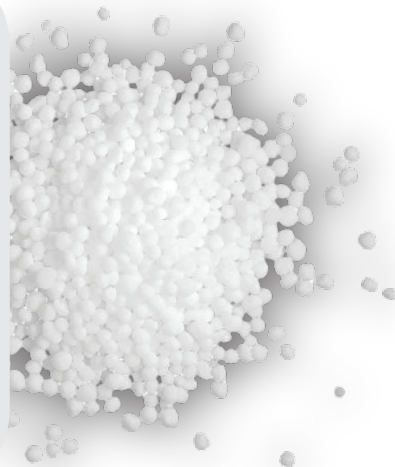
(Alternate material for SiO₂)

Physical properties

Product name - EU-3
Color/Shape/Size - White / Granule / 1-3mm
Density - 2.648
Melting point (°C) - 1,700

Experimental condition

Evaporation temperature (°C) - 1,700-1,800
Evaporation source - E.B.
Coater - UNIVAC ø1,350
Distance from source to substrate (mm) - 1100
Evaporation rate (Å/s) - 8
Base pressure (Torr) - 3x10
Evaporation pressure (Torr) - 5x10
Substrate - BK7



New Material

Indium Tin Oxide

Material name : TiO₂



Production Information

Synonym - I.T.O.
Chemical formula - $In_2O_3 + SnO_2$
Purity - 99.99%
Tap density - 1.20 - 1.90 g/cc
Specific gravity - 7.2 mg/cc
CAS No. of Indium oxide - 1312-43-9
CAS No. of Tin oxide - 18282-10-5
Shape (Size) - Tablet (dia, 7X6t & 11X8t)

Physical properties of bulk material (at 25°C)

Indium oxide - 90% approx.
Tin oxide - 10% approx.
Fe (ppm) - 10>
Ca (ppm) - 10>
Al (ppm) - 10>

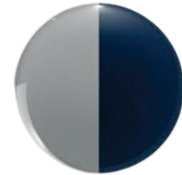
Experimental condition

Melting point -
Source - 220E.B.

Test condition for evaporation

Coater - Chamber dia, 850
Evaporation source - E.B.gun
Distance from source to substrate (mm) - 710
Substrate temperature (°C) - 70
Evaporator pressure (Torr) - 2x10

Anti Fog



Material name : EC-AF

Introduction

Application - Anti-Fog
How to use - Dip coat
Type - Liquid

Experimental condition

Coating source - Dip coat
Equipment - Kwang-Hak Mechanical Hard coater
Chamber temperature (°C) - 12
Humidity (%RH) - <30
Rate of climb (sec) - 40
Substrate - PMMA

Quartz Crystals



DURE Alloy

DURE Alloy are widely used for high-stress material depositions including silicon monoxide, silicon dioxide, magnesium fluoride, titanium dioxide and aluminium oxide.



DURE Gold

DURE Gold, with low contact resistance, very high chemical stability and easy to deposit, are widely used for low-stress metal depositions such as gold, silver and copper.












DURE Silver

DURE Silver, with a low contact resistance, are widely used for high-stress metal depositions such as nickel, chromium, molybdenum, zirconium, nichrome, and titanium.

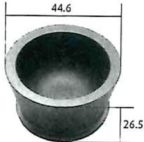
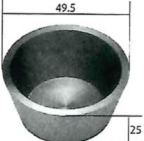
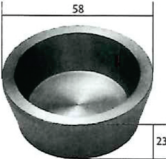


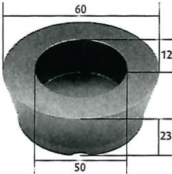
EVAPORATION SOURCES

EVAPORATION BOAT



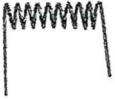
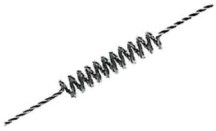


(SPECIAL BOAT)

Products No.	Form	Length	Boat	Material	Sheet Thickness
SB-1		100	40	W	0.1~0.3
				Mo	
				Ta	
SB-2		100	50	W	0.1~0.3
				Mo	
				Ta	
SB-3		100	40	W	0.1~0.3
				Mo	
				Ta	
SB-4		100	50	W	0.1~0.3
				Mo	
				Ta	
SB-5		100	22	W	0.1~0.3
				Mo	
				Ta	
SB-6		100	50	W	0.1~0.3
				Mo	
				Ta	
SB-7		100	50	W	0.1~0.3
				Mo	
				Ta	
SB-8		100	40	W	0.1~0.3
				Mo	
				Ta	
SB-9		100	50	W	0.1~0.3
				Mo	
				Ta	

LINER CRUCIBLES

Products no.	Form	Crucible volume	Material
L-01		13cc	W, Mo, Ta, Au
L-02		23cc	W, Mo, Ta, Au
L-03		24cc	W, Mo, Ta, Au
L-04		8cc	W, Mo, Ta, Au
L-05		6cc	W, Mo, Ta, Au
L-06		23cc	W, Mo, Ta, Au

FILAMENTS

Products no.	Form	Dimensions	Type	Pcs/Pack
F-01		Ø0.8x110m m	Ion gun	10
F-02		Ø0.8x110m m	EB gun	20
F-03		Ø0.8x110m m	Temescal	10
F-04		Ø0.8x110m m	Spiral	100
F-05		Ø0.8x110m m	Basket	100
F-06		Ø0.8x110m m	Basket	100

Gun Type Ionizer

**HIGH
QUALITY**



**Lightweight
200 g**



Lighting LED

Reduced Operating Force

Easy To Hold Grip

Blow setting function p. 1
Select from continuous blow or pulse blow.

Trigger setting function p. 1
Trigger linked/Trigger lock/OFF timer can be selected

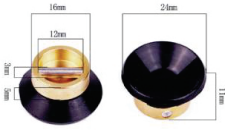
Flow rate adjustment function p. 2
Flow adjustment valve with indicator enables handheld
flow adjustment.

**Rapid Static
Neutralisation**

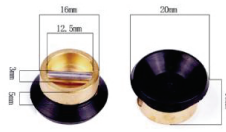
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IZG10 Series

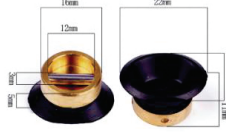
LENS BLOCKS



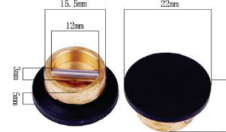
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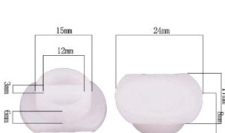
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LF-8203



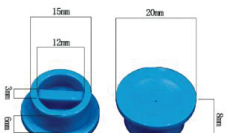
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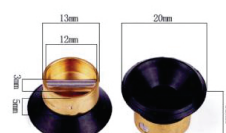
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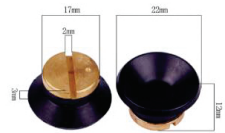
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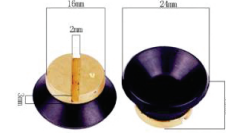
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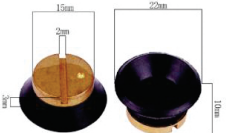
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LF-8209



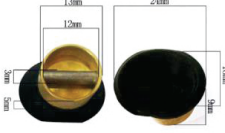
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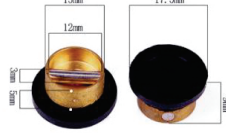
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LF-8212



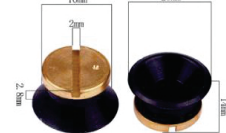
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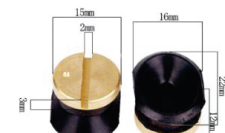
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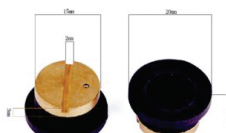
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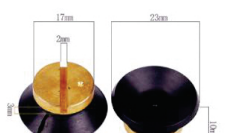
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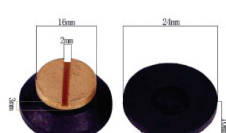
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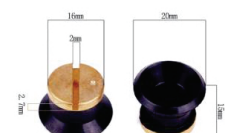
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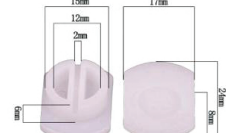
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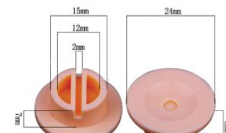
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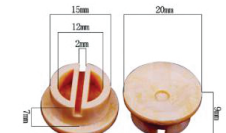
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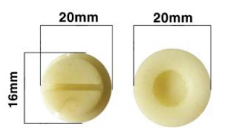
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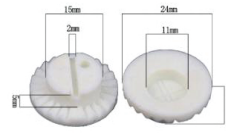
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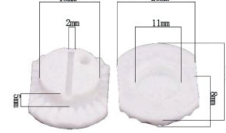
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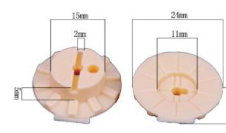
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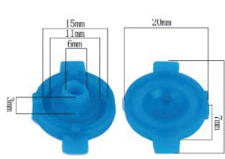


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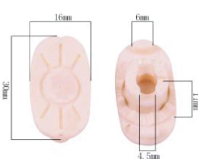


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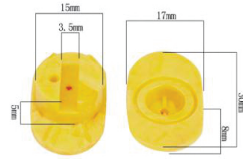




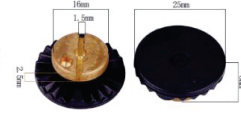
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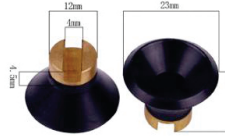
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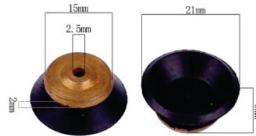
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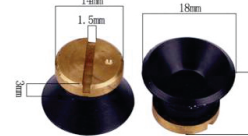
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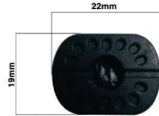
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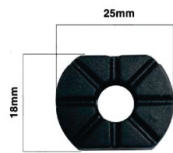
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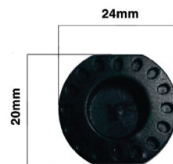
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LF-8264



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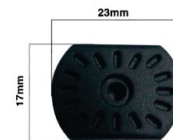
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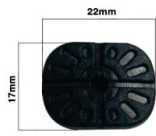
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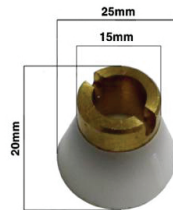
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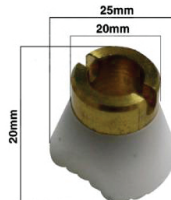
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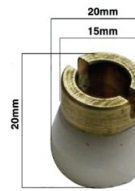
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LF-8270



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LF-8270-2



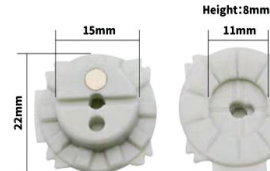
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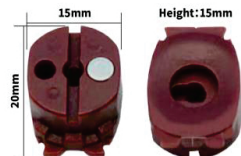
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OA093



OA094A

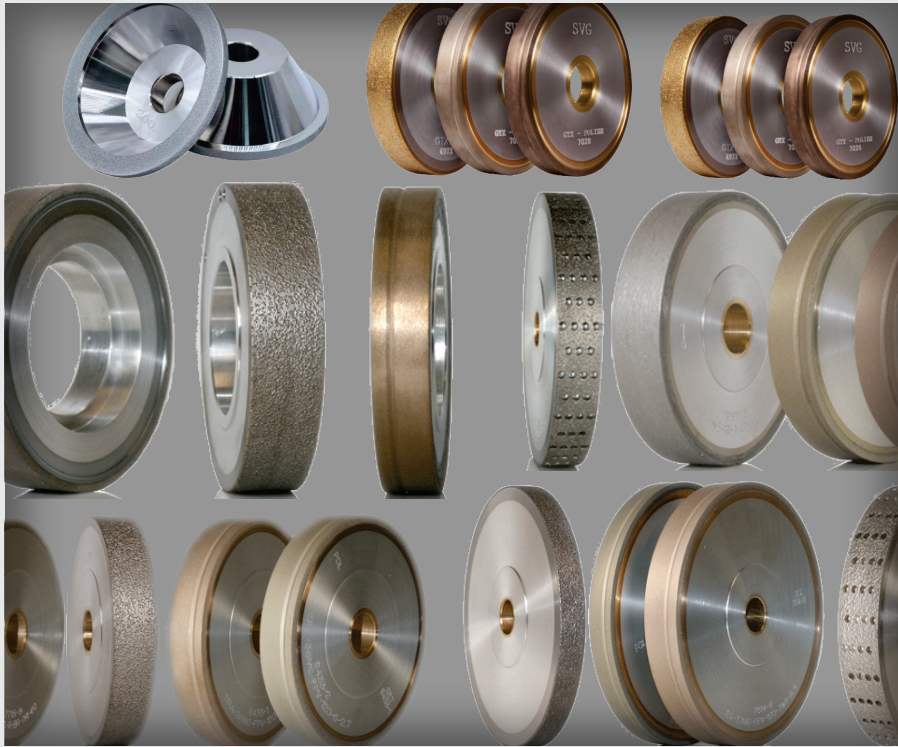


OA093A



OA094A

GRINDING WHEELS



BRIOT EDGING WHEELS



We produce full wheel sets for Briot Accura for a variety of machine models, including: Accura, Alta, Emotion

Item Number	Item Description	D x W x d (mm)
BRA-16-R-GP	Briot Accura Roughing Wheel for Glass, 16mm	110 x 16 x 19
BRA-16-R-BR-60	Briot Accura Roughing Wheel for Poly/Plastic, 16mm	110 x 16 x 19
BRA-20-R-BR-60	Briot Accura Roughing Wheel for Poly/Plastic, 20mm	110 x 20 x 19
BRA-20-R-BR-TRI-60	Briot Accura Roughing Wheel for TRIVEX, 20mm	110 x 20 x 19

FINISHING AND POLISHING WHEELS FOR BRIOT ACCURA

Item Number	Item Description	D x W x d x V x C x O (mm)
BRA-18-FV-B-120-5-2.7	Briot Accura Finishing Wheel, All Materials, Flat w/V, 18mm	110 x 18 x 19 x 120 x 5 x 2.7
BRA-18-PV-POL-120-5-2.7	Briot Accura Polishing Wheel, All Materials, Flat w/V, 18mm	110 x 18 x 19 x 120 x 5 x 2.7
BRA-36MS-FPV-120-5-2.7	Briot Accura Finishing/Polishing Matched Set, 36mm	110 x 18 x 19 x 120 x 5 x 2.7

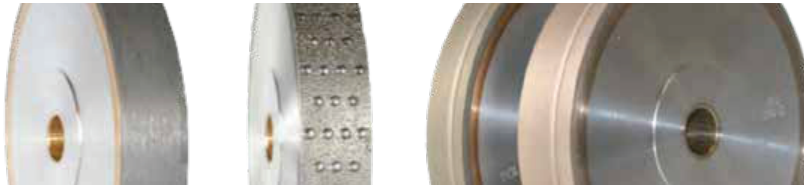
ROUGHING WHEELS FOR BRIOT ALTA, ALTA PRO, EMOTION

Item Number	Item Description	D x W x d (mm)
BRALTA-16-R-GP	Briot Alta Roughing Wheel for Glass, 16mm	90 x 16 x 19
BRALTA-18-R-BR-60	Briot Alta Roughing Wheel for Poly/Plastic, 18mm	90 x 18 x 19
BRALTA-18-R-BR-TRI-60	Briot Alta Roughing Wheel for TRIVEX, 18mm	90 x 18 x 19
BRALTA-20-R-BR-60	Briot Alta Pro Roughing Wheel for Poly/Plastic, 20mm	90 x 18 x 19
BRALTA-20-R-BR-TRI-60	Briot Alta Pro Roughing Wheel for TRIVEX, 20mm	90 x 20 x 19
BR-EM-18-R-BR-60	Briot Emotion Roughing Wheel for Poly/Plastic, 18mm	90 x 18 x 19
BR-EM-18-R-BR-TRI-60	Briot Emotion Roughing Wheel for TRIVEX, 18mm	90 x 18 x 19

FINISHING AND POLISHING WHEELS BRIOT ALTA, ALTA PRO, EMOTION

Item Number	Item Description	D x W x d x V x C x O (mm)
BRALTA-18-FV-B-120-5-2.7	Briot Alta Finishing Wheel, All Materials, Flat w/V, 18mm	90 x 18 x 19 x 120 x 5 x 2.7
BRALTA-18-PV-POL-120-5-2.7	Briot Alta Polishing Wheel, All Materials, Flat w/V, 18mm	90 x 18 x 19 x 120 x 5 x 2.7

ESSILOR / COBURN EDGING WHEELS



We produce full wheel sets for Essilor for a variety of machine models, including: Triumph, Gamma, Kappa, etc.

ROUGHING WHEELS FOR ESSILOR

Item Number	Item Description	D x W x d (mm)
ES-15-R-GP	Essilor Roughing Wheel for Glass, 15mm	155 x 15 x 20
ES-15-R-BR-60	Essilor Roughing Wheel for Poly/Plastic, 15mm	155 x 15 x 20
ES-15-R-BR-TRI-60	Essilor Roughing Wheel for TRIVEX, 15mm	155 x 15 x 20
ES-22-R-GP	Essilor Roughing Wheel for Glass, 22mm	155 x 22 x 20
ES-22-R-BR-60	Essilor Roughing Wheel for Poly/Plastic, 22mm	155 x 22.4 x 20
ES-22-R-BR-TRI-60	Essilor Roughing Wheel for TRIVEX, 22mm	155 x 22 x 20

FINISHING AND POLISHING WHEELS FOR ESSILOR

Item Number	Item Description	D x W x d x V x C x O (mm)
ES-15-PV-POL-120-5-2.4	Essilor Polishing Wheel, Flat w/V, 15mm	155 x 15 x 20 x 120 x 5 x 2.4
ES-22-FV-S-120-7-2.4	Essilor Finishing Wheel for Glass, Flat w/V, 22mm	155 x 22 x 20 x 120 x 7 x 2.4
ES-22-FV-B-120-7-2.4	Essilor Finishing Wheel for All Materials, Flat w/V, 22mm	155 x 22 x 20 x 120 x 7 x 2.4
ES-22-PV-POL-120-7-2.4	Essilor Polishing Wheel, Flat w/V, 22mm	155 x 22 x 20 x 120 x 7 x 2.4
ES-37MS-FPV-120-7.85-2.4	Essilor Finisher/Polisher Matched Set, Flat w/V, 37mm	155 x 15 x 20 x 120 x 7 x 2.4/ 155 x 22 x 20 x 120 x 5 x 2.4
ES-44MS-FPV-120-7-2.4	Essilor Finisher/Polisher Matched Set, Flat w/V, 44mm	155 x 22 x 20 x 120 x 7 x 2.4

GROOVING BLADES



Item Number	Item Description	D x W x d x a° (mm)
G-EP-1-5-400	Grooving Blade for All Materials w/ Slots, Electroplated, 25mm	25.4 x 0.5 x 5 x 19°
G-EP-1-5-400-NS	Grooving Blade for All Materials, No Slots, Electroplated, 25mm	25.4 x 0.5 x 5 x 19°
G-EP-20-5-400	Grooving Blade for All Materials w/Slots, Electroplated, 20mm	20 x 1.1 x 5 x 19°

HUVITZ EDGING WHEELS



We produce full wheel sets for Huvitz for a variety of machine models, including: Excelon

ROUGHING WHEELS

Item Number	Item Description	D x W x d (mm)
HU-17-R-GP	Huvitz Roughing Wheel for Glass, 17mm	100 x 17.5 x 20
HU-17-R-BR-60	Huvitz Roughing Wheel for Poly/Plastic, 17mm	100 x 17.5 x 20
HU-17-R-BR-TRI-60	Huvitz Roughing Wheel for TRIVEX, 17mm	100 x 17.5 x 20
HU-XD-18-R-BR-60	Huvitz XD Roughing Wheel for Poly/Plastic, 18mm	150 x 18 x 20
HU-XD-18-R-BR-TRI-60	Huvitz XD Roughing Wheel for TRIVEX, 18mm	150 x 18 x 20

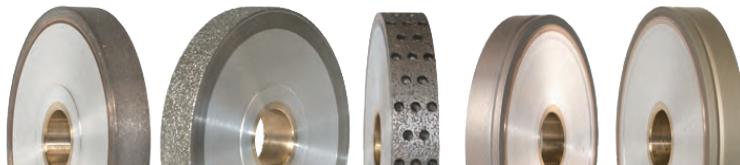
FINISHING AND POLISHING WHEELS

Item Number	Item Description	D x W x d x V x C x O (mm)
HU-17.5-F4-B-120-5-2.5	Huvitz Finishing Wheel, All Materials, 4 Angle, 17.5mm	100 x 17.5 x 20 x 120 x 5 x 2.5
HU-17.5-FV-B-120-5-2.5	Huvitz Finishing Wheel, All Materials, Flat w/V, 17.5mm	100 x 17.5 x 20 x 120 x 5 x 2.5
HU-17.5-P4-POL-120-5-2.5	Huvitz Polishing Wheel, 4 Angle, 17.5mm	100 x 17.5 x 20 x 120 x 5 x 2.5
HU-17.5-PV-POL-120-5-2.5	Huvitz Polishing Wheel, Flat w/V, 17.5mm	100 x 17.5 x 20 x 120 x 5 x 2.5

SAFETY BEVEL WHEELS

Item Number	Item Description	D x W x d x a° (mm)
HU-6.8-SB-600	Safety Beveling Wheel, 26.1mm	26.1 x 6.8 x 8 x 47°

AIT-INDO EDGING WHEELS



We produce full wheel sets for Indo for a variety of machine models, including: Maxima and Practica

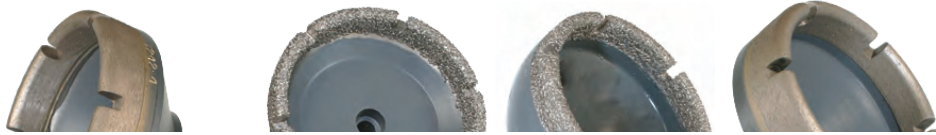
ROUGHING WHEELS FOR INDO MAXIMA, PRACTICA

Item Number	Item Description	D x W x d (mm)
IN-16-R-GP	Indo Roughing Wheel for Glass, 16mm	110 x 15.6 x 25
IN-19-R-GP	Indo Roughing Wheel for Glass, 19mm	110 x 18.6 x 25
IN-19-R-BR-60	Indo Roughing Wheel for Poly/Plastic, 19mm	110 x 18.6 x 25
IN-19-R-BR-TRI-60	Indo Roughing Wheel for TRIVEX, 19mm	110 x 18.6 x 25

FINISHING AND POLISHING WHEELS FOR INDO MAXIMA, PRACTICA

Item Number	Item Description	D x W x d x V x C x O (mm)
IN-16-FV-S-120-4.7-2.8	Indo Finishing Wheel for Glass, Flat w/V, 16mm	110 x 15.6 x 25 x 120 x 4.7 x 2.8
IN-16-FV-B-120-4.7-2.8	Indo Finishing Wheel for All Materials, Flat w/V, 16mm	110 x 15.6 x 25 x 120 x 4.7 x 2.8
IN-16-PV-POL-120-4.7-2.8	Indo Polishing Wheel, Flat w/V, 16mm	110 x 15.6 x 25 x 120 x 4.7 x 2.8
IN-32MS-FPV-120-4.7-2.8	Indo Finishing/Polishing Matched Set, Flat w/V, 32mm	110 x 15.6 x 25 x 120 x 4.7 x 2.8

SURFACING / GENERATOR WHEELS



We produce generator wheels for Coburn and Satisloh generators

GENERATOR WHEELS

Item Number	Item Description	D x d x R x H p _{pk} (a0) x L x T
COB-3.5-GL	Coburn Gen Wheel For Glass, Tapered	88.9 x 82.5 x 3.175 x 9 x 21.6x7.24 x 88.9
COB-3.5-GL-QC	Coburn Gen Wheel for Glass, Quick Change	88.9 x 82.5 x 3.175 x 9 x 19.05 x 104.7 x 3/8"-16
COB-3.5-BR-30	Coburn Gen Wheel for Poly/Plastic, Tapered	88.9 x 82.5 x 3.175 x 12.7 x 25.3x7.24 x 90.3
COB-3.5-BR-30-QC	Coburn GW for Poly/Plastic Quick Change	88.9 x 82.5 x 3.175 x 12.7 x 19.05 x 104.7 x 3/8"-16
LOH-2.75-GL-80/100	LOH 2.75" Generator Disc for Glass, V-Series	(D)70 x (d)5 x (R)26 x (H)10

FINING PADS

FP-B-76	Diamond Fining Pad for Glass, 76mm	76mm
FP-B-80	Diamond Fining Pad for Glass, 80mm	80mm

HAND EDGER WHEELS



We produce hand edger wheels in a variety of bonds and sizes

BRASS BOND WHEELS FOR GLASS

Item Number	Item Description	D x W x d x V x C x O (mm)
6-1.5-1-FV-B-120-6.35-3.43-400	6 Inch Diameter, Flat w/V, 400 Grit	152.4 x 38.1 x 25.4 x 120 x 6.3 x 3.4
6-1.5-1-FV-B-120-6.35-3.43-600	6 Inch Diameter, Flat w/V, 600 Grit	152.4 x 38.1 x 25.4 x 120 x 6.35 x 3.4
6-1.5-1-FV-B-120-6.35-3.43-800	6 Inch Diameter, Flat w/V, 800 Grit	152.4 x 38 x 25.4 x 120 x 6.3 x 3.4

RESIN BOND WHEELS FOR POLY & PLASTIC

Item Number	Item Description	D x W x d x V x C x O (mm)
6-1.5-1-FV-RB-120-6.3-3.4-180/400	6 Inch Diameter, Flat w/V, Dual Grit 180/400	152.4 x 38.1 x 25.4 x 120 x 6.3 x 3.4
6-1.5-1-FV-RB-120-6.3-3.4-400	6 Inch Diameter, Flat w/V, 400 Grit	152.4 x 38.1 x 25.4 x 120 x 6.3 x 3.4
6-1.5-1-FV-RB-120-6.3-3.4-600	6 Inch Diameter, Flat w/V, 600 Grit	152.4 x 38.1 x 25.4 x 120 x 6.3 x 3.4

NIDEX



We produce full wheel sets for Nidek for a variety of machine models

ROUGHING WHEELS FOR NIDEX

Item Number	Item Description	D x W x d (mm)
NID-17-R-GP	Nidek Roughing Wheel for LE-1000/9000 (2R), Glass, 17mm	100 x 17 x 20
NID-17-R-BR-60	Nidek Roughing Wheel for LE-1000/9000 (2R), Poly/Plastic, 17mm	100 x 17 x 20
NID-17-R-BR-TRI-60	Nidek Roughing Wheel for LE-1000/9000 (2R), TRIVEX, 17mm	100 x 17 x 20
NID-17-R-BR-60-LEX	Nidek Roughing Wheel for LEX-1000, Poly/Plastic, 17mm	100 x 17 x 20
NID-17-R-BR-TRI-60-LEX	Nidek Roughing Wheel for LEX-1000, TRIVEX, 17mm	100 x 17 x 20
NID-21-R-BR-60	Nidek Roughing Wheel for ME-1200, Poly/Plastic, 21mm	100 x 21 x 20
NID-21-R-BR-TRI-60	Nidek Roughing Wheel for ME-1200, TRIVEX, 21mm	100 x 21 x 20
NID-23-R-BR-60	Nidek Roughing Wheel for LE/ME-9000/1000, Poly/Plastic, 22mm	100 x 22 x 20
NID-23-R-BR-TRI-60	Nidek Roughing Wheel for LE/ME-9000/1000, TRIVEX, 22mm	100 x 22 x 20
NID90-22-R-BR-60	Nidek Roughing Wheel for SE-9090, Poly/Plastic, 22mm	60 x 22 x 14
NID90-22-R-BR-TRI-60	Nidek Roughing Wheel for SE-9090, TRIVEX, 22mm	60 x 22 x 14

FINISHING AND POLISHING WHEELS FOR NIDEX

Item Number	Item Description	D x W x d x V x C x O (mm)
NID-17.5-F4-B-120-5-2.4	Nidek Finishing Wheel for LE/ME-9000/1000, 17.5mm	100 x 17.5 x 20 x 120 x 5 x 2.4
NID-17.5-P4-POL-120-5-2.4	Nidek Polishing Wheel for LE/ME-9000/1000, 17.5mm	100 x 17.5 x 20 x 120 x 5 x 2.4
NID-17.5-F4-B-115-5-2.4	Nidek Finishing Wheel for LEX-1000, 17.5mm	100 x 17.5 x 20 x 115 x 5 x 2.4
NID-17.5-P4-POL-115-5-2.4	Nidek Polishing Wheel for LEX-1000, 17.5mm	100 x 17.5 x 20 x 115 x 5 x 2.4
NID-16-F4-B-110-5-2.5	Nidek Finishing Wheel for ME-1200, 16mm	100 x 16 x 20 x 110 x 5 x 2.5
NID-15-P4-POL-110-5-2.5	Nidek Polishing Wheel for ME-1200, 15mm	100 x 15 x 20 x 110 x 5 x 2.5
NID-23-F4-S-120-5-2.4	Nidek Finishing Wheel for Glass, 4 Angle, 23mm	100 x 23 x 20 x 120 x 5 x 2.4
NID-23-F4-B-120-5-2.4	Nidek Finishing Wheel for Poly/Plastic, 23mm	100 x 23 x 20 x 120 x 5 x 2.4
NID-35MS-FP4-120-5-2.4	Nidek Finishing/Polishing Matched Set for LE/ME-9000/1000	100 x 17.5 x 20 x 120 x 5 x 2.4 100 x 17.5 x 20 x 120 x 5 x 2.4
NID90-18-F4-B-110-5-2.2	Nidek Finishing Wheel for SE-9090, 18mm	60 x 18 x 14 x 110 x 5 x 2.2
NID90-18-F4-B-110-5-2.2	Nidek Polishing Wheel for SE-9090, 18mm	60 x 18 x 14 x 110 x 5 x 2.2

WECO



We produce full wheel sets for WECO for a variety of machine models

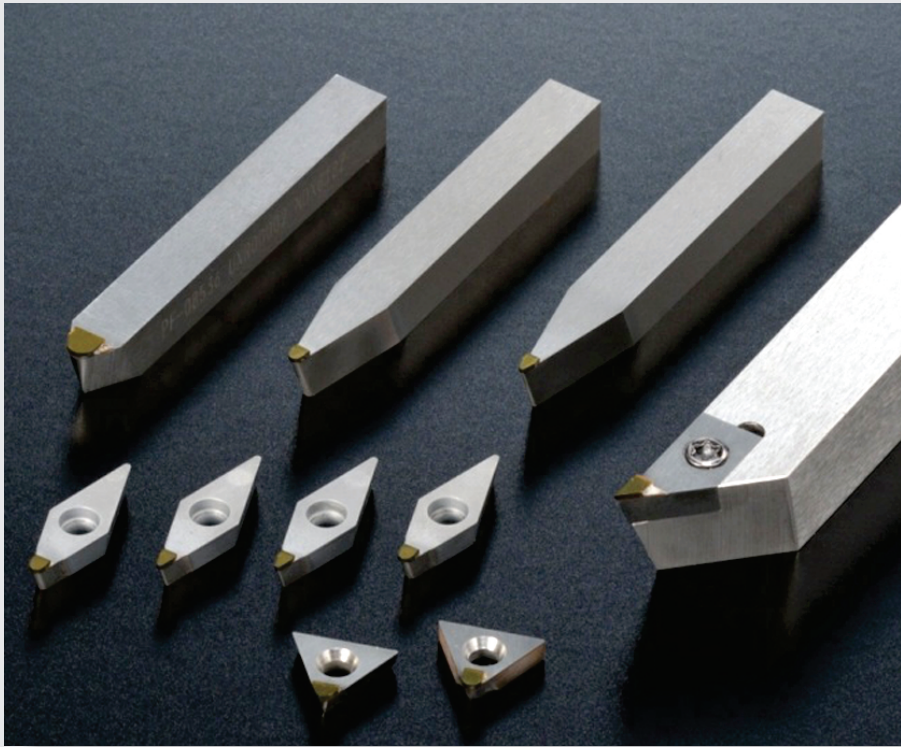
ROUGHING WHEELS FOR WECO

Item Number	Item Description	D x W x d (mm)
WE-15-R-GP	Weco Roughing Wheel for Glass, 15mm	110 x 15 x 20
WE-15-R-BR-60	Weco Roughing Wheel for Poly/Plastic, 15mm	110 x 15 x 20
WE-15-R-BR-TRI-60	Weco Roughing Wheel for TRIVEX, 15mm	110 x 15 x 20
WE-18-R-GP-U	Weco Roughing Wheel for Glass, Undercut, 18mm	110 x 18 x 20
WE-18-R-BR-U-60	Weco Roughing Wheel, Poly/Plastic, Undercut, 18mm	110 x 18 x 20
WE-18-R-BR-TRI-60	Weco Roughing Wheel for TRIVEX, No Undercut, 18mm	110 x 18 x 20
WE-20-R-GP-U	Weco Roughing Wheel for Glass, Undercut, 20mm	110 x 20 x 20
WE-20-R-BR-60	Weco Roughing Wheel, Poly/Plastic, No Undercut, 20mm	110 x 20 x 20
WE-20-R-BR-TRI-60	Weco Roughing Wheel for TRIVEX, No undercut, 20mm	110 x 20 x 20

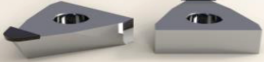
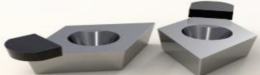
FINISHING AND POLISHING WHEELS FOR WECO

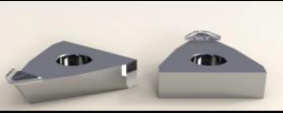



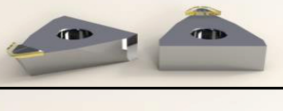
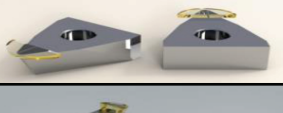
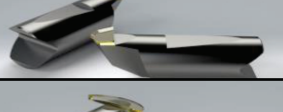

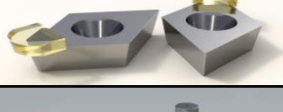


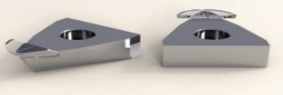
Item Number	Item Description	D x W x d x V x C x O (mm)
WE-10-PF-POL	Weco Polishing Wheel, Flat, No Bevel, 10mm	(D)110 x (W)10 x (d)20
WE-15-F4-S-120-6-2.4	Weco Finishing Wheel for Glass, 4 Angle, 15mm	110 x 15 x 20 x 120 x 6 x 2.4
WE-15-F4-B-120-6-2.4	Weco Finishing Wheel, All Materials, 4 Angle, 15mm	110 x 15 x 20 x 120 x 6 x 2.4
WE-15-PF-POL-120	Weco Polishing Wheel, Flat, No Bevel, 15mm	(D)110 x (W)15 x (d)20
WE-15-P4-POL-120-6-2.4	Weco Polishing Wheel, 4 Angle, 15mm	110 x 15 x 20 x 120 x 6 x 2.4
WE-18-F4-S-120-6-2.4	Weco Finishing Wheel for Glass, 4 Angle, 18mm	110 x 18 x 20 x 120 x 6 x 2.4
WE-18-F4-B-120-6-2.4	Weco Finishing Wheel, All Materials, 4 Angle, 18mm	110 x 18 x 20 x 120 x 6 x 2.4
WE-20-F4-S-120-6-2.4	Weco Finishing Wheel for Glass, 4 Angle, 20mm	110 x 20 x 20 x 120 x 6 x 2.4
WE-20-F4-B-120-6-2.4	Weco Finishing Wheel, All Materials, 4 Angle, 20mm	110 x 20 x 20 x 120 x 6 x 2.4
WE-20-P4-POL-120-6-2.4	Weco Polishing Wheel, 4 Angle, 20mm	110 x 20 x 20 x 120 x 6 x 2.4
WE-22-F4-S-120-6-2.4	Weco Finishing Wheel for Glass, 4 Angle, 22mm	110 x 22 x 20 x 120 x 6 x 2.4
WE-25-F4-S-120-9-3.4	Weco Finishing Wheel for Glass, 4 Angle, 25mm	110 x 25 x 20 x 120 x 9 x 3.4
WE-25-F4-B-120-9-3.4	Weco Finishing Wheel, All Materials, 4 Angle, 25mm	110 x 25 x 20 x 120 x 9 x 3.4

DIAMOND CUTTERS












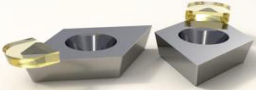


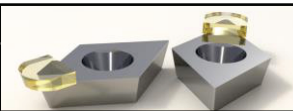
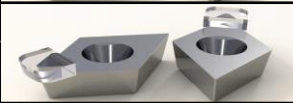

SATISLOH

<p>PRODUCT DESCRIPTION</p> <p>PCD Disc Z-12 Right Turn V-pro, V-95, V-100 Ø67.5 mm r 7.0 mm SATISLOH</p>	
<p>PRODUCT DESCRIPTION</p> <p>PCD Disc Z-12 Left Turn V-50, V-75, VFT-ULTRA, VFT-ORBIT Ø67.5 mm r 7.0 mm SATISLOH</p>	
<p>PRODUCT DESCRIPTION</p> <p>PCD Inserts Ø11.0 mm r5.5 mm SATISLOH</p>	
<p>PRODUCT DESCRIPTION</p> <p>PCD Inserts VFT Ø16mm x 6mm x 4.6mm SATISLOH</p>	
<p>PRODUCT DESCRIPTION</p> <p>PCD Inserts Orbit r2.0 mm SATISLOH</p>	
<p>PRODUCT DESCRIPTION</p> <p>PCD Inserts Orbit r5.0 mm SATISLOH</p>	
<p>PRODUCT DESCRIPTION</p> <p>PCD Inserts Ultra r2.0 mm SATISLOH</p>	
<p>PRODUCT DESCRIPTION</p> <p>PCD Inserts Ultra r5.0 mm SATISLOH</p>	
<p>PRODUCT DESCRIPTION</p> <p>PCD Inserts r2.0 mm SATISLOH</p>	







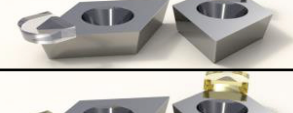

PRODUCT DESCRIPTION	
MCC Inserts Orbit r5.0 mm SATISLOH	
PRODUCT DESCRIPTION	
MCC Inserts Ultra r2.0 mm SATISLOH	
PRODUCT DESCRIPTION	
MCC Inserts Ultra r5.0 mm SATISLOH	
PRODUCT DESCRIPTION	
MCC Inserts r2.0 mm SATISLOH	
PRODUCT DESCRIPTION	
MCD Inserts Orbit r2.0 mm SATISLOH	
PRODUCT DESCRIPTION	
MCD Inserts Orbit r5.0 mm SATISLOH	
PRODUCT DESCRIPTION	
MCD Inserts Ultra r2.0 mm SATISLOH	
PRODUCT DESCRIPTION	
MCD Inserts Ultra r5.0 mm SATISLOH	
PRODUCT DESCRIPTION	
MCD Inserts r2.0 mm SATISLOH	
PRODUCT DESCRIPTION	
T-66 Holder Left & Right Turn SATISLOH	
PRODUCT DESCRIPTION	
Disc Holder ABS - 32 SATISLOH	
PRODUCT DESCRIPTION	
MCC Inserts Orbit r2.0 mm SATISLOH	

SCHNEIDER

PRODUCT DESCRIPTION	
HSC Master & Smart Auto Clamping Ø66.0 mm 12 PCD Right side cutting SCHNEIDER	
PRODUCT DESCRIPTION	
HSC Master & Smart Manual Clamping Ø66.0 mm 12 PCD Right side cutting SCHNEIDER	
PRODUCT DESCRIPTION	
HSC Master & Smart Auto Clamping Ø66.0 mm 15 PCD Right side cutting SCHNEIDER	
PRODUCT DESCRIPTION	
HSC Master & Smart Manual Clamping Ø66.0 mm 15 PCD Right side cutting SCHNEIDER	
PRODUCT DESCRIPTION	
HSC Nano Manual Clamping Ø45.0 mm 8 PCD Right side cutting SCHNEIDER	
PRODUCT DESCRIPTION	
HSC Nano Disc Ø45.0 mm 8 PCD Right side cutting SCHNEIDER	
PRODUCT DESCRIPTION	
HSC Modulo Manual Clamping Ø66.0 mm 12 PCD Left side cutting SCHNEIDER	
PRODUCT DESCRIPTION	
HSC Modulo Auto Clamping Ø66.0 mm 15 PCD Left side cutting SCHNEIDER	
PRODUCT DESCRIPTION	
HSC Modulo Manual Clamping Ø66.0 mm 15 PCD Left side cutting SCHNEIDER	
PRODUCT DESCRIPTION	
HSC All Type Machines Ø16.0 mm 20° SCHNEIDER	
PRODUCT DESCRIPTION	
HSC All Type Machines Ø8.0 mm 20° SCHNEIDER	
PRODUCT DESCRIPTION	
MCD Inserts r2.0 mm 120° SCHNEIDER	

PRODUCT DESCRIPTION	
MCD Inserts r5.0 mm 42° SCHNEIDER	
PRODUCT DESCRIPTION	
MCC Inserts r2.0 mm 120° SCHNEIDER	
PRODUCT DESCRIPTION	
MCC Inserts r5.0 mm 42° SCHNEIDER	
PRODUCT DESCRIPTION	
HSC Modulo Auto Clamping Ø66.0 mm 12 PCD Left side cutting SCHNEIDER	

OPTOTECH

PRODUCT DESCRIPTION	
Flash digital turning machine Ø60mm x 55mm x 14mm HD 20 R7 OPTOTECH	
PRODUCT DESCRIPTION	
Flash store Flash Plus Flash A-Plus Ø60mm x 60mm x 14mm HSK 40C R7	
OPTOTECH	
Flash digital turning ESM Twin A Ø66mm R 6.0 Z15 OPTOTECH	
PRODUCT DESCRIPTION	
Flash digital turning ESM Twin A Ø66mm R 6.0 Z15 HSK 32	
OPTOTECH	
Flash Light Ø50mm R 25 Z6 HD 20	
OPTOTECH	
PCD Turning Tool Ø11.0 mm R 5.5 OPTOTECH	
PRODUCT DESCRIPTION	
MCC Turning Tool R 2.0mm 120° OPTOTECH	
PRODUCT DESCRIPTION	
MCD Turning Tool R 2.0mm 120° OPTOTECH	

OPTICAL SPARES



NOSE PAD CLIPS



D-SHAPE

- 13.0mm
- 15.0mm
- 17.0mm



OVAL

- 13.0mm
- 15.0mm
- 17.0mm



ROUND

- 9.0mm
- 11.0mm



SADDLEBRIDGE

- 35.0 x 15mm
- 45.0 x 15mm



TEAR DROP

- 13.0mm
- 15.0mm

NOSE PAD SCREWS



OVAL

- 13.0mm
- 15.0mm
- 17.0mm



D-SHAPE

- 13.0mm
- 15.0mm



PVC

- 12.0mm



ROUND

- 9.0mm
- 11.0mm



SADDLEBRIDGE

- 35.0 x 15mm
- 45.0 x 15mm



TEAR DROP

- 13.0mm
- 15.0mm



OVAL MUSHROOM
· 11.0mm



TEAR DROP AIR
· 15.0mm



SILHOUETTE
· 11.0mm



ROUND MUSHROOM
· 11.0mm



RECTANGULAR MUSHROOM
· 11.0mm



RAYBAN
Silver
· 11.0mm



RAYBAN
Gold
· 15.0mm



TAG HUER
· 15.0mm



ANTISLIP STICK_ON
· 18.0mm

SCREWS



SHORT
· 2.0 x 14 x 3.0mm



NOSE PAD
· 1.6 x 1.2 x 4.5mm
· 1.8 x 1.0 x 4.2mm



MEDIUM SILVER
· 2.0 x 1.2 x 4.0mm
· 2.0 x 1.4 x 4.0mm
· 2.0 x 1.6 x 4.0mm



**ZAP OFF
SILVER**

- 2.0 x 1.2 x 13.5mm
- 2.0 x 1.4 x 13.5mm
- 2.0 x 1.6 x 13.5mm
- 2.0 x 1.2 x 14.0mm
- 2.0 x 1.4 x 14.0mm
- 1.8 x 1.0 x 4.2mm



**PIN
BREAK OFF
SILVER**

- 2.0 x 1.2 x 6.5mm
- 2.0 x 1.4 x 6.5mm
- 2.0 x 1.6 x 6.5mm



LONG

- 2.0 x 1.2 x 7.0mm
- 2.0 x 1.4 x 7.0mm
- 2.0 x 1.6 x 7.0mm
- 2.0 x 1.4 x 8.0mm



EXTRA LONG

- 1.8 x 1.2 x 12.0mm
- 2.0 x 1.4 x 10.0mm
- 2.8 x 1.4 x 10.0mm



**ZAP OFF
GOLD**

- 2.0 x 1.4 x 13.5mm
- 1.8 x 1.0 x 4.2mm



**PIN
BREAK OFF
GOLD**

- 2.0 x 1.4 x 6.5mm



LOCKABLE

- 2.0 x 1.4 x 4.0mm



**BLACKNECK
LOCKABLE**

- 2.0 x 1.4 x 4.0mm



**MEDIUM
GOLD**

- 2.0 x 1.4 x 4.0mm



SCREW NUT

- 1.2 x 2.5mm



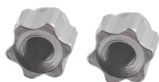
HEX NUT

- 1.2 x 2.5mm



**SCREW
WASHER**

- METAL
- 2.5 x 1.4 x 0.3mm



STAR CAP

- 1.4 x 2.5mm



STAR NUT

- 1.4 x 2.5mm



**SCREW
WASHER**

- PLASTIC
- 2.5 x 1.4 x 0.3mm

OPTICAL TOOLS



TUNGSTEN DRILL BITS SET



D - A05



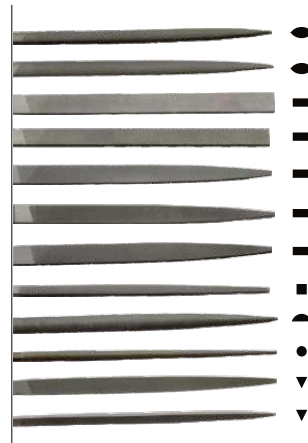
FILE SET



D - A62



D - A64



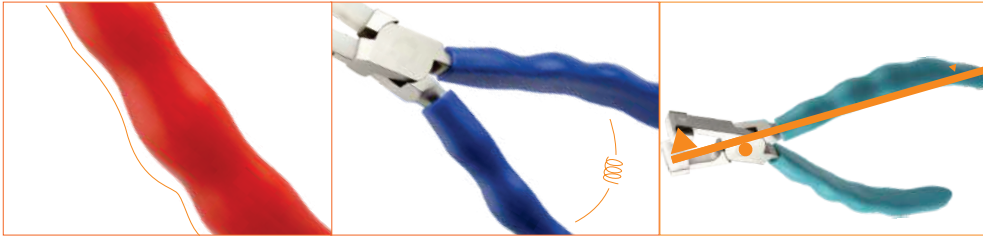
REAMER SET



D - A69

DURE™

PLIERS



Easy To Hold

Anti-slip rubber handle, with curvature fit for fingers.

Easy To Move

Spring hidden inside joint, open and close smoothly.

Easy To Use

Design as per lever theory, Shorter jaw, longer handle.



Mounting Pliers (horizontally and vertically)

No. D - AB929



Removable Pliers (horizontally and vertically)

No. D - AB930



Mounting Pliers (horizontally)

No. D - AB923



Removable Pliers (horizontally)

No. D - AB924



150mm
103.5g



150mm
104g



150mm
104g



150mm
104g

PRECISION TOOLS

Flat Semicircular Snipe Nose Plier



No. D - AC14 No. D - AB14

Curve Semicircular Snipe Nose Plier



No. D - AC15 No. D - AB15

Pad Adjusting Plier



No. D - AC18 No. D - AB18



159mm
141g

150mm
102.5g

162mm
122.5g

150mm
96g

162mm
122.5g

150mm
96g

Multi-Purpose Adjusting Plier



No. D - AB900

Multi-Purpose Adjusting Plier



No. D - AC901

No. D - AB901

Pad Removable Plier



No. D - AB55



157mm
127g

157mm
127g

150mm
110g

150mm
110g

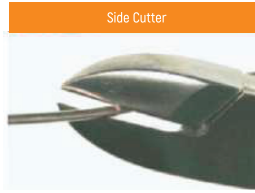
DURE™



Front Cutter

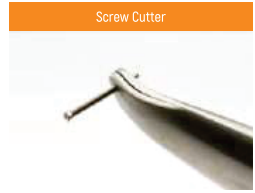
No. D - AC47

No. D - AB47



Side Cutter

No. D - AB49

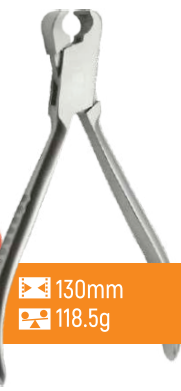


Screw Cutter

No. D - AB50



141mm
125.5g



130mm
118.5g



143mm
118.5g



150mm
110g



Screwdriving Plier

No. D - AB36



Inclination Plier

No. D - AC21

No. D - AB21



Plastic Cutter

No. D - AB931



140mm
112g



157mm
118.5g



150mm
107g



125mm
69g

Nylon Eyewire Shaper



No. D - AC29

No. D - AB29

Trident Plier



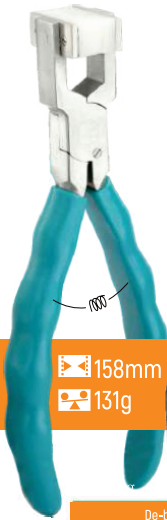
No. D - AC59

No. D - AB59

Chipping Plier



No. D - AB50



158mm
131g

150mm
131g

163mm
135g

151mm
134g

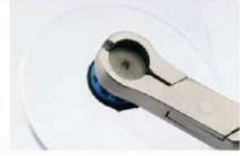
150mm
110g

De-blocking Plier



No. D - AB38

De-blocking Plier



No. D - AB39

Lens Aligner



No. D - AB40



140mm
112g

157mm
118.5g

150mm
107g

PLIER JAW

Picture	No.	Pliers	Weight	Package
	AB900A 10		4g 13g	3
	AB/AC901A 10		4.5g 14.5g	3
	AB/AC21A 5		4g 13g	3
	AB/AC29A 5		10g 31g	3
	AB36A 10		5g 16g	3
	AB/AC59A 15		14g 43g	3
	AB923A 10		4g 13g	3
	AB924A 10		4.5g 14.5g	3
	AB929A 10		4.5g 14.5g	3
	AB930A 10		5g 16g	3

TOOLS STAND



D - B07 - A

Model No.	Description
D - AB901	Multi-Purpose Adjusting Plier
D - AB15	Curve Semicircular Snipe Nose Plier
D - AB18	Pad Adjusting Plier
D - AB21	Inclination Plier
D - AB23	Inclination Plier
D - AB29	Nylon Eyewire Shaper
D - AB40	Lens Aligner
D - AB47	Screw Cutter
D - AB50	Screw Cutter
D - AB55	Pad Removable Plier
D - AB59	Trident Plier
D - AB923	Pressing Plier for Rimless Frames
D - AB924	Pressing Plier for Rimless Frames
D - A19C-1.6	Slot - 1.6
D - A19C-1.8	Slot - 1.8
D - A19C+1.5	Slot + 1.5
D - A19C+1.8	Slot + 1.8
D - A19C 232	Hex 2.32
D - A19C 282	Hex 2.82
D - B07	Plastic Tool Stand



Model No.	Description
D - AB901	Multi-Purpose Adjusting Plier
D - AB14	Flat Semicircular Snipe Nose Plier
D - AB18	Pad Adjusting Plier
D - AB21	Inclination Plier
D - AB29	Nylon Eyewire Shaper
D - AB40	Lens Aligner
D - AB47	Screw Cutter
D - AB59	Trident Plier
⊖ 1.6 D - A19C-1.6	Slot - 1.6
⊖ 1.8 D - A19C-1.8	Slot - 1.8
⊕ 1.5 D - A19C+1.5	Slot + 1.5
⊕ 1.8 D - A19C+1.8	Slot + 1.8
⊙ 2.32 D - A19C 232	Hex 2.32
⊙ 2.82 D - A19C 282	Hex 2.82
D - B08	Plastic Tool Stand



Model No.	Description
D - AB901	Multi-Purpose Adjusting Plier
D - AB14	Flat Semicircular Snipe Nose Plier
D - AB15	Curve Semicircular Snipe Nose Plier
D - AB18	Pad Adjusting Plier
D - AB21	Inclination Plier
D - AB29	Nylon Eyewire Shaper
D - AB47	Screw Cutter
D - AB59	Trident Plier
⊖ 1.6	D - A19C-1.6 Slot - 1.6
⊖ 1.8	D - A19C-1.8 Slot - 1.8
⊕ 1.5	D - A19C+1.5 Slot + 1.5
⊕ 1.8	D - A19C+1.8 Slot + 1.8
⊙ 2.32	D - A19C 232 Hex 2.32
⊙ 2.82	D - A19C 282 Hex 2.82
D - B08	Plastic Tool Stand



SILHOUETTE PLIERS SET

Product	Qty	Image	Function
1 Pressing Plier D - AB923	1pc		
2 Cutting Plier D - AB931	1pc		
3 Spare Jaw D - AB923A	1pc		
4 Spare Jaw D - AB924A	1pc		Spare jaw for plier AB923
5 Drilling Holder D - 019B	1pc		Spare jaw for plier AB924
6 Hole Pins	2pcs		
7 Silhouette Pins 14 * 7.0	1pc		To finish the silhouette pins hole after cutting
8 Silhouette Pins 14 * 7.0	10pcs		Silhouette pins
9 Skidproof Sticker	20pcs		Anti-skid and avoid scratching
10 Protection Sheet	10pcs		Prevent the drilling hole edge from braking



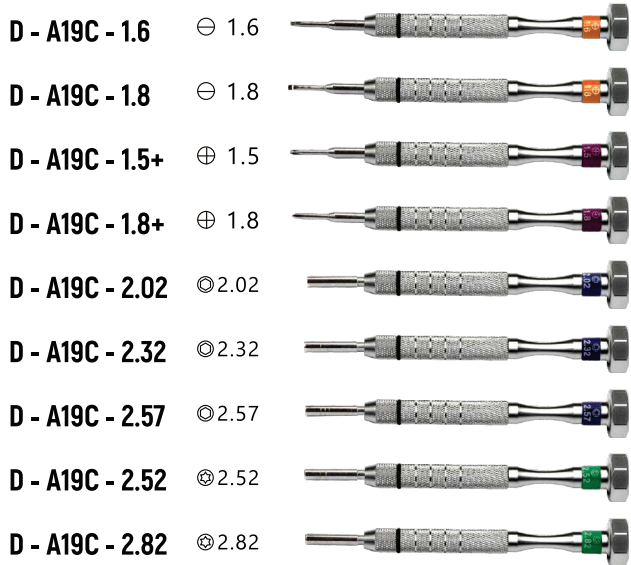
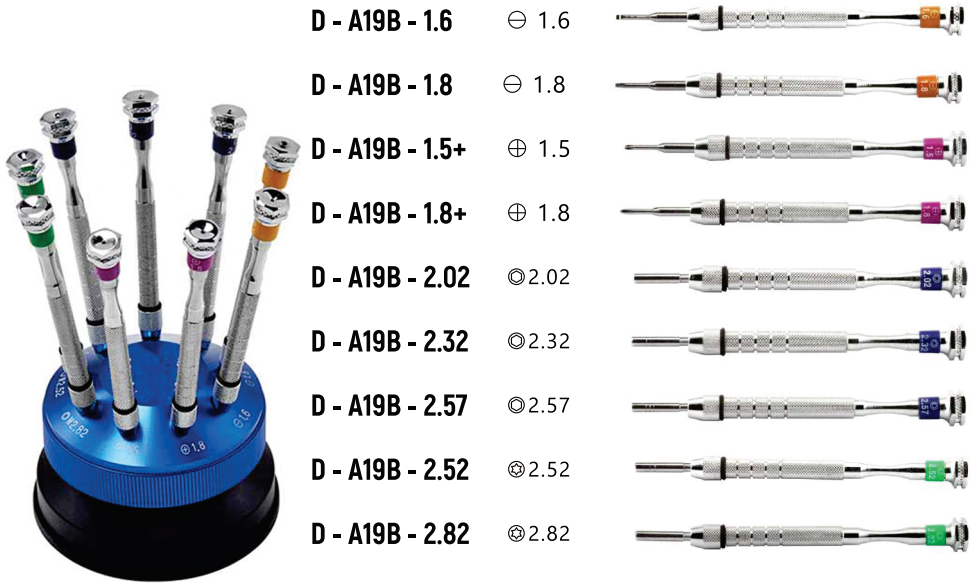


Product	Model No.	Qty
Pressing Plier	D - AB929	1pc
Pressing Plier	D - AB930	1pc
Cutting Plier	D - AB931	1pc
Spare Jaw	D - AB929A	1pc
Spare Jaw	D - AB930A	1pc
Drilling Holder	D - 019B	2pc
Hole Pins		1pc
Silhouette Pins	14 x 7.0	10pc
Skidproof Sticker		20pc
Protection Sheet		10pc



Model No.	Description
D - AB901	Multi-Purpose Adjusting Plier
D - AB14	Flat Semicircular Snipe Nose Plier
D - AB21	Inclination Plier
D - AB29	Nylon Eyewire Shaper
D - AB38	De-blocking Plier
D - AB40	Lens Aligner
D - AB59	Trident Plier
D - 014A	PD Ruler
D - 31115010	Screwdrivers sets
D - 31111070	Screwdrivers - 1.8
D - A13	Thickness Apparatus
D - A48D	Screw Tweezer
D - A21C	Box
D - B09	Bag





SCREWDRIVERS SET



D - A19L



D - A19J

SCREWDRIVERS



◀ **D - 002**
Spec: -1.8 / +1.8



◀ **D - 002A**
Spec: -1.8 / +1.8



◀ **D - A04**
Spec: -1.6 / -1.8
/ +1.5 / +1.8



◀ **D - A04**
Spec: 3T / -1.8
/ +1.5



D - A19S - 1.6 5 ⊖ 1.6



D - A19S - 1.8 5 ⊖ 1.8



D - A19S + 1.5 5 ⊕ 1.5



D - A19S + 1.8 5 ⊕ 1.8



D - A19S - 2.02 5 ⊙ 2.02



D - A19S - 2.32 5 ⊙ 2.32



D - A19S - 2.57 5 ⊙ 2.57



D - A19S - 2.52 5 ⊙ 2.52



D - A19S - 2.82 5 ⊙ 2.82

TWEEZER

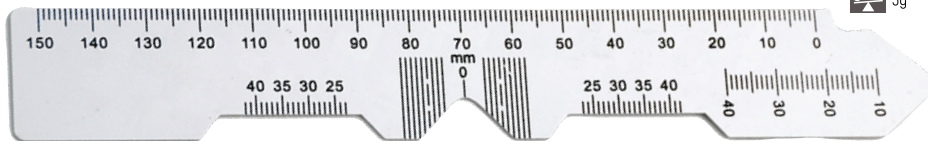


D - A48F





D - A48A

PD RULER



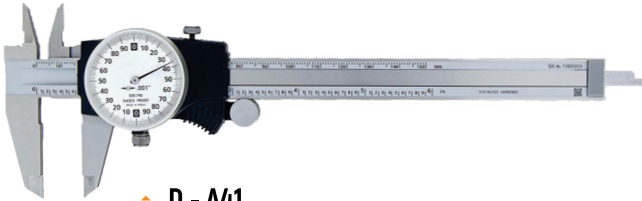
◀ **D - 014A**

 0.8x26x170mm
 3g

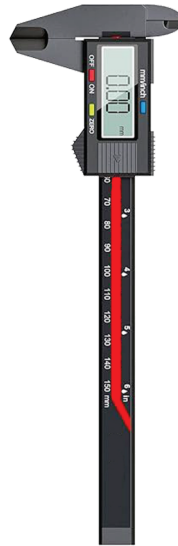
CALIPER



▲ **D - A45**
Spec: 0-150mm



▲ **D - A41**
Spec: 0-150mm



▲ **D - A43**
Spec: 0-100mm

RADIAN APPARATUS



Analog Base Curve Gauge
D - A12
Spec: N1.53



Analog Base Curve Gauge
D - A12X
Spec: N1.53 / 1.599 / 1.61 / 1.67



Digital Seg Gauge
D - A12D
Spec: N1.49 / 1.53 / 1.56 / 1.599 / 1.61 / 1.67 / 1.71 / 1.74



Analog Lens Thickness Gauge
▲ **D - A13**
Spec: 0-10mm
137x85x37mm
162.5g



Analog Lens Thickness Gauge
▲ **D - A13A**
Measure Scope: 0-20mm

OPTICAL TRAYS



DIGITAL JOB TRAYS



INFO

→ Technical Data

Carrier base measures 210mm [8.267"] x 250mm [9.843"] x 12mm [.472"] | Overall tray height is 69.85mm [2.75"].

→ Benefits

Heavy duty, stackable job trays that are compatible with all digital optical lens processing equipment. | Its designed to be used with the 2 or 3 slot blockings. | Are available in 7 different colors.

→ Recommendations

Please use with recommended blocking system and machines.

→ IMPORTANT

Due to a special locating device, the tray holds blocking chucks, blocked lenses ready for the finishing process and lenses that have not been blocked yet.

LOH/SCHNEIDER SYSTEM – 2 SLOTS



WHITE = 50-002-000/0140-02
 ORANGE = 50-002-021/0140-02
 RED = 50-002-032/0140-02
 GREY = 50-002-009/0140-02
 BLUE = 50-002-300/0140-02
 GREEN = 50-002-356/0140-02
 YELLOW = 50-002-102/0140-02
 FURTHER JOB TRAYS AVAILABLE
 ON REQUEST

LOH/SCHNEIDER SYSTEM – 3 SLOTS



WHITE = 50-003-000/0140-08
 ORANGE = 50-003-021/0140-08
 RED = 50-003-032/0140-08
 GREY = 50-003-009/0140-08
 BLUE = 50-003-300/0104-08
 GREEN = 50-003-356/0140-08
 YELLOW = 50-003-102/0140-08
 FURTHER JOB TRAYS AVAILABLE
 ON REQUEST

WECO/NIDEK SYSTEM – 2 SLOTS



WHITE = 50-002-000/0140-06
 ORANGE = 50-002-021/0140-06
 RED = 50-002-032/0140-06
 GREY = 50-002-009/0140-06
 BLUE = 50-002-300/0140-06
 GREEN = 50-002-356/0140-06
 YELLOW = 50-002-102/0140-06
 FURTHER JOB TRAYS AVAILABLE
 ON REQUEST

WECO/NIDEK SYSTEM – 3 SLOTS



WHITE = 50-003-000/0140-07
 ORANGE = 50-003-021/0140-07
 RED = 50-003-032/0140-07
 GREY = 50-003-009/0140-07
 BLUE = 50-003-300/0104-07
 GREEN = 50-003-356/0140-07
 YELLOW = 50-003-102/0140-07
 FURTHER JOB TRAYS AVAILABLE
 ON REQUEST

DURE™

OEM EXCLUSIVE JOB TRAYS



IMPORTANT

Our company is the OEM (Original Equipment Manufacturer) of well recognized companies in the optical market. Our policy of exclusivity and confidentiality agreements with our partners allows us to put at their disposal all our know-how in the development of new products, without ever compromising the relationship of trust, since all the products and innovations created in the scope of exclusive partnership are not allowed to be used in other products or/and to be sold by our company to third parties.



OPTICAL LENSES



DURE™ Lens



SINGLE VISION

- S/V A.R.C CLEAR 1.56
- S/V CLEAR 1.5
- S/V CLEAR 1.67 ARC
- S/V SUNGRAY A.R.C 1.56
- SUNGLASS BROWN 1.5
- SUNGLASS G- 15
- SUNGLASS GREY 1.5
- SV CLEAR BLUE BLOCK ARC 1.56
- SV SUNGREY BLUE BLOCK ARC 1.56



FOR MORE DETAILED INFORMATION:

Visit: www.libertymedicalworld.com
Or Contact: +27 81 484 2088

DURE™

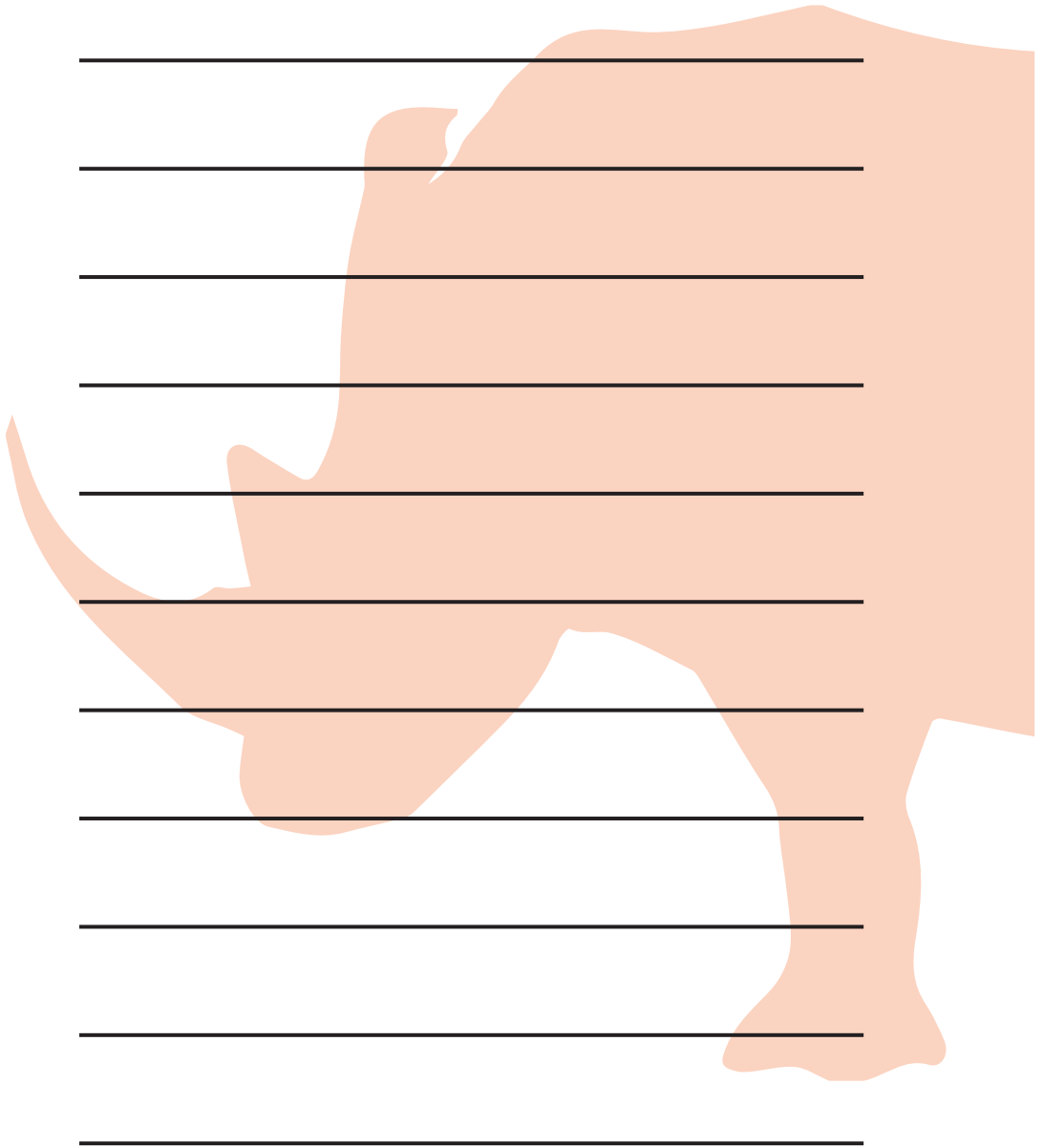
BIFOCAL

- FLAT TOP SF 70/28MM UC (WHITE) 1.5
- FLAT TOP SF SUNGREY HC 70/28MM 1.56
- ROUND SAG SF 70/28MM (LENTICULAR) 1.5

PROGRESSIVE

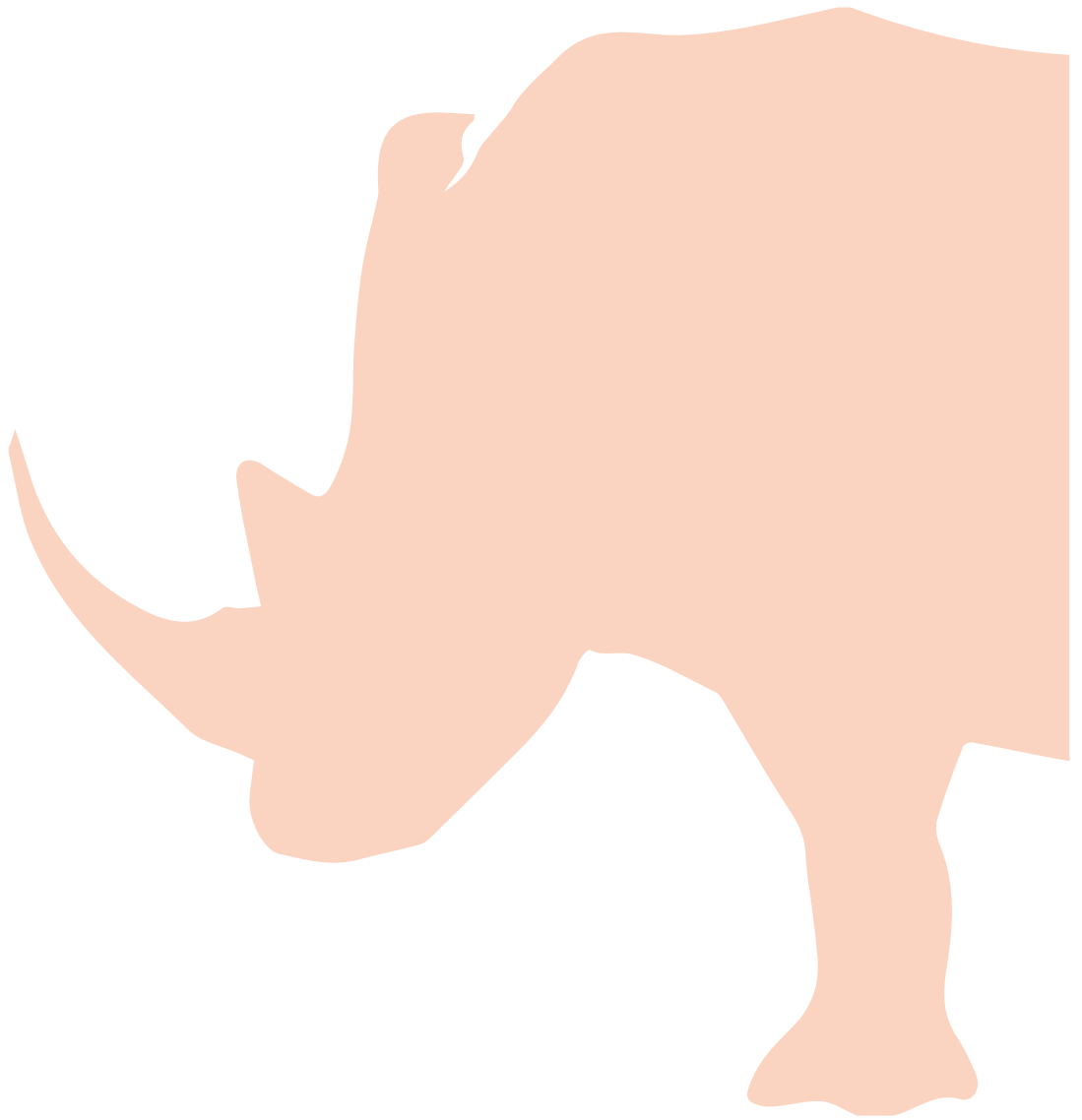
- PHOTOCHROMIC 1.56HC 70MM
- PHOTOCHROMIC 1.67HC 70MM
- WHITE 1.50UC 70MM
- WHITE 75MM LARGE BLANK 1.50UC 75MM
- WHITE 80MM LARGE BLANK 1.50UC 80MM
- WHITE HRI 1.67HC 70MM
- WHITE POLYCARB 1.59HC 70MM
- FREE FORM HRI WT HC 1.74
- POLORISED FREE FORM (BRN)
- POLORISED FREE FORM (G15)
- POLORISED FREE FORM (GRY)

NOTES



NOTES





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