DURE™

OPTICAL LENSES CONSUMABLES

COLLECTION
2024/25

Leaders In Optical Lens Products, Consumables, Services & Research.

Member of
LIBERTY
MEDICAL WORLD

Envisioning a New Era in Focus

We here at Dure are dedicated to the needs of the optical labs and optometrist, further providing them with the best in quality optical consumables with efficient service.

The constant rise in quality of life is largely influenced by technology, Dure is dedicated to using state of the art equipment and to make a more productive world for everyone. By continuously pursuing the latest in optical technology and emphasizing on integrated services; Dure has been successful in making the world more accessible.

With over 3000 plus products, we offer a comprehensive and attractive range of consumables, spares and tools. Our wide variety of consumables, spares, and tools makes Dure the leader in the optical industry. We constantly thrive to innovate and improve our products whilst maintaining our prices as cost-effective as possible

Our production unit undergoes strict control where each process is monitored before the final product is released. Our products are manufactured by keeping effective pricing and long-lasting quality in mind

We would like to take this opportunity to thank you for your continuous support and assure you of our constant efforts in bringing you the very best in affordable optical products. Join us while we cruise into a brighter and more prosperous 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.

- This indicates that all of the equipment and supplies have been designed. Dure offers certified and guaranteed to operate together for optimum performance components that are available from a single convenient source.

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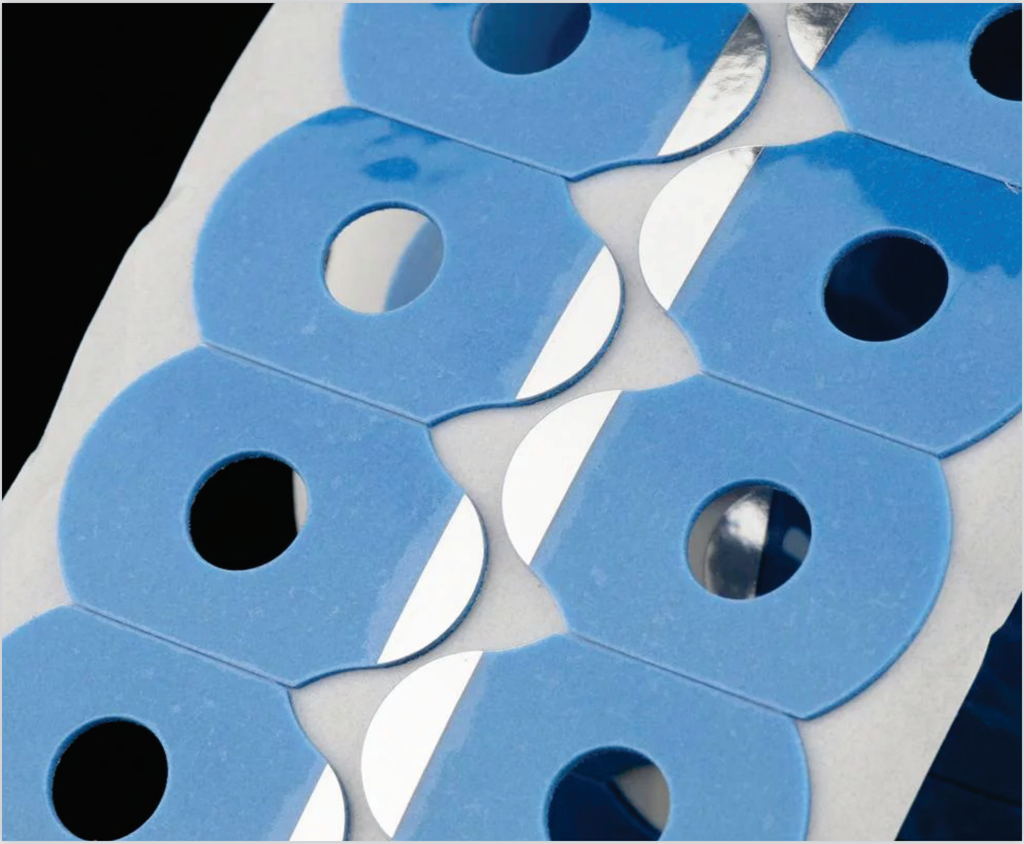
OPTICAL LENS TAPES



ANTI SCRATCH TAPE

ANTI SCRATCH TAPE (ACF)

ACF0135

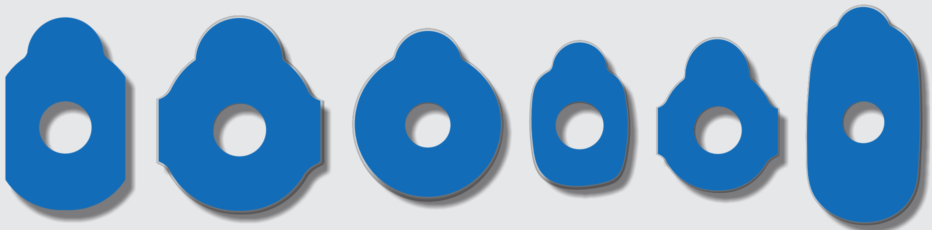
width: 35mm Leaf Round
2,500 pcs/Roll

ACF4048

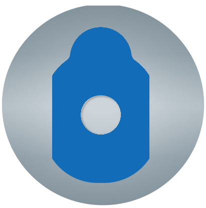
40 mm x 48mm
2,500 pcs/Roll

DURE™

EDGING(BLOCKING) PAD

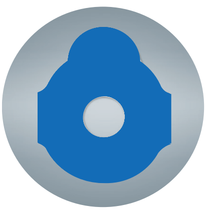


ASF 01	EDP 02	EDP 03	EDP 04	EDP 05	EDP 06
24mm x 18mm	24mm x 24mm	22mm x 22mm	17mm x 14mm	18mm x 18mm	29mm x 17mm



EDP 01

width: 18mm x **hieght**: 24mm
Oval Shape Type



EDP 02

width: 24mm x **hieght:** 24mm
Oval Shape Type

EDP SESRIES

DURE™

SURFACE SAVER TAPE
FOR ALLOY {WAX}

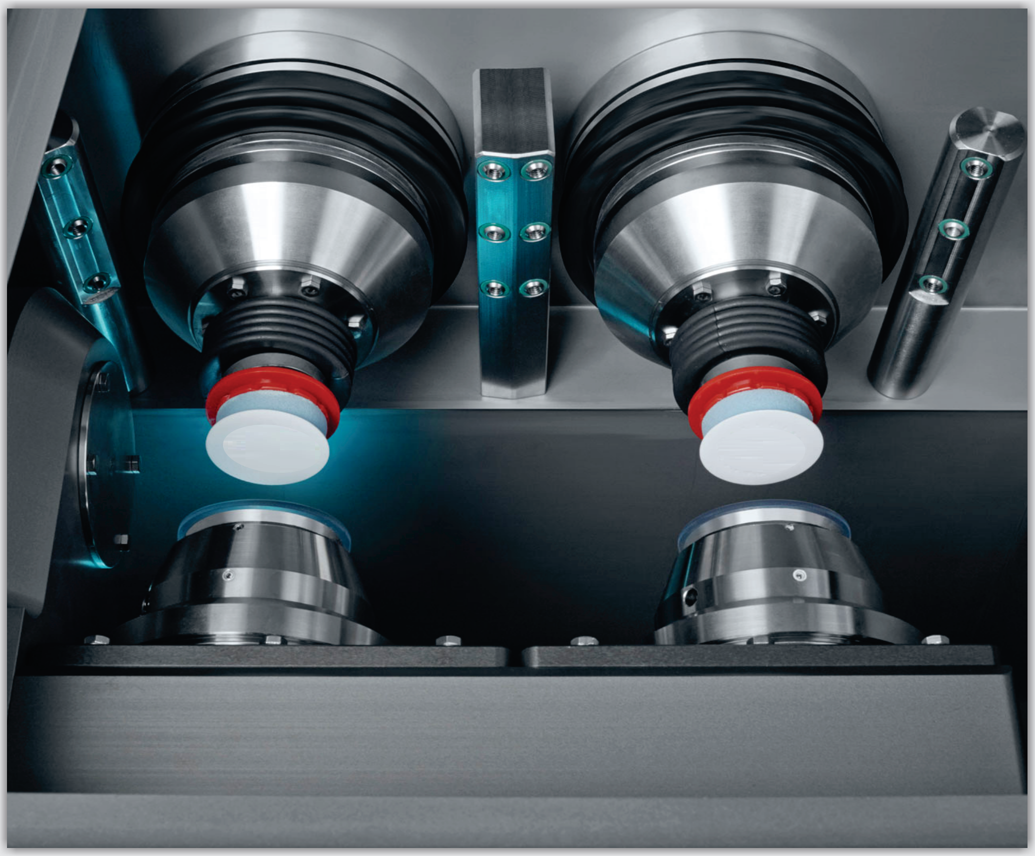
	Lens Surface Adhesive Power	Alloy surface Adhesive Power
H grad	standard	standard
G grad	standard	↓↓
C grad	↑	standard
M grad	standard	↑
R grad	↑	↑

M033H

H grad
width 4 inch length 33mm
Blue/Light blue

M SERIES

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

ATD DESIGN REFERENCES

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

SATISLOH

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 0 = 14-014-000/ATD
CURVE 1 = 14-014-001/ATD
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CURVE 4 = 14-014-004/ATD
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CURVE 7 = 11-010-007/ATD
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CURVE 3 = 11-011-003/ATD
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CURVE 7 = 11-011-007/ATD
CURVE 9 = 11-011-009/ATD
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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
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CURVE 13 = 11-013-013/ATD

MULTI-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 MICRO-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)

DURE™

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

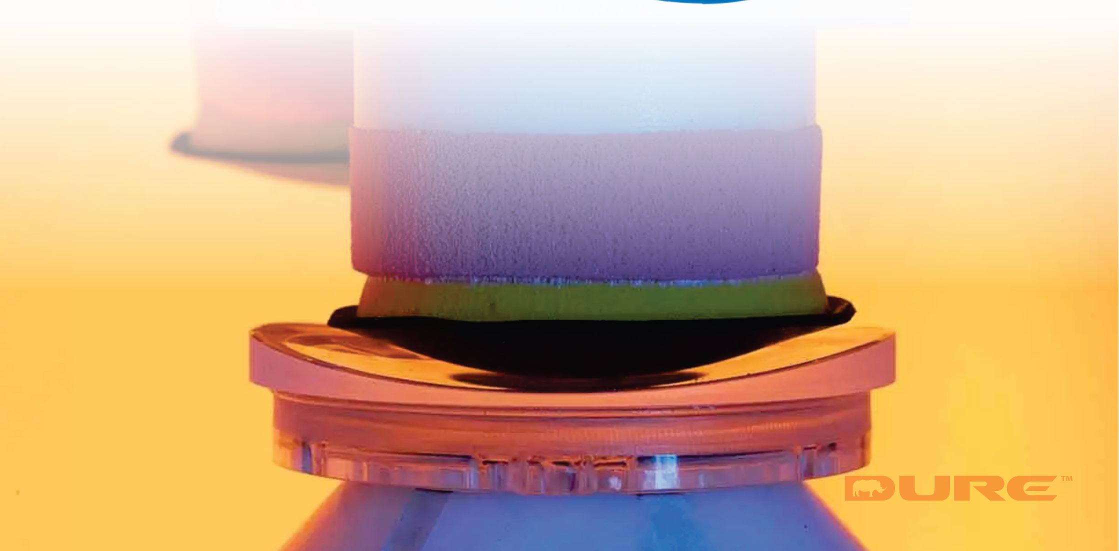
CURVE 032 / YELLOW = 23-023-032-ATD
CURVE 075 / BLUE = 23-023-075-ATD
CURVE 150 / RED = 23-023-150-ATD
CURVE 600 / GREY = 23-023-600-ATD
NEGATIVE CURVES / GREEN
(UPON REQUEST)

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/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

DURE™

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 absorver 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)

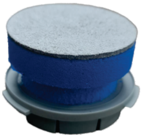
INFO

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

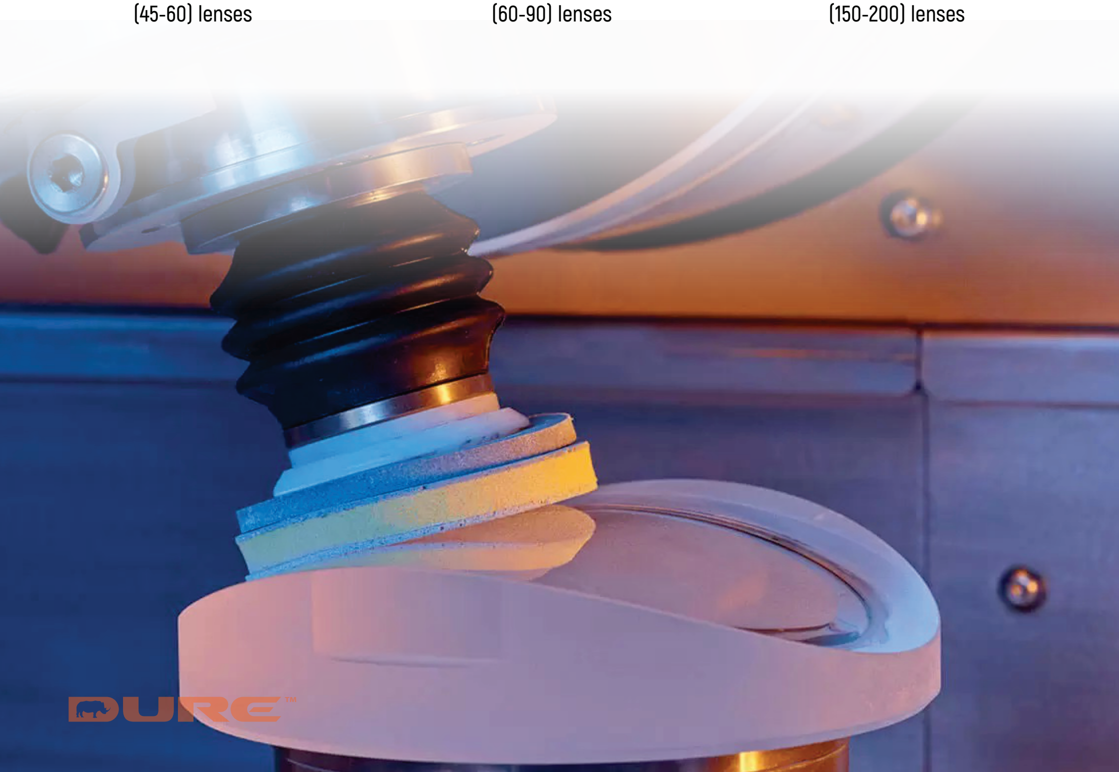


Comfiline Freeform Polishing Pad

253514 - H
(60-90) lenses

Super-Dura Free Polishing Pad

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

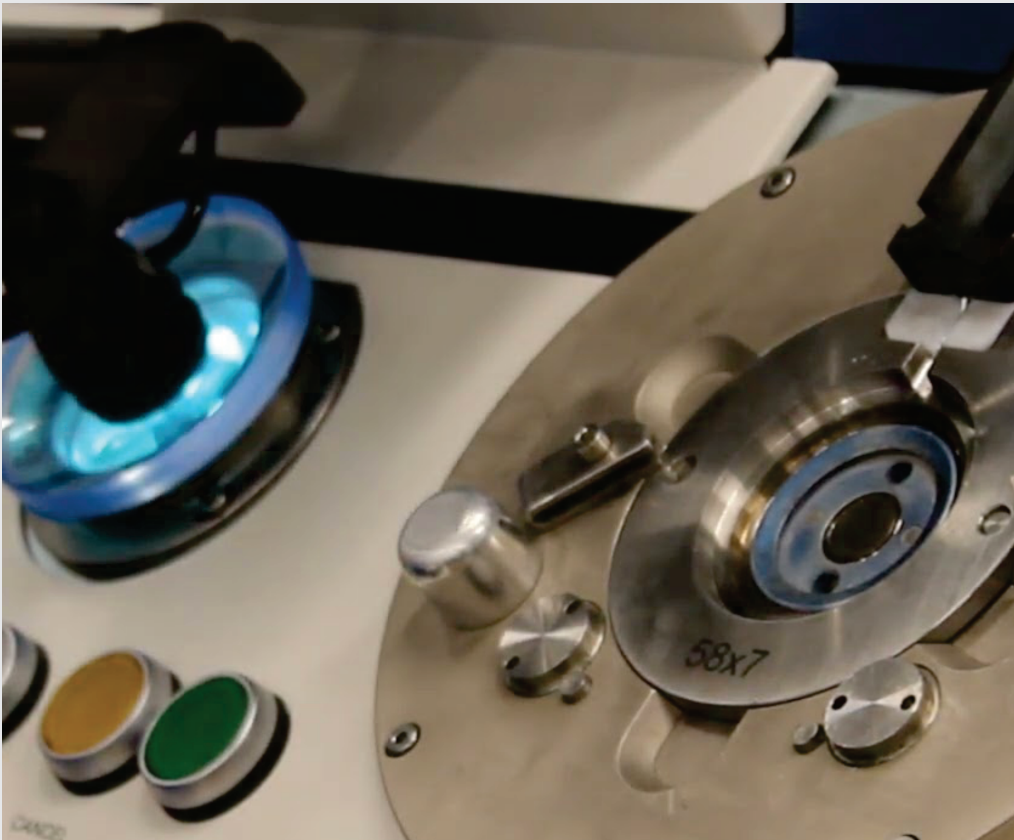
Designed to have outstanding behavior with our metal machine tool post.

Important Remark

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

60-004-000

Surface Blocking Consumables



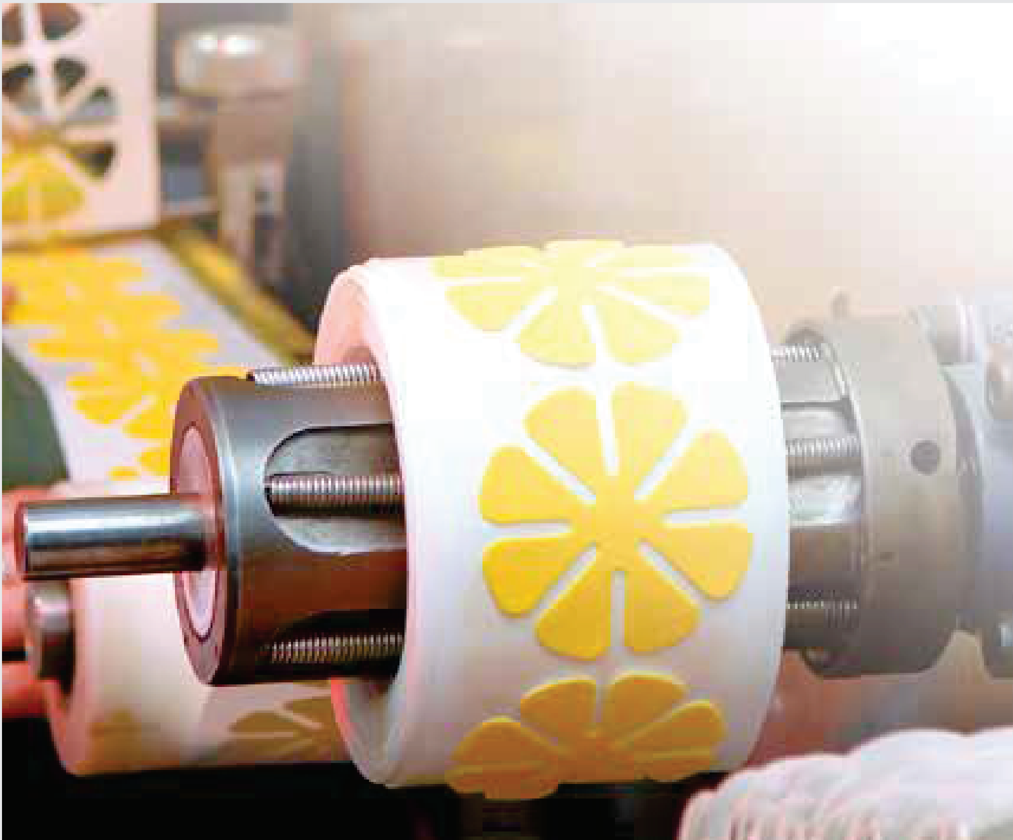
ALLOY BLOCKING COMPOUND

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 blocks approximately 10 lenses.

FREEBOND WAX

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.

CONVENTIONAL PADS



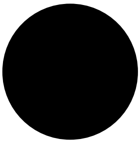
SURFACING PADS

INFO

Technical Data

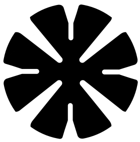
As well as the traditional 6 leaf and 7 leaf, we offer a range of alternative pad shapes for different applications, such as high curve impellor pads. Our technical and engineering departments can design and produce to a customer's specifications

A



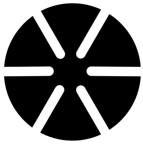
Plain Round
64mm | 76mm
67mm 80mm
70mm | 83mm
89mm

Q



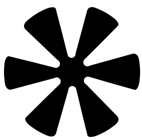
8 Leaf
76mm
83mm
89mm

P



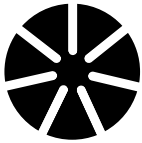
6 Leaf
64mm | 80mm
67mm 82mm
76mm 89mm

O



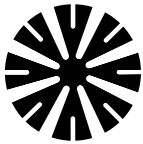
Impellor Top
Curve
6 Leaf
67mm
83mm

T



7 Leaf
76mm
80mm
83mm
89mm

V



16 Leaf
76mm

Hi-Index 1st Fine Pad

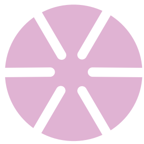
The Black 1st fine Hi-Index pad is an evolutionary pad designed for use with modern generators with little or no elliptical error. The lower stock removal rates make it ideal for today's soft Hi-Index lens materials. The unique design and specification of the abrasive ensures consistent stock removal 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 fining 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

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 fining 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

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

"Superfine" 2nd Fine Pad

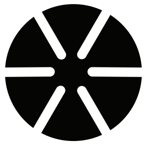
A more aggressive addition to our family of 2nd fine pads. This new pad follows the same rigid particle selection process but at a higher level, thus increasing stock removal rates without loss of surface quality. Consistent results ensure complete suitability on the full range of CR39 and Hi-Index lens 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

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



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 /

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 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

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 - Symthetic 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 COMPATIBILTY - All major brands of polishing pads but particularly suited to Cerium's White and Performance Polishing pads

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 particulary suited to Cerium's Yellow and Silver 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

SPECIFICATIONS

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

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.

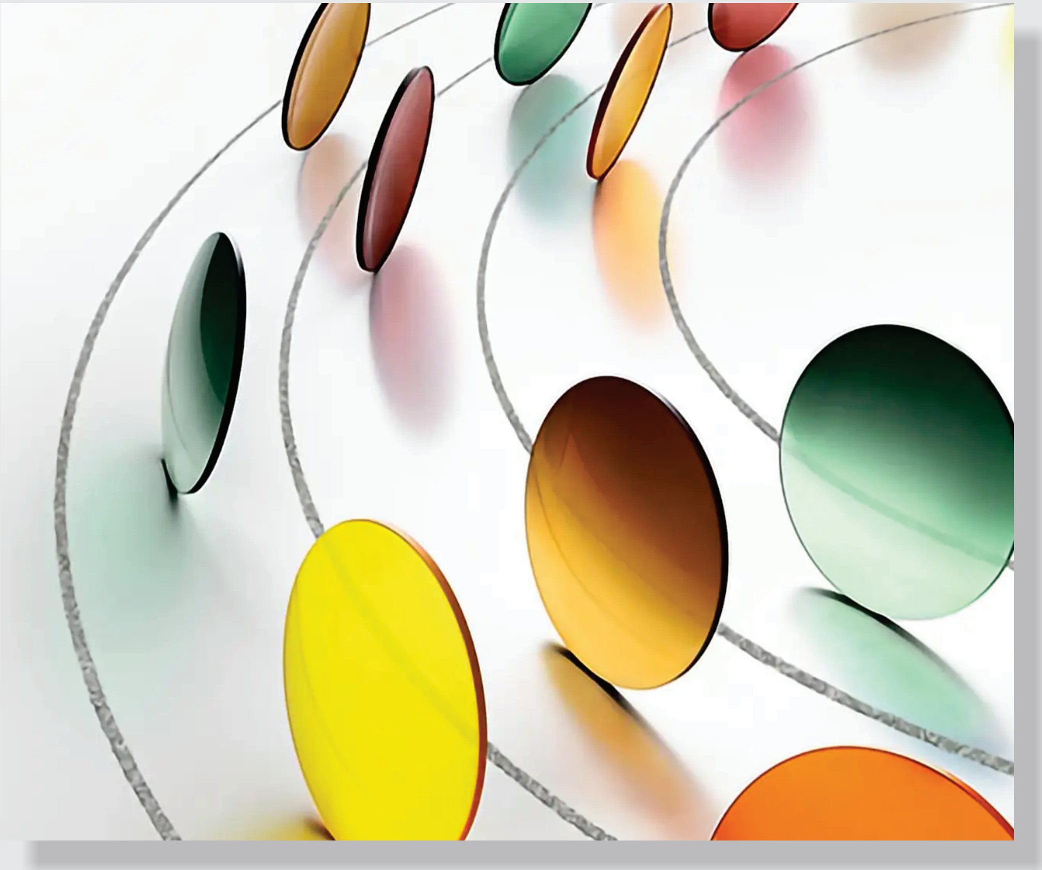
Crystal cool

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

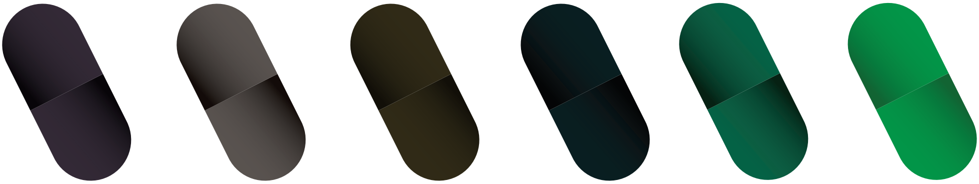
This product has been designed as a polish with the ophthalmic lens production market firmly in mind. It represents the latest developments in cerium oxide based polishing compounds for the glass polishing industry. It has been especially formulated for excellent suspension characteristics and rapid 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

OptiColors

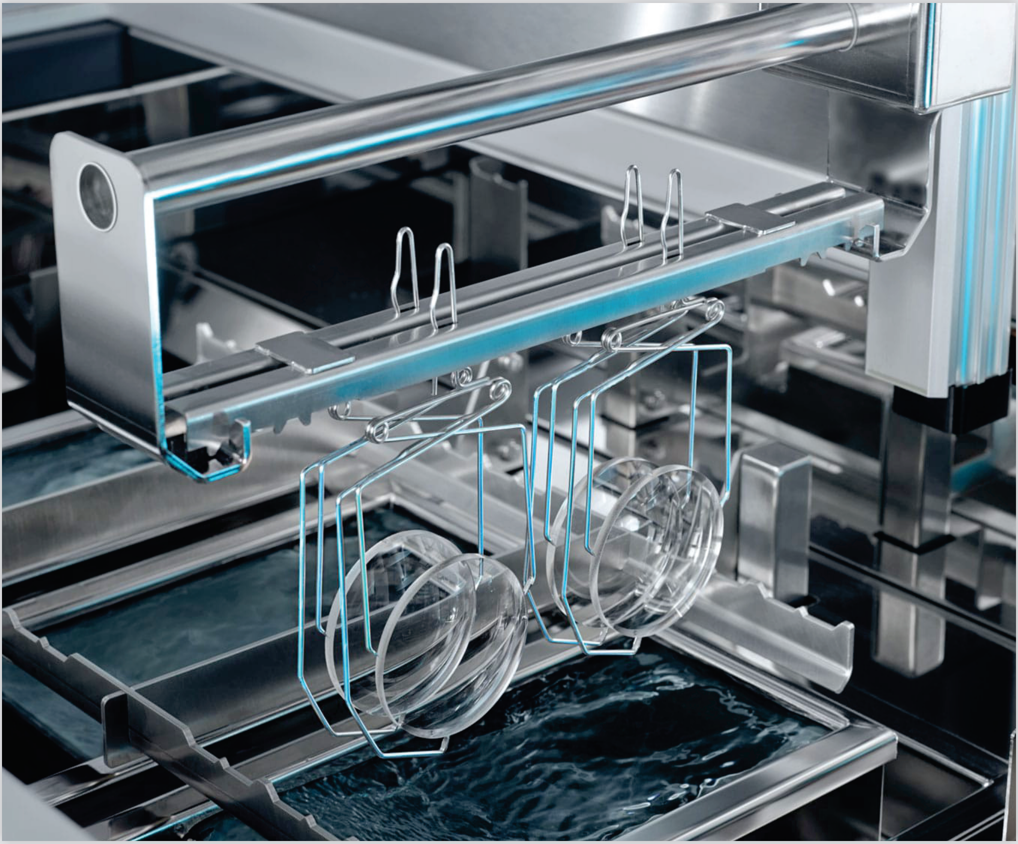
Liquid Dye

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™

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 (Si02 is coated on CR-39 substrate
- Distance from source to substrate (mm) : 880mm
- Substrate temperature ('C) : NO heating..Base pressure (Torr) : 8x10" Torr
- Evaporation Source : Resistance heating

Super Hydrophobic Wet Solution

(Excellent adhesive property with good slippery)

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/cm^2) - 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 tightlysealed
2. Store in cool, dry place in tightly closed containers
3. Ensure good ventilation at the work place prevent formation of dust
4. 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 (A/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) - 1.100
Evaporation rate (Å/s) - 10
Base pressure (Torr) - 5x10
Evaporation pressure (Torr) - 2x10
Substrate - S-BSL7

L-Index Coating Material

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 (A/s) - 20
Base pressure (Tor) - 5x10
Evaporation pressure (Torr) - 2x10
Substrate - S-LAM66

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 obserbed 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 : Ti3Os

Physical properties

Product name - Ti3Os
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*
Evaporation pressure (Torr) - 2x10*
Substrate - S-BSL7

DURE™

Material name : TiO2

Physical properties
Chemical formula - TiO_2
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
Evaporatoin 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) - 1800
Coefficient of liner expansion (x10) - 8.22
Transmittance range (u0) - 0.43-6.2
Purity : Titanium dioxide (TiO_2) - 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.

NEW MATERIAL

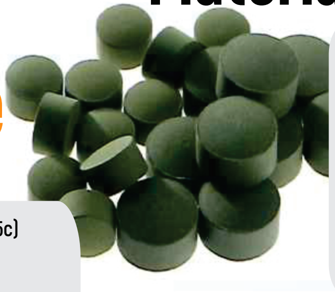
Material name : EU-3

(Alternate material for SiO_2)

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

Indium Tin Oxide



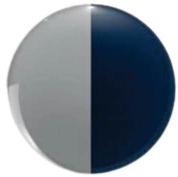
Material name : Ti02

Production Information
Synonym - I.T.O.
Chemical formula - +In203 + Sn02
Purity - 99.99%
Tap density - 1,20 ~ 1.90 g/cc
Specific gravity - 7.2 mg/cc
CAS No. or Indium oxide - 1312-43-9
CAS No, of Tin oxide - 18282-10-5
Shape (Size) - Tablet (dia, 7X6t & 11X8t)

Physical properties of bulk material (at25c)
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
Evaporatoin 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 (%6) - <30
Rate of climb (sec) - 40
Substrate - PMMA

QUARTZ CRYSTALS

DURE Alloy

DURE Alloy are widely used for high-stress material depositions including silicon monoxde, 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.**

DURE™

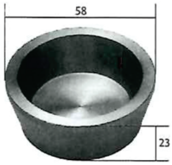
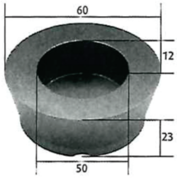
EVAPORATION SOURCES

EVAPORATION BOAT

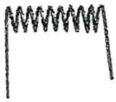
(SPECIAL BOAT)

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

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		Ø0.8x110mm	Ion gun	10
F-02		Ø0.8x110mm	EB gun	20
F-03		Ø0.8x110mm	Temescal	10
F-04		Ø0.8x110mm	Spiral	100
F-05		Ø0.8x110mm	Basket	100
F-06		Ø0.8x110mm	Basket	100

Gun Type Ionizer

HIGH QUALITY

Lightweight 200 g

MADE IN JAPAN

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

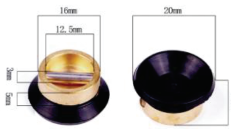
0.3 s

IZG10 Series

DURE™

LENS BLOCKS

LF-8201



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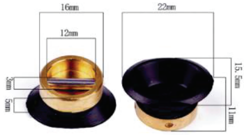

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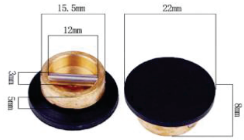

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LF-8205

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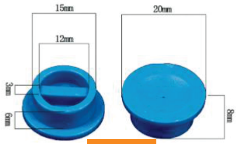

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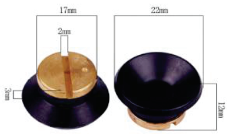

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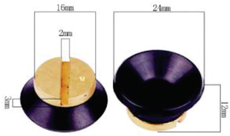

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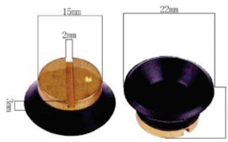

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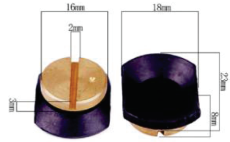

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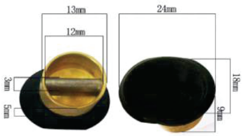

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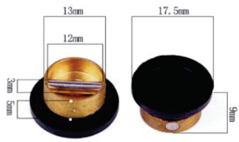

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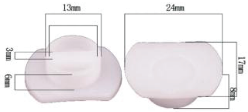

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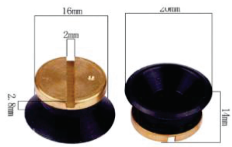

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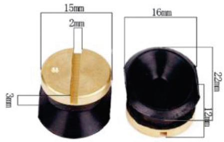

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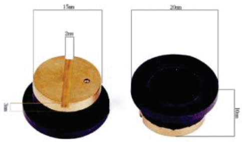

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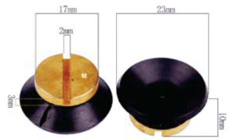

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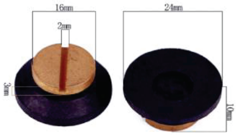

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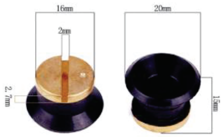

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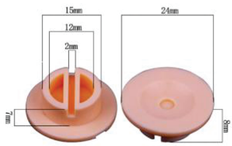

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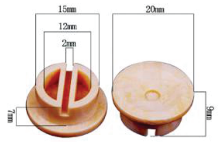

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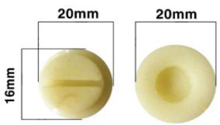

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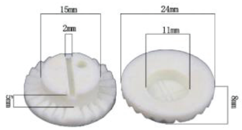

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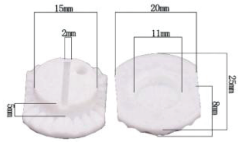

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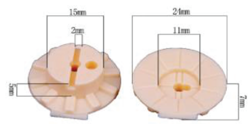

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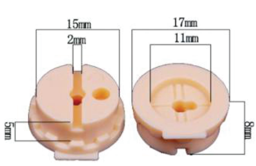
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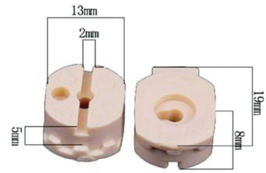
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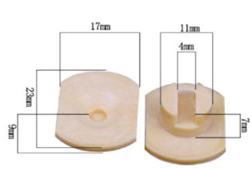
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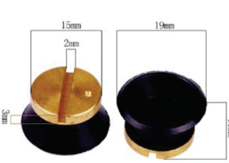
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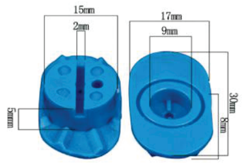
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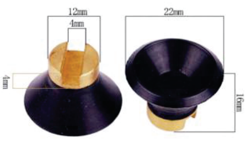
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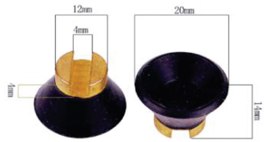
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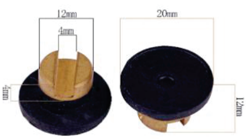
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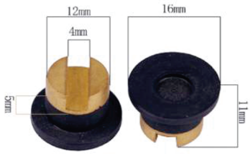
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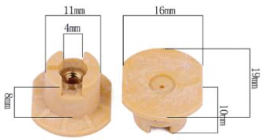
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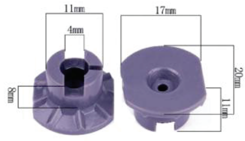
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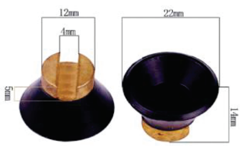
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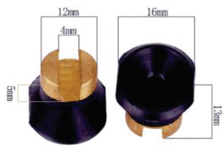
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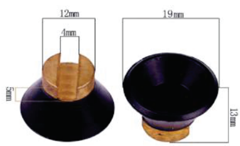
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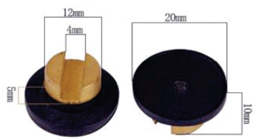
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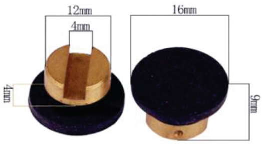
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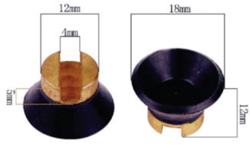
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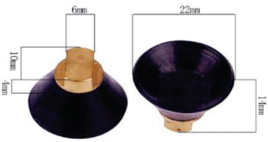
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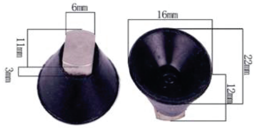
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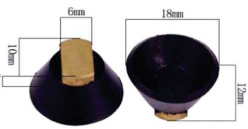
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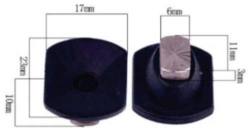
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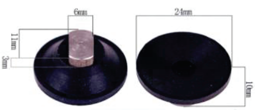
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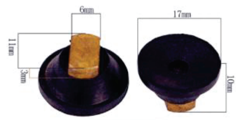
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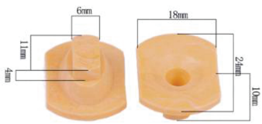
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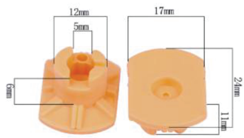
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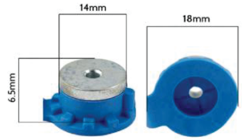
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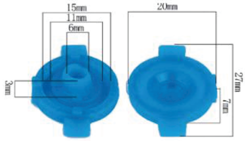
DURE™



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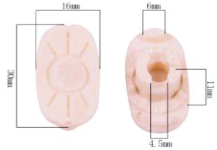

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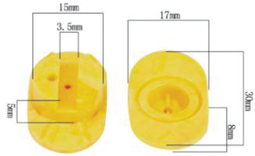

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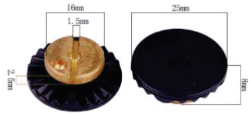

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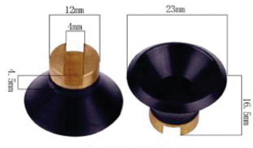

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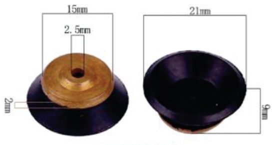

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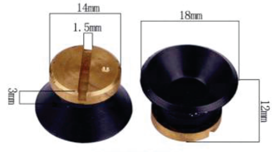

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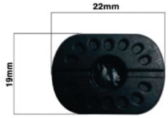

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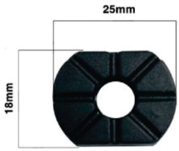

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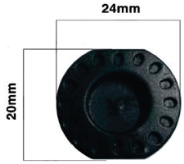

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LF-8266

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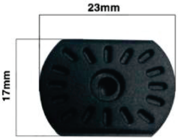

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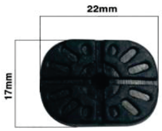

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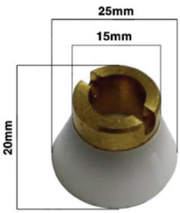

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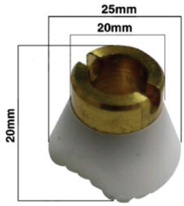

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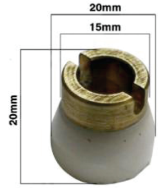

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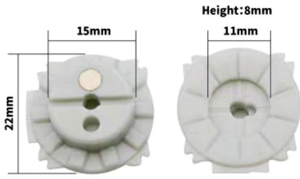
LF-8270-3

LF-8271

LF-8273



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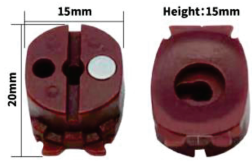

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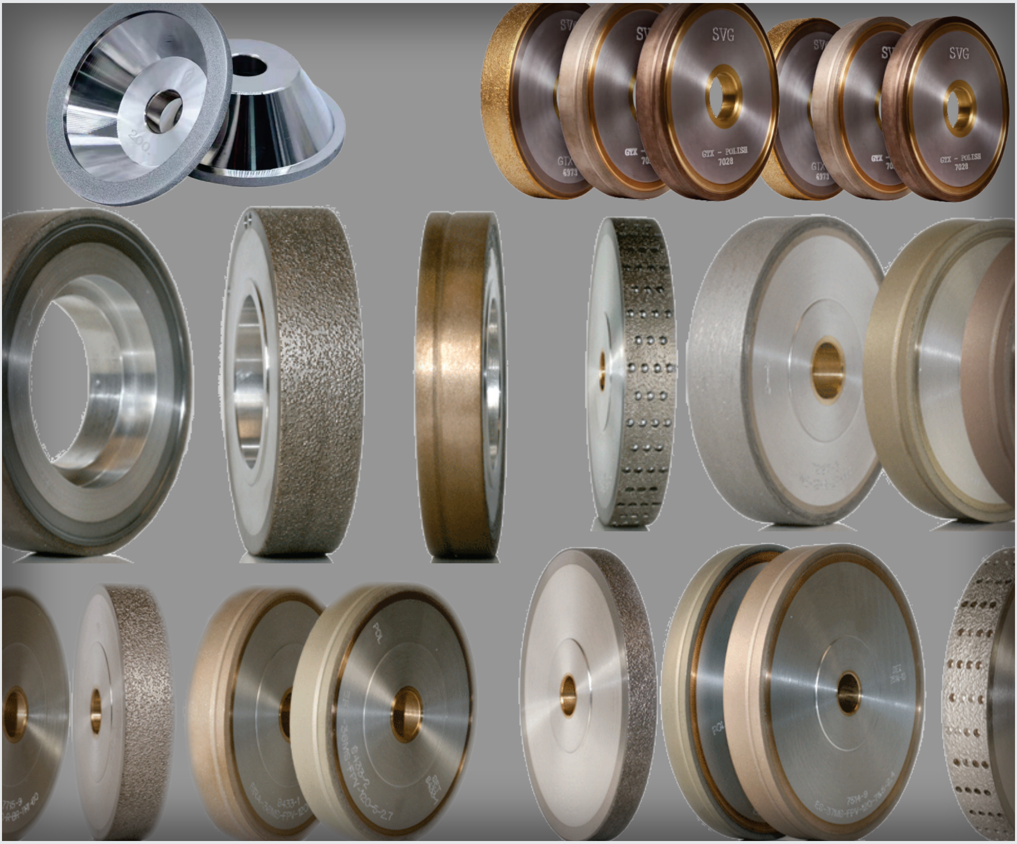
GRINDING WHEELS



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

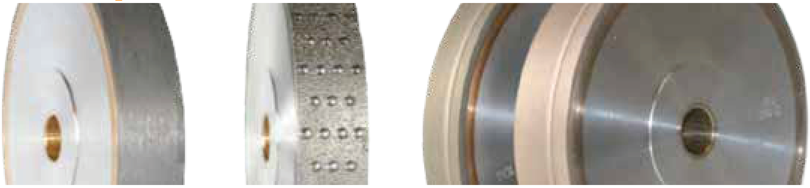
ROUGHING WHEELS FOR BRIOT ALTA, ALTA PRO, EMOTION

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&5-2.4	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

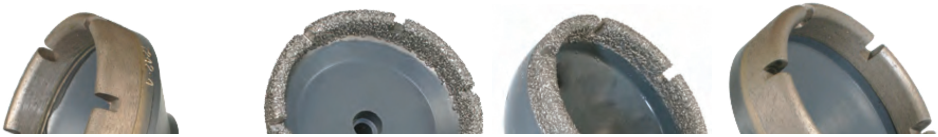
GROOVING BLADES

Item Number	Item Description	D x W x d x a0 (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°

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 pxk(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

NIDEK / SANTINELLI

WE PRODUCE FULL WHEEL SETS FOR NIDEK FOR A VARIETY OF MACHINE MODELS.

ROUGHING WHEELS FOR NIDEK

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 NIDEK

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

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

WECO

WE PRODUCE FULL WHEEL SETS FOR WECO FOR A VARIETY OF MACHINE MODELS.

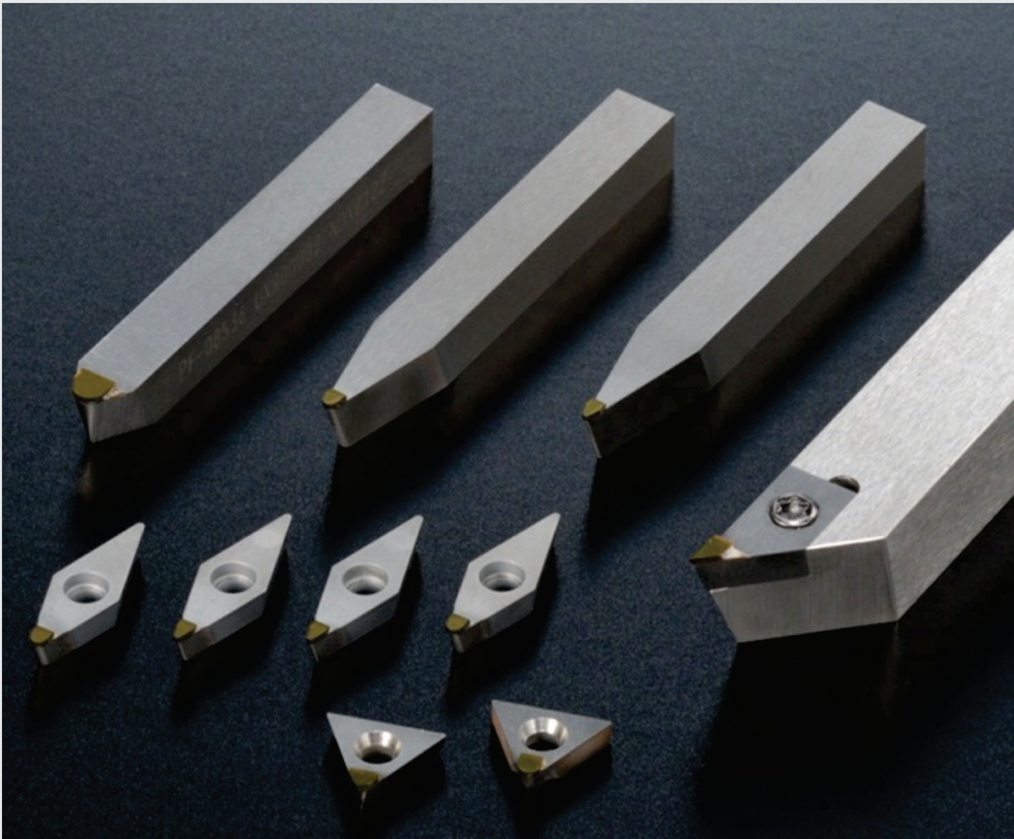
ROUGHING WHEELS FOR WECO

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

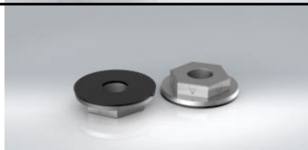
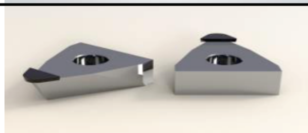
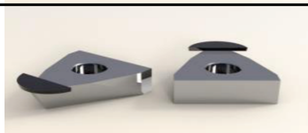
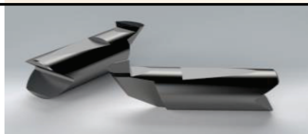
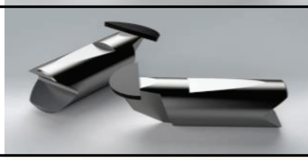
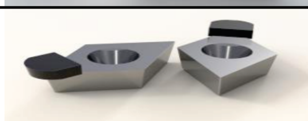
FINISHING AND POLISHING WHEELS FOR WECO

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

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

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SATISLOH</td><td></td></tr>
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MCC Inserts |Ultra | r2.0 mm
SATISLOH</td><td></td></tr>
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MCC Inserts |Ultra | r5.0 mm
SATISLOH</td><td></td></tr>
<tr><td>PRODUCT DESCRIPTION
MCC Inserts | r2.0 mm
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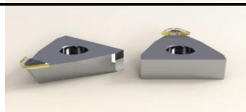
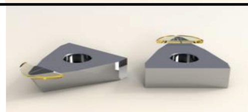
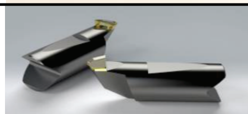
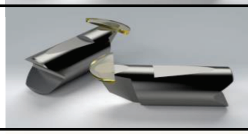
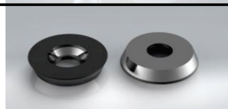
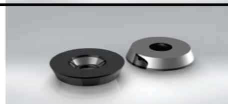
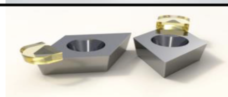
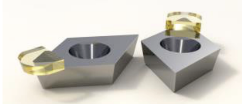
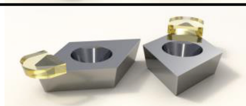
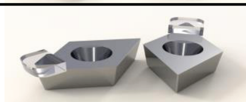
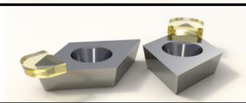
MCD Inserts | Orbit | r2.0 mm
SATISLOH</td><td></td></tr>
<tr><td>PRODUCT DESCRIPTION
MCD Inserts | Orbit | r5.0 mm
SATISLOH</td><td></td></tr>
<tr><td>PRODUCT DESCRIPTION
MCD Inserts | Ultra | r2.0 mm
SATISLOH</td><td></td></tr>
<tr><td>PRODUCT DESCRIPTION
MCD Inserts | Ultra | r5.0 mm
SATISLOH</td><td></td></tr>
<tr><td>PRODUCT DESCRIPTION
MCD Inserts | r2.0 mm
SATISLOH</td><td></td></tr>
<tr><td>PRODUCT DESCRIPTION
T-66 Holder | Left & Right Turn
SATISLOH</td><td></td></tr>
<tr><td>PRODUCT DESCRIPTION
Disc Holder | ABS - 32
SATISLOH</td><td></td></tr>
<tr><td>PRODUCT DESCRIPTION
MCC Inserts |Orbit | r2.0 mm
SATISLOH</td><td></td></tr>
</table>

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

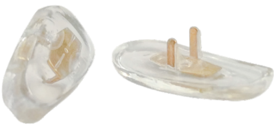
TEAR DROP AIR
- 15.0mm

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 1.4 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

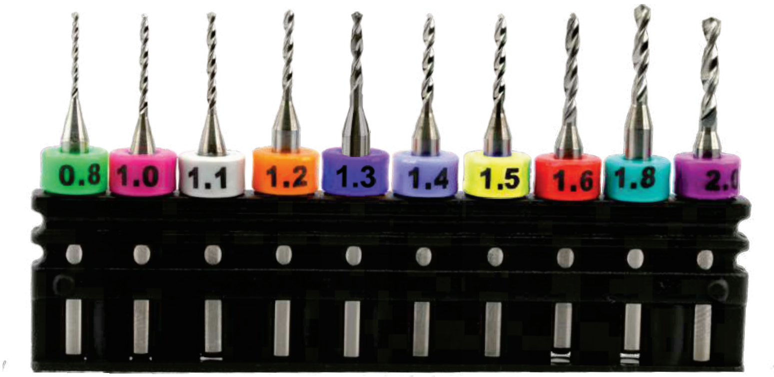
STAR NUT
- 1.4 x 2.5mm

SCREW WASHER

PLASTIC
- 2.5 x 1.4 x 0.3mm

OPTICAL TOOLS

TUNGSTEN DRILL BITS SET



D-A05
150


Φ0.8x1/8x7x38L mm


Φ1.0x1/8x8x38L mm


Φ1.1x1/8x8x38L mm


Φ1.2x1/8x8x38L mm


Φ1.3x1/8x8x38L mm


Φ1.4x1/8x8x38L mm


Φ1.5x1/8x8x38L mm


Φ1.6x1/8x10x38L mm

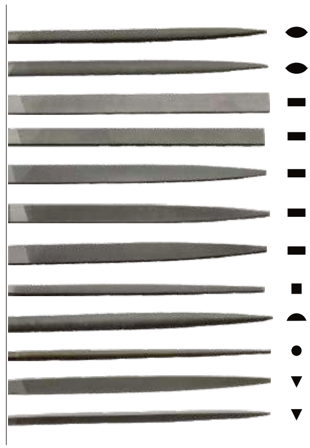

Φ1.8x1/8x10x38L mm


Φ2.0x1/8x10x38L mm

FILE SET

D-A62
60

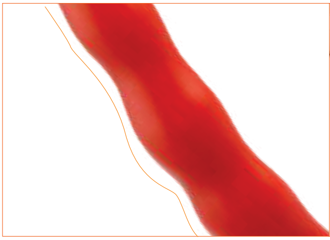
D-A64
100

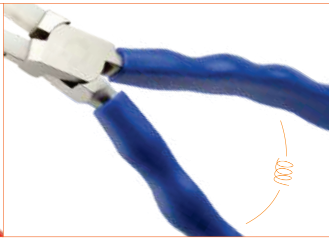


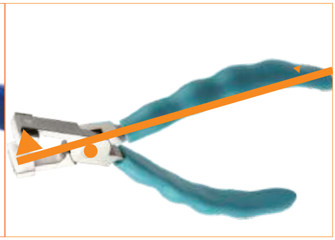
REAMER SET

D-A69

PLIERS







Easy to hold

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

Easy to move

With 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)

Removable pliers(horizontally and vertically)

Mounting pliers(horizontally)

Removable pliers(horizontally)

No. D-AB929
50

150mm
103.5g

No. D-AB930
50

150mm
104g

No. D-AB923
50

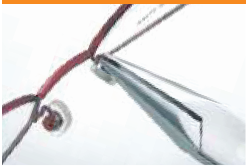
150mm
104g

No. D-AB924
50

150mm
104g

PRECISION TOOLS

Flat Semicircular Snipe Nose Plier



No. D-AC14
60

No. D-AB14
50

No. D-AC14: 159mm, 141g

No. D-AB14: 150mm, 102.5g

Curve Semicircular Snipe Nose Plier

No. D-AC15
60

No. D-AB15
50

No. D-AC15: 162mm, 122.5g

No. D-AB15: 150mm, 96g

Pad Adjusting Plier

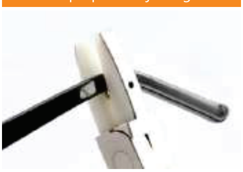
No. D-AC18
60

No. D-AB18
50

No. D-AC18: 162mm, 122.5g

No. D-AB18: 150mm, 96g

Multi-purpose Adjusting Plier



No. D-AB900
50

157mm, 127g

Multi-purpose Adjusting Plier

No. D-AC901
60

No. D-AB901
50

No. D-AC901: 157mm, 127g

No. D-AB901: 150mm, 110g

Pad Removable Plier

No. D-AB55
60

150mm, 110g

Front Cutter

No. D-AC47
70

No. D-AB47
60

141mm
125.5g

130mm
118.5g

Side Cutter

No. D-AB49
60

150mm
131g

143mm
118.5g

Screw Cutter

No. D-AB50
60

150mm
110g

Screwdriving Plier

No. D-AB36
50

140mm
112g

Inclination Plier

No. D-AC21
60

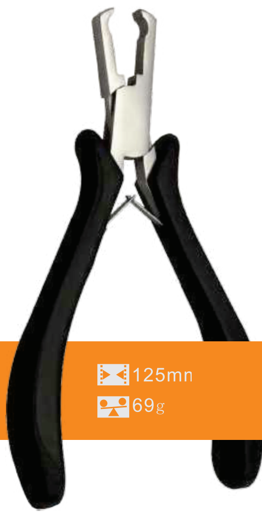
No. D-AB21
50

157mm
118.5g

150mm
107g

Plastic Cutter

No. D-AB931
50

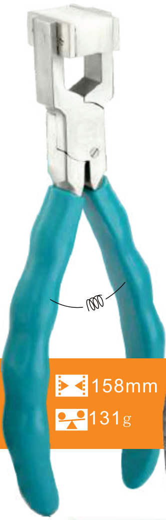


125mn
69g

DURE™

Nylon Eyewire Shaper

No. D-AC29
60

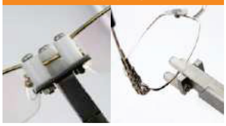


158mm
131g

No. D-AB29
50

150mm
131g

Trident Plier



No. D-AC59
70

163mm
135g

No. D-AB59
60

151mm
134g

Chipping Plier

No. D-AB37
60

150mm
110g

De-blocking Plier

No. D-AB38
60

140mm
112g

De-blocking Plier

No. D-AB39
60

157mm
118.5g

Lens Aligner

No. D -AB40
60

150mm
107g

DURE™

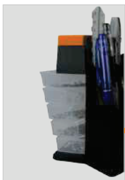
PLIER JAW

Picture	NO.		Pliers Picture	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
900

(Model No.)	Discription
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

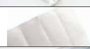


(Model No.)	Discription
D -AB901	Multi-purpose Adjusting Plier
D -AB14	Flat Semicircular Snipe Nose Plier
D -AB18	Pad Adjusting Plier
D -AB21	Inclination Plier
D -AB29	Nylon Eyewire Shaper
D -AB40	Lens Aligner
D -AB47	Screw Cutter
D -AB59	Trident Plier
D -A19C-1.6	Slot -1.6
D -A19C-1.8	Slot -1.8
D -A19C+1.5	Slot +1.5
D -A19C+1.8	Slot +1.8
D -A19C 232	Hex 2.32
D -A19C 282	Hex 2.82
D -B08	Plastic tool stand

DURE™

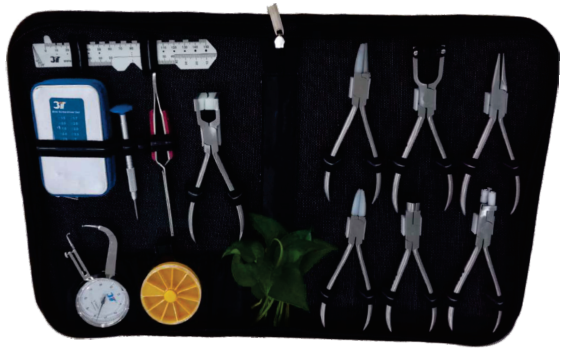
(Model No.)	Discription
D-AC901	Multi-purpose Adjusting Plier
D-AC14	Flat Semicircular Snipe Nose Plier
D-AC15	Curve Semicircular Snipe Nose Plier
D-AC18	Pad Adjusting Plier
D-AC21	Inclination Plier
D-AC29	Nylon Eyewire Shaper
D-AC47	Screw Cutter
D-AC59	Trident Plier
D-A19C-1.6	Slot -1.6
D-A19C-1.8	Slot -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 -B08	Plastic tool stand

SILHOUETTE PLIERS SET

(Product)	(QTY)	(Picture)	(Function)
1 Pressing Plier D-AB923	1 pc		
2 Pressing Plier D-AB924	1 pc		
3 Cutting Plier D-AB931	1 pc		
4 Spare Jaw D-AB923A	1 pr		Spare Jaws for Plier AB923
5 Spare Jaw D-AB924A	1 pr		Spare Jaws for Plier AB924
6 Drilling Holder D-019B	2 pcs		
7 Hole Pins	1 pc		To finish the silhouette pins hole after cutting
8 Silhouette Pins 14 * 7.0	10 pcs		Silhouette Pins
9 Skidproof Sticker	20 pcs		Anti-Skid and Avoid Scratching
10 Protection Sheet	10 pcs		Prevent the drilling hole edge broken

DURE™

(Product)	(Model No.)	(QTY)
Pressing Plier	D -AB929	1 pc
Pressing Plier	D -AB930	1 pc
Cutting Plier	D -AB931	1 pc
Spare Jaw	D -AB929A	1 pr
Spare Jaw	D -AB930A	1 pr
Drilling Holder	D -019B	2 pcs
Hole Pins		1 pc
Silhouette Pins	1.4x7.0	10 pcs
Skidproof Sticker		20 pcs
Protection Sheet		10 pcs



(Model No.)	Disctription
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

No: D-A19B-1.6	15
No: D-A19B-1.8	15
No: D-A19B-1.5+	15
No: D-A19B-1.8+	15
No: D-A19B-2.02	15
No: D-A19B-2.32	15
No: D-A19B-2.57	15
No: D-A19B-2.52	15
No: D-A19B-2.82	15

No: D-A19C-1.6	20
No: D-A19C-1.8	20
No: D-A19C-1.5+	20
No: D-A19C-1.8+	20
No: D-A19C-2.02	20
No: D-A19C-2.32	20
No: D-A19C-2.57	20
No: D-A19C-2.52	20
No: D-A19C-2.82	20

SCREWDRIVERS SET

D-A19L

D-A19J

DURE™

SCREWDRIVERS

D–002 30

Spec: -1.8 / +1.8

D–002A 25

Spec: -1.8 / +1.8

D–A04 25

Spec: -1.6 / -1.8 / +1.5 / +1.8

D–A04A 30

Spec: 3T / -1.8 / +1.5

No. D-A19S-1.6 5

No. D-A19S-1.8 5

No. D-A19S+1.5 5

No. D-A19S+1.8 5

No. D-A19S-2.02 5

No. D-A19S-2.32 5

No. D-A19S-2.57 5

No. D-A19S-2.52 5

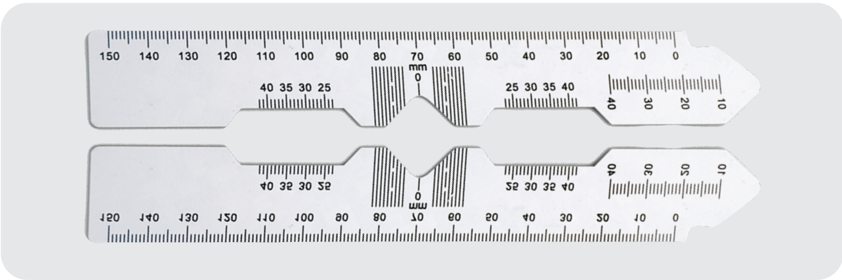
No. D-A19S-2.82 5

TWEEZER

D-A48F 25

D-A48A 15

PD RULER



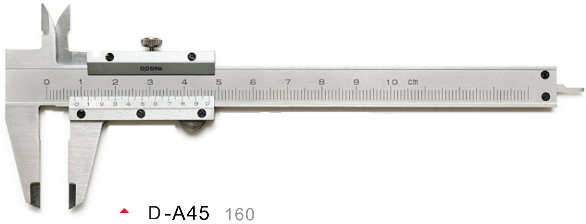
D-014A 4

0.8x26x170mm

3g

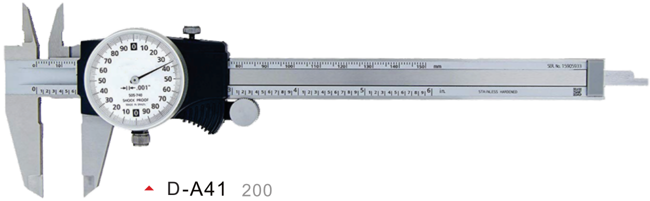
DURE™

CALIPER



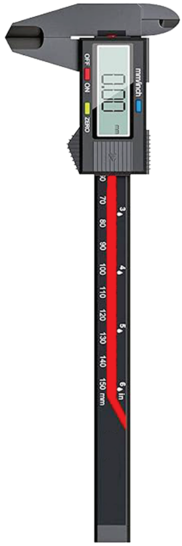
D-A45 160

Spec:0-150mm



D-A41 200

Spec:0-150mm



D-A43 200

Spec:0-100mm

RADIAN APPARATUS

Analog Base Curve Gauge

No. D-A12 140

Spec: N1.53

Analog Base Curve Gauge

No. D-A12X 185

Spec: N1.53/1.599/1.61/1.67

Digital Seg Gauge

No. D -A12D 200

Spec: N1.49/1.53/1.56/1.599/1.61/1.67/1.71/1.74

Analog lens thickness Gauge

D -A13 195

Spec: 0~10mm

137x85x37mm

162. 5g

Analog lens thickness Gauge

D -A13A 300

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.

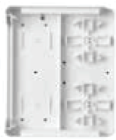
IMPORTANT

ue 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

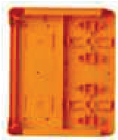


WHITE = 50-003-000/0140-08
ORANGE = 50-003-021/0140-08
RED = 50-003-032/0140-08
GREY = 50-003-009/0140-08
BLUE = 50-003-300/0104-08
GREEN = 50-003-356/0140-08
YELLOW = 50-003-102/0140-08
FURTHER JOB TRAYS AVAILABLE ON REQUEST

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

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™

Reflective index: 1.56

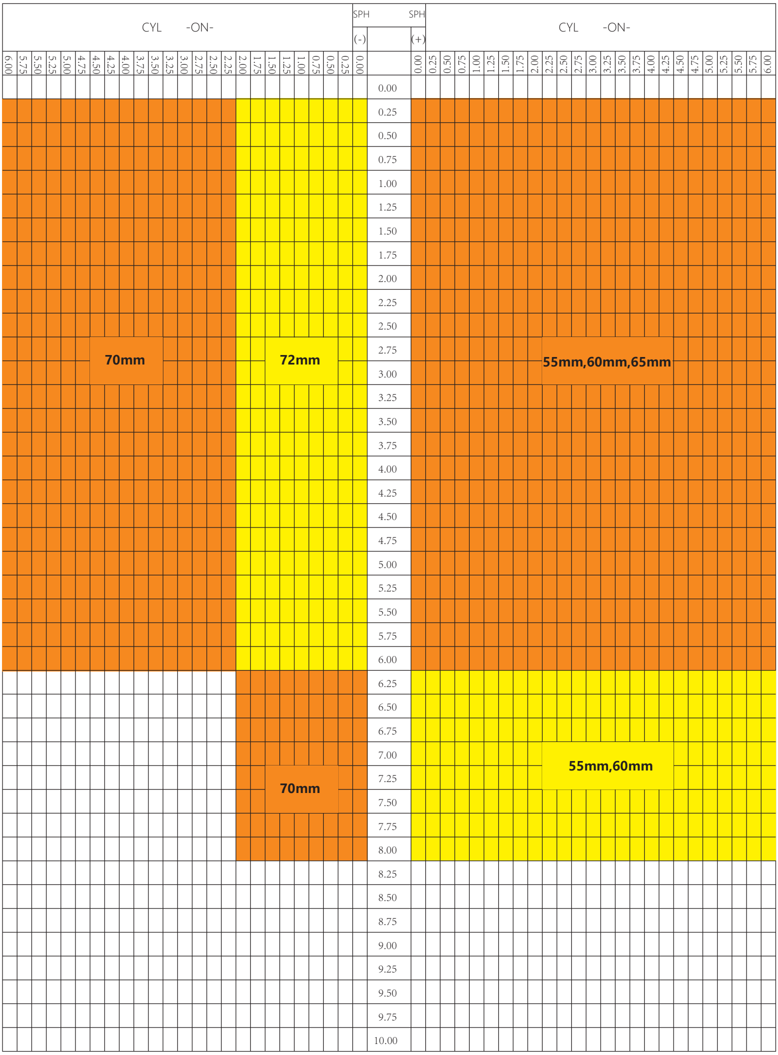
Specific gravity: 1.28

Abbe value: 38

Diameters: 65/70/72mm

1.56 SPHERICAL
DURE™

1.56 Middle Index Lens



Reflective index: 1.60

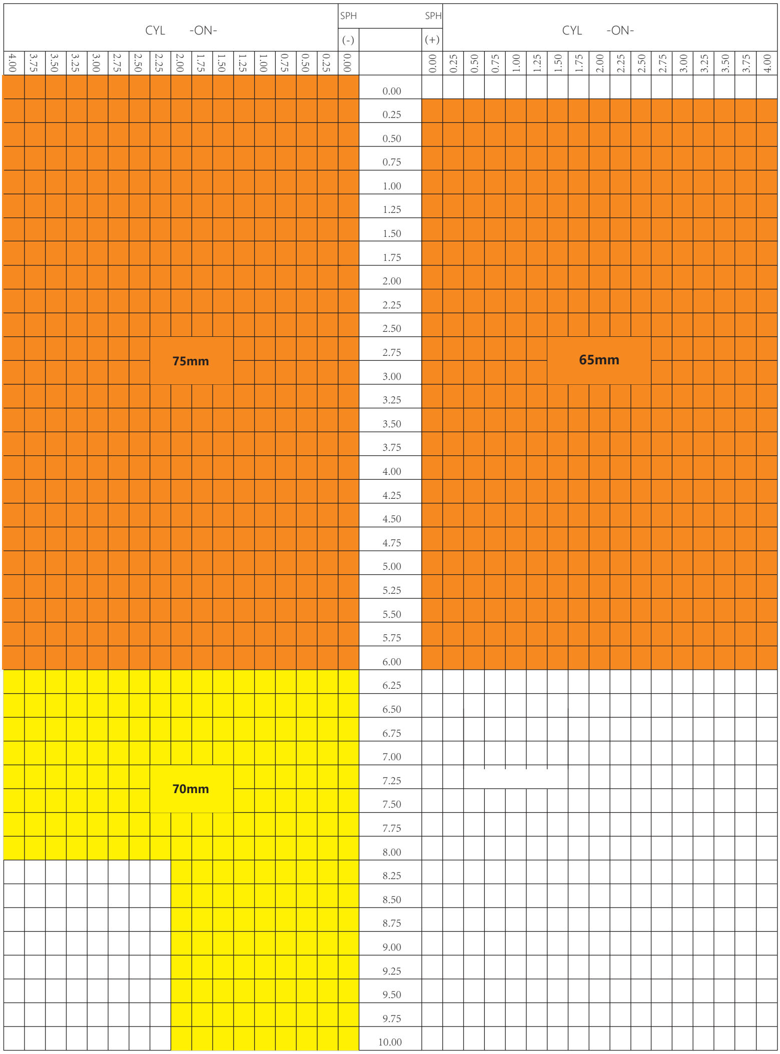
Specific gravity: 1.30

Abbe value: 32

Diameters: 65/70/75mm

1.60 ASPHERICAL

1.60 KOC Lens



DURE™

Reflective index: 1.60

Specific gravity: 1.30

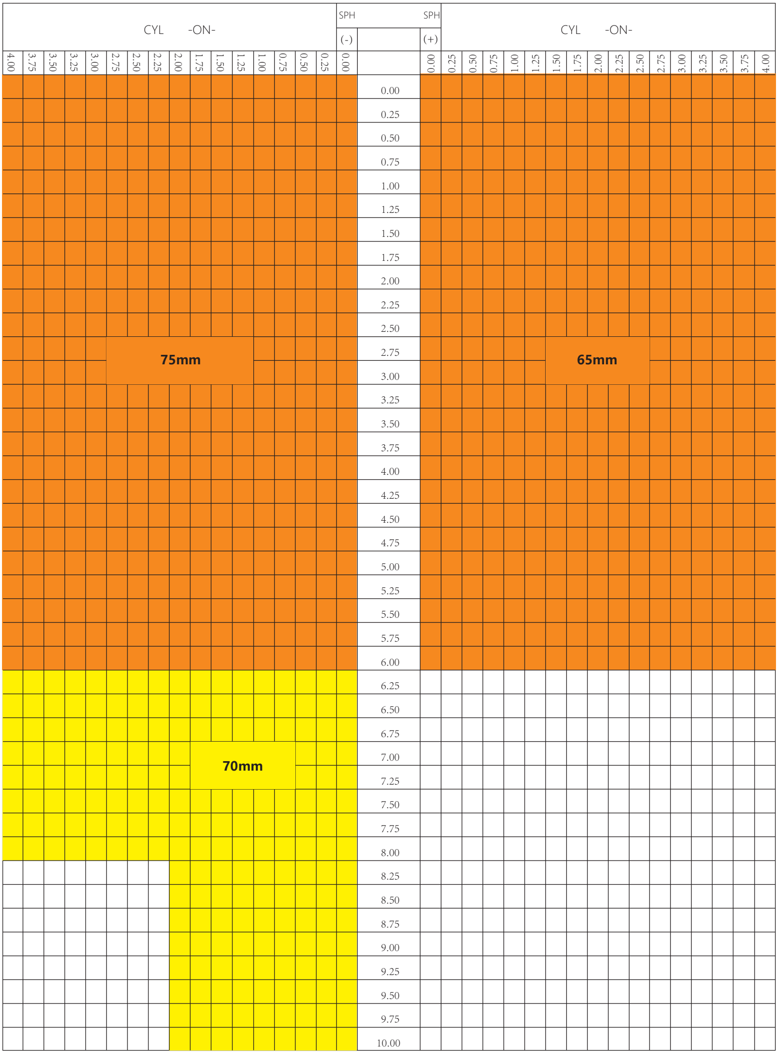
Abbe value: 41

Diameters: 65/70/75mm

1.60 SPHERICAL

DURE™

1.60 MR8 Spheric Lens



DURE™

Reflective index: 1.60

Specific gravity: 1.30

Abbe value: 41

Diameters: 65/70/75mm

1.60 ASPHERICAL
DURE™

1.60 MR8 Aspheric Lens

CYL -ON-																SPH (-)		SPH (+)	CYL -ON-															
4.00	3.75	3.50	3.25	3.00	2.75	2.50	2.25	2.00	1.75	1.50	1.25	1.00	0.75	0.50	0.25	0.00		0.00	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00
																	0.00																	
																	0.25																	
																	0.50																	
																	0.75																	
																	1.00																	
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																	1.75																	
																	2.00																	
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																	2.50																	
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																	3.00																	
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																	6.75																	
											70mm						7.00																	
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																	8.75																	
																	9.00																	
																	9.25																	
																	9.50																	
																	9.75																	
																	10.00																	

Reflective index: 1.67

Specific gravity: 1.35

Abbe value: 32

Diameters: 65/70/75mm

1.67 ASPHERICAL

DURE™

1.67 MR7 Aspheric Lens

CYL -ON-																SPH (-)		SPH (+)	CYL -ON-															
4.00	3.75	3.50	3.25	3.00	2.75	2.50	2.25	2.00	1.75	1.50	1.25	1.00	0.75	0.50	0.25	0.00		0.00	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00
																	0.00																	
																	0.25																	
																	0.50																	
																	0.75																	
																	1.00																	
																	1.25																	
																	1.50																	
																	1.75																	
																	2.00																	
																	2.25																	
																	2.50																	
																	2.75																	
								75mm									3.00					65mm												
																	3.25																	
																	3.50																	
																	3.75																	
																	4.00																	
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																	7.75																	
																	8.00																	
								70mm									8.25																	
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																	12.00																	
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																	14.00																	
																	14.50																	
																	15.00																	

DURE™

Reflective index: 1.71

Specific gravity: 1.47

Abbe value: 33

Diameters: 70/75mm

1.71 ASPHERICAL
DURE™

1.71 Aspheric Lens

CYL -ON-

4.00	3.75	3.50	3.25	3.00	2.75	2.50	2.25	2.00	1.75	1.50	1.25	1.00	0.75	0.50	0.25	0.00	(-) SPH
																	0.00
																	0.25
																	0.50
																	0.75
																	1.00
																	1.25
																	1.50
																	1.75
																	2.00
																	2.25
																	2.50
																	2.75
																	3.00
																	3.25
																	3.50
																	3.75
																	4.00
																	4.25
																	4.50
											75mm						4.75
																	5.00
																	5.25
																	5.50
																	5.75
																	6.00
																	6.25
																	6.50
																	6.75
																	7.00
																	7.25
																	7.50
																	7.75
																	8.00
																	8.25
																	8.50
																	8.75
											70mm						9.00
																	9.25
																	9.50
																	9.75
																	10.00

CYL -ON-

4.00	3.75	3.50	3.25	3.00	2.75	2.50	2.25	2.00	1.75	1.50	1.25	1.00	0.75	0.50	0.25	0.00	(-) SPH
																	10.00
																	10.25
																	10.50
																	10.75
																	11.00
											70mm						11.25
																	11.50
																	11.75
																	12.00
																	12.25
																	12.50
																	12.75
																	13.00
																	13.25
																	13.50
																	13.75
																	14.00
																	14.25
																	14.50
																	14.75
																	15.00

Reflective index: 1.74

Specific gravity: 1.47

Abbe value: 33

Diameters: 70/75mm

1.74 ASPHERICAL

1.74 Aspheric Lens

CYL -ON-

4.00	3.75	3.50	3.25	3.00	2.75	2.50	2.25	2.00	1.75	1.50	1.25	1.00	0.75	0.50	0.25	0.00	(-) SPH
																	0.00
																	0.25
																	0.50
																	0.75
																	1.00
																	1.25
																	1.50
																	1.75
																	2.00
																	2.25
																	2.50
																	2.75
																	3.00
																	3.25
																	3.50
																	3.75
																	4.00
																	4.25
																	4.50
												75mm					4.75
																	5.00
																	5.25
																	5.50
																	5.75
																	6.00
																	6.25
																	6.50
																	6.75
																	7.00
																	7.25
																	7.50
																	7.75
																	8.00
																	8.25
																	8.50
																	8.75
												70mm					9.00
																	9.25
																	9.50
																	9.75
																	10.00

CYL -ON-

4.00	3.75	3.50	3.25	3.00	2.75	2.50	2.25	2.00	1.75	1.50	1.25	1.00	0.75	0.50	0.25	0.00	(-) SPH
																	10.00
																	10.25
																	10.50
																	10.75
												70mm					11.00
																	11.25
																	11.50
																	11.75
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																	12.25
																	12.50
																	12.75
																	13.00
																	13.25
																	13.50
																	13.75
																	14.00
																	14.25
																	14.50
																	14.75
																	15.00

Reflective index: 1.586

Specific gravity: 1.20

Abbe value: 32

Diameters: 65/70mm

1.59 POLYCARBONATE

Polycarbonate Lens

CYL -ON-																SPH (-)		SPH (+)	CYL -ON-															
4.00	3.75	3.50	3.25	3.00	2.75	2.50	2.25	2.00	1.75	1.50	1.25	1.00	0.75	0.50	0.25	0.00		0.00	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00
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																	9.50																	
																	9.75																	
																	10.00																	

Reflective index: 1.56

Specific gravity: 1.15

Abbe value: 41

Diameters: 65/70mm

1.56 PHOTO GREY

1.56 PHOTO BROWN

1.56 Q-Change V Photochromic Lens

CYL -ON-																									SPH
																								(-)	
6.00	5.75	5.50	5.25	5.00	4.75	4.50	4.25	4.00	3.75	3.50	3.25	3.00	2.75	2.50	2.25	2.00	1.75	1.50	1.25	1.00	0.75	0.50	0.25	0.00	
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																									2.00
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																									2.50
													70mm												2.75
																									3.00
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																									5.25
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																									8.50
																									8.75
																									9.00
																									9.25
																									9.50
																									9.75
																									10.00

SPH	CYL -ON-																								
	(+)																								
	0.00	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.75	6.00
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9.50																									
9.75																									
10.00																									

Reflective index: 1.60

Specific gravity: 1.30

Abbe value: 41

Diameters: 65/70/75mm

1.60 PHOTOCHROMIC

DURE™

1.60 Q-Change Ⅶ Photochromic Lens

CYL -ON-																SPH (-)		SPH (+)	CYL -ON-																
4.00	3.75	3.50	3.25	3.00	2.75	2.50	2.25	2.00	1.75	1.50	1.25	1.00	0.75	0.50	0.25	0.00		0.00	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00
																	0.00																	
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								75mm									2.75									65mm								
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																	9.50																	
																	9.75																	
																	10.00																	

Reflective index: 1.67

Specific gravity: 1.35

Abbe value: 32

Diameters: 65/70/75mm

1.67 PHOTOCHROMIC

1.67 Q-Change Ⅶ Photochromic Lens

CYL -ON-																SPH (-)		SPH (+)	CYL -ON-															
4.00	3.75	3.50	3.25	3.00	2.75	2.50	2.25	2.00	1.75	1.50	1.25	1.00	0.75	0.50	0.25	0.00		0.00	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00
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																	0.50																	
																	0.75																	
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																	14.00																	
																	14.50																	
																	15.00																	

Blue Block

Reflective index: 1.56

Specific gravity: 1.28

Abbe value: 40

Diameters: 65/70mm

1.56 UV 420

1.56 UV 420 Blue Block Lens

CYL -ON-																SPH (-)		SPH (+)	CYL -ON-																
4.00	3.75	3.50	3.25	3.00	2.75	2.50	2.25	2.00	1.75	1.50	1.25	1.00	0.75	0.50	0.25	0.00		0.00	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00
																	0.00																	
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												70mm					1.75																	
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																	9.50																	
																	9.75																	
																	10.00																	

Reflective index: 1.60

Specific gravity: 1.30

Abbe value: 41

Diameters: 65/70/75mm

1.60 UV 420

1.60 UV 420 Blue Block Lens

CYL -ON-																SPH (-)		SPH (+)	CYL -ON-															
4.00	3.75	3.50	3.25	3.00	2.75	2.50	2.25	2.00	1.75	1.50	1.25	1.00	0.75	0.50	0.25	0.00		0.00	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00
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																	1.75																	
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																	2.25																	
																	2.50																	
								75mm									2.75									65mm								
																	3.00																	
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																	6.75																	
											70mm						7.00																	
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																	9.25																	
																	9.50																	
																	9.75																	
																	10.00																	

Reflective index: 1.67

Specific gravity: 1.35

Abbe value: 32

Diameters: 65/70/75mm

1.67 UV 420

1.67 UV 420 Blue Block Lens

CYL -ON-																SPH (-)		SPH (+)	CYL -ON-															
4.00	3.75	3.50	3.25	3.00	2.75	2.50	2.25	2.00	1.75	1.50	1.25	1.00	0.75	0.50	0.25	0.00		0.00	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00
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																	15.00																	

Reflective index: 1.67

Specific gravity: 1.35

Abbe value: 32

Diameters: 65/70/75mm

1.67 UV 420

1.67 UV 420 Blue Block Lens

CYL -ON-																SPH (-)		SPH (+)	CYL -ON-															
4.00	3.75	3.50	3.25	3.00	2.75	2.50	2.25	2.00	1.75	1.50	1.25	1.00	0.75	0.50	0.25	0.00		0.00	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00
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																	13.50																	
																	14.00																	
																	14.50																	
																	15.00																	

DURE™

FLEX+

LENS

DURE™

Reflective index: 1.56

Specific gravity: 1.16

Abbe value: 44

Diameters: 65/70/75mm

1.56 Flex ++

DURE™

1.56 Flex++ Lens

CYL -ON-																SPH (-)		SPH (+)	CYL -ON-															
4.00	3.75	3.50	3.25	3.00	2.75	2.50	2.25	2.00	1.75	1.50	1.25	1.00	0.75	0.50	0.25	0.00		0.00	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00
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																	9.75																	
																	10.00																	

Reflective index: 1.60

Specific gravity: 1.31

Abbe value: 41

Diameters: 65/70/75mm

1.56 Flex ++

1.60 Flex++ Lens

CYL -ON-																SPH (-)		SPH (+)	CYL -ON-															
4.00	3.75	3.50	3.25	3.00	2.75	2.50	2.25	2.00	1.75	1.50	1.25	1.00	0.75	0.50	0.25	0.00		0.00	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00
																	0.00																	
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								75mm									2.75									65mm								
																	3.00																	
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																	7.00																	
								70mm									7.25																	
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																	9.25																	
																	9.50																	
																	9.75																	
																	10.00																	

Available Design:

Flat Top	70/28
Round Top	70/28 70/24 70/45
Blended Top	70/28 70/26 70/24

Material	1.50, 1.56, 1.56 Photochromic
Blank Size	70mm

Finished Bifocal Lens

SPH	ADD POWER(+)										
(+)	+1.00	+1.25	+1.50	+1.75	+2.00	+2.25	+2.50	+2.75	+3.00	+3.25	+3.50
+3.00											
+2.75											
+2.50											
+2.25											
+2.00											
+1.75											
+1.50											
+1.25											
+1.00											
+0.75											
+0.50											
+0.25											
0.00											
-0.25											
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-0.75											
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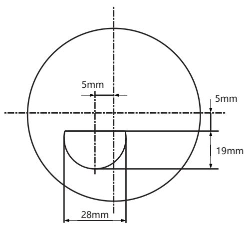
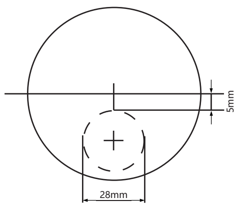
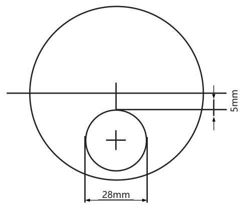
-1.25											
-1.50											
-1.75											
-2.00											



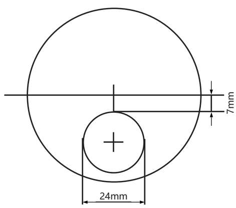
Flat Top Bifocal Seg 28mm



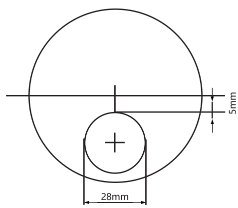
Blended Bifocal Seg 28mm



Flat Top Bifocal Seg 28mm



Flat Top Bifocal Seg 24mm



Flat Top Bifocal Seg 28mm

Available Design:

1.50 Regular Corridor Progressive

1.56 Regular Corridor Progressive

1.50 Short Corridor Progressive

1.56 Short Corridor Progressive

1.56 Photochromic Short Corridor Progressive

Material 1.50, 1.56, 1.56 Photochromic

Diameter:70/75mm

Corridor:12/14/17mm

Finished Bifocal Lens

SPH (+)	ADD POWER(+)										
	+1.00	+1.25	+1.50	+1.75	+2.00	+2.25	+2.50	+2.75	+3.00	+3.25	+3.50
+3.00											
+2.75											
+2.50											
+2.25											
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-1.50											
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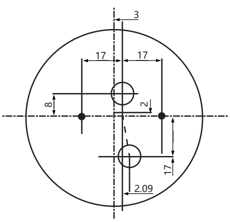
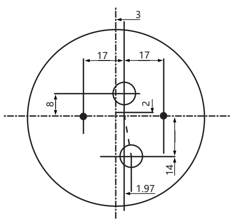
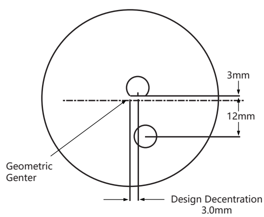
-2.00											



17mm Corridor Progressive



14mm Corridor Progressive



14mm Corridor Progressive

1.50 65mm Single Vision Semi-Finished Lens

Marterial Refractive Index=1.498							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.498	1.530				
65	0	0.01	0.01	49800.00	500	8.40	0.01
65	100	1.48	1.58	336.49	500	10.20	0.95
65	200	2.05	2.18	242.93	500	10.50	1.30
65	300	2.87	3.05	173.52	500	9.60	1.83
65	400	3.53	3.76	141.08	500	9.60	2.25
65	500	4.55	4.84	109.45	500	11.10	2.91
65	600	5.68	6.04	87.68	500	7.90	3.64
65	700	6.65	7.08	74.89	500	9.30	4.29
65	800	7.67	8.16	64.93	500	10.30	4.99
65	900	8.66	9.22	57.51	500	11.45	5.71
65	1000	9.68	10.30	51.45	500	12.80	6.40
65	1200	11.87	12.63	41.95	500	14.80	8.01

*C.T Tolerance：+1.0mm　*Diameter Tolerance：±0.4mm　*Curve Tolerance：±0.05

1.50 70mm Single Vision Semi-Finished Lens

Marterial Refractive Index=1.498							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.498	1.530				
70	0	0.01	0.01	49800.00	500	7.90	0.01
70	100	1.48	1.58	336.49	500	9.50	0.95
70	200	2.05	2.18	242.93	500	10.00	1.30
70	300	2.87	3.05	173.52	500	9.00	1.83
70	400	3.53	3.76	141.08	500	10.10	2.25
70	500	4.55	4.84	109.45	500	10.80	2.91
70	600	5.68	6.04	87.68	500	8.10	3.64
70	700	6.65	7.08	74.89	500	9.30	4.29
70	800	7.67	8.16	64.93	500	10.80	4.99
70	900	8.66	9.22	57.51	500	11.80	5.71
70	1000	9.68	10.30	51.45	500	12.80	6.40

*C.T Tolerance：+1.0mm　*Diameter Tolerance：±0.4mm　*Curve Tolerance：±0.05

1.50 75mm Single Vision Semi-Finished Lens

Marterial Refractive Index=1.498							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.498	1.530				
75	200	2.05	2.18	242.93	500	10.10	1.30
75	300	2.87	3.05	173.52	500	10.10	1.83
75	400	3.53	3.76	141.08	500	10.10	2.25
75	500	4.55	4.84	109.45	500	11.30	2.91
75	600	5.68	6.04	87.68	500	8.10	3.64
75	700	6.65	7.08	74.89	500	9.40	4.29
75	800	7.67	8.16	64.93	500	10.90	4.99

*C.T Tolerance：+1.0mm　*Diameter Tolerance：±0.4mm　*Curve Tolerance：±0.05

1.50 80mm Single Vision Semi-Finished Lens

Marterial Refractive Index=1.498							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.498	1.530				
80	200	2.05	2.18	242.93	500	7.80	1.30
80	400	3.53	3.76	141.08	500	9.90	2.25
80	500	4.55	4.84	109.45	500	9.90	2.91
80	600	5.68	6.04	87.68	500	8.10	3.64
80	700	6.65	7.08	74.89	500	9.00	4.29
80	800	7.67	8.16	64.93	500	11.80	4.99

*C.T Tolerance：+1.0mm　*Diameter Tolerance：±0.4mm　*Curve Tolerance：±0.05

1.56 65mm Single Vision Semi-Finished Lens

Marterial Refractive Index=1.552							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.552	1.530				
65	0	0.02	0.02	27600.00	500	8.40	0.01
65	100	1.63	1.57	338.65	500	10.20	0.95
65	200	2.30	2.21	240.00	500	10.50	1.30
65	300	3.17	3.04	174.13	500	9.60	1.83
65	400	3.91	3.75	141.18	500	9.60	2.25
65	500	5.04	4.84	109.52	500	11.10	2.91
65	600	6.29	6.04	87.76	500	7.90	3.64
65	700	7.38	7.09	74.80	500	9.30	4.29
65	800	8.49	8.15	65.02	500	10.30	4.99
65	900	9.58	9.20	57.62	500	11.45	5.71
65	1000	10.72	10.29	51.49	500	12.80	6.40
65	1200	13.10	12.58	42.14	500	14.80	8.01

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

1.56 70mm Single Vision Semi-Finished Lens

Marterial Refractive Index=1.552							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.552	1.530				
70	0	0.02	0.02	27600.00	500	7.90	0.01
70	100	1.63	1.57	338.65	500	9.50	0.95
70	200	2.30	2.21	240.00	500	10.00	1.30
70	300	3.17	3.04	174.13	500	9.00	1.83
70	400	3.91	3.75	141.18	500	10.10	2.25
70	500	5.04	4.84	109.52	500	10.80	2.91
70	600	6.29	6.04	87.76	500	8.10	3.64
70	700	7.38	7.09	74.80	500	9.30	4.29
70	800	8.49	8.15	65.02	500	10.80	4.99
70	900	9.58	9.20	57.62	500	11.80	5.71
70	1000	10.72	10.29	51.49	500	12.80	6.40

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

1.56 75mm Single Vision Semi-Finished Lens

Marterial Refractive Index=1.552							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.552	1.530				
75	200	2.30	2.21	240.00	500	10.10	1.30
75	400	3.91	3.75	141.18	500	10.10	2.25
75	500	5.04	4.84	109.52	500	11.30	2.91
75	600	6.29	6.04	87.76	500	8.10	3.64
75	700	7.38	7.09	74.80	500	9.40	4.29
75	800	8.49	8.15	65.02	500	10.90	4.99

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

1.56 80mm Single Vision Semi-Finished Lens

Marterial Refractive Index=1.552							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.552	1.530				
80	200	2.30	2.21	240.00	500	7.80	1.30
80	400	3.91	3.75	141.18	500	9.90	2.25
80	500	5.04	4.84	109.52	500	9.90	2.91
80	600	6.29	6.04	87.76	500	8.10	3.64
80	700	7.38	7.09	74.80	500	9.40	4.29
80	800	8.49	8.15	65.02	500	11.80	4.99

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

1.60 MR8 75mm Single Vision Semi-Finished Lens

Marterial Refractive Index=1.594							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.594	1.530				
75	Plano	0.00	0.00	∝	570	6.00	0.00
75	100	0.98	0.87	540.82	570	7.50	0.58
75	200	1.97	1.76	269.04	570	8.70	1.16
75	300	2.98	2.66	177.85	570	8.00	1.77
75	400	3.98	3.55	133.17	570	9.20	2.37
75	500	4.98	4.44	106.43	570	10.50	2.98
75	600	6.00	5.35	88.33	570	8.00	3.61
75	700	6.86	6.12	77.26	570	9.10	4.16
75	800	8.04	7.17	65.92	570	11.10	4.92
75	900	8.93	7.97	59.35	570	12.70	5.52
75	1000	10.03	8.95	52.84	570	14.60	6.29

*C.T Tolerance：+1.0mm　*Diameter Tolerance：±0.4mm　*Curve Tolerance：±0.05

1.60 MR8 80mm Single Vision Semi-Finished Lens

Marterial Refractive Index=1.594							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.594	1.530				
80	Plano	0.00	0.00	26500.00	650	4.70	0.01
80	100	1.00	0.89	530.00	650	6.20	0.59
80	200	1.99	1.77	266.33	650	6.60	1.18
80	300	2.99	2.65	177.26	650	6.00	1.77
80	400	3.99	3.54	132.83	650	7.80	2.37
80	500	4.99	4.43	106.21	650	7.40	2.98
80	600	6.00	5.32	88.33	570	7.30	3.61
80	700	6.89	6.12	76.92	570	8.90	4.18
80	800	8.04	7.14	65.92	570	10.80	4.92
80	900	8.94	7.94	59.28	570	12.80	5.53
80	1000	10.03	8.90	52.84	570	15.70	6.29

*C.T Tolerance：+1.0mm　*Diameter Tolerance：±0.4mm　*Curve Tolerance：±0.05

1.60 MR8 70mm Aspheric Single Vision Semi-Finished Lens

Marterial Refractive Index=1.594							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.594	1.530				
70	50	0.47	0.42	1127.66	650	9.50	0.28
70	100	1.00	0.89	530.00	650	6.40	0.59
70	200	1.96	1.75	270.41	650	6.50	1.16
70	300	3.00	2.68	176.67	650	6.00	1.78
70	400	3.98	3.55	133.17	650	7.50	2.37
70	500	5.06	4.51	104.74	650	5.50	3.03
70	600	6.24	5.57	84.94	570	7.00	3.76
70	700	6.98	6.23	75.93	570	7.70	4.23
70	800	7.96	7.10	66.58	570	9.20	4.87
70	900	9.02	8.05	58.76	570	11.20	5.58

*C.T Tolerance：+1.0mm　*Diameter Tolerance：±0.4mm　*Curve Tolerance：±0.05

DURE™

1.67 75/70mm Single Vision Semi-Finished Lens

Marterial Refractive Index=1.665							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.665	1.530				
75	50	0.59	0.47	1127.12	950	5.50	0.28
75	100	1.70	1.35	391.18	810	6.50	0.80
75	200	2.38	1.90	279.41	675	6.50	1.12
75	300	3.68	2.93	180.71	540	6.50	1.74
75	400	4.26	3.40	156.10	540	6.50	2.01
75	500	4.87	3.88	136.55	540	7.00	2.31
75	600	6.10	4.86	109.02	675	7.00	2.91
75	700	7.37	5.87	90.23	675	7.30	3.53
75	800	8.35	6.65	79.64	675	8.50	4.03
70	900	9.63	7.68	69.06	810	8.20	4.68
70	1000	10.73	8.55	61.98	810	9.50	5.27
70	1100	11.52	9.18	57.73	810	9.50	5.69
70	1300	13.82	11.01	48.12	950	11.20	7.00

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

1.50 70/28mm Flat Top Semi-Finished Lens

Marterial Refractive Index=1.498							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.498	1.530				
70/28	50	0.54	0.57	981.48	570	10.00	0.32
70/28	200	2.20	2.34	262.38	570	11.60	1.19
70/28	400	3.92	4.16	135.20	570	6.80	2.33
70/28	500	5.06	5.37	104.74	570	8.40	3.03
70/28	600	6.06	7.01	87.46	570	9.50	3.65
70/28	700	7.07	7.51	74.96	570	10.50	4.29
70/28	800	8.05	8.55	65.84	570	10.00	4.93
70/28	1000	10.09	10.71	52.53	570	13.00	6.33

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

1.56 70/28mm Flat Top Semi-Finished Lens

Marterial Refractive Index=1.552							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.552	1.530				
70/28	200	2.41	2.31	229.05	500	5.00	1.44
70/28	400	4.30	4.13	128.37	500	7.00	2.53
70/28	600	6.29	6.04	87.76	500	7.00	3.73
70/28	800	8.48	8.14	65.09	500	9.00	5.06

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

1.60 70/28mm Flat Top Semi-Finished Lens

Marterial Refractive Index=1.594							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.594	1.530				
70/28	50	0.53	0.47	1088.22	650	6.70	0.31
70/28	200	2.03	1.81	261.02	650	5.70	1.20
70/28	400	3.92	3.50	135.29	650	6.00	2.33
70/28	600	6.04	5.39	87.75	570	7.20	3.64
70/28	800	8.04	7.17	65.92	570	10.00	4.92

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

1.50 70/28mm Round Top Semi-Finished Lens

Marterial Refractive Index=1.498							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.498	1.530				
70/28	200	1.99	2.11	266.33	570	6.00	1.18
70/28	400	3.93	4.17	134.86	570	7.50	2.34
70/28	600	6.03	6.40	87.89	570	8.80	3.63
70/28	800	8.06	8.56	65.76	570	9.50	4.94

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

1.56 70/28mm Round Top Semi-Finished Lens

Marterial Refractive Index=1.552							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.552	1.530				
70/28	200	2.02	1.94	273.27	500	5.00	1.21
70/28	400	4.29	4.12	128.67	500	7.00	2.53
70/28	600	6.30	6.05	87.62	500	7.00	3.68
70/28	800	8.46	8.12	65.25	500	9.00	5.04

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

1.56 70/28mm Blended Semi-Finished Lens

Marterial Refractive Index=1.552							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.552	1.530				
70/28	200	2.02	1.94	273.27	500	5.00	1.21
70/28	400	4.26	4.09	128.58	500	7.00	2.53
70/28	600	6.26	6.01	88.18	500	7.00	3.68

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

1.56 Flex++ Executive Bifocal Semi-Finished Lens

Marterial Refractive Index=1.552							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.552	1.530				
70	200	1.95	1.86	271.79	570	8.00	1.15
70	400	4.06	3.87	130.54	570	7.00	2.42
70	600	6.06	5.78	87.46	570	7.00	3.65
70	800	8.06	7.68	65.76	570	10.50	4.94

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

1.50 7x28mm Trifocal Semi-Finished Lens

Marterial Refractive Index=1.498							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.498	1.530				
70	200	2.06	2.19	257.28	570	11.60	1.22
70	400	3.92	4.16	135.20	570	6.80	2.33
70	600	6.06	6.44	87.46	570	9.50	3.65
70	700	7.07	7.51	74.97	570	10.50	4.29
70	800	8.05	8.55	65.84	570	10.00	4.93

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

1.50 7x28mm Trifocal Semi-Finished Lens

Marterial Refractive Index=1.498							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.498	1.530				
75	400	3.92	4.16	135.20	570	6.50	2.33
75	600	6.06	6.44	87.46	570	9.50	3.65
75	800	8.05	8.55	65.84	570	10.50	4.93

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

1.50 7x28mm Trifocal Semi-Finished Lens

Marterial Refractive Index=1.498							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.498	1.530				
75	400	3.92	4.16	135.20	570	6.50	2.33
75	600	6.06	6.44	87.46	570	9.50	3.65
75	800	8.05	8.55	65.84	570	10.50	4.93

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

DURE™

1.50 8x35mm Trifocal Semi-Finished Lens

Marterial Refractive Index=1.498							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.498	1.530				
70	400	3.92	4.16	135.20	570	6.80	2.33
70	600	6.06	6.44	87.46	570	9.50	3.65
70	800	8.05	8.55	65.84	570	10.00	4.93

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

1.50 8x35mm Trifocal Semi-Finished Lens

Marterial Refractive Index=1.498							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.498	1.530				
75	400	3.92	4.16	135.20	570	6.50	2.33
75	600	6.06	6.44	87.46	570	9.50	3.65
75	800	8.05	8.55	65.84	570	10.50	4.93

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

1.60 7x28mm Trifocal Semi-Finished Lens

Marterial Refractive Index=1.594							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.594	1.530				
75	200	2.02	1.80	262.38	570	6.20	1.19
75	400	3.91	3.49	135.55	570	7.00	2.33
75	600	6.03	5.38	87.89	570	9.70	3.63
75	800	8.06	7.19	65.76	570	11.00	4.94

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

1.50 75mm Progressive 12mm Semi-Finished Lens

Marterial Refractive Index=1.498							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.498	1.530				
75	125	1.39	1.48	381.29	570	6.50	0.82
75	325	3.40	3.61	155.88	570	8.00	2.02
75	550	5.69	8.16	93.15	570	10.00	3.42
75	750	7.78	7.82	68.12	570	12.00	4.75

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

1.50 75mm Progressive 14mm Semi-Finished Lens

Marterial Refractive Index=1.498							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.498	1.530				
75	200	2.64	2.80	200.80	570	8.00	1.56
75	400	4.20	4.46	126.40	570	9.00	2.50
75	600	6.30	6.69	83.98	570	10.50	3.80
75	800	7.71	8.19	67.77	570	12.00	4.78

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

1.56 75mm Progressive 12mm Semi-Finished Lens

Marterial Refractive Index=1.552							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.552	1.530				
75	100	1.47	1.41	375.51	500	7.00	1.40
75	300	3.59	3.45	153.76	500	7.50	2.26
75	500	5.99	5.75	92.15	500	7.50	3.80
75	700	8.14	7.82	67.81	500	9.00	4.97

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

1.56 Q-Change V 70mm Single Vision Semi-Finished Lens

Marterial Refractive Index=1.552							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.552	1.530				
70	0	0.02	0.02	27600.00	500	7.00	0.01
70	100	1.63	1.57	338.65	500	7.00	0.95
70	200	2.30	2.21	240.00	500	7.00	1.30
70	300	3.17	3.04	174.13	500	7.00	1.83
70	400	3.91	3.75	141.18	500	7.00	2.25
70	500	5.04	4.84	109.52	500	7.00	2.91
70	600	6.29	6.04	87.76	500	7.00	3.64
70	700	7.38	7.09	74.80	500	9.00	4.29
70	800	8.49	8.15	65.02	500	9.00	4.99
70	900	9.58	9.20	57.62	500	11.50	5.71
70	1000	10.72	10.29	51.49	500	11.50	6.40

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

1.56 Q-Change V 70/28mm Flat Top Semi-Finished Lens

Marterial Refractive Index=1.552							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.552	1.530				
70/28	200	2.41	2.31	229.05	500	6.00	1.44
70/28	400	4.30	4.13	128.37	500	7.50	2.53
70/28	600	6.29	6.04	87.76	500	8.80	3.73
70/28	800	8.48	8.14	65.09	500	9.00	5.06

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

1.56 Q-Change V 70/28mm Round Top Semi-Finished Lens

Marterial Refractive Index=1.552							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.552	1.530				
70/28	200	2.02	1.94	273.27	500	5.00	1.21
70/28	400	4.29	4.12	128.67	500	7.00	2.53
70/28	600	6.30	6.05	87.62	500	7.00	3.68
70/28	800	8.46	8.12	65.25	500	9.00	5.04

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

1.56 Q-Change V 75mm Progressive 12mm Semi-Finished Lens

Marterial Refractive Index=1.552							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.552	1.530				
75	100	1.47	1.41	375.51	500	7.00	1.40
75	300	3.59	3.45	153.76	500	7.50	2.26
75	500	5.99	5.75	92.15	500	7.50	3.80
75	700	8.14	7.82	67.81	500	9.00	4.97

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

1.60 Q-Change Ⅶ 75mm Single Vision Semi-Finished Lens

Marterial Refractive Index=1.594

Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.594	1.530				
75	Plano	0.00	0.00	∝	570	6.00	0.00
75	100	0.98	0.87	540.82	570	7.50	0.58
75	200	1.97	1.76	269.04	570	8.70	1.16
75	300	2.98	2.66	177.85	570	8.00	1.77
75	400	3.98	3.55	133.17	570	9.20	2.37
75	500	4.98	4.44	106.43	570	10.50	2.98
75	600	6.00	5.35	88.33	570	8.00	3.61
75	700	6.86	6.12	77.26	570	9.10	4.16
75	800	8.04	7.17	65.92	570	11.10	4.92
75	900	8.93	7.97	59.35	570	12.70	5.52
75	1000	10.03	8.95	52.84	570	14.60	6.29

*C.T Tolerance：+1.0mm *Diameter Tolerance：±0.4mm *Curve Tolerance：±0.05

1.67 MR7 Q-Change Ⅶ 75/70mm Single Vision Semi-Finished Lens

Marterial Refractive Index=1.665

Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.665	1.530				
75	50	0.59	0.47	1127.12	950	5.50	0.28
75	100	1.70	1.35	391.18	810	6.50	0.80
75	200	2.38	1.90	279.41	675	6.50	1.12
75	300	3.68	2.93	180.71	540	6.50	1.74
75	400	4.26	3.40	156.10	540	6.50	2.01
75	500	4.87	3.88	136.55	540	7.00	2.31
75	600	6.10	4.86	109.02	675	7.00	2.91
75	700	7.37	5.87	90.23	675	7.30	3.53
75	800	8.35	6.65	79.64	675	8.50	4.03
70	900	9.63	7.68	69.06	810	8.20	4.68
70	1000	10.73	8.55	61.98	810	9.50	5.27
70	1100	11.52	9.18	57.73	810	9.50	5.69
70	1300	13.82	11.01	48.12	950	11.20	7.00

*C.T Tolerance：+1.0mm *Diameter Tolerance：±0.4mm *Curve Tolerance：±0.05

1.56 UV420 Blue Block 70mm Single Vision Semi-Finished Lens

Marterial Refractive Index=1.552

Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.552	1.530				
70	0	0.02	0.02	27600.00	500	7.90	0.01
70	100	1.63	1.57	338.65	500	9.50	0.95
70	200	2.30	2.21	240.00	500	10.00	1.30
70	300	3.17	3.04	174.13	500	9.00	1.83
70	400	3.91	3.75	141.18	500	10.10	2.25
70	500	5.04	4.84	109.52	500	10.80	2.91
70	600	6.29	6.04	87.76	500	8.10	3.64
70	700	7.38	7.09	74.80	500	9.30	4.29
70	800	8.49	8.15	65.02	500	10.80	4.99
70	900	9.58	9.20	57.62	500	11.80	5.71
70	1000	10.72	10.29	51.49	500	12.80	6.40

*C.T Tolerance：+1.0mm *Diameter Tolerance：±0.4mm *Curve Tolerance：±0.05

1.56 UV420 Blue Block 70/28mm Flat Top Semi-Finished Lens

Marterial Refractive Index=1.552

Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.552	1.530				
70/28	200	2.41	2.31	229.05	500	6.00	1.44
70/28	400	4.30	4.13	128.37	500	7.50	2.53
70/28	600	6.29	6.04	87.76	500	8.80	3.73
70/28	800	8.48	8.14	65.09	500	9.00	5.06

*C.T Tolerance：+1.0mm *Diameter Tolerance：±0.4mm *Curve Tolerance：±0.05

1.56 UV420 Blue Block 70/28mm Round Top Semi-Finished Lens

Marterial Refractive Index=1.552							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.552	1.530				
70/28	200	2.02	1.94	273.27	500	5.00	1.21
70/28	400	4.29	4.12	128.67	500	7.00	2.53
70/28	600	6.30	6.05	87.62	500	7.00	3.68
70/28	800	8.46	8.12	65.25	500	9.00	5.04

*C.T Tolerance：+1.0mm *Diameter Tolerance：±0.4mm *Curve Tolerance：±0.05

1.56 UV420 Blue Block 75mm Progressive 12mm Semi-Finished Lens

Marterial Refractive Index=1.552							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.552	1.530				
75	100	1.47	1.41	375.51	500	7.00	1.40
75	300	3.59	3.45	153.76	500	7.50	2.26
75	500	5.99	5.75	92.15	500	7.50	3.80
75	700	8.14	7.82	67.81	500	9.00	4.97

*C.T Tolerance：+1.0mm *Diameter Tolerance：±0.4mm *Curve Tolerance：±0.05

1.60 UV420 Blue Block 75mm Single Vision Semi-Finished Lens

Marterial Refractive Index=1.594							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.594	1.530				
75	Plano	0.00	0.00	∝	570	6.00	0.00
75	100	0.98	0.87	540.82	570	7.50	0.58
75	200	1.97	1.76	269.04	570	8.70	1.16
75	300	2.98	2.66	177.85	570	8.00	1.77
75	400	3.98	3.55	133.17	570	9.20	2.37
75	500	4.98	4.44	106.43	570	10.50	2.98
75	600	6.00	5.35	88.33	570	8.00	3.61
75	700	6.86	6.12	77.26	570	9.10	4.16
75	800	8.04	7.17	65.92	570	11.10	4.92
75	900	8.93	7.97	59.35	570	12.70	5.52
75	1000	10.03	8.95	52.84	570	14.60	6.29

*C.T Tolerance：+1.0mm *Diameter Tolerance：±0.4mm *Curve Tolerance：±0.05

1.67 UV420 Blue Block 75/70mm Single Vision Semi-Finished Lens

Marterial Refractive Index=1.665							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.665	1.530				
75	50	0.59	0.47	1127.12	950	5.50	0.28
75	100	1.70	1.35	391.18	810	6.50	0.80
75	200	2.38	1.90	279.41	675	6.50	1.12
75	300	3.68	2.93	180.71	540	6.50	1.74
75	400	4.26	3.40	156.10	540	6.50	2.01
75	500	4.87	3.88	136.55	540	7.00	2.31
75	600	6.10	4.86	109.02	675	7.00	2.91
75	700	7.37	5.87	90.23	675	7.30	3.53
75	800	8.35	6.65	79.64	675	8.50	4.03
70	900	9.63	7.68	69.06	810	8.20	4.68
70	1000	10.73	8.55	61.98	810	9.50	5.27
70	1100	11.52	9.18	57.73	810	9.50	5.69
70	1300	13.82	11.01	48.12	950	11.20	7.00

*C.T Tolerance：+1.0mm *Diameter Tolerance：±0.4mm *Curve Tolerance：±0.05

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1.50 X-Tinted Single Vision Semi-Finished Lens

Marterial Refractive Index=1.498

Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.498	1.530				
70	0	0.01	0.01	49800.00	500	7.90	0.01
70	100	1.48	1.58	336.49	500	9.50	0.95
70	200	2.05	2.18	242.93	500	10.00	1.30
70	300	2.87	3.05	173.52	500	9.00	1.83
70	400	3.53	3.76	141.08	500	10.10	2.25
70	500	4.55	4.84	109.45	500	10.80	2.91
70	600	5.68	6.04	87.68	500	8.10	3.64
70	700	6.65	7.08	74.89	500	9.30	4.29
70	800	7.67	8.16	64.93	500	10.80	4.99
70	900	8.66	9.22	57.51	500	11.80	5.71
70	1000	9.68	10.30	51.45	500	12.80	6.40

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

1.56 X-Tinted Single Vision Semi-Finished Lens

Marterial Refractive Index=1.552

Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.552	1.530				
70	0	0.02	0.02	27600.00	500	7.90	0.01
70	100	1.63	1.57	338.65	500	9.50	0.95
70	200	2.25	2.16	245.93	500	10.00	1.30
70	300	3.17	3.04	174.13	500	9.00	1.83
70	400	3.91	3.75	141.18	500	10.10	2.25
70	500	5.04	4.84	109.52	500	10.80	2.91
70	600	6.29	6.04	87.76	500	8.10	3.64
70	700	7.38	7.09	76.80	500	9.30	4.29
70	800	8.49	8.15	65.02	500	10.80	4.99
70	900	9.58	9.20	57.62	500	11.80	5.71
70	1000	10.72	10.29	51.49	500	12.80	6.40

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

1.60 X-Tinted Single Vision Semi-Finished Lens

Marterial Refractive Index=1.594

Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.594	1.530				
75	Plano	0.00	0.00	∝	570	6.00	0.00
75	100	0.98	0.87	540.82	570	7.50	0.58
75	200	1.97	1.76	269.04	570	8.70	1.16
75	300	2.98	2.66	177.85	570	8.00	1.77
75	400	3.98	3.55	133.17	570	9.20	2.37
75	500	4.98	4.44	106.43	570	10.50	2.98
75	600	6.00	5.35	88.33	570	8.00	3.61
75	700	6.86	6.12	77.26	570	9.10	4.16
75	800	8.04	7.17	65.92	570	11.10	4.92
75	900	8.93	7.98	59.35	570	12.70	5.52
75	1000	10.03	8.95	52.84	570	14.60	6.29

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

1.67 X-Tinted Single Vision Semi-Finished Lens

Marterial Refractive Index=1.665

Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.665	1.530				
75	50	0.59	0.47	1127.12	950	5.50	0.28
75	100	1.70	1.35	391.18	810	6.50	0.80
75	200	2.38	1.90	279.41	675	6.50	1.12
75	300	3.68	2.93	180.71	540	6.50	1.74
75	400	4.26	3.40	156.10	540	6.50	2.01
75	500	4.87	3.88	136.55	540	7.00	2.31
75	600	6.10	4.86	109.02	675	7.00	2.91
75	700	7.37	5.87	90.23	675	7.30	3.53
75	800	8.35	6.65	79.64	675	8.50	4.03
70	900	9.63	7.68	69.06	810	8.20	4.68
70	1000	10.73	8.55	61.98	810	9.50	5.27
70	1100	11.52	9.18	57.73	810	9.50	5.69
70	1300	13.82	11.01	48.12	950	11.20	7.00

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

DURE™

1.50 X-Tinted Single Vision Semi-Finished Lens

Marterial Refractive Index=1.498

Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.498	1.530				
70	0	0.01	0.01	49800.00	500	7.90	0.01
70	100	1.48	1.58	336.49	500	9.50	0.95
70	200	2.05	2.18	242.93	500	10.00	1.30
70	300	2.87	3.05	173.52	500	9.00	1.83
70	400	3.53	3.76	141.08	500	10.10	2.25
70	500	4.55	4.84	109.45	500	10.80	2.91
70	600	5.68	6.04	87.68	500	8.10	3.64
70	700	6.65	7.08	74.89	500	9.30	4.29
70	800	7.67	8.16	64.93	500	10.80	4.99
70	900	8.66	9.22	57.51	500	11.80	5.71
70	1000	9.68	10.30	51.45	500	12.80	6.40

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

1.56 X-Tinted Single Vision Semi-Finished Lens

Marterial Refractive Index=1.552

Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.552	1.530				
70	0	0.02	0.02	27600.00	500	7.90	0.01
70	100	1.63	1.57	338.65	500	9.50	0.95
70	200	2.25	2.16	245.93	500	10.00	1.30
70	300	3.17	3.04	174.13	500	9.00	1.83
70	400	3.91	3.75	141.18	500	10.10	2.25
70	500	5.04	4.84	109.52	500	10.80	2.91
70	600	6.29	6.04	87.76	500	8.10	3.64
70	700	7.38	7.09	76.80	500	9.30	4.29
70	800	8.49	8.15	65.02	500	10.80	4.99
70	900	9.58	9.20	57.62	500	11.80	5.71
70	1000	10.72	10.29	51.49	500	12.80	6.40

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

1.60 X-Tinted Single Vision Semi-Finished Lens

Marterial Refractive Index=1.594

Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.594	1.530				
75	Plano	0.00	0.00	∝	570	6.00	0.00
75	100	0.98	0.87	540.82	570	7.50	0.58
75	200	1.97	1.76	269.04	570	8.70	1.16
75	300	2.98	2.66	177.85	570	8.00	1.77
75	400	3.98	3.55	133.17	570	9.20	2.37
75	500	4.98	4.44	106.43	570	10.50	2.98
75	600	6.00	5.35	88.33	570	8.00	3.61
75	700	6.86	6.12	77.26	570	9.10	4.16
75	800	8.04	7.17	65.92	570	11.10	4.92
75	900	8.93	7.98	59.35	570	12.70	5.52
75	1000	10.03	8.95	52.84	570	14.60	6.29

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

1.67 X-Tinted Single Vision Semi-Finished Lens

Marterial Refractive Index=1.665

Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.665	1.530				
75	50	0.59	0.47	1127.12	950	5.50	0.28
75	100	1.70	1.35	391.18	810	6.50	0.80
75	200	2.38	1.90	279.41	675	6.50	1.12
75	300	3.68	2.93	180.71	540	6.50	1.74
75	400	4.26	3.40	156.10	540	6.50	2.01
75	500	4.87	3.88	136.55	540	7.00	2.31
75	600	6.10	4.86	109.02	675	7.00	2.91
75	700	7.37	5.87	90.23	675	7.30	3.53
75	800	8.35	6.65	79.64	675	8.50	4.03
70	900	9.63	7.68	69.06	810	8.20	4.68
70	1000	10.73	8.55	61.98	810	9.50	5.27
70	1100	11.52	9.18	57.73	810	9.50	5.69
70	1300	13.82	11.01	48.12	950	11.20	7.00

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

1.50 Polarized Single Vision Semi-Finished Lens

Marterial Refractive Index=1.498

Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.498	1.530				
70	200	1.99	2.11	266.33	415	12.00	1.18
70	400	4.22	4.49	125.59	570	9.50	2.51
70	600	6.05	6.43	87.60	570	11.00	3.64
70	800	8.08	8.60	65.59	570	13.00	4.95

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

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1.60 Polarized Single Vision Semi-Finished Lens

Marterial Refractive Index=1.594							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.594	1.530				
75	200	1.96	1.75	270.41	415	12.00	1.16
75	400	4.21	3.76	125.89	570	9.50	2.51
75	600	6.00	5.35	88.33	570	11.00	3.61
75	800	8.03	7.16	66.00	570	13.00	4.92

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

1.67 Polarized Single Vision Semi-Finished Lens

Marterial Refractive Index=1.662							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.662	1.530				
75	200	2.00	1.60	265.00	415	12.00	1.18
75	400	4.24	3.39	125.00	570	9.50	2.53
75	600	6.02	4.82	88.04	570	11.00	3.62
75	800	8.07	6.46	65.68	570	13.00	4.94

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

1.59 PC Single Vision Semi-Finished Lens

Marterial Refractive Index=1.591							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.591	1.530				
75	50	0.61	0.55	964.79	325	9.00	0.32
75	100	1.41	1.26	419.79	325	9.00	0.75
75	200	2.41	2.16	245.82	570	8.60	1.27
75	300	3.46	3.10	170.76	570	8.40	1.84
75	400	4.77	4.28	123.83	570	8.80	2.55
75	500	6.01	5.45	97.32	570	7.60	3.27
75	600	7.49	6.72	78.88	570	9.00	4.07
75	700	8.72	7.28	67.77	570	10.00	4.78
75	800	9.92	8.90	59.53	570	11.00	5.50
75	900	10.95	9.82	53.96	570	12.00	6.14

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

1.59 PC Flat Top Bifocal Semi-Finished Lens

Marterial Refractive Index=1.591							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.591	1.530				
75	200	2.29	2.05	259.17	515	7.50	1.21
75	400	4.54	4.07	130.32	515	8.30	2.42
75	600	6.73	6.03	87.85	515	8.60	3.63

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

Polycarbonate Progressive Semi-Finished Lens

Marterial Refractive Index=1.591							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.591	1.530				
75	275	3.62	3.25	162.97	515	9.30	2.02
75	475	5.36	4.81	110.19	515	7.60	3.00
75	675	7.81	7.00	75.70	515	11.00	4.35

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

1.56 Flex++ Spheric Semi-Finished Lens

Marterial Refractive Index=1.559							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.559	1.530				
70	50	0.44	0.42	1300.00	673	8.50	0.24
70	200	1.77	1.68	315.82	673	8.50	0.99
70	300	3.21	3.04	174.14	465	10.50	1.80
70	400	3.97	3.76	112.93	561	10.50	2.80
70	500	5.35	5.07	105.08	434	10.50	3.02
70	600	5.96	5.65	93.95	673	9.50	3.39
65	700	7.25	6.87	79.29	449	11.50	4.04
65	800	8.13	7.71	68.76	449	13.00	4.71
65	1000	10.72	10.16	52.19	877	11.50	6.38
65	1300	13.43	12.73	41.62	877	15.50	8.34

*C.T Tolerance：+1.0mm *Diameter Tolerance：±0.4mm *Curve Tolerance：±0.05

1.56 Flex++ Aspheric Semi-Finished Lens

Marterial Refractive Index=1.559							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.559	1.530				
70	50	0.62	0.59	904.92	655	8.70	0.35
70	120	1.16	1.10	480.00	655	8.70	0.65
70	200	1.98	1.88	281.63	655	8.70	1.11
70	350	3.44	3.26	162.35	655	10.70	1.94
70	600	6.18	5.86	90.49	655	10.70	3.52
65	800	7.95	7.54	70.32	424	13.60	4.59
65	900	9.25	8.77	60.46	424	13.60	5.41
65	1000	11.05	10.48	50.60	832	11.60	6.61
65	1200	13.30	12.62	42.01	832	15.60	8.25

*C.T Tolerance：+1.0mm *Diameter Tolerance：±0.4mm *Curve Tolerance：±0.05

1.50 UV400 65mm Single Vision Semi-Finished Lens

Marterial Refractive Index=1.498							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.498	1.530				
65	0	0.01	0.01	49800.00	500	8.40	0.01
65	100	1.48	1.58	336.49	500	10.20	0.95
65	200	2.05	2.18	242.93	500	10.50	1.30
65	300	2.87	3.05	173.52	500	9.60	1.83
65	400	3.53	3.76	141.08	500	9.60	2.25
65	500	4.55	4.84	109.45	500	11.10	2.91
65	600	5.68	6.04	87.68	500	7.90	3.64
65	700	6.65	7.08	74.89	500	9.30	4.29
65	800	7.67	8.16	64.93	500	10.30	4.99
65	900	8.66	9.22	57.51	500	11.45	5.71
65	1000	9.68	10.30	51.45	500	12.80	6.40
65	1200	11.87	12.63	41.95	500	14.80	8.01

*C.T Tolerance：+1.0mm *Diameter Tolerance：±0.4mm *Curve Tolerance：±0.05

DURE™

1.50 UV400 70mm Single Vision Semi-Finished Lens

Marterial Refractive Index=1.498							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.498	1.530				
70	0	0.01	0.01	49800.00	500	7.90	0.01
70	100	1.48	1.58	336.49	500	9.50	0.95
70	200	2.05	2.18	242.93	500	10.00	1.30
70	300	2.87	3.05	173.52	500	9.00	1.83
70	400	3.53	3.76	141.08	500	10.10	2.25
70	500	4.55	4.84	109.45	500	10.80	2.91
70	600	5.68	6.04	87.68	500	8.10	3.64
70	700	6.65	7.08	74.89	500	9.30	4.29
70	800	7.67	8.16	64.93	500	10.80	4.99
70	900	8.66	9.22	57.51	500	11.80	5.71
70	1000	9.68	10.30	51.45	500	12.80	6.40

*C.T Tolerance：+1.0mm *Diameter Tolerance：±0.4mm *Curve Tolerance：±0.05

1.56 UV420 Blue Block Photochromic 65mm Single Vision Semi-Finished Lens

Marterial Refractive Index=1.552							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.552	1.530				
75	200	2.25	2.16	245.33	500	10.10	1.30
75	400	3.91	3.75	141.18	500	10.10	2.25
75	500	5.04	4.84	109.52	500	11.30	2.91
75	600	6.29	6.04	87.76	500	8.10	3.64
75	700	7.38	7.09	74.80	500	9.40	4.29
75	800	8.49	8.15	65.02	500	10.90	4.99

*C.T Tolerance：+1.0mm *Diameter Tolerance：±0.4mm *Curve Tolerance：±0.05

1.56 UV420 Blue Block Photochromic 70mm Single Vision Semi-Finished Lens

Marterial Refractive Index=1.552							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.552	1.530				
80	200	2.25	2.16	245.33	500	7.80	1.30
80	400	3.91	3.75	141.18	500	9.90	2.25
80	500	5.04	4.84	109.52	500	9.90	2.91
80	600	6.29	6.04	87.76	500	8.10	3.64
80	700	7.38	7.09	74.80	500	9.40	4.29
80	800	8.49	8.15	65.02	500	11.80	4.99

*C.T Tolerance：+1.0mm *Diameter Tolerance：±0.4mm *Curve Tolerance：±0.05

1.56 UV420 Blue Block Spin Photochromic 70mm Single Vision Semi-Finished Lens

Marterial Refractive Index=1.552							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.552	1.530				
70	0	0.02	0.02	27600.00	500	7.90	0.01
70	100	1.63	1.57	338.65	500	9.50	0.95
70	200	2.25	2.16	245.93	500	10.00	1.30
70	300	3.17	3.04	174.13	500	9.00	1.83
70	400	3.91	3.75	141.18	500	10.10	2.25
70	500	5.04	4.84	109.52	500	10.80	2.91
70	600	6.29	6.04	87.76	500	8.10	3.64
70	700	7.38	7.09	74.80	500	9.30	4.29
70	800	8.49	8.15	65.02	500	10.80	4.99
70	900	9.58	9.20	57.62	500	11.80	5.71
70	1000	10.72	10.29	51.49	500	12.80	6.40

*C.T Tolerance：+1.0mm *Diameter Tolerance：±0.4mm *Curve Tolerance：±0.05

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1.56 UV420 Blue Block Spin Photochromic 75mm Single Vision Semi-Finished Lens

Marterial Refractive Index=1.552							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.552	1.530				
75	200	2.25	2.16	245.33	500	10.10	1.30
75	400	3.91	3.75	141.18	500	10.10	2.25
75	500	5.04	4.84	109.52	500	11.30	2.91
75	600	6.29	6.04	87.76	500	8.10	3.64
75	700	7.38	7.09	74.80	500	9.40	4.29
75	800	8.49	8.15	65.02	500	10.90	4.99

*C.T Tolerance：+1.0mm　*Diameter Tolerance：±0.4mm　*Curve Tolerance：±0.05

1.60 UV420 Blue Block Spin Photochromic 75mm Single Vision Semi-Finished Lens

Marterial Refractive Index=1.594							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.594	1.530				
75	Plano	0.00	0.00	∝	570	6.00	0.00
75	100	0.98	0.87	540.82	570	7.50	0.58
75	200	1.97	1.76	269.04	570	8.70	1.16
75	300	2.98	2.66	177.85	570	8.00	1.77
75	400	3.98	3.55	133.17	570	9.20	2.37
75	500	4.98	4.44	106.43	570	10.50	2.98
75	600	6.00	5.35	88.33	570	8.00	3.61
75	700	6.86	6.12	77.26	570	9.10	4.16
75	800	8.04	7.17	65.92	570	11.10	4.92
75	900	8.93	7.97	59.35	570	12.70	5.52
75	1000	10.03	8.95	52.84	570	14.60	6.29

*C.T Tolerance：+1.0mm　*Diameter Tolerance：±0.4mm　*Curve Tolerance：±0.05

1.67 UV420 Blue Block Spin Photochromic 75/70mm Single Vision Semi-Finished Lens

Marterial Refractive Index=1.665							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.665	1.530				
75	50	0.59	0.47	1127.12	950	5.50	0.28
75	100	1.70	1.35	391.18	810	6.50	0.80
75	200	2.38	1.90	279.41	675	6.50	1.12
75	300	3.68	2.93	180.71	540	6.50	1.74
75	400	4.26	3.40	156.10	540	6.50	2.01
75	500	4.87	3.88	136.55	540	7.00	2.31
75	600	6.10	4.86	109.02	675	7.00	2.91
75	700	7.37	5.87	90.23	675	7.30	3.53
75	800	8.35	6.65	79.64	675	8.50	4.03
70	900	9.63	7.68	69.06	810	8.20	4.68
70	1000	10.73	8.55	61.98	810	9.50	5.27
70	1100	11.52	9.18	57.73	810	9.50	5.69
70	1300	13.82	11.01	48.12	950	11.20	7.00

*C.T Tolerance：+1.0mm　*Diameter Tolerance：±0.4mm　*Curve Tolerance：±0.05

1.50 X-Tinted Single Vision Semi-Finished Lens

Marterial Refractive Index=1.498							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.498	1.530				
70	0	0.01	0.01	49800.00	500	7.90	0.01
70	100	1.48	1.58	336.49	500	9.50	0.95
70	200	2.05	2.18	242.93	500	10.00	1.30
70	300	2.87	3.05	173.52	500	9.00	1.83
70	400	3.53	3.76	141.08	500	10.10	2.25
70	500	4.55	4.84	109.45	500	10.80	2.91
70	600	5.68	6.04	87.68	500	8.10	3.64
70	700	6.65	7.08	74.89	500	9.30	4.29
70	800	7.67	8.16	64.93	500	10.80	4.99
70	900	8.66	9.22	57.51	500	11.80	5.71
70	1000	9.68	10.30	51.45	500	12.80	6.40

*C.T Tolerance：+1.0mm　*Diameter Tolerance：±0.4mm　*Curve Tolerance：±0.05

1.56 X-Tinted Single Vision Semi-Finished Lens

Marterial Refractive Index=1.552							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.552	1.530				
70	0	0.02	0.02	27600.00	500	7.90	0.01
70	100	1.63	1.57	338.65	500	9.50	0.95
70	200	2.25	2.16	245.93	500	10.00	1.30
70	300	3.17	3.04	174.13	500	9.00	1.83
70	400	3.91	3.75	141.18	500	10.10	2.25
70	500	5.04	4.84	109.52	500	10.80	2.91
70	600	6.29	6.04	87.76	500	8.10	3.64
70	700	7.38	7.09	76.80	500	9.30	4.29
70	800	8.49	8.15	65.02	500	10.80	4.99
70	900	9.58	9.20	57.62	500	11.80	5.71
70	1000	10.72	10.29	51.49	500	12.80	6.40

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

1.60 X-Tinted Single Vision Semi-Finished Lens

Marterial Refractive Index=1.594							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.594	1.530				
75	Plano	0.00	0.00	∝	570	6.00	0.00
75	100	0.98	0.87	540.82	570	7.50	0.58
75	200	1.97	1.76	269.04	570	8.70	1.16
75	300	2.98	2.66	177.85	570	8.00	1.77
75	400	3.98	3.55	133.17	570	9.20	2.37
75	500	4.98	4.44	106.43	570	10.50	2.98
75	600	6.00	5.35	88.33	570	8.00	3.61
75	700	6.86	6.12	77.26	570	9.10	4.16
75	800	8.04	7.17	65.92	570	11.10	4.92
75	900	8.93	7.98	59.35	570	12.70	5.52
75	1000	10.03	8.95	52.84	570	14.60	6.29

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

1.67 X-Tinted Single Vision Semi-Finished Lens

Marterial Refractive Index=1.665							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.665	1.530				
75	50	0.59	0.47	1127.12	950	5.50	0.28
75	100	1.70	1.35	391.18	810	6.50	0.80
75	200	2.38	1.90	279.41	675	6.50	1.12
75	300	3.68	2.93	180.71	540	6.50	1.74
75	400	4.26	3.40	156.10	540	6.50	2.01
75	500	4.87	3.88	136.55	540	7.00	2.31
75	600	6.10	4.86	109.02	675	7.00	2.91
75	700	7.37	5.87	90.23	675	7.30	3.53
75	800	8.35	6.65	79.64	675	8.50	4.03
70	900	9.63	7.68	69.06	810	8.20	4.68
70	1000	10.73	8.55	61.98	810	9.50	5.27
70	1100	11.52	9.18	57.73	810	9.50	5.69
70	1300	13.82	11.01	48.12	950	11.20	7.00

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

1.50 Polarized Single Vision Semi-Finished Lens

Marterial Refractive Index=1.498							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.498	1.530				
70	200	1.99	2.11	266.33	415	12.00	1.18
70	400	4.22	4.49	125.59	570	9.50	2.51
70	600	6.05	6.43	87.60	570	11.00	3.64
70	800	8.08	8.60	65.59	570	13.00	4.95

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

1.60 Polarized Single Vision Semi-Finished Lens

Marterial Refractive Index=1.594							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.594	1.530				
75	200	1.96	1.75	270.41	415	12.00	1.16
75	400	4.21	3.76	125.89	570	9.50	2.51
75	600	6.00	5.35	88.33	570	11.00	3.61
75	800	8.03	7.16	66.00	570	13.00	4.92

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05

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1.67 Polarized Single Vision Semi-Finished Lens

Marterial Refractive Index=1.662							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.662	1.530				
75	200	2.00	1.60	265.00	415	12.00	1.18
75	400	4.24	3.39	125.00	570	9.50	2.53
75	600	6.02	4.82	88.04	570	11.00	3.62
75	800	8.07	6.46	65.68	570	13.00	4.94

*C.T Tolerance：+1.0mm *Diameter Tolerance：±0.4mm *Curve Tolerance：±0.05

1.59 PC Single Vision Semi-Finished Lens

Marterial Refractive Index=1.591							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.591	1.530				
75	50	0.61	0.55	964.79	325	9.00	0.32
75	100	1.41	1.26	419.79	325	9.00	0.75
75	200	2.41	2.16	245.82	570	8.60	1.27
75	300	3.46	3.10	170.76	570	8.40	1.84
75	400	4.77	4.28	123.83	570	8.80	2.55
75	500	6.01	5.45	97.32	570	7.60	3.27
75	600	7.49	6.72	78.88	570	9.00	4.07
75	700	8.72	7.28	67.77	570	10.00	4.78
75	800	9.92	8.90	59.53	570	11.00	5.50
75	900	10.95	9.82	53.96	570	12.00	6.14

*C.T Tolerance：+1.0mm *Diameter Tolerance：±0.4mm *Curve Tolerance：±0.05

1.59 PC Flat Top Bifocal Semi-Finished Lens

Marterial Refractive Index=1.591							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.591	1.530				
75	200	2.29	2.05	259.17	515	7.50	1.21
75	400	4.54	4.07	130.32	515	8.30	2.42
75	600	6.73	6.03	87.85	515	8.60	3.63

*C.T Tolerance：+1.0mm *Diameter Tolerance：±0.4mm *Curve Tolerance：±0.05

Polycarbonate Progressive Semi-Finished Lens

Marterial Refractive Index=1.591							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.591	1.530				
75	275	3.62	3.25	162.97	515	9.30	2.02
75	475	5.36	4.81	110.19	515	7.60	3.00
75	675	7.81	7.00	75.70	515	11.00	4.35

*C.T Tolerance：+1.0mm *Diameter Tolerance：±0.4mm *Curve Tolerance：±0.05

1.56 Flex++ Spheric Semi-Finished Lens

Marterial Refractive Index=1.559							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.559	1.530				
70	50	0.44	0.42	1300.00	673	8.50	0.24
70	200	1.77	1.68	315.82	673	8.50	0.99
70	300	3.21	3.04	174.14	465	10.50	1.80
70	400	3.97	3.76	112.93	561	10.50	2.80
70	500	5.35	5.07	105.08	434	10.50	3.02
70	600	5.96	5.65	93.95	673	9.50	3.39
65	700	7.25	6.87	79.29	449	11.50	4.04
65	800	8.13	7.71	68.76	449	13.00	4.71
65	1000	10.72	10.16	52.19	877	11.50	6.38
65	1300	13.43	12.73	41.62	877	15.50	8.34

*C.T Tolerance：+1.0mm *Diameter Tolerance：±0.4mm *Curve Tolerance：±0.05

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1.56 Flex++ Aspheric Semi-Finished Lens

Marterial Refractive Index=1.559							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.559	1.530				
70	50	0.62	0.59	904.92	655	8.70	0.35
70	120	1.16	1.10	480.00	655	8.70	0.65
70	200	1.98	1.88	281.63	655	8.70	1.11
70	350	3.44	3.26	162.35	655	10.70	1.94
70	600	6.18	5.86	90.49	655	10.70	3.52
65	800	7.95	7.54	70.32	424	13.60	4.59
65	900	9.25	8.77	60.46	424	13.60	5.41
65	1000	11.05	10.48	50.60	832	11.60	6.61
65	1200	13.30	12.62	42.01	832	15.60	8.25

*C.T Tolerance：+1.0mm　*Diameter Tolerance：±0.4mm　*Curve Tolerance：±0.05

1.50 UV400 65mm Single Vision Semi-Finished Lens

Marterial Refractive Index=1.498							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.498	1.530				
65	0	0.01	0.01	49800.00	500	8.40	0.01
65	100	1.48	1.58	336.49	500	10.20	0.95
65	200	2.05	2.18	242.93	500	10.50	1.30
65	300	2.87	3.05	173.52	500	9.60	1.83
65	400	3.53	3.76	141.08	500	9.60	2.25
65	500	4.55	4.84	109.45	500	11.10	2.91
65	600	5.68	6.04	87.68	500	7.90	3.64
65	700	6.65	7.08	74.89	500	9.30	4.29
65	800	7.67	8.16	64.93	500	10.30	4.99
65	900	8.66	9.22	57.51	500	11.45	5.71
65	1000	9.68	10.30	51.45	500	12.80	6.40
65	1200	11.87	12.63	41.95	500	14.80	8.01

*C.T Tolerance：+1.0mm　*Diameter Tolerance：±0.4mm　*Curve Tolerance：±0.05

1.50 UV400 70mm Single Vision Semi-Finished Lens

Marterial Refractive Index=1.498							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.498	1.530				
70	0	0.01	0.01	49800.00	500	7.90	0.01
70	100	1.48	1.58	336.49	500	9.50	0.95
70	200	2.05	2.18	242.93	500	10.00	1.30
70	300	2.87	3.05	173.52	500	9.00	1.83
70	400	3.53	3.76	141.08	500	10.10	2.25
70	500	4.55	4.84	109.45	500	10.80	2.91
70	600	5.68	6.04	87.68	500	8.10	3.64
70	700	6.65	7.08	74.89	500	9.30	4.29
70	800	7.67	8.16	64.93	500	10.80	4.99
70	900	8.66	9.22	57.51	500	11.80	5.71
70	1000	9.68	10.30	51.45	500	12.80	6.40

*C.T Tolerance：+1.0mm　*Diameter Tolerance：±0.4mm　*Curve Tolerance：±0.05

1.56 UV420 Blue Block Photochromic 65mm Single Vision Semi-Finished Lens

Marterial Refractive Index=1.552							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.552	1.530				
75	200	2.25	2.16	245.33	500	10.10	1.30
75	400	3.91	3.75	141.18	500	10.10	2.25
75	500	5.04	4.84	109.52	500	11.30	2.91
75	600	6.29	6.04	87.76	500	8.10	3.64
75	700	7.38	7.09	74.80	500	9.40	4.29
75	800	8.49	8.15	65.02	500	10.90	4.99

*C.T Tolerance：+1.0mm　*Diameter Tolerance：±0.4mm　*Curve Tolerance：±0.05

1.56 UV420 Blue Block Photochromic 70mm Single Vision Semi-Finished Lens

Marterial Refractive Index=1.552							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.552	1.530				
80	200	2.25	2.16	245.33	500	7.80	1.30
80	400	3.91	3.75	141.18	500	9.90	2.25
80	500	5.04	4.84	109.52	500	9.90	2.91
80	600	6.29	6.04	87.76	500	8.10	3.64
80	700	7.38	7.09	74.80	500	9.40	4.29
80	800	8.49	8.15	65.02	500	11.80	4.99

*C.T Tolerance：+1.0mm *Diameter Tolerance：±0.4mm *Curve Tolerance：±0.05

1.56 UV420 Blue Block Spin Photochromic 70mm Single Vision Semi-Finished Lens

Marterial Refractive Index=1.552							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.552	1.530				
70	0	0.02	0.02	27600.00	500	7.90	0.01
70	100	1.63	1.57	338.65	500	9.50	0.95
70	200	2.25	2.16	245.93	500	10.00	1.30
70	300	3.17	3.04	174.13	500	9.00	1.83
70	400	3.91	3.75	141.18	500	10.10	2.25
70	500	5.04	4.84	109.52	500	10.80	2.91
70	600	6.29	6.04	87.76	500	8.10	3.64
70	700	7.38	7.09	74.80	500	9.30	4.29
70	800	8.49	8.15	65.02	500	10.80	4.99
70	900	9.58	9.20	57.62	500	11.80	5.71
70	1000	10.72	10.29	51.49	500	12.80	6.40

*C.T Tolerance：+1.0mm *Diameter Tolerance：±0.4mm *Curve Tolerance：±0.05

1.56 UV420 Blue Block Spin Photochromic 75mm Single Vision Semi-Finished Lens

Marterial Refractive Index=1.552							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.552	1.530				
75	200	2.25	2.16	245.33	500	10.10	1.30
75	400	3.91	3.75	141.18	500	10.10	2.25
75	500	5.04	4.84	109.52	500	11.30	2.91
75	600	6.29	6.04	87.76	500	8.10	3.64
75	700	7.38	7.09	74.80	500	9.40	4.29
75	800	8.49	8.15	65.02	500	10.90	4.99

*C.T Tolerance：+1.0mm *Diameter Tolerance：±0.4mm *Curve Tolerance：±0.05

1.60 UV420 Blue Block Spin Photochromic 75mm Single Vision Semi-Finished Lens

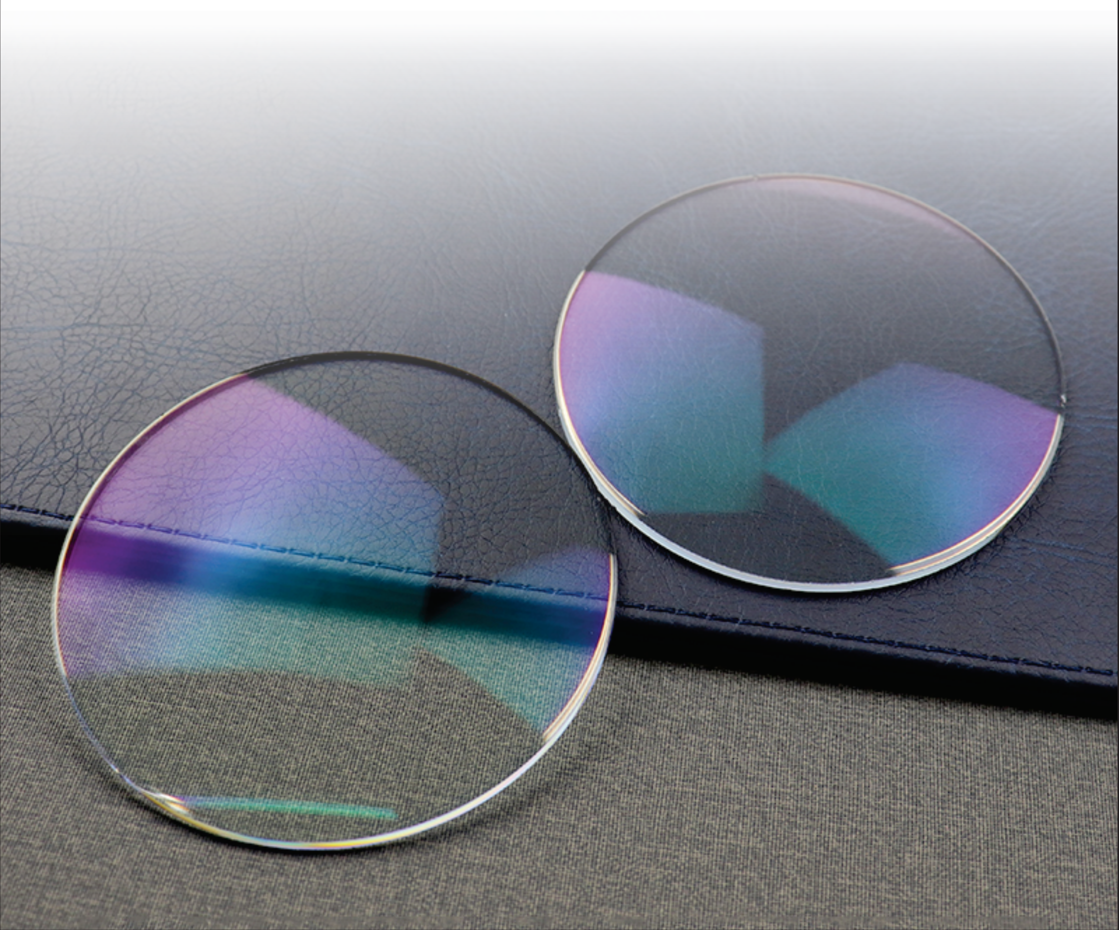
Marterial Refractive Index=1.594							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.594	1.530				
75	Plano	0.00	0.00	∝	570	6.00	0.00
75	100	0.98	0.87	540.82	570	7.50	0.58
75	200	1.97	1.76	269.04	570	8.70	1.16
75	300	2.98	2.66	177.85	570	8.00	1.77
75	400	3.98	3.55	133.17	570	9.20	2.37
75	500	4.98	4.44	106.43	570	10.50	2.98
75	600	6.00	5.35	88.33	570	8.00	3.61
75	700	6.86	6.12	77.26	570	9.10	4.16
75	800	8.04	7.17	65.92	570	11.10	4.92
75	900	8.93	7.97	59.35	570	12.70	5.52
75	1000	10.03	8.95	52.84	570	14.60	6.29

*C.T Tolerance：+1.0mm *Diameter Tolerance：±0.4mm *Curve Tolerance：±0.05

1.67 UV420 Blue Block Spin Photochromic 75/70mm Single Vision Semi-Finished Lens

Marterial Refractive Index=1.665							
Diameter (mm)	Nominal Front Curve	True Curve		Front Radius	Nominal Back Curve	CT (mm)	SAG 50
		1.665	1.530				
75	50	0.59	0.47	1127.12	950	5.50	0.28
75	100	1.70	1.35	391.18	810	6.50	0.80
75	200	2.38	1.90	279.41	675	6.50	1.12
75	300	3.68	2.93	180.71	540	6.50	1.74
75	400	4.26	3.40	156.10	540	6.50	2.01
75	500	4.87	3.88	136.55	540	7.00	2.31
75	600	6.10	4.86	109.02	675	7.00	2.91
75	700	7.37	5.87	90.23	675	7.30	3.53
75	800	8.35	6.65	79.64	675	8.50	4.03
70	900	9.63	7.68	69.06	810	8.20	4.68
70	1000	10.73	8.55	61.98	810	9.50	5.27
70	1100	11.52	9.18	57.73	810	9.50	5.69
70	1300	13.82	11.01	48.12	950	11.20	7.00

*C.T Tolerance: +1.0mm *Diameter Tolerance: ±0.4mm *Curve Tolerance: ±0.05



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