

A man and a woman are working in a laboratory or factory setting. The man is on the left, looking down at a small object. The woman is on the right, also looking down at the same object. They are both wearing dark shirts. In the background, there is a large machine with a screen and the brand name 'satisloh' visible. The machine is labeled 'SPM-50'. The overall scene is focused on precision optics manufacturing.

# CONSUMABLES & TOOLS FOR PRECISION OPTICS MANUFACTURING

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THE ART OF MAKING LENSES

**satisloh**<sup>®</sup>

For more than 100 years we have provided optical facilities around the world with precision optical products and equipment. Our approach focuses on the integration of the industry's finest equipment matched with process consumables that ensure optimum results.

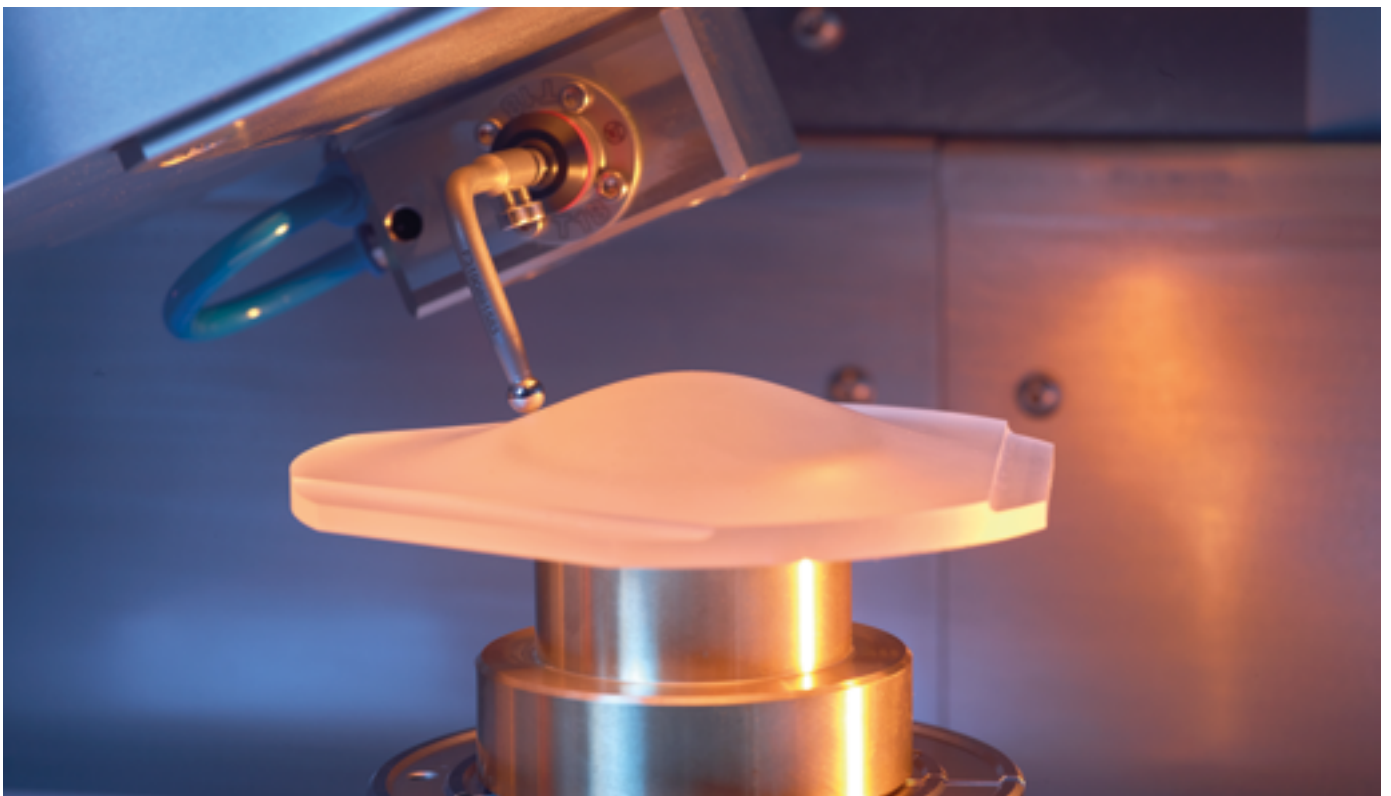
Be assured that each item in this catalog is designed and manufactured to maximize the efficiency and performance of your equipment. Our goal is to help give you a competitive edge by optimizing workflow and improving yields.

When choosing consumable products, it's important that the materials are suitable for the machine, they bring optimum results, and the quality is consistent. Be confident that our consumables & tools fulfill these requirements.

**For world-class service and more information on our products, contact our customer service department:**

**consumables@satisloh.com**  
**toolshop\_po@satisloh.com**

**Please note:** Availability of certain products may be restricted by local import regulations. Please check with your local Satisloh contact for details.



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Availability of certain products may be restricted by local import regulations. Please check with your local Satisloh contact for details.

# COOLANT ADDITIVE K 40

## Technical

- Color: yellow
- pH-value: 9.6 (at 5%)
- Kinematic viscosity: about 1750 (cSt) mm<sup>2</sup>/s
- Refractometer factor: 1.25

## Benefits

- High stock removal
- Excellent surface quality
- Free from chlorine, nitrite, phenol and PCB
- Usable in a wide field of application

## Recommendations

- Before switching over from any other coolant additive to K 40, please clean thoroughly machines, tubes, pumping and coolant systems.
- Please check coolant suspension regularly with a hand refractometer, and if necessary, add K 40.
- To avoid foaming, the return tube should be positioned below the coolant surface. If foam still forms, add defoamer E 100.
- Store away from frost.

## Applications

| Working process | Satisloh diamond tool                         | Concentration | Temp. |
|-----------------|-----------------------------------------------|---------------|-------|
| Pre-grinding    | wheels – all metal and plastic bonds          | 6%            | <20°C |
| Pre-grinding    | wheels, electroplated bonds                   | 2,5%          | <20°C |
| Pre-grinding    | flat-grind tools with toothed smoothing rings | 3%            | <20°C |
| Pre-grinding    | diamond pellets or segments                   | 3%            | <20°C |
| Formgrinding    | electroplated bonds                           | 3%            | <20°C |
| Rounding        | rounding tools                                | 3%            | <20°C |
| Sawing          | saw blades                                    | 5%            | <20°C |
| Lapping         | pellets & diamond pads                        | 3%            | <20°C |
| Centering       | centering wheels                              | 3%            | <20°C |
| Bevelling       | bevel sections                                | 3%            | <20°C |

| Order No.  | Product               | Unit          |
|------------|-----------------------|---------------|
| 92-000-001 | Coolant additive K 40 | 200 kg barrel |
| 92-000-002 | Coolant additive K 40 | 60 kg barrel  |
| 92-000-003 | Coolant additive K 40 | 25 kg can     |
| 92-000-006 | Coolant additive K 40 | 10 kg can     |
| US only:   |                       |               |
| 92-000-004 | Coolant additive K 40 | 20 kg can     |
| 92-010-286 | Coolant additive K 40 | 1 gal pail    |



Water-mixable coolant concentrate, containing mineral oil, for grinding and lapping of optical elements with sintered and electroplated diamond tools in ophthalmic and precision optics.

# COOLANT ADDITIVE KS 42 VA

### Technical

- Color: yellow
- pH-value: 40 g/l: ca. 9,3 (DIN 51369)
- Viscosity (20°C): 15-25 mm<sup>2</sup>/s (DIN 51562)
- Density (15°C): 1,10 g/cm<sup>3</sup>, equal to TRGS 611
- Refractometer factor: 1,3
- Water hazard classification 1
- Corrosion 3% Note 0 (DIN/ISO 51360/T2)

### Benefits

- Excellent lubricating properties which reduces the cutting temperature
- Excellent corrosion protection and machine care properties
- Very low foaming
- Outstanding cooling efficiency thanks to good heat dissipation
- Transparent solution
- Good transport of the glass particles

### Recommendations

Before changing over from a different product to KS 42 VA, please thoroughly clean the machinery, supply and return lines, the pumps and the coolant unit. The operating solution is prepared by slowly pouring the additive into potable water while simultaneously stirring thoroughly or using an automatic mixer. Recommended mixing ratio: 2-5%

### Applications

KS 42 VA is used for milling, drilling, grinding and lapping of optical, technical and medical optics.



Fully synthetic, water-soluble, mineral oil-free cooling lubricant for processing glass.

| Order No.  | Product                  | Unit      |
|------------|--------------------------|-----------|
| 92-005-063 | Coolant additive K 42 VA | 25 kg can |

## COOLANT ADDITIVE K80

- Water-soluble coolant, free from mineral oil, offering excellent cutting properties.
- Low foaming when keeping to the recommended concentration percentage.

### Technical

- Color: Light brown
- pH value: 9.3 (at 5%)
- Refractometer factor: 1.2
- Recommended concentration: 3 – 5%

### Benefits

- Free from chlorine, phenols and formaldehydes, nitrite, PCB/PCT/PTBB, silicon and other dangerous and/or raw materials subject to marking, free from Raw materials with an own MAK value
- High anticorrosive reserve
- Good settling of glass residues
- Clean, transparent grinding results
- Minimum aerosol forming
- Optimum machine maintenance
- No dangerous or physiologically harmful
- High efficiency.

### Recommendations

- Before changing to K 80, machines, lines, pumps and coolant tanks should be cleaned thoroughly.
- Coolant concentration should be tested regularly with a manual refractometer.
- To avoid foaming in the coolant reservoir, the return tube should be placed beneath the surface of the coolant.
- In case of persistent foaming, use Satisloh Defoamer  
MP Item no. 92-005-078
- Keep away from frost.

Water-soluble coolant, free from mineral oil, offering excellent cutting properties. Low foaming when keeping to the recommended concentration percentage.

| Order No.  | Description          | Unit          |
|------------|----------------------|---------------|
| 92-000-013 | Coolant additive K80 | 237 kg barrel |
| 92-000-015 | Coolant additive K80 | 29 kg can     |

# COOLANT ADDITIVE KS 3000

### Technical

- pH-Value: 9,3-9,8
- Specific Gravity [kg/l] (20°C): 1,05
- Refractometer Factor: 2,5
- Freeze Point: 0°C

### Benefits

- Contains high amount of lubrication components
- Corrosion inhibited
- High biological protection
- Mineral oil free

### Recommendations

- Recommended grinding temperature: 20°C
- Mixing ratio: 3-5%

### Applications

KS 3000 is a coolant that is ideal for grinding/smoothing of hard materials like technical ceramic and quartz materials.

### Storage:

- Please store cool and dry; do not expose to direct sunlight, beware of freezing

### Please follow the instructions in the material safety data sheet!

- The data are not to be interpreted as a specification or guarantee of properties.
- No implied warranties as to its accuracy and assumes no liability arising out of its use by others



Full synthetic coolant additive.  
Clear, light-yellow color

| Order No.  | Product                  | Unit       |
|------------|--------------------------|------------|
| 92-016-729 | Coolant Additive KS 3000 | 5 gal pail |
| 92-016-666 | Coolant Additive KS 3000 | 1 gal pail |

# COOLANT LH-105

**North America Only!****Technical**

- Color: clear blue liquid
- pH-value: 9.3 – 9.8

**Benefits**

- Increase tool life
- Improve Surface Finish 20-30%
- Reduced Cycle Time, More Parts per Shift
- High levels of Biological Protection
- Fully Synthetic and Waste Treatable
- Will not affect most waxes

**Recommendations**

A highly contemporary corrosion protection package that protects both ferrous and nonferrous metal substrates. LH-105 is non-petroleum based grinding fluid, able to be easily integrated into the existing plant production equipment and is highly waste treatable.

**Applications**

LH-105 is used for milling, drilling, grinding and lapping of optical, technical and medical optics.

Synthetic coolant ideal for finishing of precision and technical optical surfaces.

| Order No.  | Description | Unit        |
|------------|-------------|-------------|
| 92-011-322 | LH 105 Plus | 55 gal drum |
| 92-011-328 | LH 105 Plus | 5 gal pail  |

# COOLANT CENTERING OIL K 43

## Technical

- Color: clear
- Viscosity (40°C): 4.8 mm<sup>2</sup>/s
- Water hazard classification: WHC 1
- pH-Value: ca.7,0

## Benefits

- Free from chlorine, nitrite, phenol and PCB

## Recommendations

- Please install oil vapour exhauster

## Applications

| Working process | Diamond tool     | Concentration |
|-----------------|------------------|---------------|
| Centering       | centering wheels | pure          |
| Bevelling       | beveling wheels  | pure          |

| Order No.                  | Product          | Unit         |
|----------------------------|------------------|--------------|
| <a href="#">92-000-027</a> | Coolant Oil K 43 | 30 l can     |
| <a href="#">92-000-026</a> | Coolant Oil K 43 | 208 l barrel |



A mineral oil for processing optical elements in precision optics if water soluble coolants cannot be used due to higher demands.

# ANTIFOAMING AGENTS

## Benefits

- Silicone free

## Applications

| Antifoam | Recommended for Coolants | To be added to 100 litres of the suspension |
|----------|--------------------------|---------------------------------------------|
| E 100    | K 40                     | 0.5 – 1 l                                   |
| MP       | all synthetic coolants   | 0.6 l                                       |

| Order No.                  | Product          | Unit        |
|----------------------------|------------------|-------------|
| <a href="#">92-000-658</a> | E 100            | 1 kg bottle |
| <a href="#">92-000-657</a> | E 100            | 10 kg can   |
| <a href="#">92-005-078</a> | MP               | 1 kg bottle |
| <a href="#">92-005-079</a> | MP               | 10 kg can   |
| <a href="#">92-010-383</a> | Super LohFoam 10 | 1 gal box   |



Anti-foam agents are destined for coolant, polishing and smoothing suspensions in ophthalmic and precision optics.

# BIOCLEAN PLUS TANK CONDITIONER

**North America Only!****Technical**

- Functional pH operating range: 8-12
- Non-volatile chemistry

**Benefits**

- Works very well at low concentrations and is highly dilutable
- Keeps biological activity in check and keeps pH in a safe, non-hospitable range for biological growth
- Works well in hard water conditions up to 400-600 ppm in dilute form
- Compatible with anionic, cationic, and non-ionic compounds. Will not interfere with the functionality of materials such as flocs or coagulants.

**Recommendations**

Simply identify the tank size in questions and add BioClean Plus Tank Conditioner at a dilution rate of 50:1; for example, one gallon of BioClean Plus Tank Conditioner for every 50 gallons of sump capacity. Add BioClean Plus Tank Conditioner to the coolant tank at the 50:1 dilution on a quarterly basis to ensure continual product performance, and whenever replacing the coolant charge in the tank system.

**Applications**

BioClean Plus Tank Conditioner is a highly effective tank side conditioner for both synthetic coolants and soluble oils. It can be used in grinding applications as well as machining. It is very useful in eliminating foul odors caused by microbial growth and excessive tramp oil contamination.

Tank side microbial control additive

| Order No.                  | Product                        | Unit     |
|----------------------------|--------------------------------|----------|
| <a href="#">92-010-458</a> | BioClean Plus Tank Conditioner | 1 gallon |
| <a href="#">92-011-389</a> | BioClean Plus Tank Conditioner | 5 gallon |

# SILICON CARBIDE EMERY SCDL DARK AND GREEN

## Technical

Available: in grit sizes from F80 – F1200

## Benefits

The SIC, being dark colored due to inclusions and oxides, has a particularly high toughness, whereas the high purity green SIC is harder and shows better splintering properties.

## Recommendations

As an initial concentration Satisloh recommends 400- 450 grams per litre of water. In order to get optimum result in circular lubrication we recommend to add 2- 5 grams of wallpaper glue on 1 litre of water. Better suspension properties of the grits can be achieved by this.

## Applications

LH-105 is used for milling, drilling, grinding and lapping of optical, technical and medical optics.



Emery made out of glass sand and coal with additives for processing optical elements in the precision optics.

| Macro grits     |                       |                 |                       | Micro grits     |                |
|-----------------|-----------------------|-----------------|-----------------------|-----------------|----------------|
| DIN Description | Middle grit size (mm) | DIN Description | Middle grit size (mm) | DIN Description | Grit size (µm) |
| F 4             | 5.600- 4.000          | F 36            | 0.600- 0.425          | F 230           | 82.0- 34.0     |
| F 5             | 4.750- 3.335          | F 40            | 0.500- 0.355          | F 240           | 70.0- 28.0     |
| F 6             | 4.000- 2.800          | F 46            | 0.425- 0.300          | F 280           | 59.0- 22.0     |
| F 7             | 3.350- 2.360          | F 54            | 0.355- 0.250          | F 320           | 49.0- 16.5     |
| F 8             | 2.800- 2.000          | F 60            | 0.300- 0.212          | F 360           | 40.0- 12.0     |
| F 10            | 2.360- 1.700          | F 70            | 0.250- 0.180          | F 400           | 32.0- 8.0      |
| F 12            | 2.000- 1.400          | F 80            | 0.212- 0.150          | F 500           | 25.0- 5.0      |
| F 14            | 1.700- 1.180          | F 90            | 0.180- 0.125          | F 600           | 19.0- 3.0      |
| F 16            | 1.400- 1.000          | F 100           | 0.150- 0.106          | F 800           | 14.0- 2.0      |
| F 20            | 1.180- 0.850          | F 120           | 0.125- 0.090          | F 1000          | 10.0- 1.0      |
| F 22            | 1.000- 0.710          | F 150           | 0.106- 0.063          | F 1200          | 7.0- 2.5       |
| F 24            | 0.850- 0.600          | F 180           | 0.090- 0.053          | by 80%          |                |
| F 30            | 0.710- 0.500          | F 220           | 0.075- 0.045          |                 |                |

| Order No.  | Description                    |
|------------|--------------------------------|
| 92-000-047 | SCDL 80 silicon carbide dark   |
| 92-000-048 | SCDL 120 silicon carbide dark  |
| 92-000-049 | SCDL 150 silicon carbide dark  |
| 92-000-050 | SCDL 180 silicon carbide dark  |
| 92-000-051 | SCDL 220 silicon carbide dark  |
| 92-000-052 | SCDL 240 silicon carbide dark  |
| 92-000-053 | SCDL 280 silicon carbide dark  |
| 92-000-054 | SCDL 320 silicon carbide dark  |
| 92-000-055 | SCDL 360 silicon carbide dark  |
| 92-000-056 | SCDL 400 silicon carbide dark  |
| 92-000-057 | SCDL 500 silicon carbide dark  |
| 92-000-058 | SCDL 600 silicon carbide dark  |
| 92-000-059 | SCDL 800 silicon carbide dark  |
| 92-000-060 | SCDL 1000 silicon carbide dark |
| 92-002-332 | SCDL 1200 silicon carbide dark |

| Order No.  | Description                    |
|------------|--------------------------------|
| 92-000-063 | SCG 320 siliciumcarbide Green  |
| 92-000-064 | SCG 400 siliciumcarbide Green  |
| 92-000-065 | SCG 500 siliciumcarbide Green  |
| 92-000-066 | SCG 600 siliciumcarbide Green  |
| 92-000-067 | SCG 800 siliciumcarbide Green  |
| 92-000-068 | SCG 1000 siliciumcarbide Green |

Packing unit: 25 kg sack

# EMERY LS SERIES

## Technical

Different types with grain sizes between 6 and 40 µm available.

## Benefits

- Scraping material removal
- Plane shape crystals enlarge the working surface
- High stock removal
- Minimum surface roughness
- Short cycle times
- Minimised process steps
- Minimum consumption of abrasives

## Recommendations

- LS should be used with the same concentration as previously used emery. In order to benefit from high stock removal rates it makes sense to find an optimum between desired removal rate and a reduced fraction of LS with the lapping suspension.
- We recommend starting with a concentration of 300 – 500 g/l.



Highly sintered clay (aluminium oxide Al<sub>2</sub>O<sub>3</sub>) for lapping optical components with loose grain. Due to a special production process emeries LS get a disc like shape. LS emeries are especially successful in cases where working with diamond tools is not efficient due to limited-lot productions.

| Macro grits     |                       |                 |                       | Micro grits     |                |
|-----------------|-----------------------|-----------------|-----------------------|-----------------|----------------|
| DIN Description | Middle grit size (mm) | DIN Description | Middle grit size (mm) | DIN Description | Grit size (µm) |
| F 4             | 5.600- 4.000          | F 36            | 0.600- 0.425          | F 230           | 82.0- 34.0     |
| F 5             | 4.750- 3.335          | F 40            | 0.500- 0.355          | F 240           | 70.0- 28.0     |
| F 6             | 4.000- 2.800          | F 46            | 0.425- 0.300          | F 280           | 59.0- 22.0     |
| F 7             | 3.350- 2.360          | F 54            | 0.355- 0.250          | F 320           | 49.0- 16.5     |
| F 8             | 2.800- 2.000          | F 60            | 0.300- 0.212          | F 360           | 40.0- 12.0     |
| F 10            | 2.360- 1.700          | F 70            | 0.250- 0.180          | F 400           | 32.0- 8.0      |
| F 12            | 2.000- 1.400          | F 80            | 0.212- 0.150          | F 500           | 25.0- 5.0      |
| F 14            | 1.700- 1.180          | F 90            | 0.180- 0.125          | F 600           | 19.0- 3.0      |
| F 16            | 1.400- 1.000          | F 100           | 0.150- 0.106          | F 800           | 14.0- 2.0      |
| F 20            | 1.180- 0.850          | F 120           | 0.125- 0.090          | F 1000          | 10.0- 1.0      |
| F 22            | 1.000- 0.710          | F 150           | 0.106- 0.063          | F 1200          | 7.0- 2.5       |
| F 24            | 0.850- 0.600          | F 180           | 0.090- 0.053          | by 80%          |                |
| F 30            | 0.710- 0.500          | F 220           | 0.075- 0.045          |                 |                |

| Order No.  | Description                                         |       |
|------------|-----------------------------------------------------|-------|
| 92-000-033 | LS/Plakor 6 aluminium oxide with floating agent     | 6 µm  |
| 92-000-034 | LS/Plakor 9 aluminium oxide with floating agent     | 9 µm  |
| 92-000-035 | LS/Plakor 12 aluminium oxide with floating agent    | 12 µm |
| 92-000-036 | LS/Plakor 15 aluminium oxide with floating agent    | 15 µm |
| 92-000-037 | LS/Plakor 20 aluminium oxide with floating agent    | 20 µm |
| 92-000-041 | LS/Plakor 20 aluminium oxide without floating agent | 20 µm |
| 92-000-038 | LS/Plakor 25 aluminium oxide with floating agent    | 25 µm |
| 92-000-039 | LS/Plakor 30 aluminium oxide with floating agent    | 30 µm |
| 92-000-040 | LS/Plakor 40 aluminium oxide with floating agent    | 40 µm |

Packing unit: 25 kg cardboard box

# EMERY LS SERIES

## General notes from manufacturer of emery:

- When filling in conventional abrasives such as fused AL<sub>2</sub>O<sub>3</sub> or SIC start with half the amount of abrasive.
- Stir the abrasive into the water. Not the other way round.
- Warm water will aid mixing.
- Allow sufficient time for thorough mixing and wetting the particles before start lapping operations .
- Because of the big surface area thorough wetting is most important as other wise agglomerates will remain.
- Agglomerates cause scratches!
- As the mixture loads with glass and metal particles ad only water to maintain the proper consistency.  
When the cutting rate finally does markedly decrease, clean and recharge the system.

LS – emery suspension (with floating agent)  
Mixing is everything

Brush feed: Slurry mixture by weight  
3 parts water – 1 part emery

Once through Systems: Slurry mixture by weight  
4 parts water – 1 part emery

Recirculation Systems: Slurry mixture by weight  
5 parts water – 1 part emery

## DIAMOND PELLETS

- Diameter range: 4–30 mm
- Thickness range: 2–20 mm
- Grit sizes available: 2–184 µm
- Additional grit sizes available on request
- Standard concentrations: C30 and C50
- Custom concentrations available on request
- Shape: Round
- Bond types available: Plastic, hybrid, ceramic, stainless steel, or metal-bonded diamond pellets



# CERIUM OXIDE POLISHING COMPOUNDS

## Technical

Detailed data sheets available on request.

## Benefits

Quality control: All batches are checked before delivery with the regard of the four main criteria, i.e. hardness, grit size, suspension properties and polishing efficiency.

## Recommendations

- Before changing over from any other polishing compound to Satisloh polishing compounds machine tubes, pumping and polishing systems have to be cleaned thoroughly.
- In order to avoid glass particles or other pollution getting into circulation, the polishing slurry should be filtered. e.g. with our filter tissue for polishing compounds or a nylon stocking which is placed at the return piping.

## Applications (mineral glass)

| Polish                        | Polishers                                                                | Pressure (bar) | Revolution (r.p.m.) | Fields of application                                             |
|-------------------------------|--------------------------------------------------------------------------|----------------|---------------------|-------------------------------------------------------------------|
| Opaline                       | Polishing pitch<br>Plano Polishing Disc<br>Polish supports KR and LR     | > 0.25         | 5 – 180             | Precision optics                                                  |
| SuperCerox 1663               | Polishing pads:<br>Standard<br>Polyurethane<br>166, 126, 146<br>Multipol | 0.8 – 1.5      | 800 – 3000          | Ophthalmic<br>RX-production<br>Mass production<br>Bifo-production |
| SuperCerox 1663<br>Cerox 1650 | PU-foils<br>166, 126,<br>135, 125                                        | 0.8 – 1.5      | 400 – 3000          | Plano optic<br>Round optics<br>Fibre optic                        |
| Cerox 1670                    | Polishing felt<br>Synth. Felt<br>Soft PU-foils<br>126, 146               | 0.25 – 0.8     | 180 – 400           | Mirror bevels<br>Flat glass<br>Crystal glass                      |



Water-mixable polishing compounds based on cerium oxides made from rare earths for the polishing of optical elements. The polishing compounds have to get mixed with water.

# POLISHING COMPOUND CEROX

## Concentration / Polishing Temperature:

Apart from pressure and polishing speed, these are important parameters for a constant polishing quality. Both should be regularly checked with an aerometer and a thermometer.

| Polish            | Concentration per l/water | Temperature (°C) |
|-------------------|---------------------------|------------------|
| Cerox 1650 / 1670 | 100 – 140 g               | 20- 25°          |
| SuperCerox 1663   | 60 – 80 g                 | 20- 25°          |
| Opaline           | 100 – 120 g               | 20- 25°          |

| Order No.                  | Description     | Packing unit |
|----------------------------|-----------------|--------------|
| <a href="#">92-000-121</a> | Cerox 1650      | 20 kg carton |
| <a href="#">92-000-122</a> | SuperCerox 1663 | 20 kg carton |
| <a href="#">92-007-032</a> | Cerox 1670      | 20 kg carton |
| <a href="#">92-000-124</a> | Opaline         | 20 kg pail   |



## POLISHING COMPOUND CE 480 ST

### Technical

- Color: beige / white
- pH – value: 6,5
- Medium grit size 1,0 µm
- CeO<sub>2</sub>: > 95%

### Benefits

- Ready to use – no additional preparation necessary
- Perfectly suited for the highest surface quality requirements
- Designed for easily scratched, soft materials

### Applications + Recommendations

- The polishing suspension can be diluted at a ratio of 1 : 10 (depending on the polishing process)
- Store and transport frost-free. Freezing of the suspension can impair its polishing properties.

| Order No.  | Description | Packing unit       |
|------------|-------------|--------------------|
| 92-000-129 | CE480       | gallons per carton |



Ready-mixed, stabilized cerium oxide polishing suspension for the highest surface quality requirements

## POLISHING COMPOUND CE 600 T LIQUID

### Technical

- Color: creme-white
- pH-value: 7,9
- Density: 1,02 g/cm<sup>3</sup>
- Viscosity: 11s 4mm
- DIN 53211

### Benefits

- A combination of high stock removal in conjunctions with high surface quality requirements
- The suspension has been optimized with regard to its floating properties
- Agglomerate-free
- Can be diluted at a ratio of up to 1:7
- No scratches on soft lenses

### Applications + Recommendations

- Before filling, the system should be thoroughly cleaned and flushed out with clean water.
- Fill the tank with municipal water or distilled water and add CE 600 T Liquid at the required mixing ratio
- Store and transport frost-free. Freezing of the suspension can impair its polishing properties.

| Order No.  | Description     | Packing unit |
|------------|-----------------|--------------|
| 92-004-425 | CE 600 T liquid | 5 kg can     |

Polishing suspension specially made for polishing surfaces to the highest quality. Ready to use, stabilized and agglomerate-free, white cerium oxide polishing suspension

# POLISHING COMPOUND HASTILITE PO

## Technical

- Color: beige / white
- pH – value: 6,0-7,0
- Medium grit size: 0,8 µm
- CeO<sub>2</sub>: > 95%

## Benefits

- Ready to use – no additional preparation necessary
- Perfectly suited for the highest surface quality requirements

## Applications

- The polishing suspension can be diluted at a ratio of 1 : 10 (depending on the polishing process)

## Recommendation

- Store and transport frost-free. Freezing of the suspension can impair its polishing properties.

| Order No.  | Description  | Packing unit       |
|------------|--------------|--------------------|
| 92-003-838 | Hastilite PO | gallons per carton |



Ready-mixed, stabilized cerium oxide polishing suspension for the highest surface quality requirements

# POLISHING COMPOUND CR 6, 15A, 85B/ POLY-PRO

## Technical

### CR 6

- Color: white
- Grit size: from D20-D90 0.30 µm up to 1.50 µm

### CR 15A

- Color: white
- Grit size: from D20-D90 0.20 µm up to 0.90 µm

### CR 85B

- Color: white
- Grit size: from D20-D90 0.20 µm up to 0.70 µm

## Benefits

- High purity

## Recommendations

- Before changing over from any other polishing compound to polishing compound CR 6 / 15A / 85B, machines, tubes, pumping and polishing system have to be cleaned thoroughly.
- In order to avoid glass particles or other pollution getting into circulation, the polishing slurry should be filtered, e.g. with our filter tissue for polishing compounds or a nylon stocking which is placed at the return piping.

| Order No.  | Description            |         | Packing unit |
|------------|------------------------|---------|--------------|
| 92-000-126 | CR 6 aluminium oxide   | 0,6 µm  | 2 kg pail    |
| 92-000-127 | CR 15A aluminium oxide | 0,45 µm | 2 kg pail    |
| 92-000-128 | CR 85B aluminium oxide | 0,35 µm | 0,5 kg pail  |
| 92-005-541 | PolyProAllformat       |         |              |



An aluminium-oxide water-mixable polishing powder of high purity (99%, min. 98%) for the final polishing of special materials in precision optics such as: germanium, silicon, zinc selenide, zinc sulfide, gallium arsenide, cadmium sulfide, all kinds of metals, medical artificial limbs, resin surface, acrylics, ceramic substrates.



Premium polish for one-step polishing process.

# POLISHING COMPOUND SY 30 - 85

## Technical

- Particle size: approx. 125 nm
- Specific surface: 80 m<sup>2</sup>/g
- SiO<sub>2</sub>-quota: 30%
- Na<sub>2</sub>O-quota: 0.13%
- Relation SiO<sub>2</sub>/Na<sub>2</sub>O: 230
- pH-value at 20°C: 10.2
- Specific weight at 15.5°C: 1.20 g/ccm
- Viscosity at 20°C: 2.5 mPa-s
- Appearance: milky, thin liquid
- Quantities supplied: 50-l-barrel

## Benefits

- SY 30-85 can be thinned very easily with distilled water or fully desalted water to get any desired concentration.

## Recommendation

- It can furthermore be mixed with water-soluble acids (except hydrofluoric acid) and with ammonia as well as most of the amines.
- SY 30-85 is compatible with many watery dispersions, e.g. melamine urea, phenolic resin, PVA-adhesives, starch, etc.

| Order No.  | Description | Packing unit |
|------------|-------------|--------------|
| 92-000-138 | SY 30-85    | 50 l barrel  |



A ready-mixed polishing compound based on silicic acid / alu oxide for chemical polishing of sapphire using our polishing supports Policor or Mambo.

# POLISHING COMPOUND OXIDE 112-O WHITE

## Technical

- Color: creme-white
- pH-value (25 %): 5.0- 7.5
- Average grit size:
- D50 : 1.0 – 1.5  $\mu\text{m}$
- D3 : 4.0  $\mu\text{m}$
- Analysis: Zr-Oxide and Fe-Oxide

## Recommendations

- Before changing over from any other polishing compound to Satisloh Oxicon, machines, tubes, pumping and polishing system have to be cleaned thoroughly.
- In order to avoid glass particles or other pollution getting into circulation the polishing slurry should be filtered, e.g. with our filter tissue for polishing compounds or a nylon stocking which is placed at the return piping.
- It is recommended to „pre-soak“ Oxicon for about 24 hours before filling into the machine and then to „pre-polish“ for about 8 hours. This will destroy any existing agglomerates.

| Order No.  | Description                        | Packing unit |
|------------|------------------------------------|--------------|
| 92-000-132 | Zirconium Oxide Oxicon 112-O white | 20 kg pail   |



Zirconium Oxide Oxicon 112-O white, a water-mixable compound powder, for pre-polishing optical elements in precision optics.

# POLYURETHANE POLISHING FOIL

## Technical

- Polyurethane polishing foil is available in sheets of 580 x 1400 mm
- Thickness from 0.51 mm up to 25.4 mm
- Further configurations on request
- Furthermore possible: cutting in special geometrics
- Quantities supplied: sheets or single polishing discs

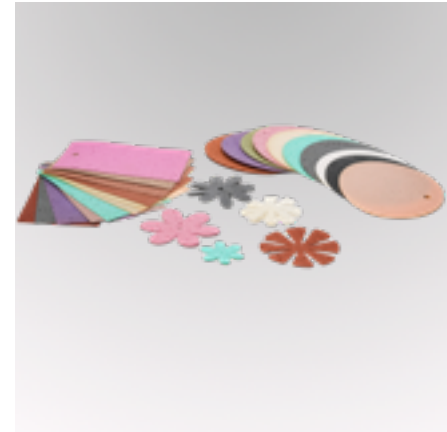
## Benefits

- Available with or without filling material (cerium oxide or zirconium oxide)
- Filling material independent from polish

## Recommendation

- Satisloh recommends using either Pattex as an adhesive for polyurethane as per the directions given on the adhesive package.
- In order to secure constant polishing results we recommend roughing the foils from time to time with a soft file brush.

| Type of tape | Color/Filler                      | Hardness Shore „D“ | Application                                             | Ophthalmic: O<br>Precision optics: P |
|--------------|-----------------------------------|--------------------|---------------------------------------------------------|--------------------------------------|
| 113          | cerium oxide                      | 13- 19             | glass sensitive to scratches<br>crystal glass surfaces  | P                                    |
| 125          | grey unfilled                     | 25- 33             | color filter, reticles                                  | P                                    |
| 126          | pink<br>zirconium<br>oxide        | 33- 43             | mass production (spherical)                             | O                                    |
|              |                                   |                    | round optics, illumination optics,                      | O                                    |
|              |                                   |                    | flat glass/mirror glass                                 | P                                    |
|              |                                   |                    |                                                         | P                                    |
| 135          | grey<br>zirconium<br>oxide        | 33- 43             | round optics, micro optics,                             | P                                    |
|              |                                   |                    | plano substrates                                        | P                                    |
| 146          | light green<br>zirconium<br>oxide | 20- 30             | multifocal lenses (concave)                             | O                                    |
|              |                                   |                    | sapphire, illumination optics<br>TV screens             | P                                    |
| 157          | white<br>unfilled                 | 30- 40             | round optics for cameras                                | P                                    |
|              |                                   |                    | microscopes, telescopes etc.<br>laser optics            | P                                    |
| 166          | red-brown<br>cerium oxide         | 20- 30             | special glasses (bulbs)                                 | P                                    |
|              |                                   |                    | round optics for cameras,                               |                                      |
|              |                                   |                    | binoculars, microscopes                                 | P                                    |
|              |                                   |                    | all kinds of plano optics                               | P                                    |
|              |                                   |                    | illumination optics                                     | P                                    |
|              |                                   |                    | quartz crystals                                         | P                                    |
|              |                                   |                    | flat glass/bevel polishing                              |                                      |
|              |                                   |                    | moulds processing                                       | O                                    |
| 177          | medium<br>brown<br>cerium oxide   | 22- 37             | semi-conductors, magnet heads,                          | P                                    |
|              |                                   |                    | quartz glass, laser optics                              |                                      |
| 187          | salmon-pink<br>unfilled           | 45- 50             | crystal glass<br>gem processing                         | P                                    |
| 188          | light-brown<br>cerium oxide       | 60- 67             | fibre optics                                            | P                                    |
|              |                                   |                    | crystal glass bevels                                    |                                      |
| Laser        | white                             |                    | LP laser                                                | P                                    |
| 26D          | purple                            |                    | LP 26D, filled with diamond for<br>processing of GE, SI | P                                    |



A film micro-cell polyurethane foam for the polishing of glass in precision optics and ophthalmic, ceramics, pick-ups, screens, seals, quartz crystals, illumination optics, etc.

The foils are available in the following thicknesses:

0.51 mm  
0.81 mm  
1.02 mm  
1.27 mm  
1.52 mm  
2.03 mm  
2.54 mm  
3.00 mm  
3.18 mm  
3.96 mm  
4.75 mm  
6.35 mm  
12.7 mm  
25.4 mm

Further information on request.

## POLISHING FOIL POLICOR

### Technical

- Policor polishing foil is available in sheets of 890 x 890 x 1.15 mm.

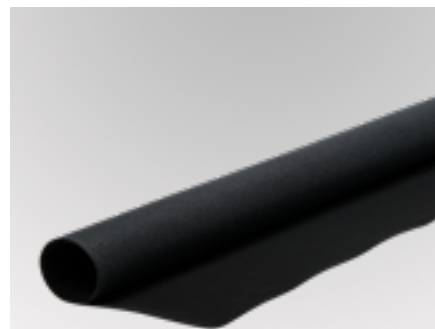
### Benefits

- Excellent polishing results

### Recommendations

- Policor polishing foil is usually stuck to tools with Pattex.
- The final polishing of silicon, germanium, zinc selenide, gallium arsenide is made with pitch as a polishing compound carrier (see polishing compound CR 6/15A/85B).

| Order No.  | Description            | Packing unit                |
|------------|------------------------|-----------------------------|
| 92-000-246 | Polishing foil Policor | 890 x 890 x 1.15 mm, sheets |



A velvety special polishing cloth for polishing special materials such as silicon, germanium, zinc selenide, gallium arsenide, special steel, special metals, ceramics, plastic (acrylic glass) etc.

## POLISHING FELTS

### Technical

- Polishing felt:  
Natural polishing felt, ground on both sides, medium hardness, for polishing in conjunction with cerium polishing compounds  
Color: white, grey

| Order No.  | Description       | Packing unit             |
|------------|-------------------|--------------------------|
| 92-000-242 | Natural Felt 100  | 1000 x 1000 x 1 mm, 1pc  |
| 92-000-243 | Natural Felt 300  | 1000 x 1000 x 3 mm, 1pc  |
| 92-000-244 | Natural Felt 1000 | 1000 x 1000 x 10 mm, 1pc |



A natural polishing felt, ground on both sides, medium hardness, for polishing in conjunction with cerium polishing compounds.

# POLISHING DISC KR AND LR

## Technical

- Available in round discs of 123 mm in diameter
- Polishing Disc LR-05 with longitudinal profile + polishing compound SuperCerox 1663 for pre-polishing plano optics
- Polishing Disc KR-05 with cubical structure + polishing compound OPALINE for finish polishing spheres

## Benefits

- Excellent polishing results
- Highly abrasion-resistant

## Recommendation

- Cutting out Polishing Disc KR and LR: Star-shaped, in segments or pieces. Parallel lines have to be arranged radially if possible. Make small round discs for big lenses and big discs for small lenses. They have to be arranged in sectors, if necessary with an additional circle for large diameters (more than 200 mm).
- Grind-in the tool with emery SCDL 320

| Order No.  | Description       | Packing unit |
|------------|-------------------|--------------|
| 92-000-154 | Polishing Disc KR | KR-05 123 mm |
| 92-000-152 | Polishing Disc LR | LR-05 123 mm |



A polishing compound carrier of durable plastic with ribbed surface for polishing of plano surfaces and round optics in precision optics.

# POLISHING PITCH

## Technical

- Softening points:  
 Measuring method: ISO 4625  
 Measuring tool: ring and ball  
 no. 55 63-65°C  
 no. 64 64-68°C  
 no. 73 70-74°C  
 no. 82 73-77°C  
 no. 91 78-93°C
- Penetration:  
 Measuring method: DIN / ISO 52010  
 Measuring tool: with needle  
 Measuring time: 5 s  
 Measuring temperature: 20°C  
 Stress on needle: 50 g  
 no. 55 1.51 – 1.83 mm  
 no. 64 0.31 – 0.55 mm  
 no. 73 0.03 – 0.10 mm  
 no. 82 0.00 – 0.07 mm  
 no. 91 0.00 – 0.04 mm

## Recommendations

- The applicability of a polishing pitch depends on the polishing method, the ambient temperature and its softening qualities and fusibility. Polishing method mainly means the so-called cold polishing with circular lubrication and warm polishing with brush lubrication. The solidifying point should be slightly above the ambient temperature, the softening point (begin of plastic deformation) must not exceed the solidifying point by more than 5°C. The melting point should be by 30-50°C higher than the softening point.
- The pitch has to be flexible which is achieved by the influence of the polishing temperature. The pitch, however, has to be hard and brittle to achieve the required form exactness when polishing. In working practice the polishing pitch is slightly warmed up in order to fit the optical element. The pitch tool is then chilled by applying cold polishing compound (approx. 20°C) so that subsequent polishing takes place in the newly adjusted form.
- 92-000-814 lime wood flour as polishing additive for pitch

## Applications

Recommended polishing compounds:

|                    |                                                                           |
|--------------------|---------------------------------------------------------------------------|
| Cerox 1650:        | round optics                                                              |
| > 3 Newton rings:  | plano optics                                                              |
| Opaline:           | round optics                                                              |
| < 3 Newton rings:  | plano optics                                                              |
| CR6 / CR15 / CR85: | special optics, e.g. silicon, germanium, zinc selenide, gallium, arsenide |



A polishing compound carrier based on wood tar resins, fatty acids, phenols and resin acids for polishing high precision optical elements in precision optics.

| Order No.  | Description            | Packing unit |
|------------|------------------------|--------------|
| 92-000-250 | Polishing Pitch No. 55 | 1 kg tin     |
| 92-000-251 | Polishing Pitch No. 64 | 1 kg tin     |
| 92-000-252 | Polishing Pitch No. 73 | 1 kg tin     |
| 92-000-253 | Polishing Pitch No. 82 | 1 kg tin     |
| 92-000-254 | Polishing Pitch No. 91 | 1 kg tin     |

# SYNTHETIC POLISHING COMPOUND CARRIER ACCULAP®

## Technical

- Soft: hardness 9
- Standard: hardness 30
- Very firm: hardness 60

## Benefits

- High purity
- Precision formulated
- Non-drying
- Ultra consistent

## Recommendation

- Acculap® polishing compound carriers dominantly comprise styrenic polymers and consequently are highly stable against chemical attack, including high temperature oxidation or degradation. Suspensions containing alcohol can be used for polishing.
- Acculap® polishing compound carriers are not immediately water wetting. As polishing begins, however, wetting of the lap occurs quickly as slurry particles embed in the pitch surface.
- Warm or cold pressing with slurry will accelerate charging.

### Polishing characteristics:

Once charged, under given lapping conditions, Acculap® will polish much like natural pitch of comparable hardness. Just as with natural pitches, periodic dressing and trimming of the lap, as well as replacement of slurry, will be required.

### Cementing characteristics

The Acculap is also useful as an optical cement. It is very homogeneous and can be applied in very thin layers.

## Applications

In general, Acculap® polishing compound carriers are poured near 135°C (similar to natural pitch). At this temperature, Acculap® spreads and pours easily. Acculap® bonds well to most materials, particularly surfaces warm prior to application. Aggressive bonding is facilitated by pretreatment of surfaces with a coat of Acculap® dissolves in acetone. Once poured, Acculap® is somewhat more brittle than natural pitches, leading to some differences in channelling. Typically, however, only minor refinement of technique is needed to achieve excellent results. Sharp blades and fast cutting speeds work best.



These polishing compound carriers have been especially designed for use in precision optics showing extremely stable and consistent properties.

| Order No.  | Description                                         | Packing unit |
|------------|-----------------------------------------------------|--------------|
| 92-007-334 | Synthetic polishing compound carrier Acculap® HA 9  | 0.333 kg     |
| 92-007-335 | Synthetic polishing compound carrier Acculap® HA 30 | 0.333 kg     |
| 92-007-336 | Synthetic polishing compound carrier Acculap® HA 60 | 0.333 kg     |

## OPTICAL CEMENTS

### Recommendations

The customer himself chooses the type of cement he needs because very different criteria have to be considered such as stress susceptibility of the optical elements, rising temperatures during polishing, cementing procedures, thickness of the cement coating, required resistance to oil, procedure of decementing and cleaning. Following our own experience and that of our customers we are, however, in a position to make recommendations for the different applications. As we deal with natural products variations cannot be excluded. However, these variations are within the range of toleration of the manufacturer.



Ready-made optical cements of different compositions for cementing optical elements onto loose and fixed tools in precision optics, micro optics and plano optics.

| Order No.  | Product                               | Melting point | Oil resistance         | solubility                | Main components                 | Application                                    | Packing unit                 |
|------------|---------------------------------------|---------------|------------------------|---------------------------|---------------------------------|------------------------------------------------|------------------------------|
| 92-000-418 | Rounding cement red                   | approx. 75°C  | limited oil resistance | not spirit soluble        | colophonium shellac earth-spars | rounding                                       | sticks<br>20 x 1.5 x 1 cm    |
| 92-000-413 | Cement sealing wax brown No. 300      | approx. 65°C  | not oil resistant      | spirit soluble            | colophonium shellac earth-spars | plano optics and big lenses<br>pitch malleling | plates<br>39 x 18.5 x 3,5 cm |
| 92-000-414 | Cement sealing wax black No. 13       | approx. 70°C  | limited oil resistance | spirit soluble            | colophonium earth-spars resin   | plano optics and big lenses<br>pitch malleling | bars<br>18.5 x 5 x 3.5 cm    |
| 92-000-415 | Cement sealing wax black No. 2        | approx. 70°C  | limited oil resistance | not spirit soluble        | colophonium shellac earth-spars | small and medium size lenses                   | sticks<br>20 x 1.5 x 1 cm    |
| 92-000-416 | Cement sealing wax black No. 1        | approx. 70°C  | limited oil resistance | not spirit soluble        | colophonium shellac earth-spars | micro optics                                   | sticks<br>20 x 1.5 x 1 cm    |
| 92-000-417 | Cement sealing wax black No. 9 b/soft | approx. 50°C  | limited oil resistance | limited spirit solubility | colophonium shellac earth-spars | micro optics                                   | sticks<br>20 x 1.5 x 1 cm    |
| 92-000-421 | Special cement sealing wax C/15 black | approx. 55°C  | not oil resistant      | spirit soluble            | colophonium resinwax            | plano optics<br>big lenses<br>sawing           | bars<br>18.5 x 5 x 3.5 cm    |
| 92-002-532 | Special cement C/30 Yellow mat        | approx. 40°C  | limited oil resistance | limited spirit solubility | colophonium wax                 | plano optics<br>sawing                         | bars<br>18.5 x 5 x 3.5 cm    |
| 92-000-420 | Special cement C/20 II yellow         | approx. 40°C  | limited oil resistance | limited spirit solubility | colophonium wax                 | plano optics<br>sawing                         | sticks<br>20 x 1.5 x 1 cm    |
| 92-000-407 | Colophonium                           | 80-125 °C     | well soluble in oil    | spirit soluble            | colophonium                     | component                                      | 50 kg                        |

# SYNTHETIC CEMENT ULTRA-SK

## Technical

- Initial concentration:
- Synthetic resin SK: 2 parts
- Ultramoll III: 1 part

## Benefits

- For cementing plano substrates susceptible to tension we recommend to:
- Make grooves of about 1 mm of depth into the carrier plate (either in spirals or of cube structure) so that the cement can come out without difficulties and to ensure a thin and even cementing layer.
- Place silk paper onto the warm cementing layer and brush once again with the warmed cement compound. After that press the pre-warmed plano substrates. This will protect the polished surface from damages and avoid any contact to metals.
- Soluble in organic solutions

## Recommendation

- This cement is mixed by the user himself.
- Melting temperature depending on mixture, about 100-120°C

| Order No.  | Description        | Packing unit |
|------------|--------------------|--------------|
| 92-000-409 | Synthetic resin SK | 25 kg sack   |



A synthetic acid-free resin for cementing optical elements on loose and fixed tools in precision optics, micro optics and plano optics. This product is of low tension, does not leave spots on the polished surfaces when de-blocked and has a limited oil resistance.

# CEMENTING FOIL

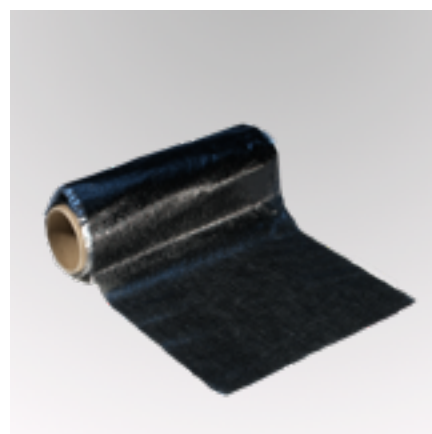
## Technical

- Width of roll: 30 cm
- Length of roll: approx. 60 m
- Thickness of tissue: approx. 0.22 mm
- Packing: per meter (on rolls)

## Benefits

- No metal contact of the lens with the multiple blocks which minimizes restraints
- The artificial resin coming out while cementing is also a protection lacquer for the polished surfaces.
- Acid-free filling avoids spots while decementing the lenses.
- Quick and clean working
- When the cementing temperature as well as the pressure is constant, cementing tolerances of  $\pm 0.01$  mm may be obtained.

| Order No.  | Description    | Packing unit  |
|------------|----------------|---------------|
| 92-014-681 | Cementing foil | ca. 60 m/roll |



A special woven black material soaked in synthetic resin for cementing optical lenses and flat plano workpieces onto multiple blocks.

## SPECIAL PLASTERS FOR PRISMS

### Technical

- Color: white
- Linear expansion: < 0.02 %
- Resistance: 2 N/mm<sup>2</sup> after 24 h
- Grit size: approx. 20 µm
- Quantities supplied: paper sack of 25 kg

### Benefits

This plaster has an extremely low expansion rate.

### Recommendations

- Add the special plaster to the water while stirring permanently.
- As soon as the powder has been fully soaked, stir briskly for 1-2 minutes and pour it as quickly as possible.
- To keep the expansion to a minimum, it is important that the total processing time is not longer than 6 minutes. After 16 min. the plaster is finally cured.
- It is vital to use clean tap water and clean mixing tools.
- To prevent a pre-hardening, please store the special plaster in a dry place.



A synthetic special plaster for blocking prisms in precision optics.

| Order No.  | Description                 | Packing unit |
|------------|-----------------------------|--------------|
| 92-000-412 | Special plasters for prisms | 25 kg sack   |

## VITRALIT® 6128 VT UV/THERMAL CURE ADHESIVE

### Technical

- Radiation cure time: within seconds in UV-A range 320 nm-390 nm
- Thermal cure time: 40 minutes at 120° C
- Free of heavy metals, PFOS, and Phthalates

### Benefits

- Free of heavy metals, PFOS, and Phthalates
- Short curing times
- Good adhesion to a variety of substrates, inclusive glass, metals, and many thermoplastics
- Easy handling
- Easily compensates unevenness and bridges gaps

### Recommendations

To obtain full cure at least one substrate must be transparent to the recommended wavelength. The curing speed will depend on the intensity of light, light source, the exposure time, and the light transmittance of the substrate. Increased mechanical properties are achieved after 12 hours.

### Applications

Adhesive and substrate may not be cold and must be warmed up to room temperature prior to processing. After application, bonding of the parts should be done quickly.

Solvent-free radiation curing adhesive.

| Order No.  | Description | Packing unit    |
|------------|-------------|-----------------|
| 92-000-428 | Vitralit    | 100 gram bottle |

# UVN 2000 UV CURE ADHESIVE

## Technical

|                           |                                                            |
|---------------------------|------------------------------------------------------------|
| Refractive index          | 1.56                                                       |
| Viscosity at 25°C         | 300 to 500 mPa.s                                           |
| Density at 25°C           | 1.2 g/cm <sup>3</sup>                                      |
| Elongation of failure     | 38%                                                        |
| Modulus (psi)             | 1.050 N/mm <sup>2</sup>                                    |
| Tensile/shearing strength | 20.7 N/mm <sup>2</sup>                                     |
| Temperature resistance    | 80°C to + 90°C (constant)<br>100°C to + 135°C (short-term) |
| Expiry time:              | After several months (keep in refrigerator)                |

## Application guidelines

- Before using UVN 2000 remove it from refrigerator ( $\leq +5^{\circ}\text{C}$ ) and let it warm to room temperature ( $\geq 18^{\circ}\text{C}$ ).
- For general applications an optimal UV radiation is in a wavelength range of 354 to 378 nm.
- Cure the lenses for 1 second in a distance from 20 cm with a 100 Watt quicksilver bulb. The lenses are now still re-adjustable, afterwards cure the lenses for another 5 minutes.
- After 3 weeks the UVN 2000 develops fully performance.

## Recommendation

- Surfaces must be dry, clean and free from dust.
- The required quantity of adhesive should be dosed as exactly as possible. After fixing the bonded parts the edges may be cleaned with acetone.
- Apply UVN 2000 onto the center of the lens below. Place the upper lens on top and turn it while slightly pressing so that the adhesive will be evenly spread towards the edges and to remove possible bubbles.
- The pre-curing and final curing times depend on the thickness, size and UV transmission of the lenses.
- Lenses that have been bonded with UVN 2000 can be separated by placing them into cleaning agent Deconex OP-193 (at app. 80°C) and leaving them there for about 24 hours. After that, the parts can be separated with a razor blade and put into Deconex OP-193 again until the cement layer comes off.



UVN 2000 is a solvent-free, crystal clear, single-component UV cure adhesive for bonding optical elements in precision optics. Meets MIL-A-3920C specification

| Order No.  | Description               | Packing unit |
|------------|---------------------------|--------------|
| 92-014-681 | UVN 2000 UV cure adhesive | 28 g bottle  |

## CONTACT ADHESIVE PATTEX

### Technical

- Color: beige
- Specific gravity: 0.89 kg/l
- Solvents: gasoline, acetone
- Vapour pressure: approx. 165 mbar
- Viscosity at 20°C: approx. 1800 mPas

### Recommendations

The surface must be clean and free from oil, dust and other residue. Use acetone or any other solvent for cleaning. If necessary, smooth the tools with loose abrasive to reach a rougher surface.

Apply the adhesive evenly to both surfaces. The glue has to be dry (finger should not stick to the surface any more) before pressing the two surfaces together. The Processing temperature should be between 15°C and 20°C. Adhesion force depends on the height of pressure not on the durance of pressing. For pressing we recommend adequate pressing tools.

| Order No.  | Description             | Packing unit    |
|------------|-------------------------|-----------------|
| 92-000-433 | Contact adhesive Pattex | tube, 125 ml    |
| 92-000-434 | Contact adhesive Pattex | tin can, 650 ml |



A polychloroprene-based special adhesive for applying polishing discs and polishing foils onto tools in ophthalmic and precision optics.

## TWO-COMPONENT ADHESIVE TECHNICOLL

### Recommendations

The surfaces have to be dry, clean and free from dust and oil. A perfect adhesion will be achieved after smoothing the tools with a loose abrasive such as silicone carbide SCDL 320 or LS 30. A thin adhesive film should be applied preferably on both surfaces to be put together (optimum = 0.1 mm joint = about 100g/m<sup>2</sup>). Press slightly. Mixing ratio for Technicoll 8266 = 1:1 (volumetric). Once the red color has changed to cream, the mixture is ready for use.

It is recommended to have the adhesive harden in an oven.

Curing times:

Technicoll 8266/8277 A + B

50°C reduced to approx. 4 h

75°C reduced to approx. 2 h

100°C reduced to approx. 1 h

125°C reduced to approx. 30 min

150°C reduced to approx. 15 min

| Order No.  | Description              | Packing unit |
|------------|--------------------------|--------------|
| 92-000-436 | Technicoll 8266/8267 A+B | 130 g        |



A special adhesive based on epoxy resins for fixing diamond pellets to lapping tools in ophthalmic and in precision optics.

# PROTECTIVE LACQUERS

## Benefits

Protects even delicate prisms & lenses after polishing from steaming up.

## Recommendation

- To reach the required spray viscosity special thinner should be added. Do not use other thinners because of possible side effects.
- We recommend applying a good coat of protective lacquers to the optical surface with a brush or spray gun. Do not use a rubber foam roll (bubble effect).

| Protective lacquer: | Recommended thinner | Cleaning suggestion |
|---------------------|---------------------|---------------------|
| IL 400              | universal thinner   | ethanol             |

| Order No.                  | Description       | Packing unit |
|----------------------------|-------------------|--------------|
| <a href="#">92-000-642</a> | IL 400 black      | 5 l          |
| <a href="#">92-004-578</a> | Universal thinner | 30 kg        |

Both acetone and ethanol can be obtained at your local chemicals shop.



For protecting prisms and lenses during subsequent processing after polishing.

## SURFACE SAVER TAPE SUPERSTICK

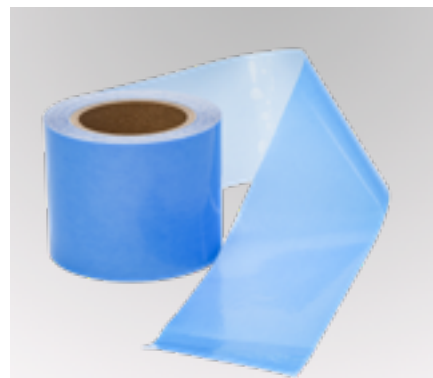
### Technical

- Color: beige
- Specific gravity: 0.89 kg/l
- Solvents: gasoline, acetone
- Vapour pressure: approx. 165 mbar
- Viscosity at 20°C: approx. 1800 mPas

### Recommendations

The surface must be clean and free from oil, dust and other residue. Use acetone or any other solvent for cleaning. If necessary, smooth the tools with loose abrasive to reach a rougher surface. Apply the adhesive evenly to both surfaces. The glue has to be dry (finger should not stick to the surface any more) before pressing the two surfaces together. The Processing temperature should be between 15°C and 20°C. Adhesion force depends on the height of pressure not on the duration of pressing. For pressing we recommend adequate pressing tools.

| Order No.  | Description | Dimensions   |
|------------|-------------|--------------|
| 92-000-457 | Superstick  | 35 m x 10 cm |
| 92-010-303 | Auto Tape   | 35 m x 10 cm |



A polychloroprene-based special adhesive for applying polishing discs and polishing foils onto tools in ophthalmic and precision optics.

## PROTECTION TISSUE PAPER

| Order No.  | Dimensions | Weight             | Packing unit |
|------------|------------|--------------------|--------------|
| 92-000-654 | 50cmx75cm  | 21g/m <sup>2</sup> | 1.500 pcs.   |



Ultra-thin and smooth tissue paper for wrapping, cushioning, or use as an interlayer. The tissue paper is chlorine-free and acid-free.

## CENTERING TAPE

### Technical

- Form: transparent plastic tape
- Dimensions: 100 m x 100 mm reel

### Benefits

- Excellently adapts to lens surfaces while ensuring high compression strength and non-slip
- The tape is not subject to any restrictions concerning shelf life.

### Recommendations

- Tailor the tape to the desired dimension and place between lens and clamping chucks.
- The Satisloh Centering Tape can be used with oil as well as with coolant additives.

| Order No.  | Description    | Packing unit   |
|------------|----------------|----------------|
| 92-004-888 | Centering Tape | 100 m x 100 mm |

Transparent plastic tape protects lenses from fingerprints and scratches when centering.

# DECONEX

## Technical

The deconex range offers specialized alkaline cleaning agents designed for ultrasonic and immersion cleaning of optical components, lenses, precision instruments, and delicate materials. Each formulation is tailored to meet specific requirements in terms of material compatibility, cleaning power, and process conditions.

## Benefits

- Excellent wetting and emulsifying properties for effective removal of polishing compounds, resins, and contaminants.
- Cleaning time is significantly reduced with increased temperature (approx. halved per +10 °C)

## Recommendations

- Ultrasonic cleaning is strongly recommended for optimal results
- Storage: Frost-sensitive; store tightly closed in a dry place at +5 °C to +25 °C



Deconex OP 197 is a liquid, highly alkaline cleaning concentrate for removing color markings, protective film, cement and protective lacquer residues. It is primarily used in the first ultrasonic cleaning stage.

| Order No.                   | Product | Description                                                                                                                                 | PH value | Application area                                                                                                                                          | Unit   |
|-----------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| <a href="#">92-008-111</a>  | Deconex | Stronger formulation for robust cleaning of glass and metal surfaces; excellent for removing polishing residues                             | ~11.7    | Pre-inspection, removal of organic residues (fingerprints, dust)                                                                                          | 14 kg  |
| <a href="#">92-008-112</a>  | OP 121  |                                                                                                                                             |          |                                                                                                                                                           | 35 kg  |
| <a href="#">92-008-117</a>  | Deconex | Optimized for quartz and synthetic materials; superior wetting for complex geometries.                                                      | ~12.5    | Polishing compound removal, protective films, mold cleaning for precision optics                                                                          | 12 kg  |
| <a href="#">92-008-118</a>  | OP 148  |                                                                                                                                             |          |                                                                                                                                                           | 240 kg |
| <a href="#">92-008-121</a>  | Deconex | Similar to OP 163 but with enhanced corrosion protection for delicate metal alloys.                                                         | ~7.8     | Neutral, phosphate-free, fine cleaning with sequestration before coating                                                                                  | 10 kg  |
|                             | OP 164  |                                                                                                                                             |          |                                                                                                                                                           |        |
| <a href="#">92-000-724</a>  | Deconex | For the use in soaking bath, ultrasonic cleaning systems and special brush and spindle cleaning machines.                                   | 7 – 8    | For stubborn deposits, suitable as a cleaner for pre-cleaning systems, also for manual pre-cleaning.                                                      | 10 kg  |
| <a href="#">92-000-725</a>  | OP 165  |                                                                                                                                             |          |                                                                                                                                                           | 25 kg  |
| <a href="#">92-000-729</a>  | Deconex | Universal high-performance cleaner; combines strong emulsifying action with broad material compatibility for mixed loads.                   | 7.5–7.8  | Removal of waxes and resins before inspection                                                                                                             | 10 kg  |
| <a href="#">92-003-432</a>  | OP 190  |                                                                                                                                             |          |                                                                                                                                                           | 25 kg  |
| <a href="#">92-003-431</a>  |         |                                                                                                                                             |          |                                                                                                                                                           | 220 kg |
| <a href="#">92-006-716</a>  | Deconex | Neutral NMP-free special cleaner for precision optical components – suitable for dipping baths and ultrasonic equipment.                    | ~7       | Removing colour markings from plastic and mineral glass, remove protective film residues and protective lacquers.                                         | 10 kg  |
| <a href="#">92-006-717</a>  | OP 193  |                                                                                                                                             |          |                                                                                                                                                           | 220 kg |
| <a href="#">92-010-735*</a> | Deconex | Alkalinity composition, reduces the surface tension remarkably «prior to inspection» cleaning.                                              | 13,6     | Removal of protective lacquers, putties, resins and pitches, dissolves stubborn protective lacquers as well as specific color markings.                   | 10 kg* |
| <a href="#">92-010-662</a>  | OP 196  |                                                                                                                                             |          |                                                                                                                                                           | 25 kg  |
| <a href="#">92-006-649</a>  |         |                                                                                                                                             |          |                                                                                                                                                           | 210 kg |
| <a href="#">92-000-731</a>  | Deconex | Excellent wetting capability and a high removal capacity for organic dyes and inorganic color pigments, as well as for protective lacquers. | 12       | Highly alkaline liquid cleaning concentrate, removal of colour markings, protective film residues and protective lacquers from plastic and mineral glass. | 25 kg  |
| <a href="#">92-000-732</a>  | OP 197  |                                                                                                                                             |          |                                                                                                                                                           | 220 kg |

\*US only

# AREOMETER/MEASURING CYLINDER

## Benefits

The life time of the polishing slurries can be increased by frequent checking and recovering of density.

## Recommendations

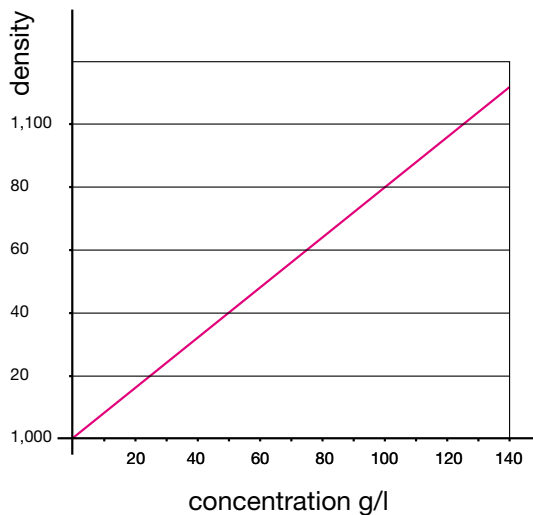
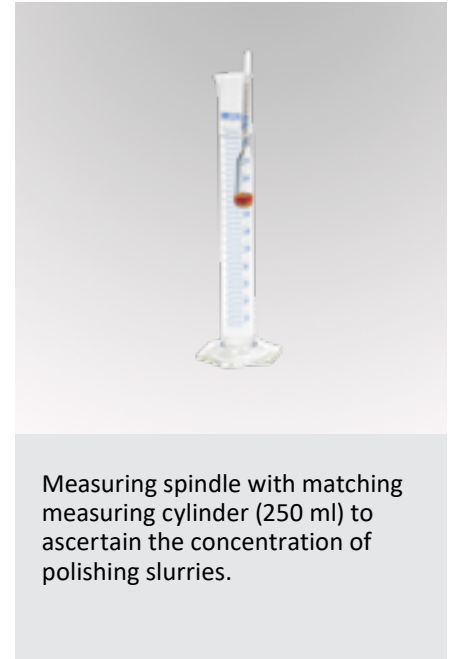
Fill 250 ml of the homogenized polishing slurry into the measuring cylinder at a temperature of 20°C.

In order to homogenise the suspension, shake the cylinder for about 1 min. After that, the areometer is immersed into the liquid without touching the cylinder sides.

After a period of 3.5 minutes the display of the areometer is checked on the top level of the liquid. Find the same value in the vertical axis on the chart and draw a horizontal line to the curve. Vertically below the point of intersection the concentration rate can be found on the concentration axis.

| Type of polish  | Recommended concentration values | Field of application         |
|-----------------|----------------------------------|------------------------------|
| SuperCerox 1663 | 60-80 g/l                        | serial production ophthalmic |
| SuperCerox 1663 | 60-70 g/l                        | RX-production ophthalmic     |
| SuperCerox 1663 | 70-90 g/l                        | precision optics             |

| Order No.                  | Description                                  |
|----------------------------|----------------------------------------------|
| <a href="#">92-000-482</a> | Areometer for mineral w/o measuring cylinder |
| <a href="#">92-000-484</a> | Measuring cylinder for areometer mineral     |



# MANUAL REFRACTOMETER

### Benefits

Quick establishing of the concentration of coolant suspensions..

### Recommendations

Measuring cooling lubricants:

It is recommended to use the scale which is in the refractometer as a reading scale and to multiply- according to the kind of lubricant applied- the indicated value by a refractometer factor, usually contained in data sheets, or this factor may be established by the user as follows:

- Zero point has to be adjusted with the water which is used to prepare the mixings (tap water): By turning the adjusting screw the boundary line is exactly adjusted to „0“ at a temperature of 20°C.
- Prepare required lubricant concentration in water, shake well; e.g. mixture by 5%
- Measuring this mixture with the hand refractometer at the same temperature as when adjusting the zero point; this will result in reading value a. Establishing conversion factor: e.g.  $F = 5/a$
- If any mixture by p-% is prepared, this will result in a refractometer factor to  $F = p/a$
- The temperature correction once effected as described before causes that all further measurements are to be multiplied by this established factor in order to obtain the concentration of the cooling lubricant.

### Applications

- Fold up lighting plate and put 2 or 3 drops on the horizontally held measuring surface
- Shut lighting plate: The measuring surface should be completely wetted by the sample liquid
- Adjust the instrument to a wide-range light source and look through the eyepiece. If necessary, adjust to scale by turning

### Temperature Adjustment

The scales have been determined for a temperature of 20°C. The refractometer is temperature compensated for 10°C - 40°C.



A measuring instrument for checking the concentration of coolant suspensions in ophthalmic and precision optics. Besides an easy handling, this hand refractometer offers a clean measuring method with only small test quantities and no chemicals required.

| Order No.  | Description                     |
|------------|---------------------------------|
| 92-000-480 | Digital RefractometerDR 101-60  |
| 92-000-481 | Handheld Refractometer0-16°Brix |

## FILTER CLOTH

### Technical

- Weight: 20 g/m<sup>2</sup>
- Thickness: 0.09 mm
- Tensile strength dry: length 60 N; cross 8 N
- Tensile strength wet: length 20 N; cross 1.5 N
- Pore size dry: 157-235 µm
- Pore size wet: 115-170 µm
- Pore volume: 85%
- Dimensions: 150m x 35 cm

### Benefits

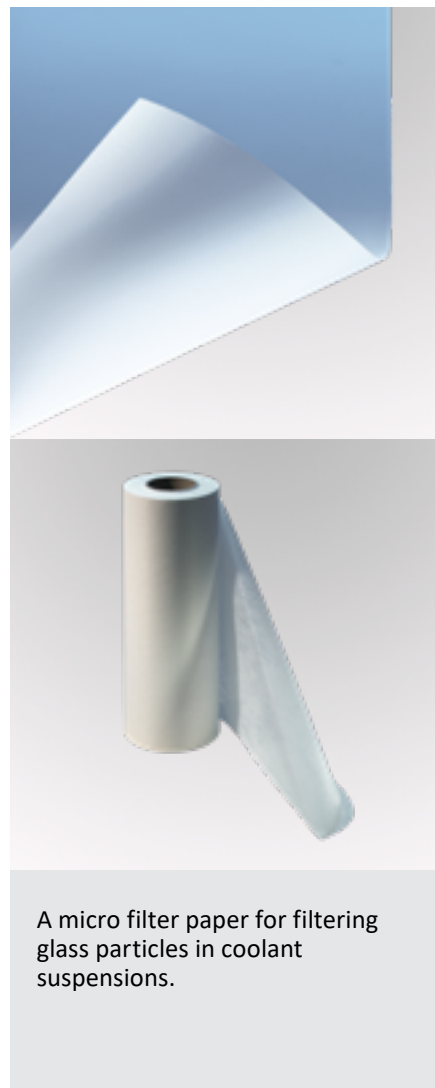
Longer life of the coolant suspension..

### Recommendations

Filter paper to be used on Satisloh coolant filter equipments.

| Order No.  | Packing Unit          |
|------------|-----------------------|
| 92-000-738 | Filtering paper 150 m |

Other roll dimensions on request.



A micro filter paper for filtering glass particles in coolant suspensions.

# DIAMOND SUSPENSION MAGNUM-TOP

## Technical

- Monocrystalline diamond grit
- Narrow calibration, free from agglomerates, free from oil and solvents, odourless
- Water-based

## Benefits

- Perfectly suitable for sprayguns to prevent nozzles and hoses from clogging
- Will not subside for months
- Does not clog

## Recommendations

Diamond suspension (spray) should only be used before polishing. During polishing we recommend diamond lubricants. This improves your polishing results, because of the even abrasion effect of single diamond grain. Permanently adding diamond suspensions or-spray will impair the polishing results.



| Order No.  | Description        | Packing unit |
|------------|--------------------|--------------|
| 92-003-828 | Magnum-Top 0,10 µm | 1000 ml      |
| 92-003-830 | Magnum-Top 0,25 µm | 1000 ml      |
| 92-003-831 | Magnum-Top 1 µm    | 1000 ml      |
| 92-003-832 | Magnum-Top 3 µm    | 1000 ml      |

# DIAMOND LUBRICANT YELLOW-S

## Technical

- Suitable for pitch polishing
- Water based

Suitable for aqueous diamond suspensions.

| Order No.  | Description                | Packing unit |
|------------|----------------------------|--------------|
| 92-003-952 | Diamond lubricant Yellow-S | 10 l         |

All listed products are available from stock.

## DIAMOND SUSPENSION MAGNUM-TOP-DUO

### Technical

- Containing closely calibrated, blocky, monocrystalline diamonds in low-viscous suspension
- Low surface tension and thus very good wetting properties
- A combination of the two well-known components
- Diamond suspension Magnum-Top and Diamond lubricant yellow

### Benefits

- The combination of both components offers:
- Easier handling
- Higher stock removal
- Better surface quality

| Order No.  | Description    |         | Packing unit |
|------------|----------------|---------|--------------|
| 92-009-996 | Magnum-Top-Duo | 0.10 µm | 2500 ml      |
| 92-006-553 | Magnum-Top-Duo | 0.25 µm | 2500 ml      |
| 92-007-791 | Magnum-Top-Duo | 1 µm    | 2500 ml      |
| 92-008-158 | Magnum-Top-Duo | 3 µm    | 2500 ml      |
| 92-008-159 | Magnum-Top-Duo | 6 µm    | 2500 ml      |
| 92-008-160 | Magnum-Top-Duo | 9 µm    | 2500 ml      |



## DIAMOND SUSPENSION POLY-TOP

| Order No.  | Description |         | Packing unit |
|------------|-------------|---------|--------------|
| 92-003-833 | Poly-Top    | 0.10 µm | 1l           |
| 92-003-834 | Poly-Top    | 0.25 µm | 1l           |
| 92-003-835 | Poly-Top    | 1 µm    | 1l           |
| 92-006-423 | Poly-Top    | 3 µm    | 1l           |
| 92-006-721 | Poly-Top    | 6 µm    | 1l           |
| 92-009-355 | Poly-Top    | 15 µm   | 1l           |



# POLISHING CLOTHS SWING-PLUS, QUICK-STEP, MAMBO

## Technical

- **Swing-Plus:**  
Color: grey-black  
Flocked universal polishing cloth with very low flocking, self-adhesive flocked on a solid support suitable for ¼, 1, 3 and 6 µm diamond polish and for O.P.S. and alumina.  
Hardness\*\*, Stock removal\*\*\*, Marginal sharpness\*\*\*, Life time\*\*\*
  - **Quick-Step:**  
Color: white  
Solid artificial fibre cloth for 6, 9, 15 and 30 µm diamond polish self-adhesive also suitable for 3 µm in case of ceramics.  
Hardness\*\*\*, Stock removal\*\*\*+, Marginal sharpness\*\*\*+, Life time\*\*\*+
  - **Mambo:**  
Color: black  
Chemically resistant, spongy oxide polishing cloth, suitable for polishing with oxide polishing suspension (O.P.S.). Ensuring a very good marginal sharpness and non-deforming surfaces.  
Hardness\*\*, Stock removal\*\*, Marginal sharpness\*\*\*+, Life time\*\*\*
- \*= satisfactory, \*\*= good, \*\*\*= good to very good, \*\*\*+= very good

| Order No.  | Description         | Packing unit |      |
|------------|---------------------|--------------|------|
| 92-000-233 | Swing-Policorw. PSA | 250mm Ø      | VE=5 |
| 92-000-235 | Swing-Policorw. PSA | 400mm Ø      | VE=5 |



All polishing cloths can be used for alcoholic and watery polishing suspensions and lubricants. The cloths are available in diameters 200 mm, 250 mm and 300 mm. All other dimensions: customized

# EVAPORANTS FOR AR COATING

## Technical

- High purity and consistency

## Benefits

- Guaranteed consistent high quality and high performance for AR coating processes
- High quality materials
- Approved quality

## Recommendations

- Store in a dry place
- Keep containers closed

## Applications

- All types of optical coatings
- Can be used in all types of coaters that work with thermal or EB evaporation sources



High quality, high performance evaporation materials.

## OXIDES

| Order No.                  | Product                 | Product                        | Form     | Specification | Unit   |
|----------------------------|-------------------------|--------------------------------|----------|---------------|--------|
| <a href="#">92-007-269</a> | aluminium oxide         | Al <sub>2</sub> O <sub>3</sub> | granules | 1-3 mm        | 250 g  |
| <a href="#">92-005-994</a> | silicon dioxide         | SiO <sub>2</sub>               | granules | 1-4 mm        | 500 g  |
| <a href="#">92-005-993</a> | silicon dioxide         | SiO <sub>2</sub>               | granules | 2,5-4 mm      | 500 g  |
| <a href="#">92-005-897</a> | silicon dioxide         | SiO <sub>2</sub>               | granules | 1-3 mm        | 5000 g |
| <a href="#">92-005-986</a> | silicon monoxide        | SiO                            | granules | 2-4 mm        | 250 g  |
| <a href="#">92-007-274</a> | adhesion material       | SiO/Cr                         | granules | 1-3 mm        | 250 g  |
| <a href="#">92-005-265</a> | tantalum pentoxide      | Ta <sub>2</sub> O <sub>5</sub> | granules | 1-4 mm        | 250 g  |
| <a href="#">92-005-997</a> | titanium (II) oxide     | TiO                            | pills    | 1 g           | 250 g  |
| <a href="#">92-005-331</a> | titanium oxide S        | TiO 1.7                        | granules | 1-4 mm        | 250 g  |
| <a href="#">92-007-265</a> | zirconium dioxide grey  | ZrO <sub>2</sub>               | pills    | 13.5 x 9.5 mm | 250 g  |
| <a href="#">92-007-267</a> | zirconium dioxide grey  | ZrO <sub>2</sub>               | pills    | 17.5 x 6 mm   | 250 g  |
| <a href="#">92-007-258</a> | zirconium dioxide white | ZrO <sub>2</sub>               | pills    | 21 x 6 mm     | 250 g  |
| <a href="#">92-007-260</a> | zirconium dioxide white | ZrO <sub>2</sub>               | pills    | 21 x 8 mm     | 250 g  |
| <a href="#">92-007-261</a> | zirconium dioxide white | ZrO <sub>2</sub>               | pills    | 21 x 8 mm     | 5000 g |
| <a href="#">92-005-895</a> | zirconium monoxide      | ZrO                            | granules | 0.5- 4 mm     | 250 g  |

## FLUORIDES

|                            |                    |                  |          |          |       |
|----------------------------|--------------------|------------------|----------|----------|-------|
| <a href="#">92-005-914</a> | magnesium fluoride | MgF <sub>2</sub> | granules | 1-2.5 mm | 500 g |
| <a href="#">92-005-912</a> | magnesium fluoride | MgF <sub>2</sub> | granules | 2.5-4 mm | 500 g |

## METALS

|                            |          |    |          |           |        |
|----------------------------|----------|----|----------|-----------|--------|
| <a href="#">92-005-984</a> | chromium | Cr | granules | 1-4 mm    | 250 g  |
| <a href="#">92-005-983</a> | chromium | Cr | discs    | 20 x 5 mm | 2 pcs. |

others on request, for example:

Oxides, Fluorides, Nitrides, Telluride, Borides, Carbides, etc

# SPUTTERING MATERIALS

## Benefits

- Optimized for Satisloh coating processes and machines
- Assure high proven quality and high performance for Satisloh
- Sputtering processes
- High performance materials and design
- High purity and consistency
- Process guarantee with Satisloh sputtering processes
- Lowest pre-sputtering times
- Designed for extremely high current density

## Recommendations

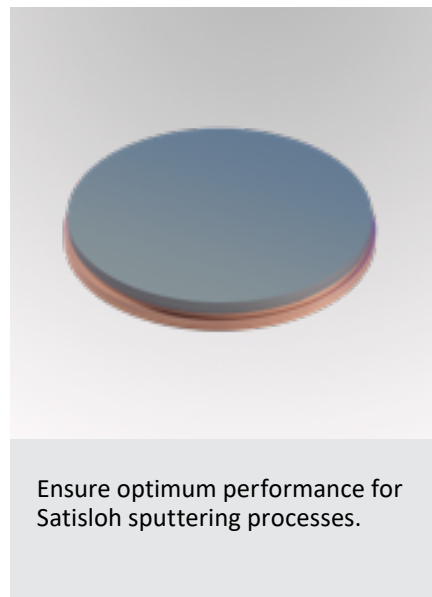
- Store in a dry place
- Always replace a target together with seals and contact foil
- Higher stock removal
- Better surface quality

## Applications

- Satisloh process families for sputter coaters
- EASY- COAT process family
- EASY-COAT MIRROR process family
- Customized coatings

| Order No.  | Product                 | Unit  |
|------------|-------------------------|-------|
| 92-009-192 | SL Target (high purity) | 1 pc. |

Other materials on request!



## TEST GLASSES

### Recommendations

- Store in a dry place

### Applications

- For all coating processes



| Order No.                  | Product Shape | Dimensions   | Material                 | Surface | Unit     |
|----------------------------|---------------|--------------|--------------------------|---------|----------|
| <a href="#">92-006-161</a> | round         | 40 mm        | Floatglas                | clear   | 100 pcs. |
| <a href="#">92-005-197</a> | round         | 24.6 mm      | Floatglas                | frosted | 100 pcs. |
| <a href="#">92-005-877</a> | rectangular   | 40 x 44.5 mm | B270 i Ultra White Glass | clear   | 100 pcs. |
| <a href="#">92-005-882</a> | square        | 45 x 45 mm   | B270 i Ultra White Glass | frosted | 100 pcs. |
| <a href="#">92-006-279</a> | Square        | 45x45mm      | B270 i Ultra White Glass | Frosted | 100 pcs. |

# MONITOR CRYSTALS

### Technical

- Industry standard monitor crystals
- Available with gold, silver and alloy coating
- Usable in most available coating systems

### Benefits

- Proven quality
- High thickness measurement accuracy for highest process stability

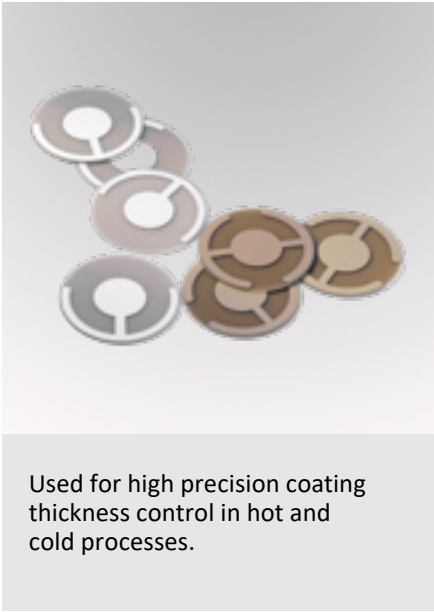
### Recommendations

- Store in a dry place

### Applications

- All box coaters
- All Satisloh AR processes

| Order No.                  | Product              | Nominal Frequency | Diameter | Unit    |
|----------------------------|----------------------|-------------------|----------|---------|
| <a href="#">92-005-219</a> | Gold, double anchor  | 5.98 MHz          | 13.9 mm  | 10 pcs. |
| <a href="#">92-006-283</a> | Gold, double anchor  | 6 MHz             | 13.9 mm  | 10 pcs. |
| <a href="#">92-010-531</a> | Gold, double anchor  | 5.98 MHz          | 13.9 mm  | 10 pcs. |
| <a href="#">92-010-532</a> | Alloy, double anchor | 5.98 MHz          | 13.9 mm  | 10 pcs. |



# CRUCIBLE LINERS FOR ELECTRON BEAM EVAPORATION

## Technical

- Liners made of special material to avoid chemical interaction with the contents
- Specifically designed liners available for granulates or materials in pill form

## Benefits

- Optimum results when utilizing Satisloh coating processes, machines and materials
- Proven quality
- Process guarantee with Satisloh processes
- Long lifetime

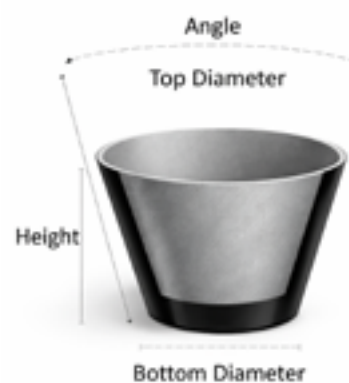
## Recommendations

- Store in a dry place

## Applications

- Applicable in most of the commercial electron beam evaporation systems

Others available on request.



| Order No.  | Use with                  | Bottom Ø/mm | Top Ø/mm | Height/mm | Angle/° | ~ Volume/cm³ |
|------------|---------------------------|-------------|----------|-----------|---------|--------------|
| 92-005-136 | Pills                     | 22          | 30       | 15        | 30      | 1.5          |
| 92-005-139 | Granules                  | 14          | 22.6     | 16        | 30      | 4            |
| 92-005-143 | Granules, SA1G, S15G      | 15.7        | 23       | 17.5      | 30      | 2.7          |
| 92-005-144 | Pills                     | 22          | 30       | 15        | 30      | 1.2          |
| 92-005-148 | Granules, S3F             | 29.5        | 38       | 18,5      | 30      | 9.9          |
| 92-005-149 | Granules, SA1G, SC1G      | 23.4        | 30       | 15        | 30      | 4.7          |
| 92-005-150 | Pills, S22P               | 22          | 30       | 15        | 30      | 2.7          |
| 92-005-151 | Granules, S3F             | 27.1        | 39       | 27.9      | 30      | 19.8         |
| 92-005-152 | Granules                  | 27.1        | 39       | 27.9      | 30      | 2.5          |
| 92-006-666 | Granules, S15G            | 29.5        | 39.4     | 18.5      | 30      | 8.5          |
| 92-009-968 | Granules, S15G            | 17.1        | 23       | 15        | 30      | 2.1          |
| 92-009-993 | Granules, S3F             | 24          | 31       | 15.6      | 30      | 6.8          |
| 92-009-994 | Granules, S3F, SA1G, SC1G | 24          | 31       | 15.6      | 30      | 2.5          |
| 92-009-999 | Pills, S11P               | 15.4        | 22.4     | 15.6      | 30      | 1.3          |
| 92-010-230 | Granules, SA1G, SC1G      | 14.4        | 22.8     | 16.6      | 30      | 1.6          |
| 92-010-231 | Pills, S11P               | 14.4        | 22.8     | 16.6      | 30      | 1.3          |
| 92-011-311 | Granules, SA1G / SC1G     | 28.2        | 38       | 20        | 30      | 3.7          |
| 92-011-487 | Pills, S22P               | 28.2        | 38       | 20        | 30      | 2.6          |
| 92-012-658 | Granules                  | 28.2        | 38       | 20        | 30      | 9.9          |
| 92-014-787 | Pills, S23P               | 31.1        | 38       | 15,5      | 30      | 3.3          |

# EVAPORATION BOATS FOR THERMAL SOURCES

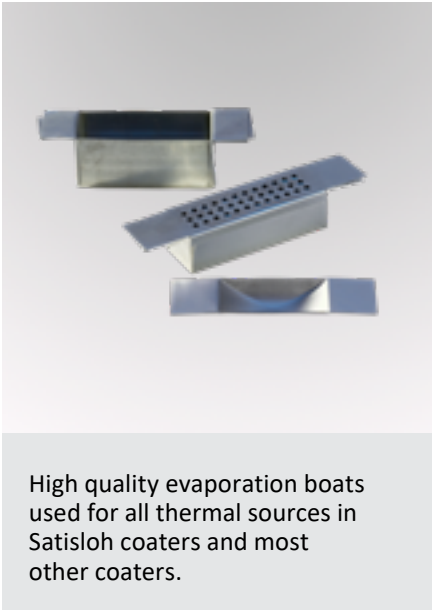
Boats are designed not to react with their content and conduct current optimally.

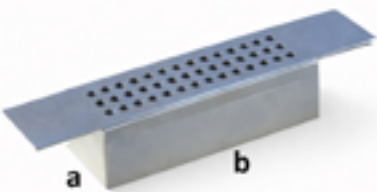
### Benefits

- Optimized for Satisloh and other coating processes, machines and materials
- Proven quality
- Process guarantee with Satisloh processes
- Long lifetime

### Applications

- For Satisloh coating processes with thermal evaporation
- Applicable in most of the commercial thermal sources



| Order No.                                                                           | Product       | A     | B     | Vol.                | Type     | Machine Type                  | Material         | Unit    |
|-------------------------------------------------------------------------------------|---------------|-------|-------|---------------------|----------|-------------------------------|------------------|---------|
|  |               |       |       |                     |          |                               |                  |         |
| 92-006-298                                                                          | Boat no. 7    | 12 mm | 65 mm | 6,0 cm <sup>3</sup> | lid      | Box coaters, 900, 1200 series | Color substances | 10 pcs. |
| 92-006-295                                                                          | Boat CV       | 12 mm | 44 mm | 3,0 cm <sup>3</sup> | lid      | Box coaters, 900, 1200 series | Color substances | 10 pcs. |
| 92-007-628                                                                          | Boat top coat | 12 mm | 44 mm | 2,2 cm <sup>3</sup> | lid      | Box coaters                   | Top coats        | 10 pcs. |
|  |               |       |       |                     |          |                               |                  |         |
| 92-006-147                                                                          | Boat          | 25 mm | 63 mm | flat                | open top | Box coaters                   |                  | 20 pcs. |
|  |               |       |       |                     |          |                               |                  |         |
| 92-008-590                                                                          | Boat top coat | 12 mm | 44 mm | 3 cm <sup>3</sup>   | open top | Box coaters                   | Top coats        | 10 pcs. |

# FILAMENTS FOR ELECTRON BEAM AND ION SOURCES

## Benefits

- Proven quality
- Process guarantee for Satisloh processes

## Recommendations

- Store in a dry place

## Applications

- Mark I, I+, II, II+ ion guns and thermal electron beam gun



High quality filaments for electron beam guns and ion guns for Satisloh coaters and most other coaters.

| Order No.                  | Product          | Specification    | System            | Unit    |
|----------------------------|------------------|------------------|-------------------|---------|
| <a href="#">92-006-293</a> | Filament         | Mark II          | Ion gun Mark II   | 10 pcs. |
| <a href="#">92-007-277</a> | Filament         | Mark II+         | Ion gun Mark II+  | 10 pcs. |
| <a href="#">92-006-294</a> | Filament         | Mark I           | Ion gun Mark I    | 10 pcs. |
| <a href="#">92-007-547</a> | Filament         | Mark I+          | Ion gun Mark I+   | 10 pcs. |
| <a href="#">92-005-229</a> | Filament + gauge | Standard emitter | Temescal E.B.-Gun | 5 pcs.  |
| <a href="#">92-005-235</a> | Filament TL      | Standard emitter | Temescal E.B.-Gun | 1 pc.   |
| <a href="#">92-016-646</a> | Filament         | Mark II          | Ion gun Mark II   | 10 pcs. |
| <a href="#">92016-650</a>  | Filament         | Mark II+         | Ion gun Mark II+  | 10 pcs. |

# CONSUMABLES FOR ION GUNS

## Benefits

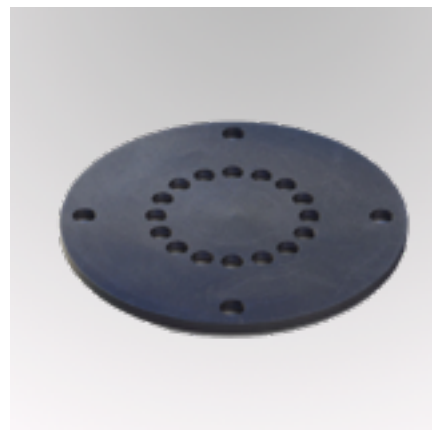
- Proven quality
- Process guarantee for Satisloh processes

## Recommendations

- Store in a dry place

## Applications

- For all processes using ion gun treatment



A large variety of high quality standard and customized consumables for ion guns.

| Order No.                  | Product                  | Material         | System                  | Unit  |
|----------------------------|--------------------------|------------------|-------------------------|-------|
| <a href="#">92-005-222</a> | Anode                    | Graphite         | Ion gun Mark I          | 1 pc. |
| <a href="#">92-005-387</a> | Anode                    | Inox (stainless) | Ion gun Mark I          | 1 pc. |
| <a href="#">92-006-019</a> | Gas distributor          | Graphite         | Ion gun Mark I          | 1 pc. |
| <a href="#">92-006-018</a> | Insulator                | Sapphire ball    | Ion gun Mark I          | 1 pc. |
| <a href="#">92-005-224</a> | Gas distributor, special | Graphite         | Ion gun Mark I          | 1 pc. |
| <a href="#">92-005-228</a> | Gas distributor, special | Inox (stainless) | Ion gun Mark I          | 1 pc. |
| <a href="#">92-006-015</a> | Insulator                | Ceramic          | Ion gun Mark I, Mark II | 1 pc. |
| <a href="#">92-006-017</a> | Gas distributor          | Stainless steel  | Ion gun Mark II         | 1 pc. |
| <a href="#">92-006-016</a> | Anode                    | Inox (stainless) | Ion gun Mark II         | 1 pc. |
| <a href="#">92-005-227</a> | Gas distributor          | Graphite         | Ion gun Mark II         | 1 pc. |
| <a href="#">92-006-014</a> | Anode                    | Graphite         | Ion gun Mark II         | 1 pc. |
| <a href="#">92-006-013</a> | Gas distributor          | Titanium         | Ion gun Mark II         | 1 pc. |
| <a href="#">92-007-278</a> | Anode                    | Stainless steel  | Ion gun Mark II+        | 1 pc. |
| <a href="#">92-007-292</a> | Gas distributor          | Graphite         | Ion gun Mark II+        | 1 pc. |
| <a href="#">92-009-074</a> | Gas distributor          | Graphite         | Ion gun Mark I+         | 1 pc. |

## OIL AND GREASE

### Applications

Ensure performance of your coating system with regularly scheduled change-out of oils and greases.

| Order No.  | Product | Specification                      | System             | Unit  |
|------------|---------|------------------------------------|--------------------|-------|
| 92-005-165 | Oil     | Grade 20                           | Roots pumps        | 5 kg. |
| 92-006-116 | Oil     | P3                                 | Rotary/Roots pumps | 5 kg  |
| 92-007-965 | Oil     | LVO 100                            | Roots pumps        | 5 l   |
| 92-007-966 | Oil     | LVO 130<br>SV300/300B              | Rotary pumps       | 5 l   |
| 92-009-793 | Oil     | LVO210<br>(SV300B-GS555/<br>WH700) | Roots pumps        | 1 l   |
| 92-015-733 | Oil     | Ultragrade 70                      | Rotary pumps       | 1 kg  |
| 92-016-146 | Oil     | —                                  | Diffusion pumps    | 5 kg  |
| 92-010-117 | Oil     | SL 704                             | Diffusion pumps    | 1 gal |



Satisloh oil and grease are the optimal choice to maintain the reliability of Satisloh equipment.

| Order No.  | Material                 | Specification     | Use                                                                                                                                                                                                                                                                      | Unit       |
|------------|--------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 92-005-161 | High vacuum grease       | Silicon Oil based | Reduces wear in contact between plastic and metal and rubber and metal<br>Low volatility<br>Excellent resistance to water, chemicals, and high and low temperatures<br>Does not contain any deliberately added perfluorinated and polyfluorinated alkyl compounds (PFAS) | 50 g tube  |
| 92-012-807 | Klüberalfa<br>GR Y VAC 3 | PTFE based        | Reduces wear in contact between plastic and metal and rubber and metal<br>Low evaporation loss, even under ultra-high vacuum conditions<br>High thermal stability<br>Good resistance to aggressive media                                                                 | 100 g tube |







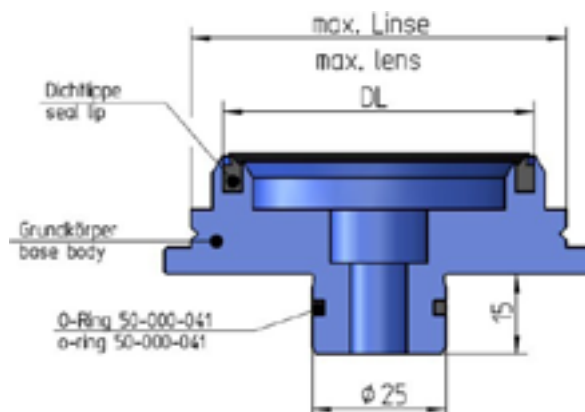
## VACUUM CHUCKS WITH SEAL LIP

Vacuum receptions consist of a base (stainless steel), a sealing lip (elastic rubber) and a support ring (plastic or brass). Satisloh provides both the complete receptions and each component separately. The production of lens-specific receptions is also available on request. On the following pages you will find an overview of our range of receptions

# VACUUM CHUCKS WITH SEAL LIP

Vacuum chucks with seal lip DIN 58739-1 (25 x 15)

For machines: SPM-50, 55, 60, 120, 125, 140, 150, 200, SII, GI, GII

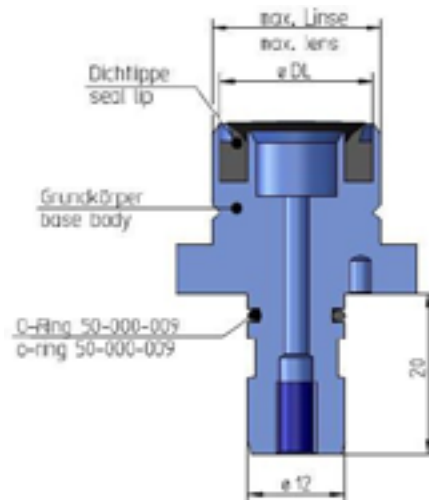


| Lens dia. range | Synline number | Vacuum chuck complete | Base body  | Seal lip   | DL. |
|-----------------|----------------|-----------------------|------------|------------|-----|
| 10-12           | 953.134.001-2  | 02-004-295            | 05-013-938 | 05-006-039 | 10  |
| 13-15           | -              | 02-004-296            | 05-012-648 | 05-005-495 | 13  |
| 15-17           | -              | 02-004-293            | 05-013-939 | 05-005-496 | 15  |
| 17-19           | -              | 02-004-297            | 05-012-649 | 05-005-498 | 17  |
| 19-21           | -              | 02-004-294            | 05-013-940 | 05-005-499 | 19  |
| 22-24           | 953.104.800-2  | 02-004-298            | 05-012-650 | 05-005-502 | 22  |
| 17-24           | 953.104.801-2  | 02-004-299            | 05-009-175 | 05-005-498 | 17  |
| 19-28           | 953.104.802-2  | 02-004-300            | 05-009-184 | 05-005-499 | 19  |
| 22-30           | 953.104.803-2  | 02-004-301            | 05-009-185 | 05-005-502 | 22  |
| 24-32           | 953.104.804-2  | 02-004-302            | 05-009-186 | 05-005-516 | 24  |
| 26-32           | 953.104.805-2  | 02-004-303            | 05-009-187 | 05-003-153 | 26  |
| 28-36           | 953.104.806-2  | 02-004-304            | 05-009-188 | 05-003-491 | 28  |
| 30-42           | 953.104.807-2  | 02-004-305            | 05-009-189 | 05-005-553 | 30  |
| 35-46           | 953.104.808-2  | 02-004-306            | 05-009-190 | 05-005-001 | 35  |
| 39-46           | 953.104.809-2  | 02-004-307            | 05-009-191 | 05-003-152 | 39  |
| 43-50           | 953.104.810-2  | 02-004-308            | 05-009-192 | 05-005-052 | 43  |
| 48-62           | 953.104.811-2  | 02-004-309            | 05-009-193 | 05-001-838 | 48  |
| 53-62           | 953.104.812-2  | 02-004-310            | 05-009-194 | 05-003-309 | 53  |
| 58-70           | 953.104.813-2  | 02-004-311            | 05-009-195 | 05-003-206 | 58  |
| 63-76           | 953.104.814-2  | 02-004-312            | 05-009-215 | 05-000-077 | 63  |
| 66-76           | 953.104.815-2  | 02-004-313            | 05-009-216 | 05-003-308 | 66  |
| 82-90           | 953.104.816-2  | 02-004-314            | 05-009-217 | 05-003-205 | 72  |
| 90-110          | 953.104.817-2  | 02-004-315            | 05-009-218 | 05-003-204 | 85  |
| 110-125         | 953.104.818-2  | 02-004-316            | 05-009-219 | 05-003-203 | 100 |
| 125-150         | 953.104.819-2  | 02-004-317            | 05-009-220 | 05-003-202 | 116 |
| 150-170         | 953.104.820-2  | 02-004-318            | 05-009-221 | 05-003-201 | 140 |
| 170-190         | 953.104.821-2  | 02-050-820            | 05-017-402 | 05-003-200 | 160 |
| 190-210         | 953.104.822-2  | 02-050-821            | 05-051-487 | 05-006-932 | 180 |
| 210-240         | 953.104.823-2  | 02-052-000            | 05-054-614 | 05-009-782 | 200 |
| 234-260         | 953.104.824-2  | 02-052-001            | 05-052-886 | 05-017-001 | 230 |
| 260-278         | 953.104.826-2  | 02-052-002            | 05-052-887 | 05-017-002 | 260 |

# VACUUM CHUCKS WITH SEAL LIP

Vacuum chucks with seal lip DIN 58739-1 (12 x 20)

For machines: SPM-10/25/30/50



| Lens dia. range | Synline number | Vacuum chuck complete | Base body  | Seal lip   | DL. |
|-----------------|----------------|-----------------------|------------|------------|-----|
| 10-14           | 954.134.001-1  | 02-005-030            | 05-013-868 | 05-006-039 | 10  |
| 14-16           | 954.134.002-1  | 02-005-031            | 05-013-869 | 05-005-495 | 13  |
| 15-17           | 954.134.006-1  | 02-050-172            | 05-013-871 | 05-005-496 | 15  |
| 17-19           | 954.134.003-1  | 02-050-170            | 05-013-872 | 05-005-498 | 17  |
| 19-21           | 954.134.005-1  | 02-006-552            | 05-013-873 | 05-005-499 | 19  |
| 22-24           | 954.134.004-1  | 02-050-171            | 05-013-874 | 05-005-502 | 22  |
| 24-26           | 954.134.011-1  | 02-054-955            | 05-056-726 | 05-005-516 | 24  |
| 26-28           | 954.134.007-1  | 02-050-950            | 05-054-613 | 05-003-153 | 26  |
| 28-30           | 954.134.012-1  | 02-054-958            | 05-056-727 | 05-003-491 | 28  |
| 30-32           | 954.134.013-1  | 02-054-959            | 05-056-728 | 05-005-553 | 30  |
| 35-37           | 954.134.014-1  | 02-054-960            | 05-056-729 | 05-005-001 | 35  |
| 39-46           | 954.134.197-1  | 02-073-645            | 05-080-560 | 05-003-152 | 39  |
| 43-50           | 954.134.198-1  | 02-073-657            | 05-080-566 | 05-005-052 | 43  |
| 44-62           | 954.134.199-1  | 02-073-658            | 05-080-580 | 05-001-838 | 48  |



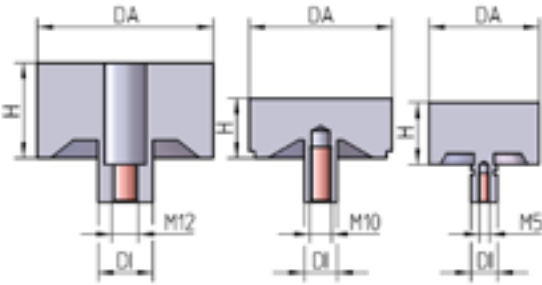
## COLLET CHUCKS

### **Collet chucks DIN 58739-3 / Pull-type collets**

Collet chucks hold spherical lens blanks during processing. Satisloh offers both customer-specific collet chucks as well as semi-finished products for in-plant production. Pull-type collets with or without block for rod lenses or cementing receptions are available on request.

# COLLET CHUCKS

Collet chucks DIN 58739-3



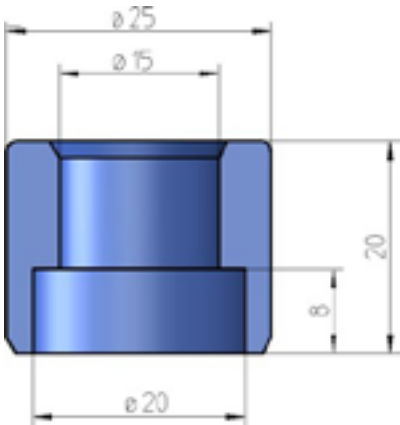
Semi-finished parts  
Machines: SPM-10, 25, 30, 50

| Order No.  | DA | DI | H  | M  |
|------------|----|----|----|----|
| 05-013-527 | 30 | 12 | 40 | M5 |
| 05-013-528 | 50 | 12 | 45 | M5 |

Machines: SPM-50 ( before 2019 ), 55, 60, 120 ,140,125, SII, GI, GII

|            |     |    |    |     |
|------------|-----|----|----|-----|
| 05-007-429 | 60  | 15 | 47 | M10 |
| 05-017-110 | 60  | 15 | 55 | M10 |
| 05-007-430 | 65  | 15 | 47 | M10 |
| 05-007-434 | 80  | 25 | 47 | M10 |
| 05-007-433 | 85  | 25 | 49 | M10 |
| 05-007-439 | 100 | 25 | 47 | M10 |
| 05-011-169 | 120 | 25 | 52 | M10 |
| 05-011-170 | 140 | 25 | 58 | M10 |
| 05-016-492 | 80  | 25 | 63 | M12 |

Pull-type collets are only available on request



Collet chuck bushing 05-002-923

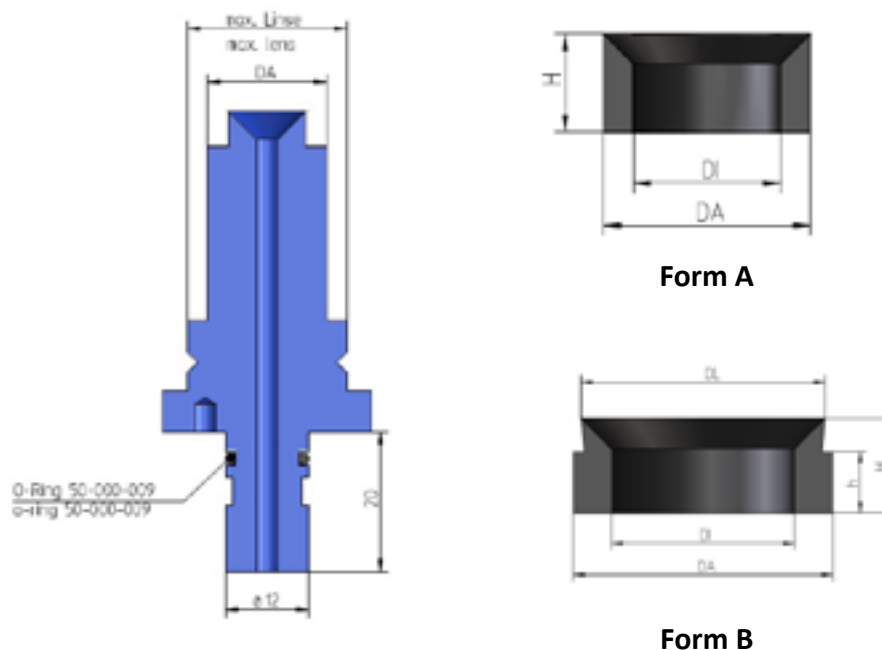


## POLISHING CHUCKS WITH SEAL LIP

Polishing chuck receptions consist of a membrane body (stainless steel), a seal lip (elastic rubber) and a support ring (plastic or brass). Satisloh provides both the complete reception and each component separately. The production of lens-specific receptions is also available on request. In the following you can find an overview of our range of receptions.

# POLISHING CHUCKS WITH SEAL LIP

Polishing chucks with seal lip (12 x 20)

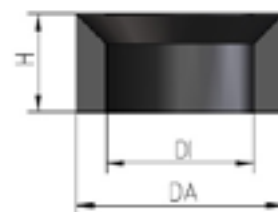
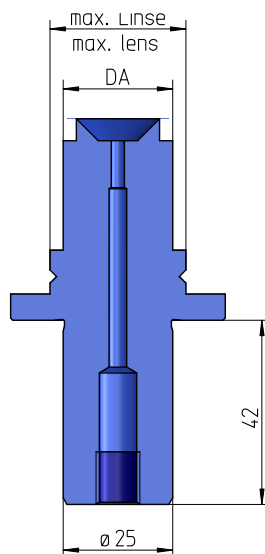


Maschinen / Machines: SPS-10, SPS-25, SPS-30, SPS-50

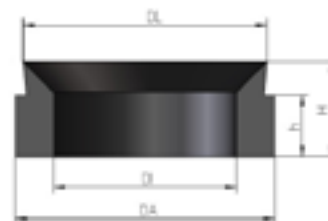
| Lens dia.<br>range | Form | Synline number | Base body  | Seal lip   | DA | DL  |
|--------------------|------|----------------|------------|------------|----|-----|
| 3-11               | B    | 953.111.701-3  | 05-082-260 | 05-012-871 | 3  | 2.5 |
|                    | A    |                |            | 05-012-872 | 3  | 3   |
| 5-11               | B    | 953.111.702-3  | 05-013-323 | 05-012-873 | 5  | 4   |
|                    | A    |                |            | 05-012-874 | 5  | 5   |
| 7-13               | B    | 953.111.703-3  | 05-013-324 | 05-012-875 | 7  | 6   |
|                    | A    |                |            | 05-012-876 | 7  | 7   |
| 9-15               | B    | 953.111.704-3  | 05-013-325 | 05-012-877 | 9  | 8   |
|                    | A    |                |            | 05-012-878 | 9  | 9   |
| 11-17              | B    | 953.111.705-3  | 05-013-326 | 05-012-879 | 11 | 10  |
|                    | A    |                |            | 05-012-880 | 11 | 11  |
| 13-19              | B    | 953.111.706-3  | 05-013-327 | 05-012-881 | 13 | 12  |
|                    | A    |                |            | 05-012-882 | 13 | 13  |
| 15-21              | B    | 953.111.707-3  | 05-013-329 | 05-012-883 | 15 | 14  |
|                    | A    |                |            | 05-012-884 | 15 | 15  |
| 17-23              | B    | 953.111.708-3  | 05-013-330 | 05-012-885 | 17 | 16  |
|                    | A    |                |            | 05-012-886 | 17 | 17  |
| 19-25              | B    | 953.111.709-3  | 05-013-331 | 05-012-887 | 19 | 18  |
|                    | A    |                |            | 05-012-888 | 19 | 19  |
| 21-27              | B    | 953.111.710-3  | 05-013-332 | 05-012-889 | 21 | 20  |
|                    | A    |                |            | 05-012-890 | 21 | 21  |
| 23-30              | B    | 953.111.711-3  | 05-013-333 | 05-012-891 | 23 | 22  |
|                    | A    |                |            | 05-012-892 | 23 | 23  |
| 25-31              | B    | 953.111.712-3  | 05-013-334 | 05-012-893 | 25 | 24  |
|                    | A    |                |            | 05-012-894 | 25 | 25  |
| 27-33              | B    | 953.111.713-3  | 05-013-335 | 05-012-895 | 27 | 26  |
|                    | A    |                |            | 05-012-896 | 27 | 27  |
| 29-35              | B    | 953.111.714-3  | 05-013-336 | 05-012-897 | 29 | 28  |
|                    |      |                |            | 05-012-898 | 29 | 29  |

## POLISHING CHUCKS WITH SEAL LIP

Polishing chucks with seal lip (25 x 42)



Form A



Form B

| Lens dia.<br>range | Form | Synline number | Base body<br>Drawing No. | Base body  | Seal lip   | Seal Lip<br>Drawing No. | DA | DL. |
|--------------------|------|----------------|--------------------------|------------|------------|-------------------------|----|-----|
| 5-11               | B    | 953.111.702-4  | 953.211.702              | 05-066-454 | 05-012-873 | 951.140.041             | 5  | 4   |
|                    | A    |                |                          |            | 05-012-874 | 951.140.051             | 5  | 5   |
| 7-13               | B    | 953.111.703-4  | 953.211.703              | 05-066-455 | 05-012-875 | 951.140.061             | 7  | 6   |
|                    | A    |                |                          |            | 05-012-876 | 951.140.071             | 7  | 7   |
| 9-15               | B    | 953.111.704-4  | 953.211.704              | 05-066-465 | 05-012-877 | 951.140.081             | 9  | 8   |
|                    | A    |                |                          |            | 05-012-878 | 951.140.091             | 9  | 9   |
| 11-17              | B    | 953.111.705-4  | 953.211.705              | 05-066-466 | 05-012-879 | 951.140.101             | 11 | 10  |
|                    | A    |                |                          |            | 05-012-880 | 951.140.111             | 11 | 11  |
| 13-19              | B    | 953.111.706-4  | 953.211.706              | 05-066-468 | 05-012-881 | 951.140.121             | 13 | 12  |
|                    | A    |                |                          |            | 05-012-882 | 951.140.131             | 13 | 13  |
| 15-21              | B    | 953.111.707-4  | 953.211.707              | 05-066-469 | 05-012-883 | 951.140.141             | 15 | 14  |
|                    | A    |                |                          |            | 05-012-884 | 951.140.151             | 15 | 15  |
| 17-23              | B    | 953.111.708-4  | 953.211.708              | 05-066-470 | 05-012-885 | 951.140.161             | 17 | 16  |
|                    | A    |                |                          |            | 05-012-886 | 951.140.171             | 17 | 17  |
| 19-25              | B    | 953.111.709-4  | 953.211.709              | 05-066-471 | 05-012-887 | 951.140.181             | 19 | 18  |
|                    | A    |                |                          |            | 05-012-888 | 951.140.191             | 19 | 19  |
| 21-27              | B    | 953.111.710-4  | 953.211.710              | 05-066-473 | 05-012-889 | 951.140.201             | 21 | 20  |
|                    | A    |                |                          |            | 05-012-890 | 951.140.211             | 21 | 21  |
| 23-30              | B    | 953.111.711-4  | 953.211.711              | 05-066-474 | 05-012-891 | 951.140.221             | 23 | 22  |
|                    | A    |                |                          |            | 05-012-892 | 951.140.231             | 23 | 23  |
| 25-31              | B    | 953.111.712-4  | 953.211.712              | 05-066-475 | 05-012-893 | 951.140.241             | 25 | 24  |
|                    | A    |                |                          |            | 05-012-894 | 951.140.251             | 25 | 25  |
| 27-33              | B    | 953.111.713-4  | 953.211.713              | 05-013-355 | 05-012-895 | 951.140.261             | 27 | 26  |
|                    | A    |                |                          |            | 05-012-896 | 951.140.271             | 27 | 27  |
| 29-35              | B    | 953.111.714-4  | 953.211.714              | 05-066-476 | 05-012-897 | 951.140.281             | 29 | 28  |
|                    | A    |                |                          |            | 05-012-898 | 951.140.291             | 29 | 29  |
| 31-34              | B    | 953.111.715-4  | 953.211.715              | 05-066-479 | 05-013-205 | 951.140.302             | 31 | 30  |
|                    | A    |                |                          |            | 05-013-206 | 951.140.311             | 31 | 31  |
| 33-36              | B    | 953.111.716-4  | 953.211.716              | 05-066-478 | 05-013-207 | 951.140.321             | 33 | 32  |
|                    | A    |                |                          |            | 05-013-208 | 951.140.331             | 33 | 33  |

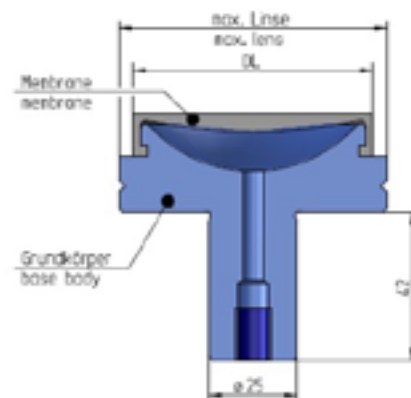
POLISHING CHUCKS WITH SEAL LIP

| Lens dia.<br>range | Form | Synline number | Base body Draw-<br>ing No. | Base body  | Seal lip   | Seal Lip<br>Drawing No. | DA | DL |
|--------------------|------|----------------|----------------------------|------------|------------|-------------------------|----|----|
| 35-39              | B    | 953.111.717-4  | 953.211.717                | 05-066-480 | 05-013-209 | 951.140.341             | 35 | 34 |
|                    | A    |                |                            |            | 05-013-210 | 951.140.351             | 35 | 35 |
| 37-41              | B    | 953.111.718-4  | 953.211.718                | 05-066-482 | 05-013-211 | 951.140.361             | 37 | 36 |
|                    | A    |                |                            |            | 05-013-212 | 951.140.371             | 37 | 37 |
| 39-44              | B    | 953.111.719-4  | 953.211.719                | 05-066-481 | 05-013-213 | 951.140.381             | 39 | 38 |
|                    | A    |                |                            |            | 05-013-214 | 951.140.391             | 39 | 39 |
| 41-48              | B    | 953.111.720-4  | 953.211.720                | 05-066-483 | 05-013-215 | 951.140.401             | 41 | 40 |
|                    | A    |                |                            |            | 05-013-216 | 951.140.411             | 41 | 41 |
| 43-48              | B    | 953.111.721-4  | 953.211.721                | 05-066-484 | 05-013-217 | 951.140.421             | 43 | 42 |
|                    | A    |                |                            |            | 05-013-218 | 951.140.431             | 43 | 43 |
| 45-52              | B    | 953.111.722-4  | 953.211.722                | 05-066-485 | 05-013-219 | 951.140.441             | 45 | 44 |
|                    | A    |                |                            |            | 05-013-220 | 951.140.451             | 45 | 45 |
| 47-52              | B    | 953.111.723-4  | 953.211.723                | 05-066-486 | 05-013-221 | 951.140.461             | 47 | 46 |
|                    | A    |                |                            |            | 05-013-222 | 951.140.471             | 47 | 47 |
| 49-56              | B    | 953.111.724-4  | 953.211.724                | 05-066-487 | 05-013-223 | 951.140.481             | 49 | 48 |
|                    | A    |                |                            |            | 05-013-224 | 951.140.491             | 49 | 49 |
| 51-56              | B    | 953.111.725-4  | 953.211.725                | 05-066-488 | 05-013-225 | 951.140.501             | 51 | 50 |
|                    | A    |                |                            |            | 05-013-226 | 951.140.511             | 51 | 51 |
| 53-59              | B    | 953.111.726-4  | 953.211.726                | 05-066-489 | 05-013-227 | 951.140.521             | 53 | 52 |
|                    | A    |                |                            |            | 05-013-228 | 951.140.531             | 53 | 53 |
| 55-62              | B    | 953.111.727-4  | 953.211.727                | 05-066-490 | 05-013-229 | 951.140.541             | 55 | 54 |
|                    | A    |                |                            |            | 05-013-230 | 951.140.551             | 55 | 55 |
| 57-62              | B    | 953.111.728-4  | 953.211.728                | 05-066-491 | 05-013-231 | 951.140.561             | 57 | 56 |
|                    | A    |                |                            |            | 05-013-232 | 951.140.571             | 57 | 57 |
| 59-64              | B    | 953.111.729-4  | 953.211.729                | 05-066-492 | 05-013-233 | 951.140.581             | 59 | 58 |
|                    | A    |                |                            |            | 05-013-234 | 951.140.591             | 59 | 59 |
| 61-68              | B    | 953.111.730-4  | 953.211.730                | 05-066-494 | 05-013-235 | 951.140.601             | 61 | 60 |
|                    | A    |                |                            |            | 05-013-236 | 951.140.611             | 61 | 61 |
| 64-72              | B    | 953.111.731-4  | 953.211.731                | 05-066-503 | 05-013-237 | 951.140.621             | 64 | 62 |
|                    | A    |                |                            |            | 05-013-238 | 951.140.641             | 64 | 64 |
| 68-76              | B    | 953.111.732-4  | 953.211.732                | 05-066-505 | 05-013-239 | 951.140.661             | 68 | 66 |
|                    | A    |                |                            |            | 05-013-240 | 951.140.681             | 68 | 68 |
| 72-80              | B    | 953.111.733-4  | 953.211.733                | 05-066-506 | 05-013-241 | 951.140.701             | 72 | 70 |
|                    | A    |                |                            |            | 05-013-242 | 951.140.721             | 72 | 72 |
| 76-84              | B    | 953.111.734-4  | 953.211.734                | 05-066-513 | 05-013-243 | 951.140.741             | 76 | 74 |
|                    | A    |                |                            |            | 05-013-244 | 951.140.761             | 76 | 76 |
| 80-88              | B    | 953.111.735-4  | 953.211.735                | 05-066-514 | 05-013-245 | 951.140.781             | 80 | 78 |
|                    | A    |                |                            |            | 05-013-246 | 951.140.801             | 80 | 80 |
| 84-93              | B    | 953.111.736-4  | 953.211.736                | 05-066-515 | 05-013-247 | 951.140.821             | 84 | 82 |
|                    | A    |                |                            |            | 05-013-248 | 951.140.841             | 84 | 84 |
| 88-98              | B    | 953.111.737-4  | 953.211.737                | 05-066-516 | 05-013-249 | 951.140.861             | 88 | 86 |
|                    | A    |                |                            |            | 05-013-250 | 951.140.881             | 88 | 88 |
| 92-102             | B    | 953.111.738-4  | 953.211.738                | 05-066-517 | 05-013-251 | 951.140.901             | 92 | 90 |
|                    | A    |                |                            |            | 05-013-252 | 951.140.921             | 92 | 92 |

# POLISHING CHUCKS WITH MEMBRANE

Polishing chucks with membrane

DIN 58739-2 (25 x 42)



Machines: SPS-50 (vor 2019), 55, 60, 125, 140, 150, PII, SPM-200

| Lens dia. range | Synline number | Base body  | Membrane   | DL. |
|-----------------|----------------|------------|------------|-----|
| 10-13           | 953.211.027-4  | 05-053-090 | 05-007-917 | 10  |
| 12-16           | 953.211.028-4  | 05-053-089 | 05-007-918 | 12  |
| 15-20           | 953.211.000-4  | 05-050-271 | 05-007-919 | 15  |
| 17-26           | 953.211.001-4  | 05-050-326 | 05-007-920 | 17  |
| 19-28           | 953.211.002-4  | 05-050-327 | 05-007-711 | 19  |
| 22-30           | 953.211.003-4  | 05-050-328 | 05-007-403 | 22  |
| 24-32           | 953.211.004-4  | 05-050-329 | 05-008-071 | 24  |
| 27-36           | 953.211.005-4  | 05-050-330 | 05-008-072 | 27  |
| 31-39           | 953.211.006-4  | 05-050-331 | 05-008-073 | 31  |
| 33-39           | 953.211.026-4  | 05-050-332 | 05-014-818 | 33  |
| 36-44           | 953.211.007-4  | 05-050-333 | 05-008-074 | 36  |
| 40-48           | 953.211.008-4  | 05-050-334 | 05-008-075 | 40  |

Machines: SPS-50 (vor 2019), SPS-55, SPS-60, SPS-125, SPS-140, 150, PII, SPM-200

| Lens dia. range | Synline number | Base body  | Membrane   | DL. |
|-----------------|----------------|------------|------------|-----|
| 44-52           | 953.211.009-4  | 05-050-335 | 05-007-712 | 44  |
| 48-56           | 953.211.010-4  | 05-050-336 | 05-007-713 | 48  |
| 54-62           | 953.211.011-4  | 05-050-337 | 05-008-076 | 54  |
| 56-64           | 953.211.012-4  | 05-050-338 | 05-007-714 | 56  |

Machines: SPS-125, 140, 150, PII

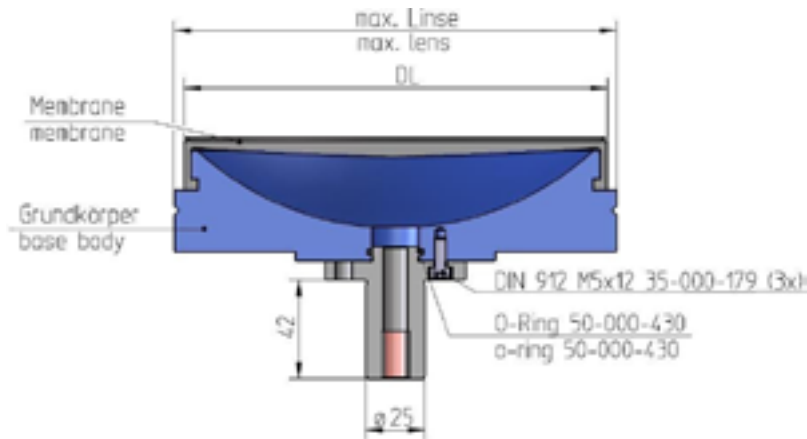
| Lens dia. range | Synline number | Base body  | Membrane   | DL. |
|-----------------|----------------|------------|------------|-----|
| 60-68           | 953.211.013-4  | 05-050-339 | 05-007-715 | 60  |
| 64-72           | 953.211.014-4  | 05-050-340 | 05-008-077 | 64  |
| 68-76           | 953.211.015-4  | 05-050-341 | 05-008-078 | 68  |
| 72-80           | 953.211.016-4  | 05-050-342 | 05-008-079 | 72  |
| 76-84           | 953.211.017-4  | 05-050-272 | 05-008-080 | 76  |
| 80-88           | 953.211.018-4  | 05-050-275 | 05-008-081 | 80  |
| 85-93           | 953.211.019-4  | 05-050-273 | 05-007-706 | 85  |
| 92-98           | 953.211.020-4  | 05-050-276 | 05-007-922 | 92  |
| 100-108         | 953.211.021-4  | 05-050-277 | 05-007-966 | 100 |
| 114-120         | 953.211.022-4  | 05-050-274 | 05-007-707 | 114 |
| 120-128         | 953.211.023-4  | 05-050-278 | 05-007-716 | 120 |

Maschinen / Machines: PII

| Lens dia. range | Synline number | Base body  | Membrane   | DL. |
|-----------------|----------------|------------|------------|-----|
| 132-138         | 953.211.024-4  | 05-050-279 | 05-007-967 | 132 |
| 146-154         | 953.211.025-4  | 05-050-280 | 05-007-717 | 146 |

# POLISHING CHUCKS WITH MEMBRANE

Polishing chucks with membrane  
DIN 58739-2 (25 x 42) two parts



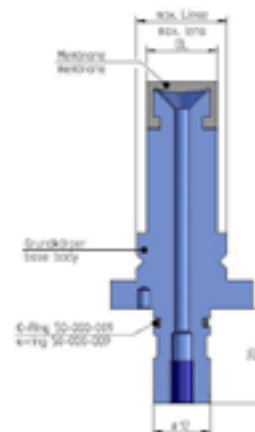
Machine: PII

| Lens dia. range | Synline number | Base body Order No. | Membrane Order No. | DL  |
|-----------------|----------------|---------------------|--------------------|-----|
| 157-165         | 953.311.026-4  | 02-054-859          | 05-011-042         | 157 |
| 168-176         | 953.311.027-4  | 02-054-861          | 05-079-490         | 168 |
| 180-188         | 953.311.028-4  | 02-054-864          | 05-011-046         | 180 |

# POLISHING CHUCKS WITH MEMBRANE

Polishing chucks with membrane

DIN 58739-2 (12 x 20)



Maschinen / Machines: SPS-10, SPS-25, SPS-30, SPS-50

| Lens dia. range | Synline number | Base body Order No. | Membrane Order No. | DL. |
|-----------------|----------------|---------------------|--------------------|-----|
| 10-14           | 954.130.010-3  | 05-013-531          | 05-007-917         | 10  |
| 12-16           | 954.130.012-3  | 05-013-532          | 05-007-918         | 12  |
| 15-19           | 954.130.015-3  | 05-013-535          | 05-007-919         | 15  |
| 17-21           | 954.130.017-3  | 05-013-537          | 05-007-920         | 17  |
| 19-23           | 954.130.019-3  | 05-013-540          | 05-007-711         | 19  |
| 22-26           | 954.130.022-3  | 05-013-543          | 05-007-403         | 22  |
| 24-28           | 954.130.024-3  | 05-013-545          | 05-008-071         | 24  |

Maschinen / Machines: SPS-30, SPS-50

| Lens dia. range | Synline number | Base body Order No. | Membrane Order No. | DL. |
|-----------------|----------------|---------------------|--------------------|-----|
| 27-32           | 954.130.027-3  | 05-015-612          | 05-008-072         | 27  |
| 31-35           | 954.130.031-3  | 05-056-737          | 05-008-073         | 31  |
| 33-40           | 954.130.033-3  | 05-056-738          | 05-014-818         | 33  |

Maschinen / Machines: SPS-50

| Lens dia. range | Synline number | Base body Order No. | Membrane Order No. | DL. |
|-----------------|----------------|---------------------|--------------------|-----|
| 36-44           | 954.130.679-3  | 05-080-582          | 05-008-074         | 36  |
| 40-48           | 954.130.680-3  | 05-080-583          | 05-008-075         | 40  |
| 44-52           | 954.130.681-3  | 05-080-596          | 05-007-712         | 44  |
| 48-56           | 954.130.682-3  | 05-080-598          | 05-007-713         | 48  |

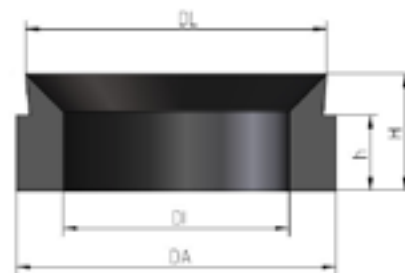


## SEAL LIPS

Satisloh offers suitable seal lips to the corresponding receptions of optical lenses. Below you will find our standard seal lips which are in stock. Other forms and types of seal lips are available on customer request

## SEAL LIPS

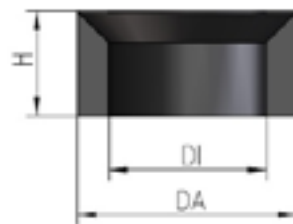
Seal lips for vacuum chucks



| Drawing number | Part number | DA  | DL   | DI  | H    | h   |
|----------------|-------------|-----|------|-----|------|-----|
| 951-40.006     | 05-007-106  | 6,5 | 6    | 3,5 | 4,75 | 3,5 |
| 951-40.008     | 05-007-107  | 8   | 8    | 5,5 | 4,75 | 3,5 |
| 951-40.010     | 05-006-039  | 10  | 8    | 5,5 | 4,75 | 3,5 |
| 951-40.013     | 05-005-495  | 13  | 10,2 | 8   | 5,3  | 4   |
| 951-40.014     | 05-005-876  | 15  | 14   | 11  | 6,3  | 5   |
| 951-40.015     | 05-005-496  | 15  | 13,2 | 10  | 6,3  | 5   |
| 951-40.016     | 05-007-529  | 16  | 15   | 12  | 6,2  | 5   |
| 951-40.017     | 05-005-498  | 17  | 16   | 12  | 6,2  | 4   |
| 951-40.019     | 05-005-499  | 19  | 17   | 12  | 7,4  | 5   |
| 951-40.022     | 05-005-502  | 22  | 21   | 17  | 7    | 5   |
| 951-40.024     | 05-005-516  | 24  | 23,5 | 19  | 7,4  | 5   |
| 951-40.025     | 05-009-493  | 24  | 23,5 | 19  | 7,4  | 5   |
| 951-40.026     | 05-003-153  | 26  | 24   | 19  | 7    | 5   |
| 951-40.028     | 05-003-491  | 28  | 26   | 21  | 7,3  | 5   |
| 951-40.029     | 05-004-615  | 30  | 29   | 25  | 7    | 5   |
| 951-40.030     | 05-005-553  | 30  | 28   | 23  | 7    | 5   |
| 951-40.032     | 05-005-991  | 34  | 32   | 27  | 7,5  | 5   |
| 951-40.034     | 05-005-554  | 34  | 34   | 29  | 7    | 5   |
| 951-40.035     | 05-005-001  | 35  | 33   | 28  | 7    | 5   |
| 951-40.039     | 05-003-152  | 39  | 37   | 32  | 7    | 5   |
| 951-40.043     | 05-005-052  | 43  | 41   | 36  | 7    | 5   |
| 951-40.046     | 05-005-556  | 46  | 44   | 39  | 7,5  | 5   |
| 951-40.048     | 05-001-838  | 48  | 46   | 41  | 7,5  | 5   |
| 951-40.051     | 05-003-247  | 51  | 49   | 44  | 6,8  | 5   |
| 951-40.053     | 05-003-309  | 53  | 51   | 46  | 6,8  | 5   |
| 951-40.056     | 05-004-971  | 56  | 54   | 49  | 7    | 5   |
| 951-40.058     | 05-003-206  | 58  | 56   | 51  | 7,2  | 5   |
| 951-40.061     | 05-006-931  | 61  | 59   | 54  | 7,2  | 5   |
| 951-40.063     | 05-000-077  | 63  | 61   | 56  | 6,8  | 5   |
| 951-40.066     | 05-003-308  | 66  | 64   | 59  | 7,5  | 5   |
| 951-40.072     | 05-003-205  | 72  | 70   | 65  | 7,3  | 5   |
| 951-40.085     | 05-003-204  | 85  | 83   | 78  | 6,8  | 5   |
| 951-40.100     | 05-003-203  | 100 | 98   | 93  | 6,8  | 5   |
| 951-40.116     | 05-003-202  | 116 | 115  | 107 | 9,7  | 7   |
| 951-40.140     | 05-003-201  | 140 | 138  | 130 | 9,7  | 7   |
| 951-40.160     | 05-003-200  | 160 | 158  | 150 | 9,7  | 6   |
| 951-40.180     | 05-006-932  | 180 | 178  | 170 | 9,7  | 6   |
| 951-40.200     | 05-009-782  | 200 | 197  | 190 | 9,7  | 6   |
| 951-40.230     | 05-017-001  | 230 | 227  | 220 | 9,7  | 6   |
| 951-40.260     | 05-017-002  | 260 | 257  | 250 | 9,7  | 6   |

# SEAL LIPS

Seal lips for polishing chucks form A

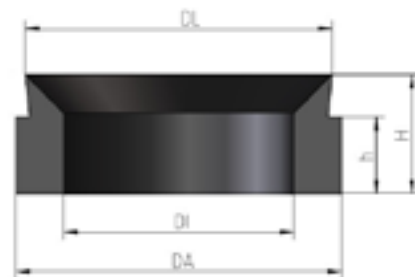


| Drawing number | Part number | DA  | DI  | H  |
|----------------|-------------|-----|-----|----|
| 951.140.026    | 05-012-872  | 3   | 1,5 | 5  |
| 951.140.051    | 05-012-874  | 5   | 2,5 | 6  |
| 951.140.071    | 05-012-876  | 7   | 3   | 8  |
| 951.140.091    | 05-012-878  | 9   | 4   | 9  |
| 951.140.111    | 05-012-880  | 11  | 5   | 10 |
| 951.140.131    | 05-012-882  | 13  | 7   | 10 |
| 951.140.151    | 05-012-884  | 15  | 9   | 10 |
| 951.140.171    | 05-012-886  | 17  | 11  | 10 |
| 951.140.191    | 05-012-888  | 19  | 13  | 10 |
| 951.140.211    | 05-012-890  | 21  | 15  | 10 |
| 951.140.231    | 05-012-892  | 23  | 17  | 10 |
| 951.140.251    | 05-012-894  | 25  | 19  | 10 |
| 951.140.271    | 05-012-896  | 27  | 21  | 10 |
| 951.140.291    | 05-012-898  | 29  | 23  | 10 |
| 951.140.311    | 05-013-206  | 31  | 23  | 12 |
| 951.140.331    | 05-013-208  | 33  | 25  | 12 |
| 951.140.351    | 05-013-210  | 35  | 27  | 12 |
| 951.140.371    | 05-013-212  | 37  | 29  | 12 |
| 951.140.391    | 05-013-214  | 39  | 31  | 12 |
| 951.140.411    | 05-013-216  | 41  | 31  | 14 |
| 951.140.431    | 05-013-218  | 43  | 33  | 14 |
| 951.140.451    | 05-013-220  | 45  | 35  | 14 |
| 951.140.471    | 05-013-222  | 47  | 37  | 14 |
| 951.140.491    | 05-013-224  | 49  | 39  | 14 |
| 951.140.511    | 05-013-226  | 51  | 41  | 14 |
| 951.140.531    | 05-013-228  | 53  | 43  | 14 |
| 951.140.551    | 05-013-230  | 55  | 45  | 14 |
| 951.140.571    | 05-013-232  | 57  | 47  | 14 |
| 951.140.591    | 05-013-234  | 59  | 49  | 14 |
| 951.140.611    | 05-013-236  | 61  | 51  | 14 |
| 951.140.641    | 05-013-238  | 64  | 52  | 16 |
| 951.140.681    | 05-013-240  | 68  | 56  | 16 |
| 951.140.721    | 05-013-242  | 72  | 60  | 16 |
| 951.140.761    | 05-013-244  | 76  | 64  | 16 |
| 951.140.801    | 05-013-246  | 80  | 68  | 16 |
| 951.140.841    | 05-013-248  | 84  | 70  | 18 |
| 951.140.881    | 05-013-250  | 88  | 74  | 18 |
| 951.140.921    | 05-013-252  | 92  | 78  | 18 |
| 951.140.961    | 05-013-254  | 96  | 82  | 18 |
| 951.140.103    | 05-013-256  | 100 | 86  | 20 |
| 951.140.104    | 05-013-258  | 104 | 88  | 20 |
| 951.140.108    | 05-013-260  | 108 | 92  | 20 |
| 951.140.112    | 05-013-262  | 112 | 96  | 20 |
| 951.140.116    | 05-013-264  | 116 | 100 | 20 |
| 951.140.123    | 05-013-266  | 120 | 104 | 20 |
| 951.140.126    | 05-013-268  | 126 | 108 | 22 |
| 951.140.134    | 05-013-270  | 134 | 116 | 22 |
| 951.140.142    | 05-013-272  | 142 | 124 | 22 |
| 951.140.153    | 05-013-274  | 150 | 132 | 22 |

## SEAL LIPS

Seal lips for polishing chucks form B

| Drawing number | Part number | DL  | DA  | DI  | H   | h  |
|----------------|-------------|-----|-----|-----|-----|----|
| 951.140.026    | 05-012-871  | 2,5 | 3   | 1,5 | 5   | 4  |
| 951.140.041    | 05-012-873  | 4   | 5   | 2,5 | 6   | 4  |
| 951.140.061    | 05-012-875  | 6   | 7   | 3   | 8   | 5  |
| 951.140.081    | 05-012-877  | 8   | 9   | 4   | 9   | 5  |
| 951.140.101    | 05-012-879  | 10  | 11  | 5   | 10  | 5  |
| 951.140.121    | 05-012-881  | 12  | 13  | 7   | 10  | 5  |
| 951.140.141    | 05-012-883  | 14  | 15  | 9   | 10  | 5  |
| 951.140.161    | 05-012-885  | 16  | 17  | 11  | 10  | 5  |
| 951.140.181    | 05-012-887  | 18  | 19  | 13  | 10  | 5  |
| 951.140.201    | 05-012-889  | 20  | 21  | 15  | 10  | 5  |
| 951.140.221    | 05-012-891  | 22  | 23  | 17  | 10  | 5  |
| 951.140.241    | 05-012-893  | 24  | 25  | 19  | 10  | 5  |
| 951.140.261    | 05-012-895  | 26  | 27  | 21  | 10  | 5  |
| 951.140.281    | 05-012-897  | 28  | 29  | 23  | 10  | 5  |
| 951.140.302    | 05-013-205  | 30  | 31  | 23  | 12  | 6  |
| 951.140.321    | 05-013-207  | 32  | 33  | 25  | 12  | 6  |
| 951.140.341    | 05-013-209  | 34  | 35  | 27  | 12  | 6  |
| 951.140.361    | 05-013-211  | 36  | 37  | 29  | 12  | 6  |
| 951.140.381    | 05-013-213  | 38  | 39  | 31  | 12  | 6  |
| 951.140.401    | 05-013-215  | 40  | 41  | 31  | 14  | 7  |
| 951.140.421    | 05-013-217  | 42  | 43  | 33  | 14  | 7  |
| 951.140.441    | 05-013-219  | 44  | 45  | 35  | 14  | 7  |
| 951.140.461    | 05-013-221  | 46  | 47  | 37  | 14  | 7  |
| 951.140.481    | 05-013-223  | 48  | 49  | 39  | 14  | 7  |
| 951.140.501    | 05-013-225  | 50  | 51  | 41  | 14  | 7  |
| 951.140.521    | 05-013-227  | 52  | 53  | 43  | 14  | 7  |
| 951.140.541    | 05-013-229  | 54  | 55  | 45  | 14  | 7  |
| 951.140.561    | 05-013-231  | 56  | 57  | 47  | 14  | 7  |
| 951.140.581    | 05-013-233  | 58  | 59  | 49  | 14  | 7  |
| 951.140.601    | 05-013-235  | 60  | 61  | 51  | 14  | 7  |
| 951.140.621    | 05-013-237  | 62  | 64  | 52  | 16  | 8  |
| 951.140.661    | 05-013-239  | 66  | 68  | 56  | 16  | 8  |
| 951-40.100     | 05-003-203  | 100 | 98  | 93  | 6,8 | 5  |
| 951-40.116     | 05-003-202  | 116 | 115 | 107 | 9,7 | 7  |
| 951-40.140     | 05-003-201  | 140 | 138 | 130 | 9,7 | 7  |
| 951-40.160     | 05-003-200  | 160 | 158 | 150 | 9,7 | 6  |
| 951-40.180     | 05-006-932  | 180 | 178 | 170 | 9,7 | 6  |
| 951-40.200     | 05-009-782  | 200 | 197 | 190 | 9,7 | 6  |
| 951-40.230     | 05-017-001  | 230 | 227 | 220 | 9,7 | 6  |
| 951-40.260     | 05-017-002  | 260 | 257 | 250 | 9,7 | 6  |
| 05-013-241     | 951.140.701 | 70  | 72  | 60  | 16  | 8  |
| 05-013-243     | 951.140.741 | 74  | 76  | 64  | 16  | 8  |
| 05-013-245     | 951.140.781 | 78  | 80  | 68  | 16  | 8  |
| 05-013-247     | 951.140.821 | 82  | 84  | 70  | 18  | 9  |
| 05-013-249     | 951.140.861 | 86  | 88  | 74  | 18  | 9  |
| 05-013-251     | 951.140.901 | 90  | 92  | 78  | 18  | 9  |
| 05-013-253     | 951.140.941 | 94  | 96  | 82  | 18  | 9  |
| 05-013-255     | 951.140.981 | 98  | 100 | 86  | 18  | 9  |
| 05-013-257     | 951.140.102 | 102 | 104 | 88  | 20  | 10 |
| 05-013-259     | 951.140.106 | 106 | 108 | 92  | 20  | 10 |
| 05-013-261     | 951.140.113 | 110 | 112 | 96  | 20  | 10 |
| 05-013-263     | 951.140.114 | 114 | 116 | 100 | 20  | 10 |
| 05-013-265     | 951.140.118 | 118 | 120 | 104 | 20  | 10 |
| 05-013-267     | 951.140.122 | 122 | 126 | 108 | 22  | 11 |
| 05-013-269     | 951.140.133 | 130 | 134 | 116 | 22  | 11 |
| 05-013-271     | 951.140.138 | 138 | 142 | 124 | 22  | 11 |
| 05-013-273     | 951.140.146 | 146 | 150 | 132 | 22  | 11 |

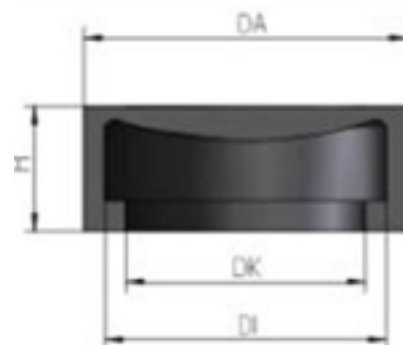




## MEMBRANES

For each reception of optical lenses Satisloh offers suitable membranes. Below you will find our standard membranes which are in stock. We also offer other forms and types of our membranes on customer request.

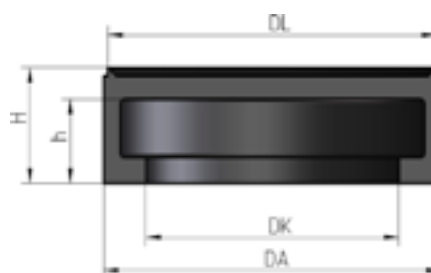
## MEMBRANES



| Drawing number | Part number | DA  | DI   | DK  | H    |
|----------------|-------------|-----|------|-----|------|
| 951.042.010    | 05-007-917  | 10  | 8    | 6   | 8    |
| 951.042.012    | 05-007-918  | 12  | 10   | 8   | 8    |
| 951.042.015    | 05-007-919  | 15  | 12   | 9   | 10   |
| 951.042.017    | 05-007-920  | 17  | 14   | 11  | 10   |
| 951.042.019    | 05-007-711  | 19  | 16   | 13  | 12   |
| 951.042.022    | 05-007-403  | 22  | 18   | 15  | 12   |
| 951.042.024    | 05-008-071  | 24  | 20   | 16  | 12   |
| 951.042.027    | 05-008-072  | 27  | 23,5 | 19  | 12   |
| 951.042.031    | 05-008-073  | 31  | 27   | 23  | 12   |
| 951.042.033    | 05-014-818  | 33  | 29   | 25  | 12   |
| 951.042.036    | 05-008-074  | 36  | 32   | 26  | 12   |
| 951.042.040    | 05-008-075  | 40  | 36   | 30  | 12   |
| 951.042.044    | 05-007-712  | 44  | 40   | 36  | 12   |
| 951.042.048    | 05-007-713  | 48  | 44   | 40  | 12   |
| 951.042.054    | 05-008-076  | 54  | 50   | 47  | 12   |
| 951.042.056    | 05-007-714  | 56  | 52   | 48  | 12   |
| 951.042.060    | 05-007-715  | 60  | 56   | 50  | 12   |
| 951.042.064    | 05-008-077  | 64  | 60   | 56  | 12   |
| 951.042.068    | 05-008-078  | 68  | 64   | 60  | 12   |
| 951.042.072    | 05-008-079  | 72  | 68   | 64  | 12   |
| 951.042.076    | 05-008-080  | 76  | 82   | 66  | 12   |
| 951.042.080    | 05-008-081  | 80  | 76   | 72  | 12   |
| 951.042.085    | 05-007-706  | 85  | 81   | 77  | 12   |
| 951.042.092    | 05-007-922  | 92  | 88   | 84  | 12   |
| 951.042.100    | 05-007-966  | 100 | 96   | 90  | 12   |
| 951.042.114    | 05-007-707  | 114 | 108  | 101 | 21   |
| 951.042.120    | 05-007-716  | 120 | 114  | 108 | 21   |
| 951.042.132    | 05-007-967  | 132 | 126  | 119 | 21   |
| 951.042.146    | 05-007-717  | 146 | 140  | 133 | 21   |
| 951.042.716    | 05-079-490  | 168 | 162  | 155 | 21   |
| 951.042.200    | 05-016-454  | 200 | 194  | 187 | 20,5 |
| 951.042.220    | 05-016-614  | 220 | 214  | 208 | 20,5 |
| 951.042.240    | 05-016-615  | 240 | 234  | 228 | 20,5 |
| 951.042.260    | 05-017-473  | 260 | 254  | 248 | 20,5 |
| 951.042.280    | 05-017-474  | 280 | 274  | 268 | 20,5 |

# MEMBRANES

## Membranes with seal lip



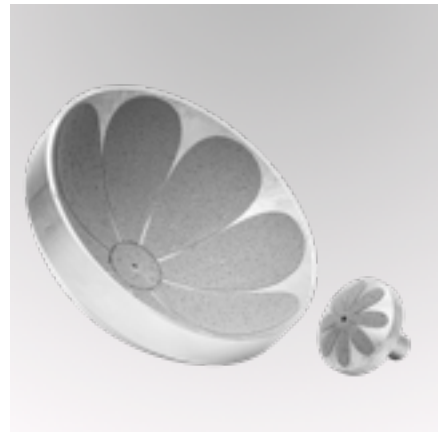
| Drawing number | Part number | DA | DL   | DK | H    | h    |
|----------------|-------------|----|------|----|------|------|
| 951-42.010     | 05-009-456  | 10 | 8,5  | 6  | 13,5 | 10,5 |
| 951-42.012     | 05-009-603  | 12 | 11   | 8  | 13,5 | 10,5 |
| 951-42.015     | 05-003-156  | 15 | 14   | 9  | 13,5 | 10,5 |
| 951-42.017     | 05-005-970  | 17 | 15,8 | 11 | 13,7 | 10,5 |
| 951-42.019     | 05-003-163  | 19 | 17,5 | 13 | 13,7 | 10   |
| 951-42.022     | 05-003-164  | 22 | 19   | 15 | 13,7 | 10   |
| 951-42.024     | 05-006-045  | 24 | 22,6 | 16 | 13,7 | 10   |
| 951-42.027     | 05-003-441  | 27 | 26   | 19 | 13,7 | 10,2 |
| 951-42.029     | 05-003-495  | 29 | 27   | 21 | 13,7 | 10   |
| 951-42.031     | 05-005-897  | 31 | 29   | 23 | 14   | 10   |
| 951-42.033     | 05-005-558  | 33 | 31   | 25 | 13,7 | 10   |
| 951-42.036     | 05-004-208  | 36 | 35,5 | 26 | 13,7 | 10   |
| 951-42.040     | 05-003-375  | 40 | 39   | 30 | 13,7 | 10   |
| 951-42.044     | 05-003-440  | 44 | 43   | 36 | 13,7 | 10   |
| 951-42.048     | 05-003-492  | 48 | 46   | 40 | 14   | 10   |
| 951-42.054     | 05-004-322  | 54 | 50   | 47 | 13,7 | 10   |
| 951-42.056     | 05-003-248  | 56 | 56   | 48 | 14   | 10,5 |
| 951-42.060     | 05-005-065  | 60 | 58   | 50 | 14   | 10   |
| 951-42.064     | 05-007-065  | 64 | 61   | 56 | 13,6 | 9,8  |
| 951-42.076     | 05-005-726  | 76 | 74   | 66 | 14   | 10   |
| 951-42.085     | 05-010-725  | 85 | 83   | 77 | 14   | 10   |
| 951-42.092     | 05-007-066  | 92 | 88   | 82 | 14   | 10   |

## SPHERICAL POLISHING TOOLS

### Polishing tools and polishing foils

Satisloh offers suitable polishing tools with customized radius to each polishing machine.

Polishing foils and polishing foil blanks are available on request



## NOVOTEX ROF

| Part number                | Diameter | Length  |
|----------------------------|----------|---------|
| <a href="#">10-001-915</a> | 15       | 1000 mm |
| <a href="#">10-001-916</a> | 25       | 1000 mm |
| <a href="#">10-001-917</a> | 35       | 1000 mm |



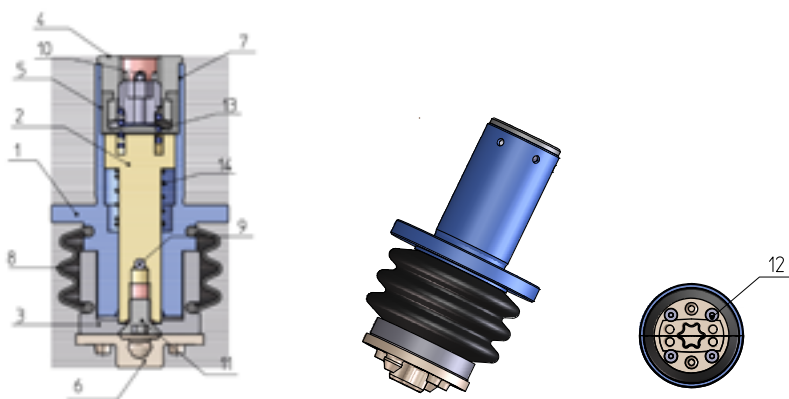


ASPHERICAL POLISHING TOOLS



## ASPHERICAL POLISHING TOOLS

Aspherical Torx Tool Part No. 02-052-699



ASP Membrane polishing tool

| Part number | Pos. | Product                          |
|-------------|------|----------------------------------|
| 05-053-496  | 1    | ASP- Kombi base body             |
| 05-053-497  | 2    | ASP Kombi piston                 |
| 05-053-498  | 3    | ASP- Kombi bush                  |
| 05-053-499  | 4    | ASP Kombi holder                 |
| 05-007-403  | 5    | Membrane dia.22                  |
| 05-053-811  | 6    | Torx support                     |
| 05-053-500  | 7    | Scrub screw M12x12 Perforated    |
| 50-050-381  | 8    | Boot                             |
| 35-001-603  | 9    | Cylindrical pin DIN 7 3m6x20 V2A |
| 35-001-434  | 10   | Grub screw DIN 914 M4x6 V2A      |
| 35-001-724  | 11   | Screw DIN 7991 M6x10 V2A         |
| 35-900-076  | 12   | Screw DIN 7991 M3x8 V2A          |
| 35-001-735  | 13   | Pressure spring D-207KA          |
| 35-051-186  | 14   | Pressure spring VD-117J          |



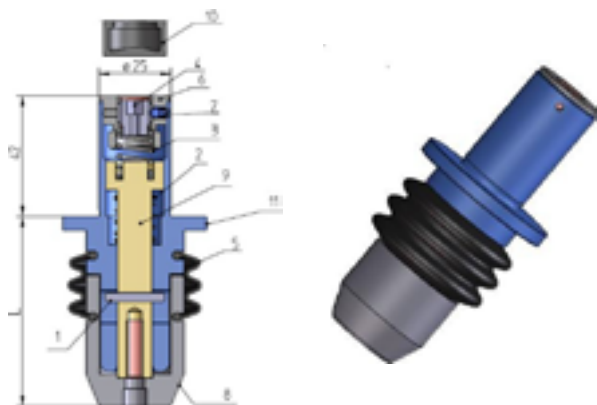
### Accessory Aspherical Torx Tool

| Part number | Product                                                                       |
|-------------|-------------------------------------------------------------------------------|
| 05-051-388  | Tool cap (Torx)                                                               |
| 90-050-782  | Double-sided adhesive tape 50 m x 50 mm                                       |
| 75-050-190  | Hollow punch tooling Set dia.3-30mm in a case                                 |
| 92-008-030  | Rubber A 35 beige / brown 500x250mm / For higher processing pressure          |
| 92-008-029  | Rubber HY / CR / middle black / 2 x 1 m                                       |
| 92-008-504  | Diamond foil Dia. 300mm- 15µ self-adhesive                                    |
| 92-000-433  | Contact adhesive Pattex / 125g Dangerous good / UN-No.: 1133/class: 3/no.: 5b |
| 92-000-170  | Polishing foil 135 / 0,81mm 58x144 cm / Form 00200                            |
| 92-000-171  | Polishing foil 135 / 1,27mm 58x144 cm / Form 00200                            |



Aspherical Torxtool

# ASPHERICAL POLISHING TOOLS



**ASP piston tool L=66 Part No.: 02-053-090**

| Part No.   | Pos. | Product                          |
|------------|------|----------------------------------|
| 35-001-603 | 1    | Cylindrical pin DIN 7 3m6x20 V2A |
| 35-051-186 | 2    | Pressure spring VD-117           |
| 35-001-735 | 3    | Pressure spring D-207            |
| 05-053-500 | 4    | Scrub screw M12x12 Perforated    |
| 50-050-381 | 5    | Bellow                           |
| 05-053-499 | 6    | ASP Kombi holder                 |
| 35-001-434 | 7    | Grub screw DIN 914 M4x6 V2A      |
| 05-054-294 | 8    | ASP polishing tool bush          |
| 05-054-295 | 9    | ASP polishing tool piston        |
| 05-007-403 | 10   | Membrane dia.22                  |
| 05-054-296 | 11   | ASP polishing tool base body     |

**ASP Piston tool L=53 Part No.: 02-053-091**

| Part No.   | Pos. | Product                          |
|------------|------|----------------------------------|
| 35-001-603 | 1    | Cylindrical pin DIN 7 3m6x20 V2A |
| 35-051-186 | 2    | Pressure spring VD-117           |
| 35-001-735 | 3    | Pressure spring D-207            |
| 05-053-500 | 4    | Scrub screw M12x12 Perforated    |
| 50-050-381 | 5    | Bellow                           |
| 05-053-499 | 6    | ASP Kombi holder                 |
| 35-001-434 | 7    | Grub screw DIN 914 M4x6 V2A      |
| 05-054-300 | 8    | ASP polishing tool bush          |
| 05-054-299 | 9    | ASP polishing tool piston        |
| 05-007-403 | 10   | Membrane dia.22                  |
| 05-054-298 | 11   | ASP polishing tool base body     |

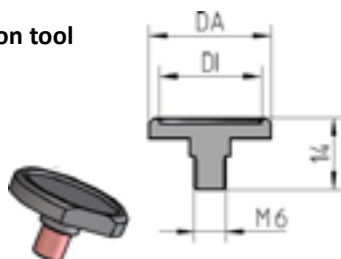
**ASP Piston Tool L=35 Part No.: 02-053-520**

| Part No.   | Pos. | Product                          |
|------------|------|----------------------------------|
| 35-001-603 | 1    | Cylindrical pin DIN 7 3m6x20 V2A |
| 35-051-186 | 2    | Pressure spring VD-117           |
| 35-001-735 | 3    | Pressure spring D-207            |
| 05-053-500 | 4    | Scrub screw M12x12 Perforated    |
| 50-050-381 | 5    | Bellow                           |
| 05-053-499 | 6    | ASP Kombi holder                 |
| 35-001-434 | 7    | Grub screw DIN 914 M4x6 V2A      |
| 05-053-812 | 8    | ASP polishing tool bush          |
| 05-053-497 | 9    | ASP polishing tool piston        |
| 05-007-403 | 10   | Membrane dia.22                  |
| 05-053-496 | 11   | ASP polishing tool base body     |

**ASP Piston Tool L=29 Part No.: 02-053-143**

| Part No.   | Pos. | Product                         |
|------------|------|---------------------------------|
| 35-001-603 | 1    | Cylindrical pin DIN 7 m6x20 V2A |
| 35-051-186 | 2    | Pressure spring VD-117          |
| 35-001-735 | 3    | Pressure spring D-207           |
| 05-053-500 | 4    | Scrub screw M12x12 Perforated   |
| 50-050-381 | 5    | Bellow                          |
| 05-053-499 | 6    | ASP Kombi holder                |
| 35-001-434 | 7    | Grub screw DIN 914 M4x6 V2A     |
| 05-054-362 | 8    | ASP polishing tool bush         |
| 05-054-631 | 9    | ASP polishing tool piston       |
| 05-007-403 | 10   | Membrane dia.22                 |
| 05-054-360 | 11   | ASP polishing tool base body    |

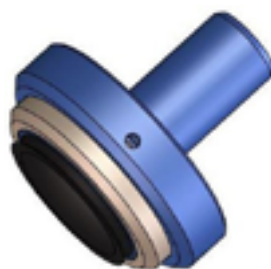
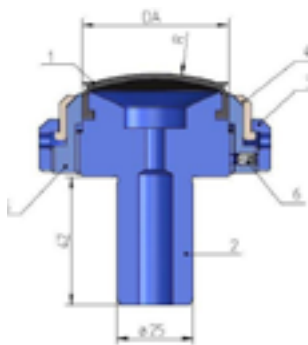
**Polishing pin for ASP piston tool**



| Part No.   | DA | DI |
|------------|----|----|
| 05-054-357 | 14 | 10 |
| 05-054-358 | 24 | 20 |
| 05-054-359 | 34 | 30 |



## ASPHERICAL POLISHING TOOLS



**Membrane polishing tool DO12 R=12**  
**Part No.: 02-058-582**

| Part No.   | Pos. | Product               |
|------------|------|-----------------------|
| 05-008-135 | 1    | Membrane DA 12        |
| 05-060-601 | 2    | Flange                |
| 05-056-678 | 3    | Clamping ring outside |
| 05-056-676 | 4    | Clamping ring         |

**Membrane polishing tool DO20 R=18**  
**Part No.: 02-054-410**

| Part No.   | Pos. | Product                      |
|------------|------|------------------------------|
| 05-005-875 | 1    | Membrane DA 20               |
| 05-056-092 | 2    | Flange                       |
| 05-056-093 | 3    | Clamping ring outside        |
| 05-056-095 | 4    | Clamping ring                |
| 05-056-096 | 5    | Clamping ring inside         |
| 35-000-669 | 6    | Scrub screw DIN 913 M4x6 V2A |

**Membrane polishing tool DO36 R=34**  
**Part No.: 02-054-419**

| Part No.   | Pos. | Product                      |
|------------|------|------------------------------|
| 05-004-374 | 1    | Membrane DA 36               |
| 05-056-125 | 2    | Flange                       |
| 05-056-126 | 3    | Clamping ring outside        |
| 05-056-127 | 4    | Clamping ring                |
| 05-056-128 | 5    | Clamping ring inside         |
| 35-000-645 | 6    | Scrub screw DIN 913 M4x8 V2A |

**Membrane polishing tool DO48 R=70**  
**Part No.: 02-054-395**

| Part No.   | Pos. | Product                      |
|------------|------|------------------------------|
| 05-004-210 | 1    | Membrane DA 48               |
| 05-056-074 | 2    | Flange                       |
| 05-056-075 | 3    | Clamping ring outside        |
| 05-056-076 | 4    | Clamping ring                |
| 05-056-077 | 5    | Clamping ring inside         |
| 35-000-669 | 6    | Scrub screw DIN 913 M4x6 V2A |

**Membrane polishing tool DO60 R=95**  
**Part No.: 02-054-418**

| Part No.   | Pos. | Product                      |
|------------|------|------------------------------|
| 05-006-469 | 1    | Membrane DA 60               |
| 05-056-116 | 2    | Flange                       |
| 05-056-117 | 3    | Clamping ring outside        |
| 05-056-118 | 4    | Clamping ring                |
| 05-056-119 | 5    | Clamping ring inside         |
| 35-001-488 | 6    | Scrub screw DIN 913 M4x8 V2A |

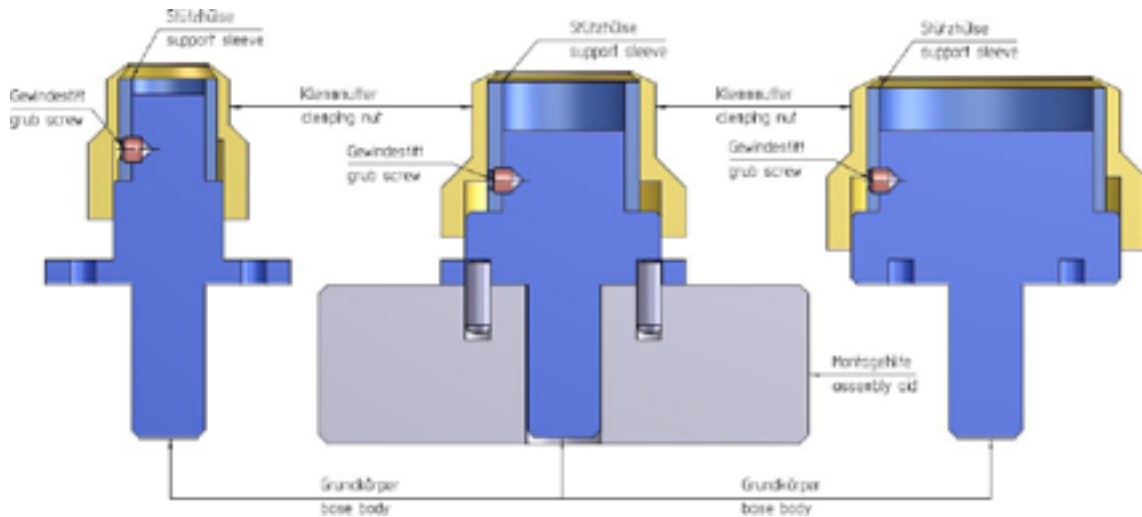


## ADAPT TOOLS

### **ADAPT is available for Satisloh polishing machines**

Depending on your needs, we offer three different ADAPT software modules (detailed information found in ADAPT brochure), tools in four different sizes (R=80, R = 40, R = 20 and R = 10) and suitable accessories. Below is an overview of our range of ADAPT tools

## ADAPT TOOLS

**ADAPT Tool R=40 Hyd.12x25 Part No.: 02-073-625**

| Part No.   | Product                   |
|------------|---------------------------|
| 05-080-411 | ADAPT base body           |
| 05-080-399 | ADAPT clamping nut R=40   |
| 05-080-402 | ADAPT support sleeve R=40 |

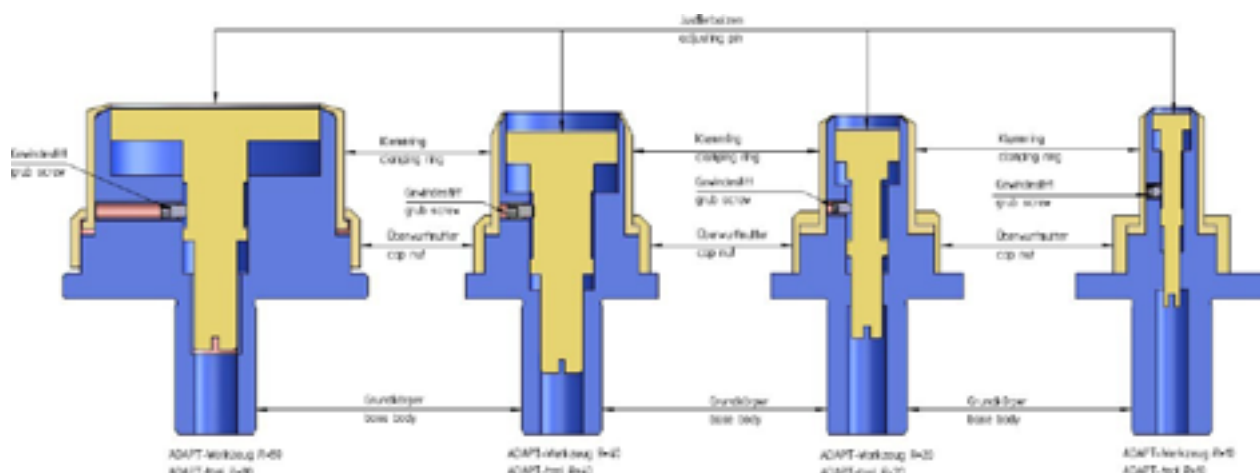
**ADAPT Tool R=20 Hyd.12x25 Part No.: 02-073-621**

| Part No.   | Product                   |
|------------|---------------------------|
| 05-080-408 | ADAPT base body R=20      |
| 05-080-398 | ADAPT clamping nut R=20   |
| 05-080-401 | ADAPT support sleeve R=20 |

**ADAPT Tool R=10 Hyd.12x25 Part No.: 02-073-619**

| Part No.   | Product                  |
|------------|--------------------------|
| 05-080-395 | ADAPT base body R=10     |
| 05-080-397 | ADAPT clamping ring R=10 |
| 05-080-400 | ADAPT cap nut R=10       |

| Part No.   | Product                     |
|------------|-----------------------------|
| 02-073-638 | Assembly aid ADAPT HD 12x25 |



## ADAPT Tool R=80 Hyd.25x42 with adjusting pin Part No.: 02-061-965

| Part No.   | Product                  |
|------------|--------------------------|
| 05-064-311 | ADAPT adjusting pin R=80 |
| 05-064-312 | ADAPT base body R=80     |
| 05-064-316 | ADAPT clamping ring R=80 |
| 05-064-313 | ADAPT cap nut R=80       |

## ADAPT Tool R=40 Hyd.25x42 with adjusting pin Part No.: 02-060-074

| Part No.   | Product                  |
|------------|--------------------------|
| 05-061-990 | ADAPT adjusting pin R=80 |
| 05-061-993 | ADAPT base body R=80     |
| 05-061-991 | ADAPT clamping ring R=80 |
| 05-061-992 | ADAPT cap nut R=80       |

## ADAPT Tool R=20 Hyd.25x42 with adjusting pin Part No.: 02-059-587

| Part No.   | Product                  |
|------------|--------------------------|
| 05-061-511 | ADAPT adjusting pin R=20 |
| 05-061-513 | ADAPT base body R=20     |
| 05-061-515 | ADAPT clamping ring R=20 |
| 05-061-516 | ADAPT cap nut R=20       |

## ADAPT Tool R=10 Hyd.25x42 with adjusting pin Part No.: 02-060-058

| Part No.   | Product                  |
|------------|--------------------------|
| 05-061-965 | ADAPT adjusting pin R=10 |
| 05-061-969 | ADAPT base body R=10     |
| 05-061-966 | ADAPT clamping ring R=10 |
| 05-061-967 | ADAPT cap nut R=10       |

| Part No.   | Product                           |
|------------|-----------------------------------|
| 02-074-117 | ADAPT Tool R=5 with adjusting pin |

## ADAPT Tool HSK-40 for G-machine R=40 Part No: 02-071-193

| Part No.   | Product                          |
|------------|----------------------------------|
| 05-019-418 | Tool flange HSK-40E L=82         |
| 05-077-773 | ADAPT base body R=40 For HSK-40E |
| 05-061-991 | ADAPT clamping ring R=40         |
| 05-061-992 | ADAPT cap nut R=40               |
| 75-000-673 | Coolant tube HSK-40E             |

## ADAPT Tool HSK-40 for G-machine R=20 Part number: 02-071-203

| Part No.   | Product                          |
|------------|----------------------------------|
| 05-019-418 | Tool flange HSK-40E L=82         |
| 05-077-789 | ADAPT base body R=20 For HSK-40E |
| 05-061-515 | ADAPT clamping ring R=20         |
| 05-061-516 | ADAPT cap nut R=20               |
| 75-000-673 | Coolant tube HSK-40E             |

## ADAPT Tool HSK-40 for G-machine R=10 Part No: 02-071-207

| Part No.   | Product                          |
|------------|----------------------------------|
| 05-019-418 | Tool flange HSK-40E L=82         |
| 05-077-790 | ADAPT base body R=10 For HSK-40E |
| 05-061-966 | ADAPT clamping ring R=10         |
| 05-061-967 | ADAPT cap nut R=10               |
| 75-000-673 | Coolant tube HSK-40E             |

# ADAPT TOOLS

## Pin polishing Tool

### Pin polishing Tool HD12x25 Part No.: 02-078-751

| Part No.   | Product                               |
|------------|---------------------------------------|
| 05-081-977 | Clamping nut pin polishing tool       |
| 05-087-122 | Pin polishing tool base body Hyd12x25 |
| 02-078-750 | Guide pin dia.6 rod dia.1 complete    |
| 02-078-748 | Guide pin dia.6 rod dia.2 complete    |
| 02-078-749 | Guide pin dia.6 rod dia.3 complete    |
| 02-078-747 | Guide pin dia.6 rod dia.5 complete    |



### PIN Polishingtool HD25x42 Part No.: 02-078-754

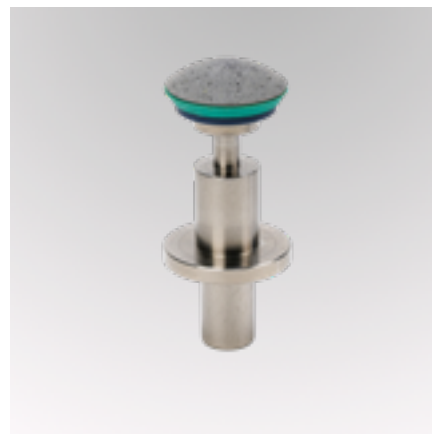
| Part No.   | Product                               |
|------------|---------------------------------------|
| 05-081-977 | Clamping nut pin polishing tool       |
| 05-087-597 | Pin polishing tool base body Hyd25x42 |
| 02-078-750 | Guide pin dia.6 rod dia.1 complete    |
| 02-078-748 | Guide pin dia.6 rod dia.2 complete    |
| 02-078-749 | Guide pin dia.6 rod dia.3 complete    |
| 02-078-747 | Guide pin dia.6 rod dia.5 complete    |



# ADAPT PRIME TOOLS

## ADAPT Prime Tool R40

| Part No.   | Product                     |
|------------|-----------------------------|
| 05-087-664 | Flange Hyd.25x42            |
| 05-086-678 | Polishing cup Ø46 M10 R32.7 |
| 02-078-992 | Hollow punch D65+D56        |
| 02-077-455 | Adhesive device for R40     |



## ADAPT Prime Tool R28

| Part No.   | Product                   |
|------------|---------------------------|
| 05-087-664 | Flange Hyd.25x42          |
| 05-086-402 | Polishing cup Ø37 M10 R20 |
| 02-079-022 | Hollow punch D50+D46      |
| 02-079-740 | Adhesive device for R28   |



## Accessories for ADAPT Prime tools

| Part No.   | Product                                                                     |
|------------|-----------------------------------------------------------------------------|
| 02-077-197 | Molding plate 9x R28 / R40                                                  |
| 02-081-778 | Molding plate single R28 / R40                                              |
| 05-087-664 | Flansch Polierschale M10 HD25x42                                            |
| 05-085-216 | Flansch Polierschale M10 HD12x25                                            |
| 92-010-148 | Dressing tool D181 HD 25x42 D=40mm                                          |
| 92-009-330 | Supporting foam Green SL hardness 1,4                                       |
| 92-009-328 | Supporting foam Grey SL hardness 1,5                                        |
| 92-000-170 | Polishing foil 135 / 0,81 mm 58 x 144 cm / Form 00200                       |
| 92-000-171 | Polishing foil 135 / 1.27 mm 58 x 144 cm / Form 002000                      |
| 92-000-183 | Polishing foil 166 / 0.81 mm 58 x 140 cm / Form 002000                      |
| 92-000-182 | Polishing foil 166 / 0.51 mm 58 x 140 cm / Form 002000                      |
| 92-015-871 | SmartPen 5011 super glue 30g UN-No.: 3334/class: 9/no.: 3                   |
| 92-000-433 | Contact adhesive Pattex / 125g Dangerous good UN-No.: 1133/class: 3/no.: 5b |

Heat protection gloves available on request. Please let us know your size (8/9/10/11).

## ADAPT ACCESSORIES

### Supporting foam 300x150x12 For tool R=80

| Part No.   | Product                |
|------------|------------------------|
| 92-010-149 | Brown SL hardness 1,0  |
| 92-010-360 | Yellow SL hardness 1,1 |
| 92-010-150 | Red SL hardness 1,2    |
| 92-010-153 | Green SL hardness 1,4  |
| 92-010-151 | Grey SL hardness 1,5   |
| 92-010-152 | Blue SL hardness 2,0   |

### Supporting foam 300x150x12 For tool R=40 / R=20

| Part No.   | Product                    |
|------------|----------------------------|
| 92-009-325 | Brown SL hardness 1,0      |
| 92-010-359 | Yellow SL hardness 1,1     |
| 92-009-327 | Red SL hardness 1,2        |
| 92-009-331 | Green SL hardness 1,4      |
| 92-012-636 | Light blue SL hardness 1,4 |
| 92-009-329 | Grey SL hardness 1,5       |
| 92-009-333 | Blue SL hardness 2,0       |

### Supporting foam 300x150x6 For tool R=10

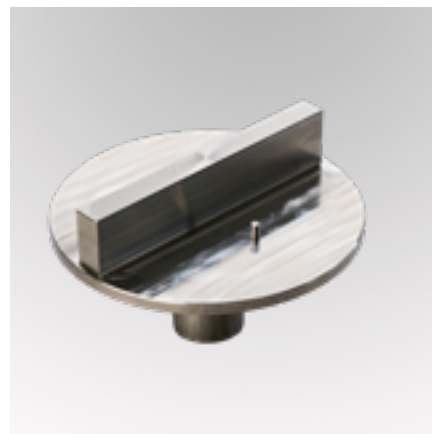
| Part No.   | Product                |
|------------|------------------------|
| 92-009-324 | Brown SL hardness 1,0  |
| 92-010-358 | Yellow SL hardness 1,1 |
| 92-009-326 | Red SL hardness 1,2    |
| 92-009-330 | Green SL hardness 1,4  |
| 92-009-332 | Blue SL hardness 2,0   |
| 92-009-328 | Grey SL hardness 1,5   |



# ADAPT ACCESSORIES

## ADAPT Calibration equipment with Indexpin

| Part No.   | Product                                          |
|------------|--------------------------------------------------|
| 02-063-911 | ADAPT calibration equipment with index pin 25x42 |
| 02-073-966 | ADAPT calibration equipment with index pin 12x25 |



## Accessories

| Part No.   | Product                                           |
|------------|---------------------------------------------------|
| 92-010-148 | Dressing tool D181 HD 25x42 D=40mm (for tool R80) |
| 92-009-930 | Dressing tool D181 HD 25x42 D=25mm (for tool R40) |
| 92-009-931 | Dressing tool D181 HD 25x42 D=14mm (for tool R20) |
| 92-009-932 | Dressing tool D181 HD 25x42 D=8mm (for tool R10)  |



| Part No.   | Product                                       |
|------------|-----------------------------------------------|
| 92-015-032 | Dressing tool D181 Z6 D=32mm (for tool R40)   |
| 92-015-033 | Dressing tool D181 Z6 D=18mm (for tool R20)   |
| 92-015-034 | Dressing tool D181 Z6 D=12,5mm (for tool R10) |



| Part No.   | Product                                                |
|------------|--------------------------------------------------------|
| 92-000-170 | Polishing foil 135 / 0,81 mm 58 x 144 cm/ Form 00200   |
| 92-000-171 | Polishing foil 135 / 1.27 mm 58 x 144 cm / Form 002000 |
| 92-014-633 | PU L26D 0.030 12.4 x 12.4                              |
| 92-014-634 | PU 3 μ 24" x 24" square TDT PC with PSA                |
| 92-014-635 | PU 9 μ 24" x 24" square TDT PC with PSA                |
| 92-014-504 | Diamond foil Ø 300,0 mm 15μm self-adhesive             |

Other polishing foils on request

## Hollow punch tooling set

| Part No.   | Product                   |
|------------|---------------------------|
| 75-050-530 | Ø2-60 mm                  |
| 75-050-190 | Ø3-30 mm                  |
| 90-050-782 | Double side adhesive tape |

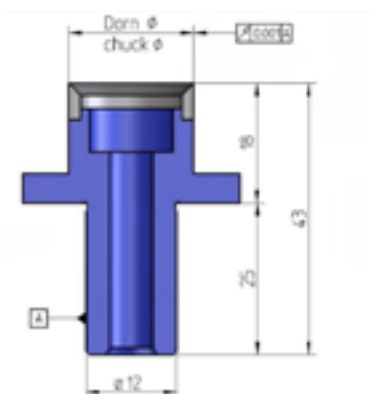




## CENTERING CHUCKS

We use centering chucks with annular precision cutting for aligning and holding the lens (workpieces) on our centering machines C-300 and C-50. Satisloh centering chucks are available in sets and individually. The standard connections HD 12 x 25 and HD 25 x 42 are in stock. Special diameters and Emuge connections are available on request.

# CENTERING CHUCKS



**Series 0 - standard set, Centering chuck, carbide metal, CM2 / C-50 Set (1 chuck per diameter)**  
**Part Number: 02-050-010 Hydrodehn 12 x 25**

| Part number | Chuck Ø |
|-------------|---------|
| 02-004-668  | 2,0     |
| 02-004-669  | 2,25    |
| 02-004-670  | 2,5     |
| 02-004-671  | 3,0     |
| 02-004-672  | 3,5     |
| 02-004-673  | 4,0     |
| 02-004-674  | 5,0     |
| 02-004-675  | 5,6     |
| 02-004-676  | 6,3     |
| 02-004-677  | 7,1     |
| 02-004-678  | 8,0     |
| 02-004-679  | 9,0     |

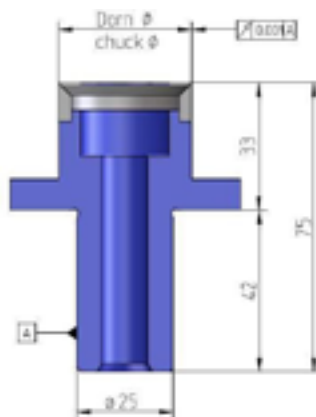
**Series 1 - standard set, Centering chuck, carbide metal, CM2 / C-50 Set (1 chuck per diameter)**  
**Part Number: 02-050-011 Hydrodehn 12 x 25**

| Part number | Chuck Ø |
|-------------|---------|
| 02-004-680  | 10.0    |
| 02-004-682  | 10.6    |
| 02-004-683  | 11.2    |
| 02-004-684  | 11.8    |
| 02-004-685  | 12.5    |
| 02-004-686  | 13.2    |
| 02-004-687  | 14.0    |
| 02-004-688  | 15.0    |
| 02-004-689  | 16.0    |
| 02-004-690  | 17.0    |
| 02-004-691  | 18.0    |
| 02-004-692  | 19.0    |
| 02-004-693  | 20.0    |

**Series 2 - standard set, Centering chuck, carbide metal, CM2 / C-50 Set (1 chuck per diameter)**  
**Part Number: 02-050-012 Hydrodehn 12 x 25**

| Part number | Chuck Ø |
|-------------|---------|
| 02-004-694  | 21.2    |
| 02-004-695  | 22.4    |
| 02-004-696  | 23.6    |
| 02-004-697  | 25.0    |
| 02-004-698  | 26.5    |
| 02-004-699  | 28.0    |
| 02-004-700  | 30.0    |
| 02-004-701  | 31.5    |
| 02-004-702  | 33.5    |
| 02-004-703  | 35.5    |
| 02-004-704  | 37.5    |
| 02-004-705  | 40.0    |
| 02-004-706  | 42.5    |
| 02-004-719  | 45.0    |
| 02-005-401  | 50.0    |

## CENTERING CHUCKS



**Series 1 - standard set, Centering chuck, carbide metal, C2 / C-300 Set (1 chuck per diameter)**  
**Part Number: 02-050-013 Hydrodehn 25x42**

| Part number | Chuck Ø |
|-------------|---------|
| 02-006-574  | 10,0    |
| 02-006-575  | 10,6    |
| 02-006-576  | 11,2    |
| 02-006-577  | 11,8    |
| 02-006-578  | 12,5    |
| 02-006-579  | 13,2    |
| 02-006-580  | 14,0    |
| 02-006-581  | 15,0    |
| 02-006-582  | 16,0    |
| 02-006-583  | 17,0    |
| 02-006-584  | 18,0    |
| 02-006-585  | 19,0    |
| 02-006-586  | 20,0    |

**Series 2 - standard set, Centering chuck, carbide metal, C2 / C-300 Set (1 chuck per diameter)**  
**Part Number: 02-050-012 Hydrodehn 25x42**

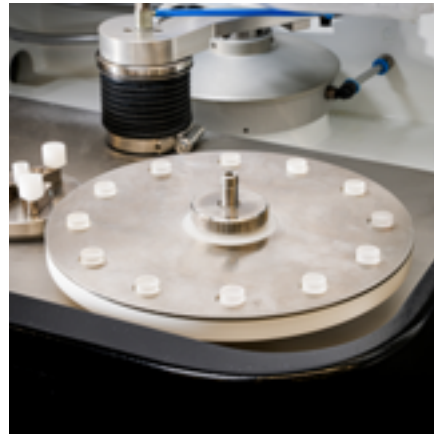
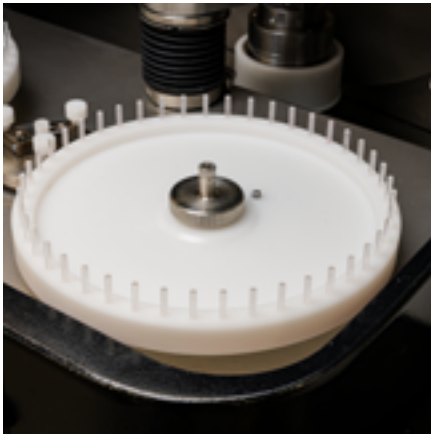
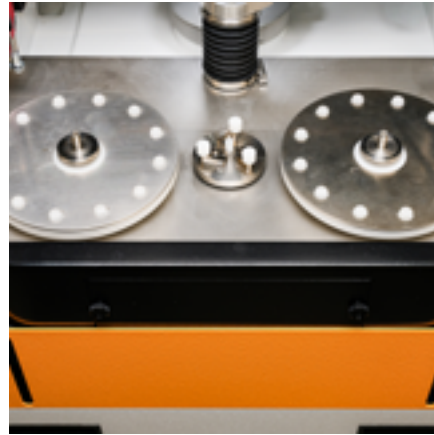
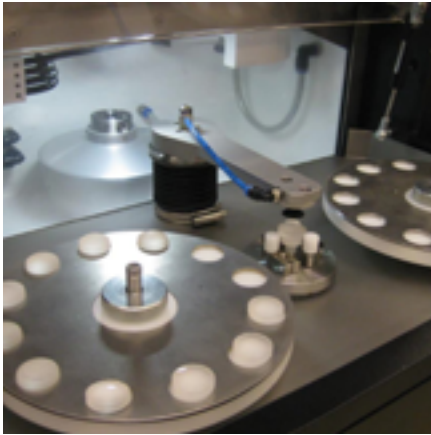
| Part number | Chuck Ø |
|-------------|---------|
| 02-006-587  | 21,2    |
| 02-006-588  | 22,4    |
| 02-006-589  | 23,6    |
| 02-006-590  | 25,0    |
| 02-006-591  | 26,5    |
| 02-006-592  | 28,0    |
| 02-006-593  | 30,0    |
| 02-006-594  | 31,5    |
| 02-006-595  | 33,5    |
| 02-006-596  | 35,5    |
| 02-006-597  | 37,5    |
| 02-006-598  | 40,0    |
| 02-006-599  | 42,5    |
| 02-006-600  | 45,0    |
| 02-006-601  | 47,5    |
| 02-006-602  | 50,0    |

**Series 3 - Standard set, Centering chuck, carbide metal, C2 / C-300 Set (1 chuck per diameter)**  
**Part Number: 02-050-015 Hydrodehn 25 x 42**

| Part number | Chuck Ø |
|-------------|---------|
| 02-006-603  | 53,0    |
| 02-006-604  | 56,0    |
| 02-006-605  | 60,0    |
| 02-006-606  | 63,0    |
| 02-006-607  | 67,0    |
| 02-006-608  | 71,0    |
| 02-006-609  | 75,0    |
| 02-006-610  | 80,0    |
| 02-006-611  | 85,0    |
| 02-006-612  | 90,0    |
| 02-006-613  | 95,0    |

**Series 4 - Standard set, Centering chuck, carbide metal, C2 / C-300 Set (1 chuck per diameter)**  
**Part Number 02-050-016 Hydrodehn 25x42**

| Part number | Chuck Ø |
|-------------|---------|
| 02-006-614  | 100,0   |
| 02-006-615  | 106,0   |
| 02-006-616  | 112,0   |
| 02-006-618  | 118,0   |
| 02-006-619  | 125,0   |
| 02-006-621  | 132,0   |
| 02-006-622  | 140,0   |
| 02-006-626  | 150,0   |
| 02-006-628  | 160,0   |
| 02-006-631  | 175,0   |



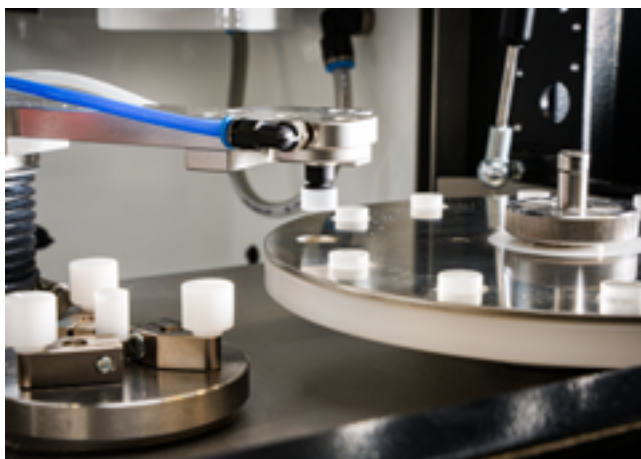
## HANDLING ACCESSORIES

The compact HS-30 handling system is working with substrates from 4 to 42 mm with a positional repeatability of less than 5 microns. Satisloh offers a variety of accessories for this system.

The following chapter shows an overview of the available suction cups, palletes for the magazines, gripper fingers and receptions for the pre centering station

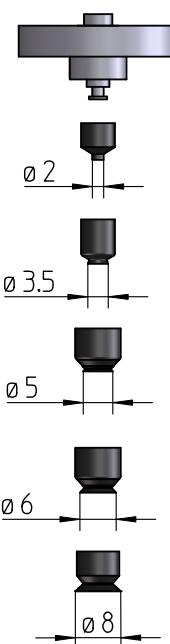
## HANDLING ACCESSORIES

## Receptions and suction cups 02-006-449

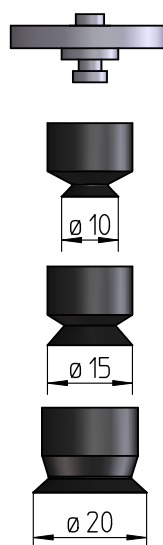


| Part number | Suction cup A/B | suction $\varnothing$ |
|-------------|-----------------|-----------------------|
| 25-000-749  | A (05-016-761)  | 2                     |
| 25-000-875  | A (05-016-761)  | 3,5                   |
| 25-000-750  | B (05-016-761)  | 5                     |
| 25-000-876  | B (05-016-761)  | 6                     |
| 25-000-751  | B (05-016-761)  | 8                     |
| 25-000-752  | B (05-016-762)  | 10                    |
| 25-000-753  | B (05-016-762)  | 15                    |
| 25-000-754  | B (05-016-762)  | 20                    |

Saugeraufnahme A  
suction cup A



Saugeraufnahme B  
suction cup B



Satisloh offers lens specific palettes (material X5CrNi189) in various configurations for handling with vacuum cups

## Palettes for lenses with vacuum cup

| Pitch circle          | 1                        | 2                        | 3                        |
|-----------------------|--------------------------|--------------------------|--------------------------|
| Diameter range        | 2 – 46 mm                | 8,1- 13,5 mm             | 2 – 8 mm                 |
| Outside $\varnothing$ | 170 + 185 mm             | 185 mm                   | 185 mm                   |
| Index-pin             | 35-000-883<br>(3m6 x 20) | 35-000-883<br>(3m6 x 20) | 35-000-883<br>(3m6 x 20) |
| remarks               | Only possible on HS-30   |                          |                          |



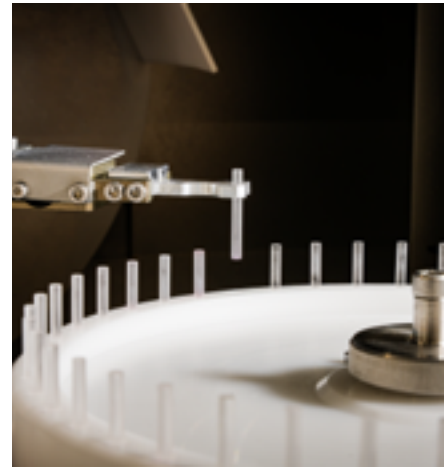
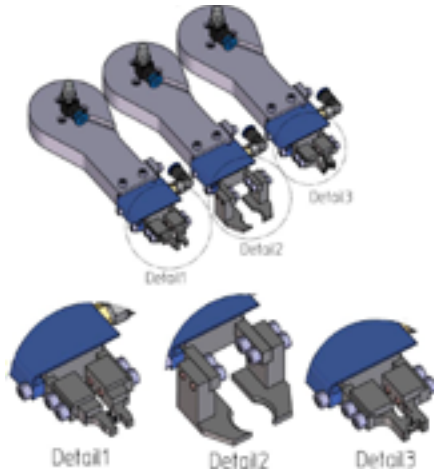
## Palettes are made according to customer specification (diameter)

| Part number | $\varnothing$ |
|-------------|---------------|
| 05-015-683  | 170           |
| 05-069-060  | 185           |

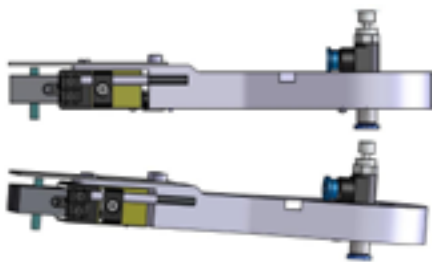


# HANDLING ACCESSORIES

Loading arm with specific gripper finger for rod lenses and cementing chucks 02-066-559

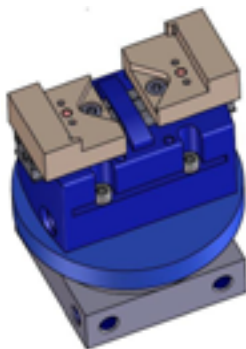


Stainless steel gripper arm are available according to customer specification  
Handling unit with parallel gripper SPS-30 part number 02-067-290



Handling unit with parallel gripper SPS-10 part number 02-069-977

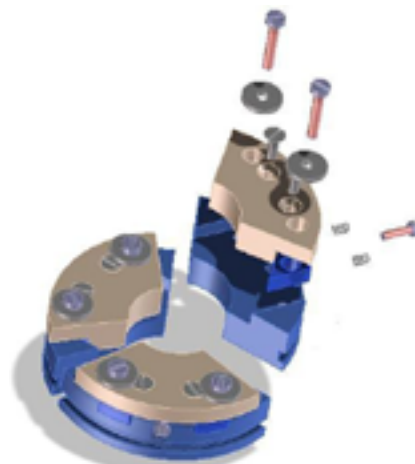
Pre-aligner station parallel gripper part number 02-060-475



Parallel gripper stations are available according to customer specifications

**UP- pre-aligner station only on customer specification**

The UP- precentering station aligns the workpiece via three adapted curve segments. Thus also circular parts with stock removal or slight deviations from the ideal circular shape can be aligned.



## HANDLING ACCESSORIES

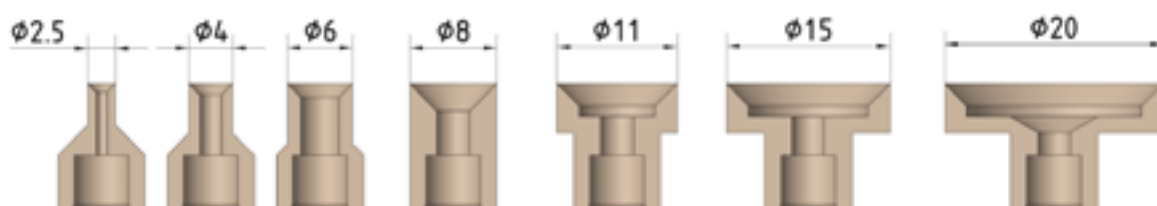
| Part number | Product                 |
|-------------|-------------------------|
| 02-060-249  | pin pre-aligner station |

| Part number | Spare Parts                  |
|-------------|------------------------------|
| 05-014-591  | Fastening bolt diameter = 10 |
| 05-014-592  | Fastening bolt diameter = 12 |
| 05-016-084  | Adjusting piece              |



## Receptions for pre-centering station

| Part number | Ø Reception |
|-------------|-------------|
| 05-015-318  | 2,5         |
| 05-014-594  | 4           |
| 05-015-317  | 6           |
| 05-014-595  | 8           |
| 05-015-316  | 11          |
| 05-015-315  | 15          |
| 05-015-314  | 20          |



Receptions made to customer specification  
Special diameters and customized materials on request.



## SPHEROMETER RINGS

Spherometers consist of a dial gauge (0.01 mm or 0.001 mm) and a spherometer ring. They are used to determine the sagittal height and radius deviation for concave and convex spherical lenses. Each spherometer is equipped with a clamping ring for the dial indicator, providing a user-friendly change of the gauge.

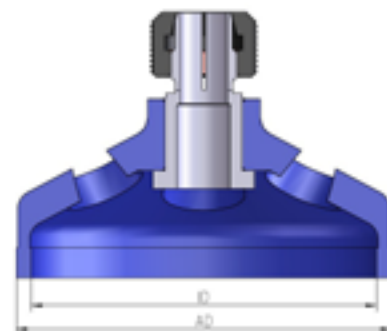
Satisloh spherometer rings are available in a spherometer set and as single components. Sizes 5- 100mm are in stock, larger diameters are available on request.

# SPHEROMETERRINGS

## Spherometer rings DIN 58724

Spherometer rings, complete set, Part Number [02-001-186](#)  
ID Ø 5-90 / OD Ø 8-100 with 1 clock gauge 0.01 mm and  
0.001 mm, in aluminium case with foam insert, consisting of

| Part number                | ID                                                          | AD/OD   |
|----------------------------|-------------------------------------------------------------|---------|
| <a href="#">02-001-999</a> | 5 mm                                                        | 8 mm    |
| <a href="#">02-002-001</a> | 8 mm                                                        | 12,5 mm |
| <a href="#">02-002-003</a> | 12,5 mm                                                     | 16 mm   |
| <a href="#">02-002-004</a> | 16 mm                                                       | 20 mm   |
| <a href="#">02-002-005</a> | 20 mm                                                       | 25 mm   |
| <a href="#">02-002-006</a> | 25 mm                                                       | 32 mm   |
| <a href="#">02-002-007</a> | 32 mm                                                       | 40 mm   |
| <a href="#">02-002-024</a> | 40 mm                                                       | 50 mm   |
| <a href="#">02-002-025</a> | 50 mm                                                       | 63 mm   |
| <a href="#">02-002-026</a> | 63 mm                                                       | 71 mm   |
| <a href="#">02-002-027</a> | 71 mm                                                       | 80 mm   |
| <a href="#">02-002-028</a> | 80 mm                                                       | 90 mm   |
| <a href="#">02-002-029</a> | 90 mm                                                       | 100 mm  |
|                            |                                                             |         |
| <a href="#">65-000-066</a> | Clock gauge 0.001 mm                                        |         |
| <a href="#">65-000-005</a> | Clock gauge 0.01 mm                                         |         |
| <a href="#">02-005-183</a> | 2 sets of extensions for clock gauges<br>1 set = 10 pieces) |         |



Spherometer rings, complete set, Part Number [02-057-109](#)  
ID Ø 2-20 / OD Ø 5-25 with 1 clock gauge 0.01 mm and  
0.001 mm, in aluminium case with foam insert,consisting of

| Part number                | ID                                                           | AD/OD   |
|----------------------------|--------------------------------------------------------------|---------|
| <a href="#">02-001-999</a> | 5 mm                                                         | 8 mm    |
| <a href="#">02-002-001</a> | 8 mm                                                         | 12,5 mm |
| <a href="#">02-002-003</a> | 12,5 mm                                                      | 16 mm   |
| <a href="#">02-002-004</a> | 16 mm                                                        | 20 mm   |
| <a href="#">02-002-005</a> | 20 mm                                                        | 25 mm   |
| <a href="#">02-002-006</a> | 25 mm                                                        | 32 mm   |
| <a href="#">02-002-007</a> | 32 mm                                                        | 40 mm   |
| <a href="#">02-002-024</a> | 40 mm                                                        | 50 mm   |
| <a href="#">02-002-025</a> | 50 mm                                                        | 63 mm   |
| <a href="#">02-002-026</a> | 63 mm                                                        | 71 mm   |
| <a href="#">02-002-027</a> | 71 mm                                                        | 80 mm   |
|                            |                                                              |         |
| <a href="#">65-000-066</a> | Clock gauge 0.001 mm                                         |         |
| <a href="#">65-000-005</a> | Clock gauge 0.01 mm                                          |         |
| <a href="#">02-005-183</a> | 2 sets of extensions for clock gauges<br>(1 set = 10 pieces) |         |

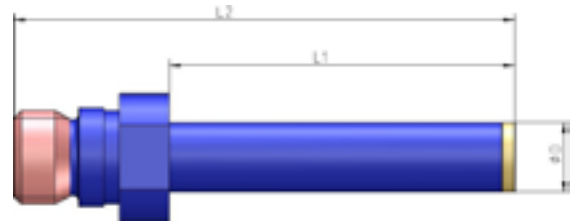
The following diameters are only available on request

| Part number                | ID     | AD/OD  |
|----------------------------|--------|--------|
| <a href="#">02-002-030</a> | 100 mm | 112 mm |
| <a href="#">02-002-031</a> | 112 mm | 125 mm |
| <a href="#">02-002-032</a> | 125 mm | 140 mm |
| <a href="#">02-000-898</a> | 140 mm | 160 mm |
| <a href="#">02-002-035</a> | 150 mm | 170 mm |
| <a href="#">02-000-899</a> | 160 mm | 180 mm |
| <a href="#">02-000-900</a> | 180 mm | 200 mm |
| <a href="#">02-002-036</a> | 205 mm | 225 mm |
| <a href="#">02-002-037</a> | 230 mm | 250 mm |
| <a href="#">02-002-038</a> | 255 mm | 275 mm |

# PRESSURE PINS PR-150

| Part number                | D  | L1   | L2   |
|----------------------------|----|------|------|
| <a href="#">02-001-229</a> | 5  | 30,5 | 55,5 |
| <a href="#">02-001-764</a> | 5  | 45   | 70   |
| <a href="#">02-000-848</a> | 5  | 55,5 | 80,5 |
| <a href="#">02-001-232</a> | 8  | 30,5 | 55,5 |
| <a href="#">02-000-860</a> | 8  | 55,5 | 80,5 |
| <a href="#">02-003-165</a> | 12 | 55,5 | 80,5 |
| <a href="#">02-001-233</a> | 16 | 30,5 | 55,5 |
| <a href="#">02-000-862</a> | 16 | 55,5 | 80,5 |

**Pressure piston made to customer specification**  
**Special diameters and customized lengths on request.**



## SYNLINE

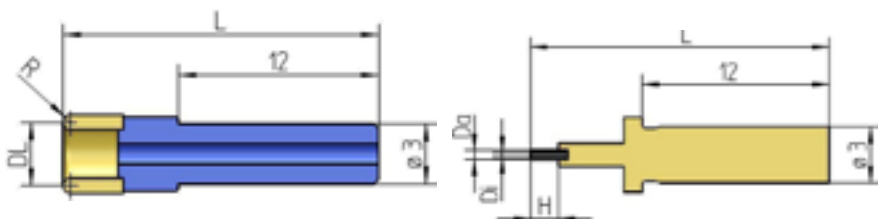
### Tool Calculation Program

Synline calculates and designs tools and receptions for processing spherical lenses on all Satisloh grinding and polishing machines. With Synline the job preparation is easier and less time consuming. Based on the lens data Synline calculates automatically workpiece receptions, support rings, polishing receptions and tools, etc. The program enables the graphical representation of e.g. geometries of workpieces, rings as well as angle of height and workpiece diameters.



## MICRO TOOLS

Micro diamond tools for pre and fine grinding  $\varnothing 3 \times 12$  SPM-10



Micro diamond tools  $\varnothing 0,8-2,5$  mm for pre-grinding SPM 10

| Part number | specification | DL   | DI  | L  |
|-------------|---------------|------|-----|----|
| 92-011-585  | D35 MGR-MK    | 0,8  | 0,2 | 27 |
| 92-011-586  | D35 MGR-MK    | 1    | 0,4 | 27 |
| 92-011-587  | D35 MGR-MK    | 1,25 | 0,4 | 27 |
| 92-011-588  | D35 MGR-MK    | 1,5  | 0,6 | 27 |
| 92-011-589  | D35 MGR-MK    | 1,75 | 0,8 | 27 |
| 92-011-590  | D35 MGR-MK    | 2    | 1   | 27 |
| 92-011-591  | D35 MGR-MK    | 2,5  | 1   | 27 |
| 92-011-602  | D35 MGR-MK    | Set  |     |    |

Micro diamond tools  $\varnothing 3-9$  mm for pre-grinding SPM 10

| Part number | specification | DL  | R    | L  |
|-------------|---------------|-----|------|----|
| 92-011-571  | D35 BZM C35   | 3   | 0,5  | 27 |
| 92-011-572  | D35 BZM C35   | 4,5 | 0,75 | 27 |
| 92-011-573  | D35 BZM C35   | 5,6 | 0,75 | 27 |
| 92-011-574  | D35 BZM C35   | 6,3 | 0,75 | 27 |
| 92-011-575  | D35 BZM C35   | 7,1 | 0,75 | 27 |
| 92-011-576  | D35 BZM C35   | 8   | 0,75 | 27 |
| 92-011-577  | D35 BZM C35   | 9   | 1    | 27 |
| 92-011-599  | D35 BZM C35   | Set |      |    |

Micro diamond tools  $\varnothing 0,8-2,5$  mm for fine-grinding SPM 10

| Part number | specification | DL   | DI  | L  |
|-------------|---------------|------|-----|----|
| 92-011-592  | D15 MGR-MK    | 0,8  | 0,2 | 27 |
| 92-011-593  | D15 MGR-MK    | 1    | 0,4 | 27 |
| 92-011-594  | D15 MGR-MK    | 1,25 | 0,4 | 27 |
| 92-011-595  | D15 MGR-MK    | 1,5  | 0,6 | 27 |
| 92-011-596  | D15 MGR-MK    | 1,75 | 0,8 | 27 |
| 92-011-597  | D15 MGR-MK    | 2    | 1   | 27 |
| 92-011-598  | D15 MGR-MK    | 2,5  | 1   | 27 |
| 92-011-603  | D15 MGR-MK    | Set  |     |    |

Micro diamond tools  $\varnothing 3-9$  mm for fine-grinding SPM 10

| Part number | specification | DL  | R    | L  |
|-------------|---------------|-----|------|----|
| 92-011-578  | D10 BZM C18   | 3   | 0,5  | 27 |
| 92-011-579  | D10 BZM C18   | 4,5 | 0,75 | 27 |
| 92-011-580  | D10 BZM C18   | 5,6 | 0,75 | 27 |
| 92-011-581  | D10 BZM C18   | 6,3 | 0,75 | 27 |
| 92-011-582  | D10 BZM C18   | 7,1 | 0,75 | 27 |
| 92-011-583  | D10 BZM C18   | 8   | 0,75 | 27 |
| 92-011-584  | D10 BZM C18   | 9   | 1    | 27 |
| 92-011-601  | D10 BZM C18   | Set |      |    |

# MICRO TOOLS WITH CERAMIC BOND

Micro diamond tools  $\varnothing$  0,8-2,5 mm with ceramic bond for pre grinding ( $\varnothing$  6x20) SPM 25/30/50

## Typ MGR-MK pre grinding tools

| Part number | specification | DA   | DI  | H | L  |
|-------------|---------------|------|-----|---|----|
| 92-011-367  | D35 MGR-MK    | 0,8  | 0,2 | 3 | 35 |
| 92-011-368  | D35 MGR-MK    | 1    | 0,4 | 3 | 35 |
| 92-011-369  | D35 MGR-MK    | 1,25 | 0,4 | 3 | 35 |
| 92-011-370  | D35 MGR-MK    | 1,5  | 0,6 | 3 | 35 |
| 92-011-371  | D35 MGR-MK    | 1,75 | 0,8 | 3 | 35 |
| 92-011-372  | D35 MGR-MK    | 2    | 1   | 3 | 35 |
| 92-011-373  | D35 MGR-MK    | 2,5  | 1   | 3 | 35 |
| 92-011-385  | D35 MGR-MK    | Set  |     |   |    |

## Typ MGR-MK fine grinding tools

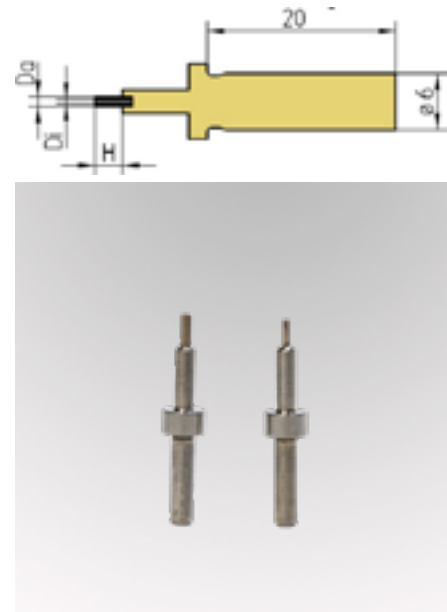
| Part number | specification | DA   | DI  | H | L  |
|-------------|---------------|------|-----|---|----|
| 92-011-375  | D15 MGR-MK    | 0,8  | 0,2 | 3 | 35 |
| 92-011-376  | D15 MGR-MK    | 1    | 0,4 | 3 | 35 |
| 92-011-377  | D15 MGR-MK    | 1,25 | 0,4 | 3 | 35 |
| 92-011-378  | D15 MGR-MK    | 1,5  | 0,6 | 3 | 35 |
| 92-011-379  | D15 MGR-MK    | 1,75 | 0,8 | 3 | 35 |
| 92-011-380  | D15 MGR-MK    | 2    | 1   | 3 | 35 |
| 92-011-381  | D15 MGR-MK    | 2,5  | 1   | 3 | 35 |
| 92-011-386  | D15 MGR-MK    | Set  |     |   |    |

When ordering the micro-tools separately the minimum order quantity is 3 each.

Available grit sizes D6 / 9 / 25 minimum order quantity 3 Qty.

Each set contains 3 micro-tools of each diameter (3 x 8 diameters = 24 micro-tools).

When ordering the micro-tools separately the minimum order quantity is 3 each.

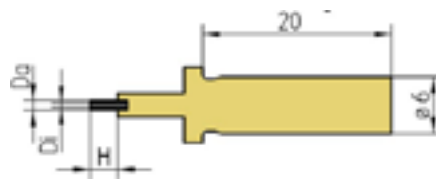


## MICRO TOOLS WITH CERAMIC BOND

Micro diamond tools  $\varnothing$  0,8-2,5 mm with ceramic bond for pre grinding ( $\varnothing$  6x20) SPM 25/30

Typ MGN-MK pre grinding tools

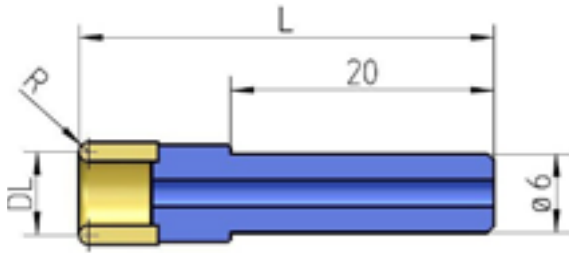
| Da   | H | L  |
|------|---|----|
| 0,8  | 3 | 35 |
| 1    | 3 | 35 |
| 1,25 | 3 | 35 |
| 1,5  | 3 | 35 |
| 1,75 | 3 | 35 |
| 2    | 3 | 35 |
| 2,5  | 3 | 35 |
| 3    | 3 | 35 |
| 4    | 3 | 35 |



When ordering the micro-tools separately the minimum order quantity is 3 each.  
Available grit sizes D6 / 9 / 25 minimum order quantity 3 Qty.

# MICRO TOOLS

Micro diamond tools for pre and fine grinding  
DIN 58741-2 Ø 6x20 SPM-25/30/50



Micro diamond tools Ø 3-9 mm for pre-grinding DIN  
58741-2 (Ø 6x20) SPM 25/30/50

| Part number | specification | DL  | R    | L  |
|-------------|---------------|-----|------|----|
| 92-009-212  | D35 BZM C35   | 3   | 0,5  | 35 |
| 92-009-213  | D35 BZM C35   | 4,5 | 0,75 | 35 |
| 92-009-214  | D35 BZM C35   | 5,6 | 0,75 | 35 |
| 92-009-215  | D35 BZM C35   | 6,3 | 0,75 | 35 |
| 92-009-216  | D35 BZM C35   | 7,1 | 0,75 | 35 |
| 92-009-217  | D35 BZM C35   | 8   | 0,75 | 35 |
| 92-009-218  | D35 BZM C35   | 9   | 1    | 35 |
| 92-011-383  | D35 BZM C35   | Set |      |    |

Micro diamond tools Ø 28-42 mm for pre-grinding DIN  
58741-2 (Ø 6x20) SPM 50

| Part number | specification | DL  | R   | L  |
|-------------|---------------|-----|-----|----|
| 92-014-920  | D46 BZM C35   | 28  | 1,5 | 35 |
| 92-014-921  | D46 BZM C35   | 32  | 1,5 | 35 |
| 92-014-922  | D46 BZM C35   | 36  | 1,5 | 35 |
| 92-014-923  | D46 BZM C35   | 40  | 1,5 | 35 |
| 92-014-924  | D46 BZM C35   | 42  | 1,5 | 35 |
| 92-014-925  | D46 BZM C35   | Set |     |    |

Micro diamond tools Ø 10-25 mm for pre-grinding DIN  
58741-2 (Ø 6x20) SPM 25/30/50

| Part number | specification | DL   | R    | L  |
|-------------|---------------|------|------|----|
| 92-009-227  | D46 BZM C35   | 10   | 1    | 35 |
| 92-009-228  | D46 BZM C35   | 11   | 1    | 35 |
| 92-009-229  | D46 BZM C35   | 12,5 | 1    | 35 |
| 92-009-230  | D46 BZM C35   | 14   | 1    | 35 |
| 92-009-231  | D46 BZM C35   | 16   | 1,25 | 35 |
| 92-009-232  | D46 BZM C35   | 18   | 1,25 | 35 |
| 92-009-233  | D46 BZM C35   | 20   | 1,25 | 35 |
| 92-009-234  | D46 BZM C35   | 22   | 1,5  | 35 |
| 92-009-235  | D46 BZM C35   | 25   | 1,5  | 35 |
| 92-009-273  | D46 BZM C35   | Set  |      |    |

## MICRO TOOLS

Micro diamond tools Ø 3-9 mm for fine-grinding

DIN 58741-2 (Ø 6x20) SPM 25/30/50

| Part number | specification | DL  | R    | L  |
|-------------|---------------|-----|------|----|
| 92-009-292  | D10 BZM C18   | 3   | 0,5  | 35 |
| 92-009-293  | D10 BZM C18   | 4,5 | 0,75 | 35 |
| 92-009-294  | D10 BZM C18   | 5,6 | 0,75 | 35 |
| 92-009-295  | D10 BZM C18   | 6,3 | 0,75 | 35 |
| 92-009-296  | D10 BZM C18   | 7,1 | 0,75 | 35 |
| 92-009-297  | D10 BZM C18   | 8   | 0,75 | 35 |
| 92-009-298  | D10 BZM C18   | 9   | 1    | 35 |
| 92-011-384  | D10 BZM C18   | Set |      |    |

Micro diamond tools Ø 10-25 mm for fine-grinding

DIN 58741-2 (Ø 6x20) SPM 25/30/50

| Part number | specification | DL   | R    | L  |
|-------------|---------------|------|------|----|
| 92-009-236  | D15 BZM C18   | 10   | 1    | 35 |
| 92-009-237  | D15 BZM C18   | 11   | 1    | 35 |
| 92-009-238  | D15 BZM C18   | 12,5 | 1    | 35 |
| 92-009-239  | D15 BZM C18   | 14   | 1    | 35 |
| 92-009-240  | D15 BZM C18   | 16   | 1,25 | 35 |
| 92-009-241  | D15 BZM C18   | 18   | 1,25 | 35 |
| 92-009-242  | D15 BZM C18   | 20   | 1,25 | 35 |
| 92-009-243  | D15 BZM C18   | 22   | 1,5  | 35 |
| 92-009-244  | D15 BZM C18   | 25   | 1,5  | 35 |
| 92-009-275  | D15 BZM C18   | Set  |      |    |

Micro diamond tools Ø 10-25 mm for fine grinding

DIN 58741-2 (Ø 6x20) SPM 50

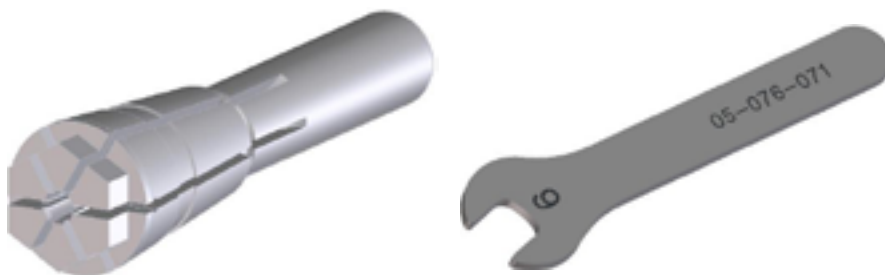
| Part number | specification | DL  | R   | L  |
|-------------|---------------|-----|-----|----|
| 92-014-926  | D15 BZM C18   | 28  | 1,5 | 35 |
| 92-014-927  | D15 BZM C18   | 32  | 1,5 | 35 |
| 92-014-928  | D15 BZM C18   | 36  | 1,5 | 35 |
| 92-014-929  | D15 BZM C18   | 40  | 1,5 | 35 |
| 92-014-930  | D15 BZM C18   | 42  | 1,5 | 35 |
| 92-014-931  | D15 BZM C18   | Set |     |    |

Diamond tools are available with other diameters and specifications on request

All diamond tools are also available with small grinding lip on request

# MICRO TOOLS

Tool collet clamping diameter Z3 top spindle SPM-10



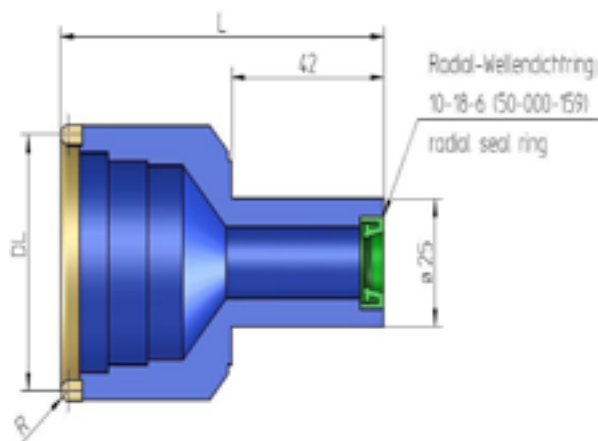
| Part number | description            | Part No. spindle | description spindle                |
|-------------|------------------------|------------------|------------------------------------|
| 60-055-426  | Collet $\varnothing 3$ | 20-060-544       | tool spindle Fischer/ ball bearing |
| 05-076-071  | spanner AF 6           |                  |                                    |

Tool collet clamping diameter Z6 top spindle SPM-30/50



| Part No.   | description                           | Part No. spindle | description spindle                   |
|------------|---------------------------------------|------------------|---------------------------------------|
| 60-054-620 | Collet $\varnothing 6H7$              | 15-050-300       | toolspindle Eitzenberger air bearing  |
| 60-054-621 | Collet $\varnothing 6H7$ (rustproof ) | 15-050-300       | toolspindle IMT/ air bearing          |
| 60-054-078 | Collet A6.1, $\varnothing 6$ , DLC    | 02-055-096       | toolspindle Eitzenberger ball bearing |

## DIAMOND TOOLS HYD.25X42



Diamond tools  $\varnothing$  6,3-20 mm for pre-grinding DIN 58741-2  
( $\varnothing$  25x42) SPM 55/60/125/140/150/200

| Part number | specification | DL  | R    | L  |
|-------------|---------------|-----|------|----|
| 92-007-476  | D64 BZM C35   | 6,3 | 0,75 | 90 |
| 92-007-477  | D64 BZM C35   | 8   | 0,75 | 90 |
| 92-007-478  | D64 BZM C35   | 11  | 1    | 90 |
| 92-007-479  | D64 BZM C35   | 14  | 1,25 | 90 |
| 92-007-480  | D64 BZM C35   | 18  | 1,25 | 90 |
| 92-007-481  | D64 BZM C35   | 20  | 1,25 | 90 |
| 92-007-579  | D64 BZM C35   | Set |      |    |

Set of tools comprising 6 diamond tools in workshop-type wooden box

Diamond tools  $\varnothing$  6,3-20 mm for pre-grinding DIN 58741-2  
( $\varnothing$  25x42) SPM 55/60/125/140/150/200

| Part number | specification | DL  | R    | H  |
|-------------|---------------|-----|------|----|
| 92-008-559  | D46 BZM C35   | 6,3 | 0,75 | 90 |
| 92-008-560  | D46 BZM C35   | 8   | 0,75 | 90 |
| 92-008-561  | D46 BZM C35   | 11  | 1    | 90 |
| 92-008-562  | D46 BZM C35   | 14  | 1,25 | 90 |
| 92-008-563  | D46 BZM C35   | 18  | 1,25 | 90 |
| 92-008-564  | D46 BZM C35   | 20  | 1,25 | 90 |
| 92-008-565  | D46 BZM C35   | Set |      |    |

Set of tools comprising 6 diamond tools in workshop-type wooden box

Diamond tools  $\varnothing$  25-63 mm for pre-grinding DIN 58741-2  
( $\varnothing$  25x42) SPM 60/125/140/150/200

| Part number | specification | DL  | R   | H  |
|-------------|---------------|-----|-----|----|
| 92-007-482  | D64 BZM C35   | 25  | 1,5 | 90 |
| 92-007-483  | D64 BZM C35   | 28  | 1,5 | 90 |
| 92-007-484  | D64 BZM C35   | 32  | 1,5 | 90 |
| 92-007-485  | D64 BZM C35   | 36  | 1,5 | 90 |
| 92-007-486  | D64 BZM C35   | 40  | 1,5 | 90 |
| 92-007-487  | D64 BZM C35   | 45  | 1,5 | 90 |
| 92-007-488  | D64 BZM C35   | 50  | 1,5 | 90 |
| 92-007-489  | D64 BZM C35   | 56  | 2   | 90 |
| 92-007-490  | D64 BZM C35   | 63  | 2   | 90 |
| 92-007-580  | D64 BZM C35   | Set |     |    |

Set of tools comprising 9 diamond tools in workshop-type wooden box

Diamond tools are available with other diameters and specifications on request  
All diamond tools are also available with small grinding lip on request

# DIAMOND TOOLS HYD.25X42

## Diamond tools two piece up to Ø 110 mm for pre-grinding DIN 58741-2 (Ø 25x42)

Diamond tools Ø 71-110 mm for pre-grinding DIN 58741-2  
(Ø 25x42) SPM 125/140/150/200

| Part number | specification | DL    | R   | L   | D  |
|-------------|---------------|-------|-----|-----|----|
| 92-008-300  | D76 BZM C35   | 71    | 2   | 90  | 28 |
| 92-008-301  | D76 BZM C35   | 80    | 2   | 90  | 28 |
| 92-008-302  | D76 BZM C35   | 90    | 2   | 95  | 35 |
| 92-008-303  | D76 BZM C35   | 100   | 2,5 | 100 | 35 |
| 92-008-304  | D76 BZM C35   | 110   | 2,5 | 110 | 35 |
| 92-008-383  | D76 BZM C35   | Set A |     |     |    |

Set of tools comprising 5 diamond tools in workshop-type wooden box

All two-part tools are delivered with flange. It is not necessary to order an extra flange.

## Diamond tools two piece up to Ø 180 mm for pre-grinding DIN 58741-2 (Ø 25x42)

Diamond tools Ø 125-180 mm for pre-grinding DIN 58741-2  
(Ø 25x42) SPM 140/150/200

| Part number | specification | DL  | R   | L   | D  |
|-------------|---------------|-----|-----|-----|----|
| 92-008-305  | D91 BZM C35   | 125 | 2,5 | 110 | 35 |
| 92-008-360  | D91 BZM C35   | 140 | 2,5 | 116 | 50 |
| 92-008-361  | D91 BZM C35   | 160 | 2,5 | 116 | 50 |
| 92-008-362  | D91 BZM C35   | 180 | 2,5 | 116 | 50 |
| 92-008-385  | D91 BZM C35   | Set |     |     |    |

Set of tools comprising 4 diamond tools in workshop-type wooden box

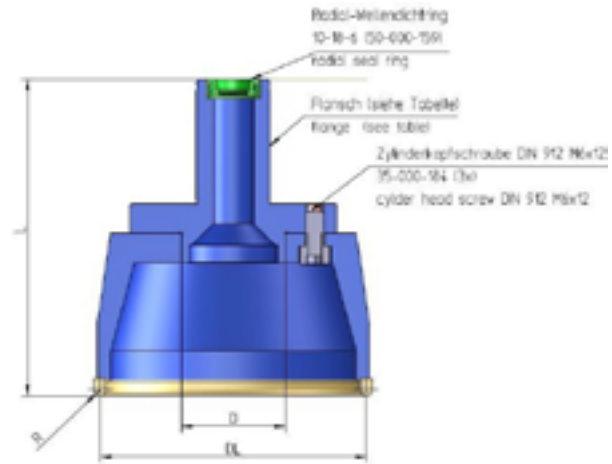
All two-part tools are delivered with flange. It is not necessary to order an extra flange.

Diamond tools are available with other diameters and specifications on request

All diamond tools are also available with small grinding lip on request

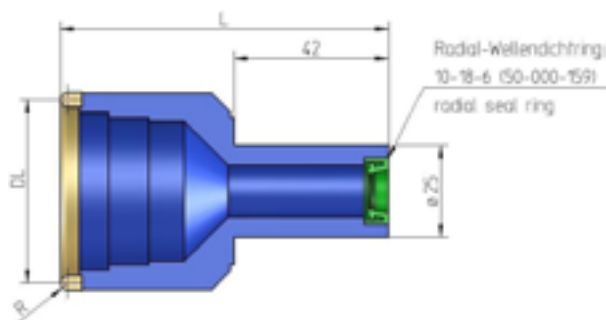
### Tool flange

| Part number | D  |
|-------------|----|
| 05-016-586  | 28 |
| 05-016-585  | 35 |
| 05-016-229  | 50 |



# DIAMOND TOOLS HYD.25X42

Diamond tools one piece up to  $\varnothing$  63 mm for fine-grinding  
DIN 58741-2 ( $\varnothing$  25x42)



Diamond tools  $\varnothing$  6,3-20 mm for fine-grinding DIN 58741-2  
( $\varnothing$  25 x 42) SPM 55/60/125/140/200

| Part number | specification | DL  | R    | L  |
|-------------|---------------|-----|------|----|
| 92-007-518  | D15 BZM C15   | 6,3 | 0,75 | 90 |
| 92-007-519  | D15 BZM C15   | 8   | 0,75 | 90 |
| 92-002-894  | D15 BZM C15   | 11  | 1    | 90 |
| 92-001-429  | D15 BZM C15   | 14  | 1,25 | 90 |
| 92-001-433  | D15 BZM C15   | 18  | 1,25 | 90 |
| 92-001-435  | D15 BZM C15   | 20  | 1,25 | 90 |
| 92-007-581  | D15 BZM C15   | Set |      |    |

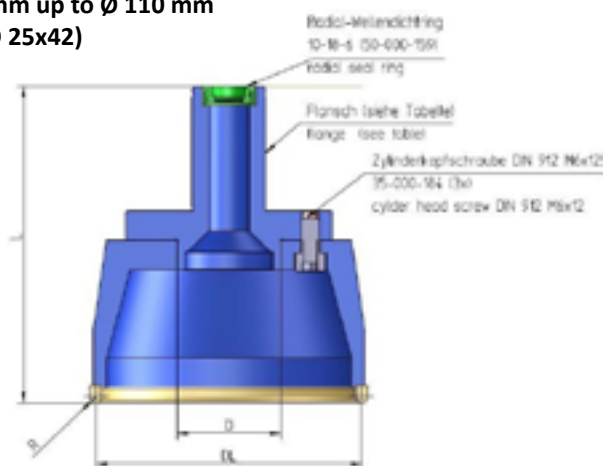
Set of tools comprising 6 diamond tools in workshop-type wooden box

Diamond tools  $\varnothing$  25-63 mm for fine-grinding DIN 58741-2  
( $\varnothing$  25 x 42) SPM 60/125/140/20

| Part number | specification | DL  | R   | L  |
|-------------|---------------|-----|-----|----|
| 92-001-437  | D15 BZM C15   | 25  | 1,5 | 90 |
| 92-007-548  | D15 BZM C15   | 28  | 1,5 | 90 |
| 92-007-549  | D15 BZM C15   | 32  | 1,5 | 90 |
| 92-007-550  | D15 BZM C15   | 36  | 1,5 | 90 |
| 92-001-443  | D15 BZM C15   | 40  | 1,5 | 90 |
| 92-007-551  | D15 BZM C15   | 45  | 1,5 | 90 |
| 92-001-445  | D15 BZM C15   | 50  | 1,5 | 90 |
| 92-007-552  | D15 BZM C15   | 56  | 2   | 90 |
| 92-007-553  | D15 BZM C15   | 63  | 2   | 90 |
| 92-007-582  | D15 BZM C15   | Set |     |    |

Set of tools comprising 9 diamond tools in workshop-type wooden box

Diamond tools two piece  $\varnothing$  71 mm up to  $\varnothing$  110 mm  
for fine-grinding DIN 58741-2 ( $\varnothing$  25x42)



Diamond tools  $\varnothing$  71-110 mm for fine-grinding DIN 58741-2  
( $\varnothing$  25x42) SPM 140/150/200

| Part number | specification | DL  | R   | L   | D  |
|-------------|---------------|-----|-----|-----|----|
| 92-008-363  | D18 BZM C18   | 71  | 2   | 90  | 28 |
| 92-008-364  | D18 BZM C18   | 80  | 2   | 90  | 28 |
| 92-008-365  | D18 BZM C18   | 90  | 2   | 95  | 35 |
| 92-008-366  | D18 BZM C18   | 100 | 2,5 | 100 | 35 |
| 92-008-370  | D18 BZM C18   | 110 | 2,5 | 110 | 35 |
| 92-008-386  | D18 BZM C18   | Set |     |     |    |

Set of tools comprising 5 diamond tools in workshop-type wooden box

Diamond tools are available with other diameters and specifications on request

All diamond tools are also available with small grinding lip on request

All two-part tools are delivered with flange. It is not necessary to order an extra flange.

# DIAMOND TOOLS HYD.25X42

**Diamond tools two piece Ø 125 mm up to Ø 180 mm  
for fine-grinding DIN 58741-2 (Ø 25x42)**

Diamond tools Ø 125-180 mm for fine-grinding DIN 58741-2  
(Ø 25x42) SPM 140/150/200

| Part number                | specification   | DL    | R   | L   | D  |
|----------------------------|-----------------|-------|-----|-----|----|
| <a href="#">92-009-841</a> | D25 BZWSX C18-K | 125   | 2,5 | 110 | 35 |
| <a href="#">92-009-842</a> | D25 BZWSX C18-K | 140   | 2,5 | 116 | 50 |
| <a href="#">92-009-843</a> | D25 BZWSX C18-K | 160   | 2,5 | 116 | 50 |
| <a href="#">92-009-844</a> | D25 BZWSX C18-K | 180   | 2,5 | 116 | 50 |
| <a href="#">92-009-845</a> | D25 BZWSX C18   | Set A |     |     |    |

Set of tools comprising 4 diamond tools in workshop-type  
wooden box

All two-part tools are delivered with flange. It is not neces-  
sary to order an extra flange.

WerkzeugFlansch / Tool flange

| Part number                | D  |
|----------------------------|----|
| <a href="#">05-016-586</a> | 28 |
| <a href="#">05-016-585</a> | 35 |
| <a href="#">05-016-229</a> | 50 |

Diamond tools are available with other diameters and speci-  
fications on request

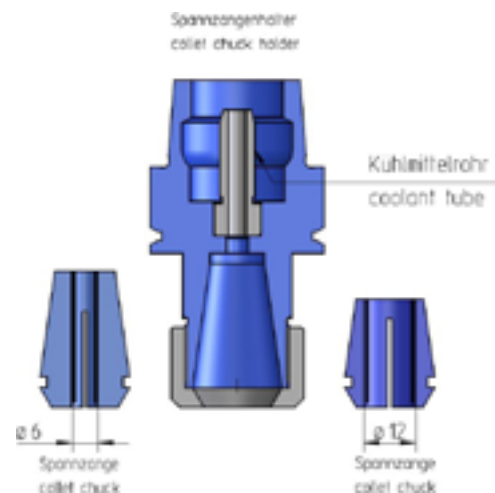
All diamond tools are also available with small grinding lip  
on request

## DIAMOND TOOLS HSK-40

Diamond tools  $\varnothing$  6,3-63 mm only with chuck holder (HSK-40-E)

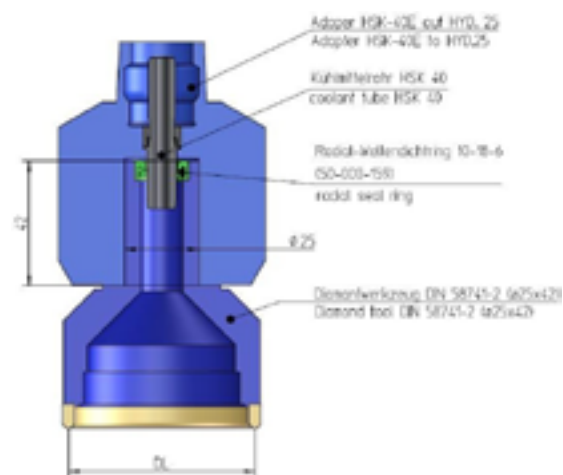
**Collet chuck holder HSK 40 E Part Number: 02-054-071**

| Part number | D                          |
|-------------|----------------------------|
| 60-052-726  | Collet chuck holder single |
| 60-052-246  | Collet chuck dia.12        |
| 60-052-266  | Collet chuck dia.6         |
| 75-000-673  | Coolant tube               |
| 60-052-247  | Union nut                  |

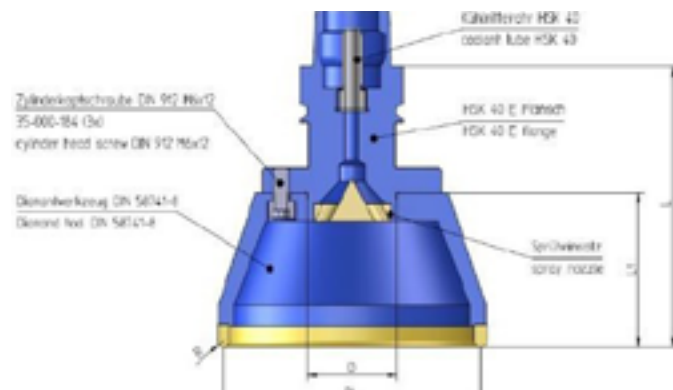


**Connection HSK-40E with hyd. 25x42**

**Part number: 60-054-798**



# DIAMOND TOOLS HSK-40



Diamond tools  $\varnothing$  71-100 mm for pre-grinding DIN 58741-8 (HSK-40-E)

| Part number | Spray nozzle | Flange     | specification | L   | DL  | R   | L1 | D  |
|-------------|--------------|------------|---------------|-----|-----|-----|----|----|
| 92-014-579  | 05-006-753   | 05-016-134 | D91 BZM C35   | 90  | 71  | 2   | 45 | 28 |
| 92-014-580  | 05-006-753   | 05-016-134 | D91 BZM C35   | 90  | 80  | 2   | 45 | 28 |
| 92-014-581  | 05-007-594   | 05-016-135 | D91 BZM C35   | 100 | 90  | 2   | 55 | 35 |
| 92-014-582  | 05-007-594   | 05-016-135 | D91 BZM C35   | 100 | 100 | 2,5 | 55 | 35 |
| 92-014-583  |              |            | D91 BZM C35   |     | Set |     |    |    |

Diamond tools  $\varnothing$  71-100 mm for fine-grinding DIN 58741-8 (HSK-40-E)

| Part number | Spray nozzle | Flange     | specification | L   | DL  | R   | L1 | D  |
|-------------|--------------|------------|---------------|-----|-----|-----|----|----|
| 92-014-584  | 05-006-753   | 05-016-134 | D20 BZM C15   | 90  | 71  | 2   | 45 | 28 |
| 92-014-585  | 05-006-753   | 05-016-134 | D20 BZM C15   | 90  | 80  | 2   | 45 | 28 |
| 92-014-586  | 05-007-594   | 05-016-135 | D20 BZM C15   | 100 | 90  | 2   | 55 | 35 |
| 92-014-587  | 05-007-594   | 05-016-135 | D20 BZM C15   | 100 | 100 | 2,5 | 55 | 35 |
| 92-014-588  |              |            | D20 BZM C15   |     | Set |     |    |    |

Diamond tools  $\varnothing$  110-140 mm for pre-grinding DIN 58741-8 (HSK-40-E)

| Part No.   | Spray nozzle | Flange     | specification   | L   | DL  | R   | L1 | D  |
|------------|--------------|------------|-----------------|-----|-----|-----|----|----|
| 92-014-589 | 05-007-594   | 05-016-135 | D126 BZW-SX C35 | 100 | 110 | 2,5 | 55 | 35 |
| 92-014-590 | 05-007-594   | 05-016-135 | D126 BZW-SX C35 | 100 | 125 | 2,5 | 55 | 35 |
| 92-014-591 | 05-007-594   | 05-016-136 | D126 BZW-SX C35 | 110 | 140 | 2,5 | 62 | 50 |
| 92-014-592 |              |            | D126 BZW-SX C35 |     | Set |     |    |    |

Diamond tools  $\varnothing$  110-140 mm for fine-grinding DIN 58741-8 (HSK-40-E)

| Part No.   | Spray nozzle | Flange     | specification  | L   | DL  | R   | L1 | D  |
|------------|--------------|------------|----------------|-----|-----|-----|----|----|
| 92-014-593 | 05-007-594   | 05-016-135 | D25 BZW-SX C18 | 100 | 110 | 2,5 | 55 | 35 |
| 92-014-594 | 05-007-594   | 05-016-135 | D25 BZW-SX C18 | 100 | 125 | 2,5 | 55 | 35 |
| 92-014-595 | 05-007-594   | 05-016-136 | D25 BZW-SX C18 | 110 | 140 | 2,5 | 62 | 50 |
| 92-014-596 |              |            | D25 BZW-SX C19 |     | Set |     |    |    |

Diamond tools  $\varnothing$  110-140 mm for pre-grinding DIN 58741-8 (HSK-40-E)

| Part No.   | Spray nozzle | Flange     | specification   | L   | DL  | R   | L1 | D  |
|------------|--------------|------------|-----------------|-----|-----|-----|----|----|
| 92-014-597 | 05-007-594   | 05-016-136 | D151 BZW-SX C35 | 110 | 160 | 2,5 | 62 | 50 |
| 92-014-598 | 05-007-594   | 05-016-136 | D151 BZW-SX C35 | 110 | 180 | 2,5 | 62 | 50 |
| 92-014-599 |              |            | D151 BZW-SX C36 |     | Set |     |    |    |

Diamond tools  $\varnothing$  110-140 mm for fine-grinding DIN 58741-8 (HSK-40-E)

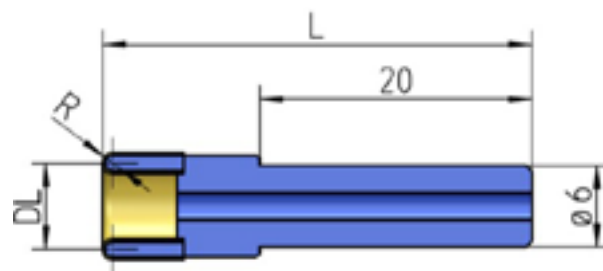
| Part No.   | Spray nozzle | Flange     | specification  | L   | DL  | R   | L1 | D  |
|------------|--------------|------------|----------------|-----|-----|-----|----|----|
| 92-014-600 | 05-007-594   | 05-016-135 | D30 BZW-SX C23 | 110 | 160 | 2,5 | 62 | 50 |
| 92-014-601 | 05-007-594   | 05-016-135 | D30 BZW-SX C23 | 110 | 180 | 2,5 | 62 | 50 |
| 92-014-602 |              | 05-016-136 | D30 BZW-SX C24 |     | Set |     |    |    |

Diamond tools are available with other diameters and specifications on request

All diamond tools are also available with small grinding lip on request

All two-part tools are delivered with flange. It is not necessary to order an extra flange.

## MICRO DRESSING TOOLS



Micro dressing tools  $\varnothing$  3-12,5 mm DIN 58741-5 ( $\varnothing$  6x20)  
SPS 10/25/30/50

| Part number | specification | DL   | R    | L  |
|-------------|---------------|------|------|----|
| 92-001-263  | D 64          | 3    | 0,5  | 40 |
| 92-009-259  | D 64          | 4    | 0,75 | 40 |
| 92-009-260  | D 64          | 6,3  | 0,75 | 40 |
| 92-001-275  | D 64          | 7,1  | 1    | 40 |
| 92-009-261  | D 64          | 8    | 1    | 40 |
| 92-009-262  | D 64          | 10   | 1    | 40 |
| 92-009-263  | D 64          | 12,5 | 1,25 | 40 |
| 92-009-276  | D 64          | Set  |      |    |

Micro dressing tools  $\varnothing$  14-30 mm DIN 58741-5 ( $\varnothing$  6x20)  
SPS 10/25/30/50

| Part number | specification | DL  | R    | L  |
|-------------|---------------|-----|------|----|
| 92-009-264  | D64           | 14  | 1,25 | 40 |
| 92-001-289  | D64           | 16  | 1,25 | 40 |
| 92-009-266  | D64           | 18  | 1,25 | 40 |
| 92-009-267  | D64           | 20  | 1,25 | 40 |
| 92-009-268  | D64           | 22  | 1,5  | 40 |
| 92-009-269  | D64           | 25  | 1,5  | 40 |
| 92-009-270  | D64           | 28  | 1,5  | 40 |
| 92-009-271  | D64           | 30  | 1,5  | 40 |
| 92-009-277  | D64           | Set |      |    |

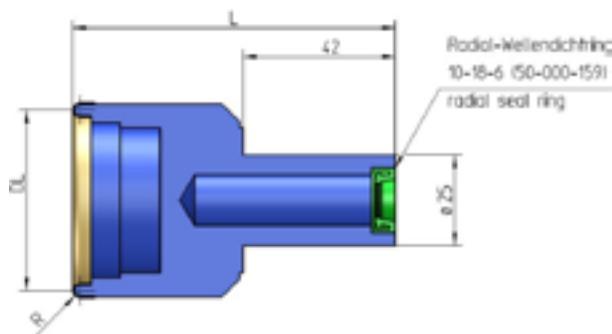
Micro dressing tools  $\varnothing$  32-60 mm DIN 58741-5 ( $\varnothing$  6x20)  
SPS 50

| Part number | specification | DL  | R   | L  |
|-------------|---------------|-----|-----|----|
| 92-014-871  | D64           | 32  | 1,5 | 35 |
| 92-014-872  | D64           | 36  | 1,5 | 35 |
| 92-014-873  | D64           | 40  | 1,5 | 35 |
| 92-014-874  | D64           | 45  | 1,5 | 35 |
| 92-014-875  | D64           | 50  | 2   | 35 |
| 92-014-876  | D64           | 56  | 2   | 35 |
| 92-014-877  | D64           | 60  | 2   | 35 |
| 92-014-869  | D64           | Set |     |    |

Diamond tools are available with other diameters and specifications on request

All diamond tools are also available with small grinding lip on request

# DRESSING TOOLS HYD.25X42



**Dressing tools Ø 6,3-20 mm DIN 58741-5 (Ø 25 x 42)**  
SPS 55/60/125/140/150/200

| Part number | specification | DL  | R    | L  |
|-------------|---------------|-----|------|----|
| 92-007-555  | D64S          | 6,3 | 1    | 90 |
| 92-007-556  | D64S          | 8   | 1    | 90 |
| 92-007-557  | D64S          | 11  | 1,25 | 90 |
| 92-007-558  | D64S          | 14  | 1,25 | 90 |
| 92-007-559  | D64S          | 18  | 1,25 | 90 |
| 92-006-433  | D64S          | 20  | 1,25 | 90 |
| 92-007-583  | D64S          | Set |      |    |

Set of dressing tools comprising 6 dressing tools in workshop-type wooden box

**Dressing tools Ø 25-50 mm DIN 58741-5 (Ø 25 x 42)**  
SPS 55

| Part number | specification | DL    | R   | L  |
|-------------|---------------|-------|-----|----|
| 92-007-560  | D64S          | 25    | 1,5 | 90 |
| 92-007-561  | D64S          | 28    | 1,5 | 90 |
| 92-007-562  | D64S          | 30    | 1,5 | 90 |
| 92-007-563  | D64S          | 32    | 1,5 | 90 |
| 92-007-564  | D64S          | 36    | 1,5 | 90 |
| 92-006-434  | D64S          | 40    | 1,5 | 90 |
| 92-007-565  | D64S          | 45    | 1,5 | 90 |
| 92-007-566  | D64S          | 50    | 1,5 | 90 |
| 92-008-377  | D64S          | Set A |     |    |

Set of dressing tools comprising 8 dressing tools in workshop-type wooden box

**Dressing tools Ø 25-63 mm DIN 58741-5 (Ø 25x42)**  
SPS 60/125/140/150/200

| Part number | specification | DL  | R   | L  |
|-------------|---------------|-----|-----|----|
| 92-007-560  | D64S          | 25  | 1,5 | 90 |
| 92-007-561  | D64S          | 28  | 1,5 | 90 |
| 92-007-562  | D64S          | 30  | 1,5 | 90 |
| 92-007-563  | D64S          | 32  | 1,5 | 90 |
| 92-007-564  | D64S          | 36  | 1,5 | 90 |
| 92-006-434  | D64S          | 40  | 1,5 | 90 |
| 92-007-565  | D64S          | 45  | 1,5 | 90 |
| 92-007-566  | D64S          | 50  | 1,5 | 90 |
| 92-007-567  | D64S          | 56  | 2   | 90 |
| 92-007-568  | D64S          | 63  | 2   | 90 |
| 92-007-584  | D64S          | Set |     |    |

Set of dressing tools comprising 10 dressing tools in workshop-type wooden box

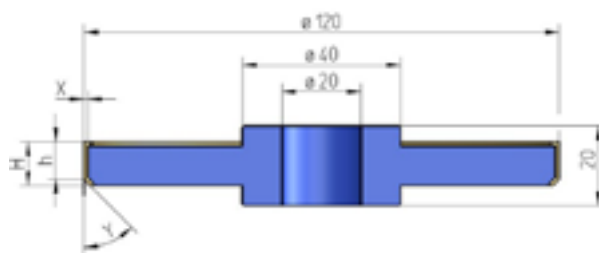
**Dressing tools Ø 71-125 mm DIN 58741-5 (Ø 25x42)**  
SPS 60/140/150/ Diamond tools are available with other diameters and specifications on request 200

| Part number | specification | DL  | R   | L  |
|-------------|---------------|-----|-----|----|
| 92-010-629  | D91S          | 71  | 2   | 90 |
| 92-010-631  | D91S          | 80  | 2   | 90 |
| 92-010-632  | D91S          | 90  | 2,5 | 90 |
| 92-010-633  | D91S          | 100 | 2,5 | 90 |
| 92-010-634  | D91S          | 110 | 2,5 | 90 |
| 92-010-635  | D91S          | 125 | 2,5 | 90 |
| 92-010-636  | D91S          | Set |     |    |

Set of dressing tools comprising 6 dressing tools in workshop-type wooden box

Diamond tools are available with other diameters and specifications on request

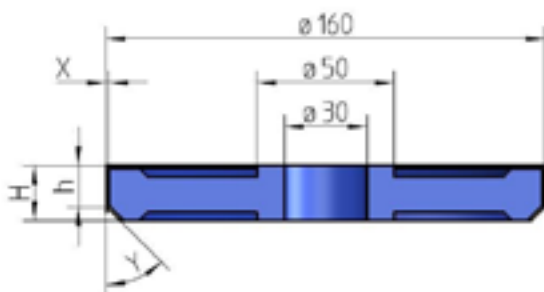
## CENTERING WHEELS



Diamond centering wheel Ø 120 DIN 58742 CM-2 / C-50

| Part number                | specification                                                                                                                   | H  | h | X | Y  |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------|----|---|---|----|
| 92-010-752<br>(92-005-066) | 1 cylinder part dia. 120 x 8 mm, D46/C90/BZ183<br>1 bevel section 45°/D25/C90/BZ183 and<br>1 bevel section 90°/D25/C90/BZ183    | 10 | 8 | 1 | 45 |
| 92-010-753<br>(92-005-067) | 1 cylinder part dia. 120 x 4 mm, D30/C90/BZ183,<br>1 bevel section 45°/D25/C135/BZ183 and<br>1 bevel section 90°/D25/C135/BZ183 | 5  | 4 | 1 | 45 |

Centering wheels are available in other diameters and specifications on request



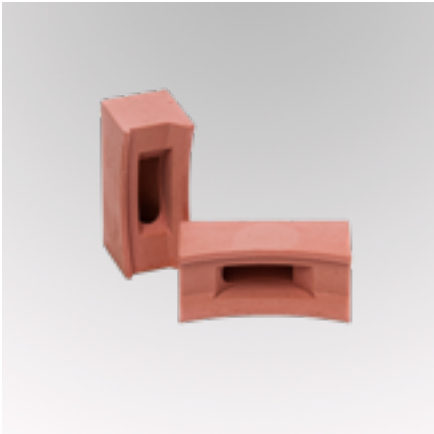
Diamond centering wheel Ø 160 DIN 58742 C-2 / C-300

| Part number                | specification                                                                                                                       | H  | h  | X | Y  |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----|----|---|----|
| 92-010-754<br>(92-005-065) | 1 cylinder part dia. 160 x 20/15 mm, D46/C90/BZ183,<br>1 bevel section 45°/D46/C135/BZ183 and<br>1 bevel section 90°/D46/C135/BZ183 | 20 | 15 | 1 | 45 |
| 92-010-755<br>(92-005-064) | 1 cylinder part dia. 160 x 20/15 mm, D46/C90/BZ183,<br>1 bevel section 45°/D30/C135/BZ183 and<br>1 bevel section 90°/D30/C135/BZ183 | 20 | 15 | 1 | 45 |

Centering wheels are available in other diameters and specifications on request

# COOLANT MANIFOLD

Satisloh offers suitable coolant feeds with customized geometry to each centering wheel. Coolant feeds are available on request

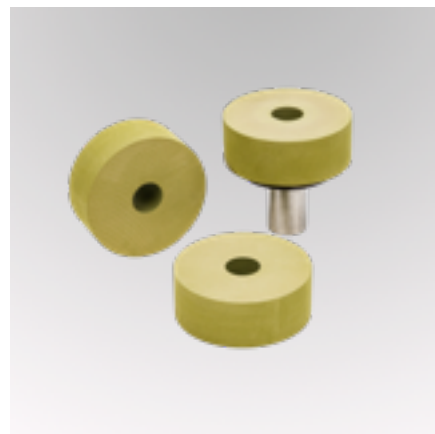


| Part number | specification                                                                                                     |
|-------------|-------------------------------------------------------------------------------------------------------------------|
| 05-059-343  | Replacement coolant manifold suitable for 92-005- 065 and 92-005-064 right side installation, bevel section top   |
| 05-059-279  | Replacement coolant manifold suitable for 92-005- 065 and 92-005-064 left side installation, bevel section bottom |
| 05-064-887  | Replacement coolant manifold for centering wheels dia. 180 right                                                  |
| 05-064-886  | Replacement coolant manifold for centering wheels dia. 180 left                                                   |

# DRESSING STONES

## Dressing tool for C-300

| Part No.   | Description                                                                                    | Specification         |
|------------|------------------------------------------------------------------------------------------------|-----------------------|
| 02-078-431 | Dressing tool with Hyd.25x42 for diamond tool with dressing stone<br>ø80x30 SC9 500 H10 RE REI | For grit size D15-D46 |
| 02-078-432 | Dressing tool with Hyd.25x42 for diamond tool with dressing stone<br>ø80x30 SC9 320 K10 RE REI | For grit size D46-D76 |
| 02-078-433 | Dressing tool with Hyd.25x42 for diamond tool with dressing stone<br>ø80x30 SC9 180 L10 RE REI | For grit size D76     |



## Dressing Stones for C-50

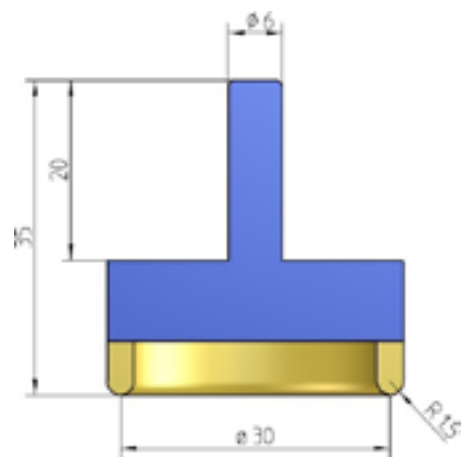
| Part No.   | Description                                                                                          | Specification         |
|------------|------------------------------------------------------------------------------------------------------|-----------------------|
| 02-080-574 | Dressing tool with Hyd.12x25 for diamond tool with dressing stone<br>ø40x25 SC9 500 H R REI          | For grit size D15-D46 |
| 75-051-454 | Dressing Stone ø40x25 SC 9 500 H10 R REI (can be ordered with customer-specific holders on request)  | For grit size D15-D46 |
| 75-051-455 | Dressing Stone ø40x25 SC 9 180 L10 RE REI (can be ordered with customer-specific holders on request) | For grit size D76     |

## Dressing tool for SPM-125 / 140 / 150 / 200

| Part No.   | Description                                                                                    | Specification         |
|------------|------------------------------------------------------------------------------------------------|-----------------------|
| 02-078-864 | Dressing tool with Hyd.25x42 for diamond tool with dressing stone<br>ø80x30 SC9 500 H10 RE REI | For grit size D15-D46 |
| 02-078-865 | Dressing tool with Hyd.25x42 for diamond tool with dressing stone<br>ø80x30 SC9 320 K10 RE REI | For grit size D46-D76 |
| 02-078-867 | Dressing tool with Hyd.25x42 for diamond tool with dressing stone<br>ø80x30 SC9 180 L10 RE REI | For grit size D76     |

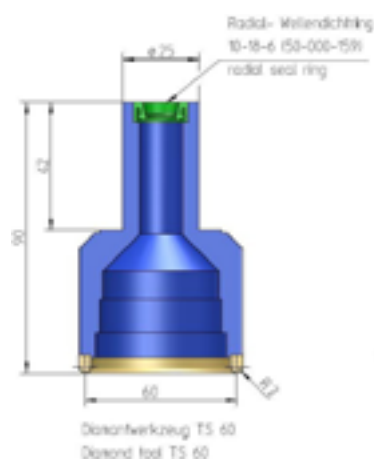
## Dressing Stones for C-300 / SPM-125 / 140 / 150 / 200

| Part No.   | Description                              | Specification         |
|------------|------------------------------------------|-----------------------|
| 75-051-410 | Dressing Stone ø80x30 SC9 500 H RE REI   | For grit size D15-D46 |
| 75-051-412 | Dressing Stone ø80x30 SC9 320 K10 RE REI | For grit size D15-D46 |
| 75-051-411 | Dressing Stone ø80x30 SC9 180 L10 RE REI | For grit size D76     |



Diamond cup-tools for aspheres SPM 50

| Part No.   | specification                                                     |
|------------|-------------------------------------------------------------------|
| 92-015-113 | Diamond tool for pre-grinding- cup mode TS 30 / D46- BZM- C50     |
| 92-015-114 | Diamond tool for fine-grinding- cup mode TS 30 / D15- BZM- C50    |
| 92-015-115 | Diamond tool for fine-grinding- cup mode TS 30 / D18 – KB53 – C90 |

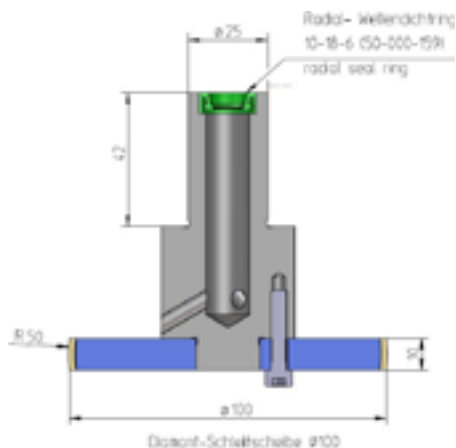


Diamond cup-tools for aspheres SPM 60/140/150/200

| Part No.   | specification                                                  |
|------------|----------------------------------------------------------------|
| 92-008-248 | Diamond tool for pre-grinding- cup mode TS 60 / D46- BZM- C50  |
| 92-008-249 | Diamond tool for fine-grinding- cup mode TS 60 / D15- BZM- C50 |

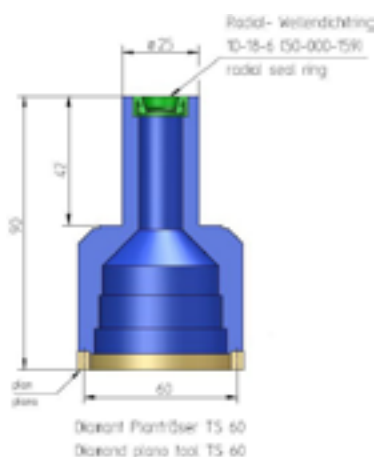
Diamond tools are available with other diameters and specifications on request

## ASPHERE TOOLS



### Diamond grinding wheel for aspheres SPM- 60/140/150/200

| Part No.   | specification                                                                                     |
|------------|---------------------------------------------------------------------------------------------------|
| 92-008-252 | Diamond grinding disc for finest grinding- disc mode Ø 100,0 mm / D15- BZM- C50 with flange       |
| 92-008-253 | Diamond grinding disc for finest grinding- disc mode Ø 100,0 mm / D18- KB53/A- C90 with flang     |
| 92-011-466 | Diamond grinding disc for pre grinding-disc mode Ø 100 D46 BZM C50 with flange                    |
| 92-012-084 | Diamond grinding disc for finest grinding- disc mode Ø 100,0 mm / D18- KB53/A- C90 without flange |
| 92-015-388 | Diamond grinding disc for finest grinding- disc mode Ø 120x10 mm / D18- KB53/A- C90 with flange   |
| 92-015-389 | Diamond grinding disc for finest grinding- disc mode Ø 120x5 mm / D18- KB53/A- C90 with flange    |

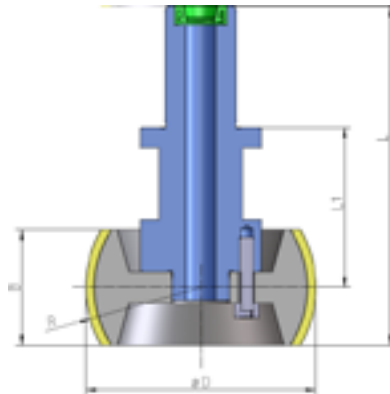


### Diamond Plano-tool for aspheres SPM 60/140/150/200

| Part No.   | specification                                                                         |
|------------|---------------------------------------------------------------------------------------|
| 92-008-254 | Diamond plano tool for finest grinding- cup mode (off-axis)<br>TS 60 / D18- KB53- C90 |

Diamond tools are available with other diameters and specifications on request

# BALL SEGMENT TOOLS



Ball segment tool dia. 100

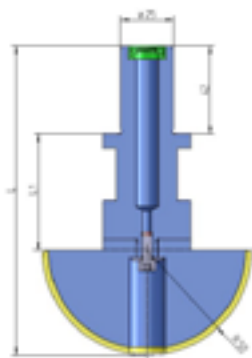
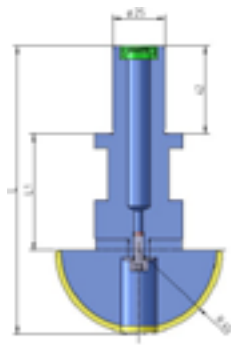
| Part No.   | specification       | D   | R  | B  | L     | L1   |
|------------|---------------------|-----|----|----|-------|------|
| 92-011-090 | MDT-629 RS D15 C100 | 100 | 50 | 40 | 117,5 | 55,5 |
| 92-011-091 | D15 BZM C100        | 100 | 50 | 40 | 117,5 | 55,5 |
| 92-011-092 | D46 BZM C60         | 100 | 50 | 40 | 117,5 | 55,5 |
| 92-011-093 | D91 BZM C60         | 100 | 50 | 40 | 117,5 | 55,5 |
| 92-011-094 | D126 BZM C60        | 100 | 50 | 40 | 117,5 | 55,5 |

Ball segment tool dia. 80

| Part No.   | specification       | D  | R  | B  | L     | L1   |
|------------|---------------------|----|----|----|-------|------|
| 92-011-078 | MDT-629 RS D15 C100 | 80 | 40 | 40 | 117,5 | 55,5 |
| 92-011-079 | D15 BZM C100        | 80 | 40 | 40 | 117,5 | 55,5 |
| 92-011-088 | D46 BZM C60         | 80 | 40 | 40 | 117,5 | 55,5 |
| 92-011-089 | D91 BZM C60         | 80 | 40 | 40 | 117,5 | 55,5 |
| 92-011-080 | D126 BZM C60        | 80 | 40 | 40 | 117,5 | 55,5 |

Ball segment tool dia. 50

| Part No.   | specification       | D  | R  | B  | L     | L1   |
|------------|---------------------|----|----|----|-------|------|
| 92-011-081 | MDT-629 RS D15 C100 | 50 | 25 | 40 | 117,5 | 55,5 |
| 92-011-082 | D15 BZM C100        | 50 | 25 | 40 | 117,5 | 55,5 |
| 92-011-095 | D46 BZM C60         | 50 | 25 | 40 | 117,5 | 55,5 |
| 92-011-083 | D91 BZM C60         | 50 | 25 | 40 | 117,5 | 55,5 |
| 92-011-096 | D126 BZM C60        | 50 | 25 | 40 | 117,5 | 55,5 |



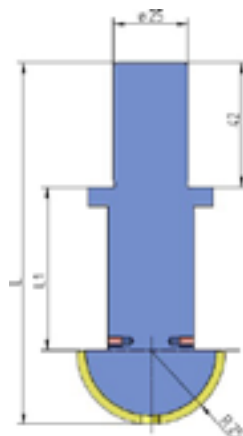
Ball segment tool dia. 100

| Part No.   | specification       | D   | R  | L     | L1   |
|------------|---------------------|-----|----|-------|------|
| 92-011-498 | MDT-629 RS D15 C100 | 100 | 50 | 147,5 | 55,5 |
| 92-011-499 | D15 BZM C100        | 100 | 50 | 147,5 | 55,5 |
| 92-011-500 | D46 BZM C60         | 100 | 50 | 147,5 | 55,5 |
| 92-011-501 | D91 BZM C60         | 100 | 50 | 147,5 | 55,5 |
| 92-011-502 | D126 BZM C60        | 100 | 50 | 147,5 | 55,5 |

Ball segment tool dia. 80

| Part No.   | specification       | D  | R  | L     | L1   |
|------------|---------------------|----|----|-------|------|
| 92-011-503 | MDT-629 RS D15 C100 | 80 | 40 | 137,6 | 55,5 |
| 92-011-504 | D15 BZM C100        | 80 | 40 | 137,6 | 55,5 |
| 92-011-505 | D46 BZM C60         | 80 | 40 | 137,6 | 55,5 |
| 92-011-506 | D91 BZM C60         | 80 | 40 | 137,6 | 55,5 |
| 92-011-507 | D126 BZM C60        | 80 | 40 | 137,6 | 55,5 |

## BALL SEGMENT TOOLS



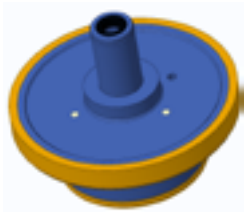
Ball segment tool dia. 50

| Part No.   | specification       | D  | R  | B   | L  |
|------------|---------------------|----|----|-----|----|
| 92-011-510 | MDT-629 RS D15 C100 | 50 | 25 | 122 | 55 |
| 92-011-511 | D15 BZM C100        | 50 | 25 | 122 | 55 |
| 92-011-512 | D46 BZM C60         | 50 | 25 | 122 | 55 |
| 92-011-513 | D91 BZM C60         | 50 | 25 | 122 | 55 |
| 92-011-514 | D126 BZM C60        | 50 | 25 | 122 | 55 |



| Part No.   | specification                            |
|------------|------------------------------------------|
| 92-016-547 | Ball segment tool R=40 D15 BZW C50 L=117 |
| 35-001-540 | scrub screw DIN 913 M5x8 V2A             |
| 92-015-919 | Ball segment tool T70 D15-BZM-C50 L=117  |
| 92-015-928 | Ball segment tool T70 D181-BNX-C50 L=117 |

# COMBI TOOLS HYD.25X42



## 92-015-827

| Part No.   | Consisting of                    |
|------------|----------------------------------|
| 92-015-826 | Combitool TS 80 D91 BZW C50      |
| 92-015-825 | Combitool wheel Ø130 D64 BZW C90 |

## 92-016-839

| Part No.   | Consisting of                     |
|------------|-----------------------------------|
| 92-016-837 | Combitool TS 80 D151 BZW C35      |
| 92-016-838 | Combitool wheel Ø130 D107 BZW C60 |

## 92-016-844

| Part No.   | Consisting of                    |
|------------|----------------------------------|
| 92-016-843 | Combitool TS 80 D20 BZW C23      |
| 92-016-840 | Combitool wheel Ø130 D46 BZW C75 |



## 92-016-846

| Part No.   | Consisting of                     |
|------------|-----------------------------------|
| 92-016-843 | Combitool TS 80 D151 BZW C35      |
| 92-016-845 | Combitool wheel Ø130 D107 BZW C60 |

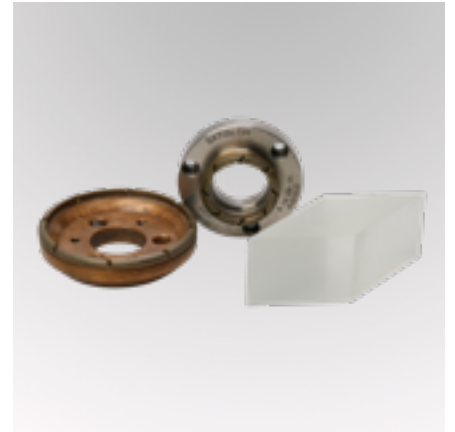
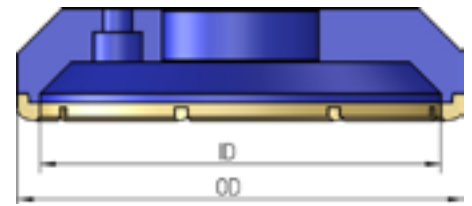
## 92-016-842

| Part No.   | Consisting of                    |
|------------|----------------------------------|
| 92-016-841 | Combitool TS 80 D54 BZW C30      |
| 92-016-840 | Combitool wheel Ø130 D46 BZW C75 |

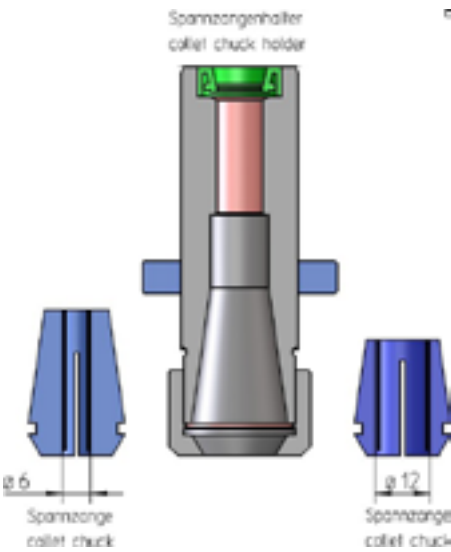
## PRISM TOOLS

### Diamond tools for prism grinding PR-150

| Part No.                   | specification | OD  | ID |
|----------------------------|---------------|-----|----|
| <a href="#">92-001-670</a> | D91 C35 BZW   | 100 | 90 |
| <a href="#">92-001-669</a> | D91 C35 BZW   | 100 | 70 |
| <a href="#">92-014-932</a> | D46 C35 BZW   | 76  | 40 |
| <a href="#">92-010-834</a> | D46 C35 BZW   | 50  | 40 |

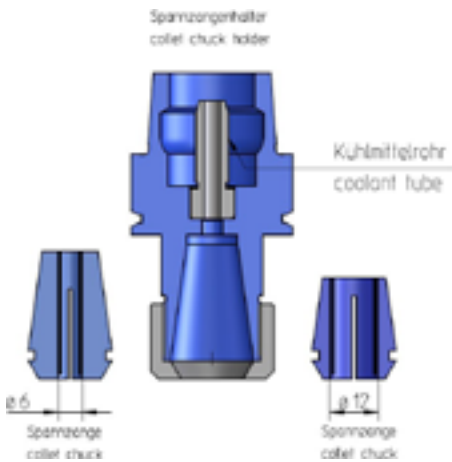


COLLET CHUCK HOLDER



Collet chuck holder Hyd. 25 x 42 Part Number: 02-051-168

| Part No.   | Spare parts                |
|------------|----------------------------|
| 05-051-868 | Collet chuck holder single |
| 60-052-246 | Collet chuck dia.12        |
| 60-052-266 | Collet chuck dia.6         |
| 60-052-247 | Union nut                  |
| 50-000-159 | Seal ring                  |



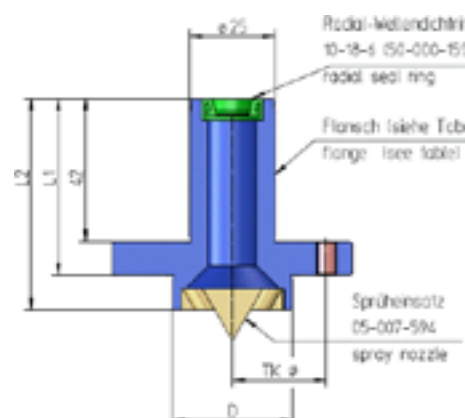
Collet chuck holder HSK-40 Part Number: 02-054-071

| Part No.   | Spare parts                  |
|------------|------------------------------|
| 60-052-726 | Collet chuck holder HSK-40 E |
| 60-052-246 | Collet chuck dia.12          |
| 60-052-266 | Collet chuck dia.6           |
| 75-000-673 | Coolant tube                 |
| 60-052-247 | Union nut                    |

## TOOL ADAPTER HYD.25X42

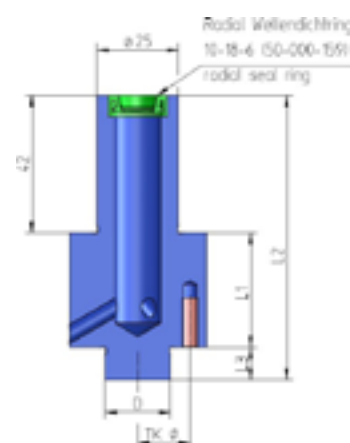
Tool Adapter for diamond grinding tools Hyd. 25 x 42

| Part No.   | D  | L1  | L2  | TK- Ø |
|------------|----|-----|-----|-------|
| 05-016-586 | 28 | 50  | 60  | 40    |
| 05-051-166 | 28 | 100 | 110 | 40    |
| 05-016-585 | 35 | 52  | 62  | 55    |
| 05-016-229 | 50 | 54  | 66  | 75    |

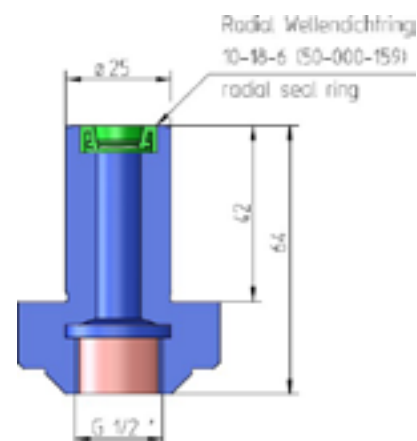


Tool Adapter for grinding wheels Hyd. 25 x 42

| Part No.    | D  | L1  | L2  | L3 | TK- Ø |
|-------------|----|-----|-----|----|-------|
| 05-019-047  | 20 | 28  | 88  | 15 | 32    |
| 05-063-102  | 20 | 35  | 87  | 10 | 32    |
| 05-052-934  | 20 | 50  | 92  | 15 | 32    |
| 901.106.267 | 20 | 51  | 101 | 8  | 32    |
| 05-019-520  | 20 | 55  | 87  | 10 | 32    |
| 05-056-848  | 20 | 65  | 117 | 10 | 32    |
| 901.106.243 | 20 | 89  | 140 | 9  | 32    |
| 05-061-524  | 20 | 100 | 150 | 8  | 32    |
| 05-018-711  | 20 | 100 | 152 | 10 | 32    |
| 05-061-713  | 20 | 120 | 172 | 10 | 32    |
| 05-019-040  | 20 | 140 | 196 | 14 | 32    |

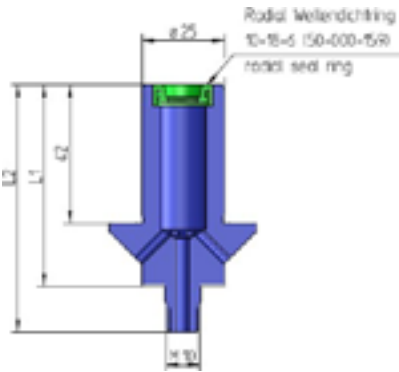


| Part No.   | Spare parts                                  |
|------------|----------------------------------------------|
| 02-061-765 | Tool Adapter for drilling tools Hyd. 25 x 42 |

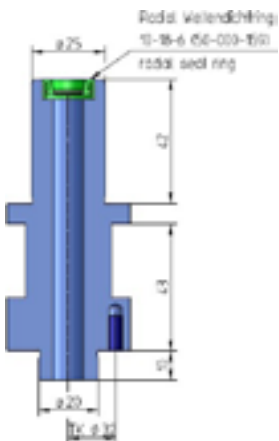


# TOOL ADAPTER HYD.25X42

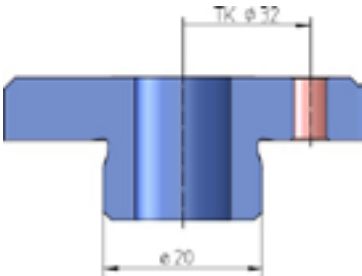
| Part No.   | Spare parts                                  | L1   | L2   |
|------------|----------------------------------------------|------|------|
| 05-054-880 | Tool Adapter for scooping tools Hyd. 25 x 42 | 61,2 | 75,2 |



| Part No.   | Spare parts                                          |
|------------|------------------------------------------------------|
| 05-069-657 | Tool Adapter for Ball segment tools dia.100 & dia.80 |



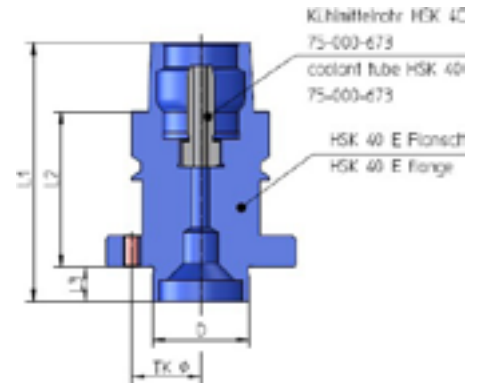
| Part No.   | Spare parts                                             |
|------------|---------------------------------------------------------|
| 05-069-194 | Tool Adapter for Ball segment tools SPM-200 (Spindle 5) |



## TOOL ADAPTER HSK-40

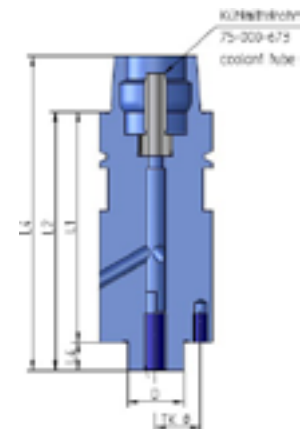
### Tool Adapter for diamond grinding tools HSK-40 E

| Part No.   | D  | L1 | L2 | L3 | TK- Ø |
|------------|----|----|----|----|-------|
| 05-016-134 | 28 | 75 | 45 | 10 | 40    |
| 05-016-135 | 35 | 75 | 45 | 10 | 55    |
| 05-016-136 | 50 | 80 | 48 | 12 | 75    |



### Tool Adapter for grinding wheels HSK-40 E

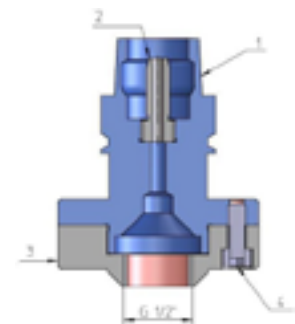
| Part No.   | D  | L1    | L2    | L3    | L4 | TK- Ø | for tool changer |
|------------|----|-------|-------|-------|----|-------|------------------|
| 05-077-016 | 20 | 75    | 85    | 105   | 10 | 32    | x                |
| 05-019-418 | 20 | 82    | 92    | 112   | 10 | 32    | x                |
| 05-019-237 | 20 | 95    | 105   | 125   | 10 | 32    |                  |
| 05-019-401 | 20 | 95    | 95    | 125   | 10 | 32    | x                |
| 05-061-334 | 20 | 105   | 115   | 135   | 10 | 32    |                  |
| 05-076-620 | 20 | 109,5 | 120   | 140   | 10 | 32    | x                |
| 05-077-165 | 20 | 120   | 130   | 150   | 10 | 32    | x                |
| 05-077-178 | 20 | 140   | 150,5 | 170,5 | 10 | 32    | x                |
| 05-061-338 | 20 | 140   | 150   | 170   | 10 | 32    |                  |



### Tool Adapter for drilling tools HSK-40 E

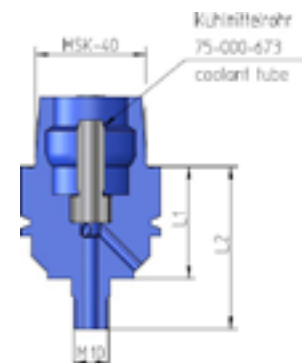
Tool Adapter HSK-40 part number: 02-066-716

| Part No.   | Spare parts    | Pos.   |
|------------|----------------|--------|
| 05-016-135 | HSK-40 Adapter | 1      |
| 75-000-673 | Coolant tube   | 2      |
| 05-070-785 | Connector      | 3      |
| 35-000-180 | Screw M6x16    | 4 (3x) |



### Tool Adapter for scooping tools HSK-40 E

| Part No.    | L1 | L2    |
|-------------|----|-------|
| 05-070-788  | 32 | 46,5  |
| 901.110.085 | 86 | 100,5 |



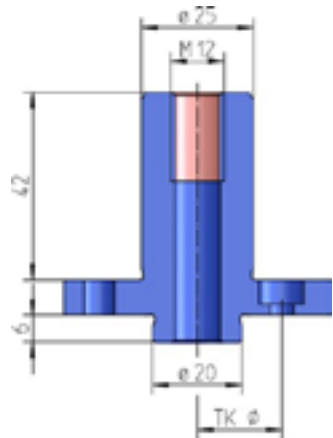
### Accessories for tool Adapter HSK-40 E

| Part No.   | Description   |
|------------|---------------|
| 75-000-673 | Coolant tubes |
| 75-000-675 | Socket Wrench |

# TOOL ADAPTER FOR POLISHING TOOLS HYD.25X42

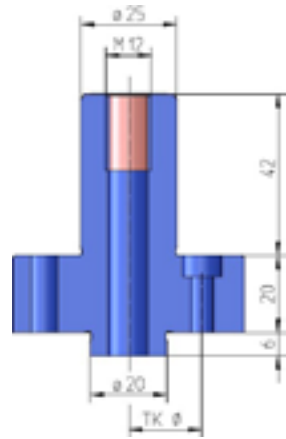
Tool adapter for polishing tools Hyd.25x42

| Part No.   | Material        | TK- Ø |
|------------|-----------------|-------|
| 05-017-492 | Stainless steel | 38    |
| 05-053-911 | Brass           | 38    |



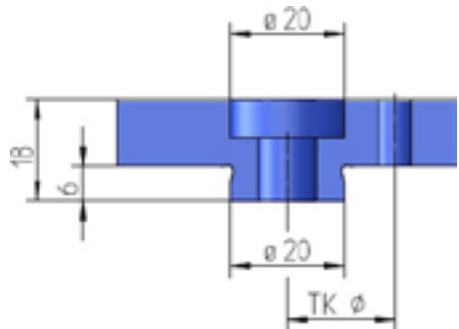
Tool Adapter for polishing tools extra height Hyd.25x42

| Part No.   | TK- Ø |
|------------|-------|
| 05-063-021 | 38    |



Spacer for polishing tools Hyd.25x42

| Part No.   | TK- Ø |
|------------|-------|
| 05-062-959 | 38    |



# WORKPIECE CLAMPING SYSTEMS

**SPM-10/30/50 Hydrodehn clamping chuck dia. 12x25**  
**Hydrodehn clamping chuck 12x25**  
**Part Number: 02-054-066**

| Part No.   | Spare parts                      | Qty |
|------------|----------------------------------|-----|
| 35-000-167 | Screw DIN 912 M4x30 V2A          | 3   |
| 60-000-316 | Hydr. Clamping chuck dia. 12     | 1   |
| 35-001-422 | screw DIN 912 M4x20 V2A          | 3   |
| 05-055-591 | Cylinderflange for HD 60-000-316 | 1   |

**Hydrodehn clamping chuck 12x25 with index pin**  
**Part Number: 02-075-640**

| Part No.   | Spare parts                      | Qty |
|------------|----------------------------------|-----|
| 35-000-167 | Screw DIN 912 M4x30 V2A          | 3   |
| 60-053-500 | Hydr. Clamping chuck dia. 12     | 1   |
| 35-001-422 | screw DIN 912 M4x20 V2A          | 3   |
| 05-055-591 | Cylinderflange for HD 60-000-316 | 1   |
| 35-055-619 | Dowel Pin DIN7 3m6x10 V2A        | 1   |

**SPM-10/30/50Clamping chuck alignable, for clamping single lenses in aluminum or plastic collet chucks (Clamping chucks DIN 58739-3)**

**Clamping chuck alignable for collet chucks**  
**Part Number: 02-065-482**

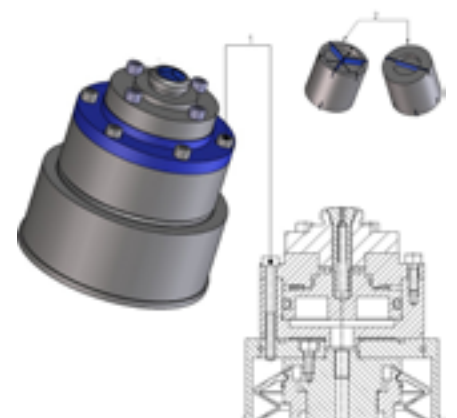
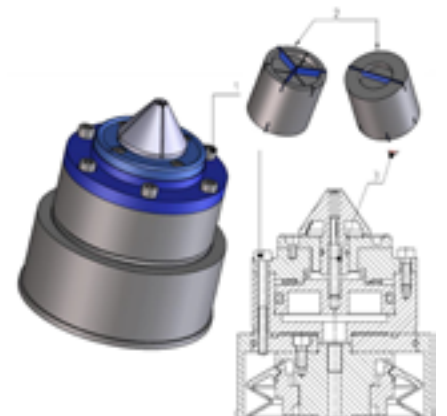
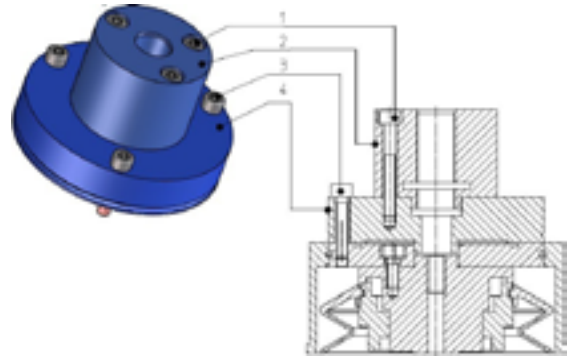
| Part No.   | Spare parts                   | Qty |
|------------|-------------------------------|-----|
| 35-001-503 | Screw DIN 912 M4x40 V2A       | 8   |
| 02-002-540 | Collet chuck key              | 1   |
| 35-001-577 | Scrub screw DIN 913 M5x16 V2A | 1   |

**SPM-10/30/50 clamping chuck alignable, for clamping large rod lenses and single lenses ( without collet chuck )**

**Collet chuck TYP B8-72-137 max. dia.10**

**Clamping chuck alignable for big rod lenses & single lenses**  
**Part Number: 02-005-151**

| Part No.   | Spare parts               | Qty |
|------------|---------------------------|-----|
| 35-001-503 | Screw DIN 912 M4 x 40 V2A | 8   |
| 02-002-540 | Collet chuck key          | 1   |



# WORKPIECE CLAMPING SYSTEMS

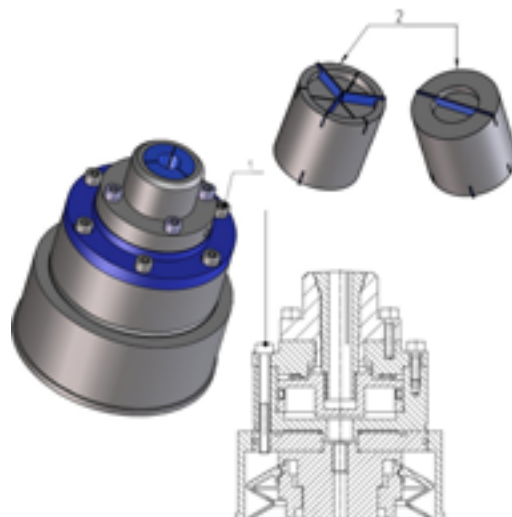
**SPM-10/30/50 clamping large rod lenses and single lenses (without collet chuck)**

**D=15 Collet chuck TYP B15-72-139 max. dia.15**

**Clamping chuck alignable for big rod lenses & single lenses**

**Part Number: 02-005-152**

| Part No.   | Spare parts               | Pos. |
|------------|---------------------------|------|
| 35-001-503 | Screw DIN 912 M4 x 40 V2A | 8    |
| 02-002-540 | Collet chuck key          | 1    |

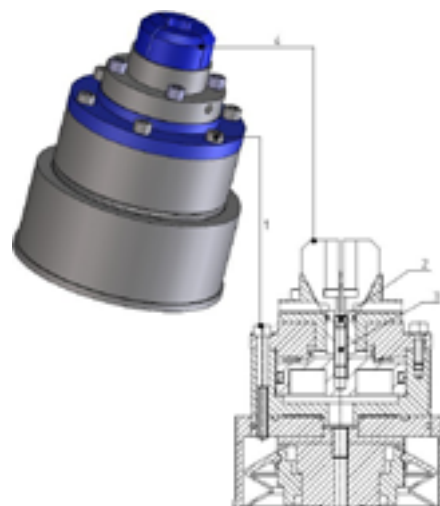


**SPM-10/30/50 Clamping chuck alignable, for clamping cementing chucks and large rod lenses**

**Clamping chuck alignable for cementing chucks and large rod lenses**

**Part Number: 02-005-150**

| Part No.   | Spare parts               | Pos. |
|------------|---------------------------|------|
| 35-001-503 | Screw DIN 912 M4 x 40 V2A | 8    |
| 35-000-737 | Grub screw M5 x 6 V2A     | 1    |
| 35-001-668 | Grub screw M5 x 16 V2A    | 1    |
| 05-010-517 | Collet chuck dia. 12      | 1    |

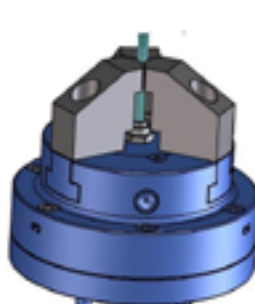


**SPM-10/30/50, C-50 3 Jaw precision clamping chuck for rod lenses and cementing chucks**

**For High precision clamping – tasks in micro range Concentricity 2 µm**

**Accessories: Grease gun: 60-054-907 / Grease: 90-055-630**

| Part No.   | Spare parts               | Pos. |
|------------|---------------------------|------|
| 35-001-503 | Screw DIN 912 M4 x 40 V2A | 8    |
| 35-000-737 | Grub screw M5 x 6 V2A     | 1    |
| 35-001-668 | Grub screw M5 x 16 V2A    | 1    |
| 05-010-517 | Collet chuck dia. 12      | 1    |

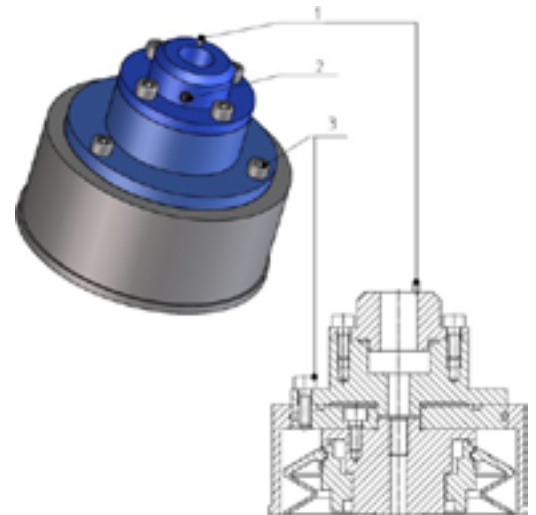


## WORKPIECE CLAMPING SYSTEMS

**SPM-10/30/50 clamping chuck for vacuum receptions (DIN 58739-1) for loose lenses**

**Clamping chuck for vacuum receptions for loose lenses**  
**Part Number: 02-002-667**

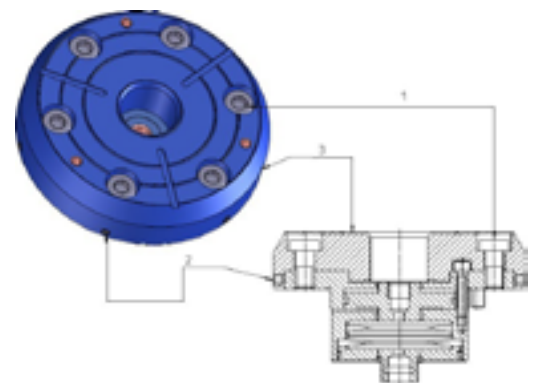
| Part No.   | Spare parts                     | Qty |
|------------|---------------------------------|-----|
| 35-001-487 | Cylinder pin DIN 7 2m6 x 10 V2A | 1   |
| 35-001-488 | Scrub screw DIN 913 M4 x 8 V2A  | 1   |
| 35-000-171 | Screw DIN 912 M4 x 10 V2A       | 4   |



**SPM-55 plano plate for clamping chucks or vacuum chucks**

**Mechanical or vacuum clamping for work piece**

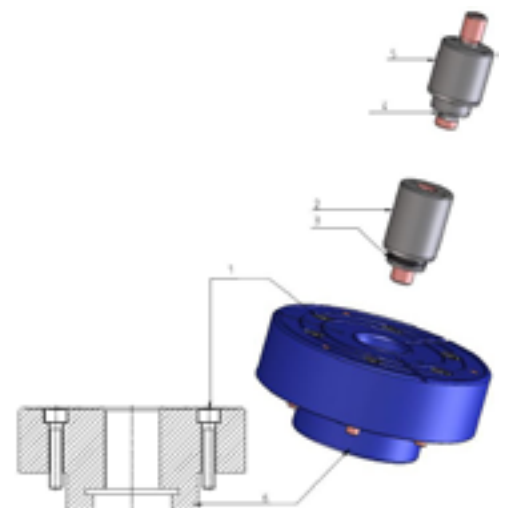
| Part No.   | Spare parts                    | Qty |
|------------|--------------------------------|-----|
| 35-001-474 | Screw DIN 912 M8 x 16 V2A      | 6   |
| 35-000-646 | Scrub screw DIN 913 M4 x 5 V2A | 6   |
| 05-017-757 | Base plate                     | 1   |



**SPM-60/140/200 Combination chuck system, hydro expansion chuck 25x42 (DIN 58741-2), integrated plano plate for collet chucks (DIN 58739-3), vacuum chucks (DIN58739-1) and cementing chucks.**

**Combination chuck system hydro expansion chuck & integrated plano plate**  
**Part Number: 02-051-677**

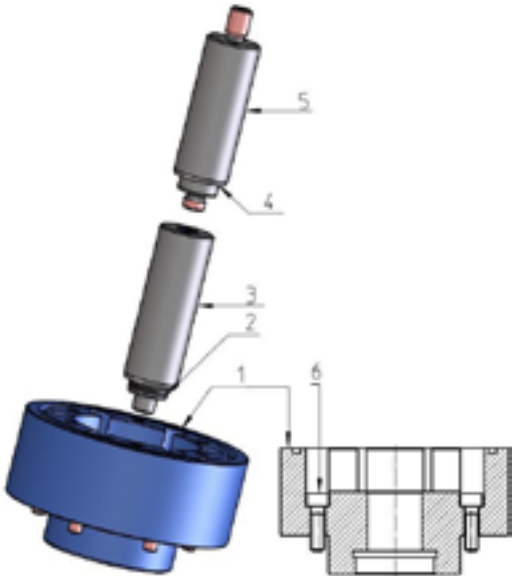
| Part No.   | Spare parts                     | Qty |
|------------|---------------------------------|-----|
| 35-000-188 | Screw DIN 912 M6 x 30 V2A       | 6   |
| 05-018-758 | Adapter vacuum chuck            | 1   |
| 50-000-025 | O-Ring 14 x 2                   | 1   |
| 50-000-450 | O-Ring 12 x 1, 5                | 1   |
| 05-018-757 | Adapter collet chuck            | 1   |
| 60-000-367 | Hydrodehn expansion chuck 25x42 | 1   |



# WORKPIECE CLAMPING SYSTEMS

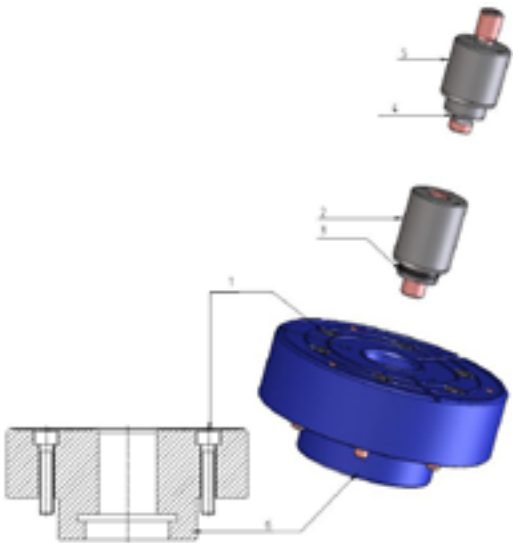
**SPM-140/200 Increasing workpiece reception for combination chuck**  
**Increasing workpiece reception for combination chuck**  
**Part Number: 02-055-885**

| Part No.   | Spare parts               | Qty |
|------------|---------------------------|-----|
| 05-055-446 | Adapter                   | 1   |
| 50-000-025 | O-Ring 14 x 2             | 1   |
| 05-057-680 | Adapter vacuum chuck      | 1   |
| 50-000-450 | O-Ring 12 x 1,5           | 1   |
| 05-057-679 | Adapter collet chuck      | 1   |
| 35-000-181 | Screw DIN 912 M6 x 20 V2A | 6   |



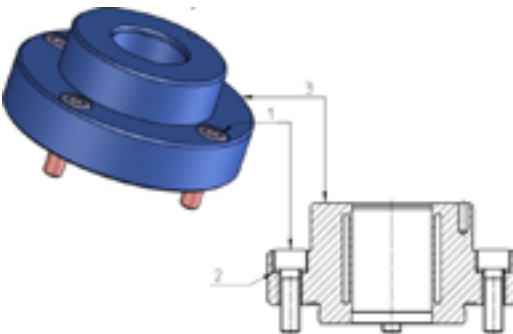
**SPM-125/-150 Mechanical or vacuum clamping for work piece**  
**Combination chuck system hydro expansion chuck & integrated plano plate**  
**Part Number: 02-061-718**

| Part No.   | Spare parts               | Qty |
|------------|---------------------------|-----|
| 35-000-188 | Screw DIN 912 M6 x 30 V2A | 6   |
| 05-018-758 | Adapter vacuum chuck      | 1   |
| 50-000-025 | O-Ring 14 x 2             | 1   |
| 50-000-450 | O-Ring 12 x 1,5           | 1   |
| 05-018-757 | Adapter collet chuck      | 1   |
| 05-063-997 | Support plate             | 1   |



**SPM-125/-150 Hydro expansion chuck 25x42**  
**Hydro expansion chuck 25x42**  
**Part Number: 02-061-719**

| Part No.   | Spare parts               | Qty |
|------------|---------------------------|-----|
| 35-000-188 | Screw DIN 912 M6 x 30 V2A | 6   |
| 50-000-025 | O-Ring 14 x 2             | 1   |
| 60-053-740 | Hydro Expansion chuck     | 1   |



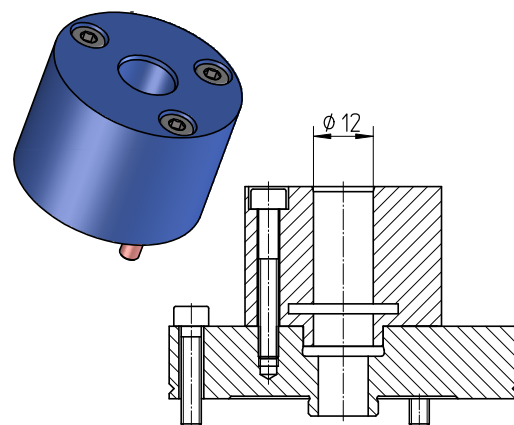
## HYDRO EXPANSION CHUCK

Hydro expansion chuck 12x25

Part number: 60-000-316

Screw DIN 912 M4 x 30 V2A

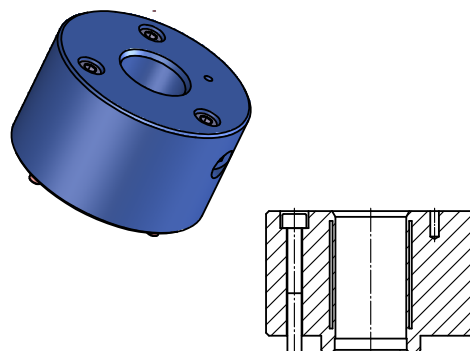
| Part No.<br>DIN 912 M4 x 30 | Machine | Tool spindle<br>above | Work piece<br>spindle below | Qty |
|-----------------------------|---------|-----------------------|-----------------------------|-----|
| 35-000-167                  | CM-2    | X                     | X                           | 3   |
| 35-000-167                  | C-50    | X                     | X                           | 3   |
| 35-000-167                  | SPM-30  |                       | X                           | 3   |
| 35-000-167                  | SPS-30  | X                     |                             | 3   |
| 35-000-167                  | SPM-10  |                       | X                           | 3   |



Hydro expansion chuck 25x42 with Indexpin

Part number: 60-000-281

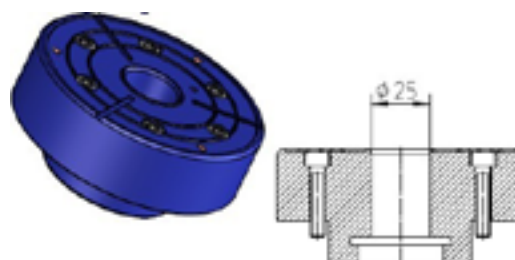
| Part No.<br>DIN 912 M5 x 45 | Machine | Tool spindle<br>above | Work piece<br>spindle below | Qty |
|-----------------------------|---------|-----------------------|-----------------------------|-----|
| 35-001-606                  | C-2     | X                     | X                           | 3   |
| 35-001-606                  | C-300   | X                     | X                           | 3   |



Hydro expansion chuck 25 x 42

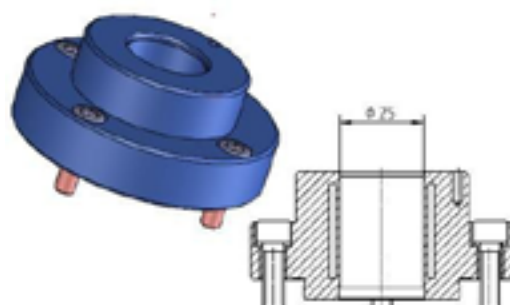
Part number: 60-000-367

| Part No.<br>DIN 912 M6 x 30 | Machine | Tool spindle<br>above | Work piece<br>spindle below | Qty |
|-----------------------------|---------|-----------------------|-----------------------------|-----|
| 35-000-188                  | SPM-60  |                       | X                           | 6   |
| 35-000-188                  | SPM-140 |                       | X                           | 6   |
| 35-000-188                  | G-II    |                       | X                           | 6   |
| 35-000-188                  | SPM-200 |                       | X                           | 6   |



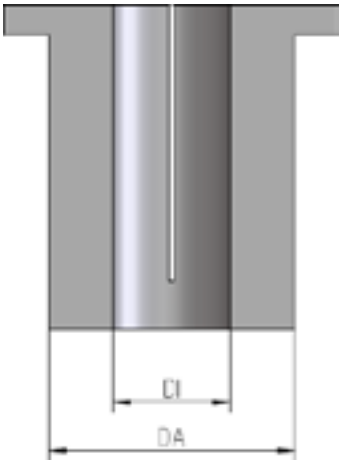
Hydro expansion chuck 25 x 42

| Part No.<br>DIN 912 M6 x 20 | Machine | Tool spindle<br>above | Work piece<br>spindle below | Qty |
|-----------------------------|---------|-----------------------|-----------------------------|-----|
| 35-000-181                  | SPM-125 | X                     |                             | 4   |
| 35-000-181                  | SPS-125 | X                     | X                           | 4   |
| 35-000-181                  | SPM-150 | X                     |                             | 4   |
| 35-000-181                  | SPS-150 | X                     | X                           | 4   |



# BUSHING FOR HYDRO EXPANSION CHUCK

| Part No.   | DA | DI |
|------------|----|----|
| 60-000-275 | 12 | 6  |
| 60-000-263 | 25 | 8  |
| 60-000-254 | 25 | 12 |
| 60-055-972 | 25 | 6  |
| 60-056-219 | 40 | 25 |
| 60-052-134 | 40 | 12 |



## MEASURING DEVICES FOR HEIGHT MEASUREMENT

Gauges for measuring heights of tools

SPX-50, SPX-30, SPX-10

Part Number: 02-002-313

| Part No.   | Spare parts                |
|------------|----------------------------|
| 05-003-131 | Receiving part             |
| 05-008-955 | Measuring adapter for 12H7 |
| 05-008-956 | Measuring adapter for 6H7  |
| 05-008-997 | Measuring adapter for M10  |
| 05-015-140 | Adjustment bell DA10 DI7,4 |
| 05-008-999 | Adjustment bess DA15 DI10  |
| 05-014-106 | Setting bolt DA8           |
| 35-901-284 | Screw DIN84 M2,5x8         |
| 65-000-006 | Dial gauge M2/30T D58 30mm |
| 65-000-070 | Measuring table MT50       |



Gauges for measuring heights of tools

SPX-55/60/125/140/150/200

Part Number: 02-001-606

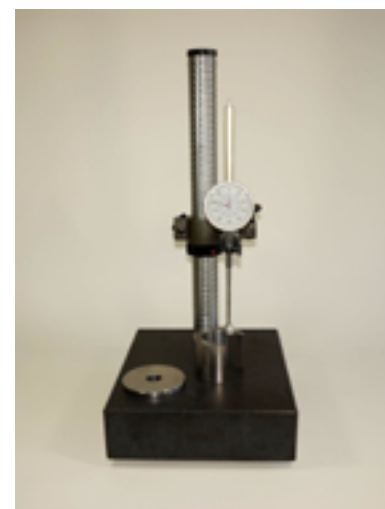
| Part No.   | Spare parts                         |
|------------|-------------------------------------|
| 05-008-089 | Measuring piece                     |
| 05-008-090 | Plate                               |
| 05-008-091 | Measuring bell                      |
| 05-008-092 | Measuring bell for measuring device |
| 05-003-131 | Receiving part                      |
| 35-901-284 | Screw DIN 912 M;2,5x8               |
| 65-000-095 | Measuring table                     |
| 65-000-096 | Gauge GM 800/100T 0,01              |



Gauges for measuring heights of tools GI

Part Number: 02-005-716

| Part No.   | Spare parts            |
|------------|------------------------|
| 05-008-090 | Plate                  |
| 05-008-091 | Measuring bell         |
| 05-016-553 | Measuring piece        |
| 35-901-284 | Screw DIN 912 M2,5x8   |
| 65-000-096 | Gauge GM 800/100T 0,01 |
| 65-000-172 | Measuring table        |



# MEASURING DEVICES FOR HEIGHT MEASUREMENT

| Part No.   | Clock gauge   | Graduation | Travel |
|------------|---------------|------------|--------|
| 65-000-066 | Millimes 1003 | 0,001 mm   | 2,5 mm |



| Part No.   | Clock gauge | Graduation | Travel |
|------------|-------------|------------|--------|
| 65-000-005 | MU 52 ST 8  | 0,01 mm    | 10 mm  |



| Part No.   | Clock gauge | Graduation | Travel |
|------------|-------------|------------|--------|
| 65-000-096 | GM 80/100   | 0,01 mm    | 100 mm |



All technical data subject to change without notice. Verify details with Satisloh.

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