



OptoTech

Product Catalogue

Consumables & Spare Parts

Metrology





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Reference Spheres



60mm Reference Spheres

We offer different types of OptoTech 60mm reference spheres incl. hardcase. Thread M76x2. Standard accuracy: $\lambda/20$.

Art. No. 505-35-0101

Reference Sphere Adaptor Bayonett 2" / M76 x 2. Compatible with existing 60mm systems with Zeiss bayonet.

Description	Art.No.	Front Radii	F#	Accuracy
Reference Sphere 60mm	11200027060061	-17mm	0.6	$\lambda/20$
Reference Sphere 60mm	11200027060071	-23 mm	0.7	$\lambda/20$
Reference Sphere 60mm	11200027050101	-43 mm	1.0	$\lambda/20$
Reference Sphere 60mm	11200027060141	-65 mm	1.4	$\lambda/20$
Reference Sphere 60mm	11200027060201	-105 mm	2.0	$\lambda/20$
Reference Sphere 60mm	11200027060281	-150 mm	2.8	$\lambda/20$
Reference Sphere 60mm	11200027060561	-270 mm	5.6	$\lambda/20$

Reference Spheres



4" Reference Spheres

We offer various 4" reference spheres of the type Zygo TF and Zygo TS with a standard accuracy of $\lambda/20$ resp. $\lambda/10$. Thread M76x2.

Description	Art.No.	Front Radii	F#	Accuracy
Zygo TF 4"	11200023100001	Plano	-	$\lambda/20$
Zygo TS 4"	11200023100071	-38.7 mm	0.65	$\lambda/20$
Zygo TS 4"	11200023100081	-48.2 mm	0.75	$\lambda/20$
Zygo TS 4" HR-C	11200023100082	-48.2 mm	0.75	$\lambda/10$
Zygo TS 4"	11200023100151	-121.2 mm	1.50	$\lambda/20$
Zygo TS 4" HR-C	11200023100152	-121.2 mm	1.50	$\lambda/10$
Zygo TS 4"	11200023100331	-298.0 mm	3.33	$\lambda/20$
Zygo TS 4" HR-C	11200023100332	-298.0 mm	3.33	$\lambda/10$
Zygo TS 4"	11200023100711	-681.70mm	7.10	$\lambda/20$
Zygo TS 4" HR-C	11200023100712	-681.7 mm	7.10	$\lambda/10$
Zygo TS 4"	11200023101071	-1039.2 mm	10.7	$\lambda/20$
Zygo TS 4" HR-C	11200023101072	-1039.2 mm	10.7	$\lambda/10$

Other Zygo reference spheres with higher accuracy available on request

Reference Spheres



6" Reference Spheres

We offer various 6" Zygo reference spheres with a standard accuracy of $\lambda/20$ resp. $\lambda/10$. Thread M76x2.

Description	Art.No.	Front Radii	F#	Accuracy
Zygo TF 6"	11200023150001	Plano	-	$\lambda/20$
Zygo TS 6"	11200023150080	-80.0 mm	0.8	$\lambda/10$
Zygo TS 6"	11200023150081	-80.0 mm	0.8	$\lambda/20$
Zygo TS 6"	11200023150110	-123.3 mm	1.1	$\lambda/10$
Zygo TS 6"	11200023150111	-123.3 mm	1.1	$\lambda/20$
Zygo TS 6"	11200023150220	-290.0 mm	2.2	$\lambda/10$
Zygo TS 6"	11200023150221	-290.0 mm	2.2	$\lambda/20$
Zygo TS 6"	11200023150350	-475.8 mm	3.5	$\lambda/10$
Zygo TS 6"	11200023150351	-475.8 mm	3.5	$\lambda/20$
Zygo TS 6"	11200023150540	-776.4 mm	5.4	$\lambda/10$
Zygo TS 6"	11200023150541	-776.4 mm	5.4	$\lambda/20$
Zygo TS 6"	11200023150720	-1045.0 mm	7.2	$\lambda/10$
Zygo TS 6"	11200023150721	-1045.0 mm	7.2	$\lambda/20$

Converters & Co.



Converter, Converger and Diverger

We offer various converters, convergers and divergers made by Zeiss or Zygo

Converter

Description	Art.No.	Inlet	Outlet	Design
Zygo AC 4"-6"	11200023150000	4"	6"	vertical
Zygo AC 4"-6"	O500-80-031	4"	6"	horizontal

Converger and Diverger

Description	Art.No.	Front Radii	F#	Accuracy
Zygo Converger	11200023101501	-1500	15.0	$\lambda/10$
Zygo Diverger	11200023101502	1500	15.0	$\lambda/10$
Zygo Converger	11200023102501	-2500	25.0	$\lambda/10$
Zygo Diverger	11200023102502	2500	25.0	$\lambda/10$
Zygo Converger	11200023103501	-3500	35.0	$\lambda/10$
Zygo Diverger	11200023103502	3500	35.0	$\lambda/10$
Zygo Converger	11200023104501	-4500	45.0	$\lambda/10$
Zygo Diverger	11200023104502	4500	45.0	$\lambda/10$
Zygo Converger	11200023108001	-8000	80.0	$\lambda/10$
Zygo Diverger	11200023108002	8000	80.0	$\lambda/10$

Adapters



Reference Sphere Adapters

Art.No.: 500-90-093

Adapter 2" measuring beam to 1/2" reference spheres

Art.No.: 500-80-0129

Adapter 4" measuring beam to 6" reference spheres

Art.No.: 500-80-0033

Adapter 6" measuring beam to 4" reference spheres

Art.No.: 505-35-0101

Adapter Reference Sphere Bayonett 2" M76 x 2

Extension Tubes



Reference Sphere Extensions

Art.No.: 505-35-0001 2" Extension (Extension 60 mm)

Extension tube with Zygo bayonet connections for a higher mounting of a 4" Fizeau reference sphere.

Total height 80 mm; effective extension 60 mm

Art.No.: 514-90-0002 4" Extension (Extension 62 mm)

Extension tube with Zygo bayonet connections for a higher mounting of a 4" Fizeau reference sphere.

Total height 82 mm; effective extension 62 mm

Art.No.: 515-80-0015 4" Extension (Extension 186 mm)

Extension tube with Zygo bayonet connections for a higher mounting of a 4" Fizeau reference sphere. Useful for close mounting of computer generated hologramms (asphere measurement) next to the reference sphere.

Total height 206 mm; effective extension 186 mm

Art.No.: 515-80-0016 6" Extension (Extension 186 mm)

Extension tube with Zygo bayonet connections for a higher mounting of a 6" Fizeau reference sphere.

Absorber Foils



Absorber Foils for Highly Reflective Optics (Horizontal oriented)

Art.No.: 11200023001000 Absorber foil 4" incl. holder

Art.No.: 11200023001500 Absorber foil 6" incl. holder

For a better measurability of highly reflective surfaces.
For best possible contrast of the fringes.



Spacer 4" for Absorber Foil (Vertical oriented)

Art.No.: 514-95-001

Spacer to fit the 4" absorber foil to 4" Zygo Fizeau reference spheres on vertically oriented OptoTech Interferometers. Has to be combined with absorber foil **Art.No. 11200023001000**.

Reference Optics



Plano and Spherical Reference Optics

We deliver various plano and spherical reference optics made by Zygo for measuring beam reflection in transmission of optical components.

Including transportation case.

Description	Art.No.	Aperture	Reflection	Accuracy
Zygo RF 4"	20100013100000	Plano	4%	$\lambda/20$
Zygo RF 4"	20100013100001	Plano	90%	$\lambda/20$
Zygo RF 6"	20100013150000	Plano	4%	$\lambda/20$
Zygo RF 6"	20100013150001	Plano	90%	$\lambda/20$
Zygo RS	20100013025050	25 mm	4%	$\lambda/10$
Zygo RS	20100013025051	25 mm	40%	$\lambda/10$
Zygo RS	20100013037070	37 mm	4%	$\lambda/20$
Zygo RS	20100013037071	37 mm	40%	$\lambda/20$

Lens Adapters for Vertical Interferometers

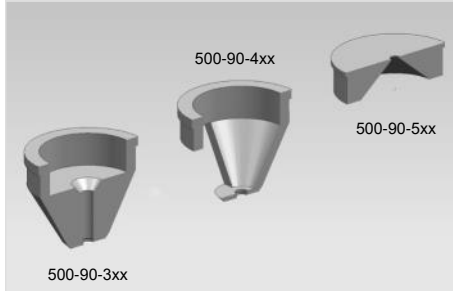


Set of Adapters

We offer 5 different sets of adapters for our OptoTech interferometers. Including case.

Art.-No.	Curvature	Range	Increments	Suitable for
500-35-0003 500-35-0013	Convex <i>Concave</i>	2 mm to 8 mm	0.1 mm Steps Ø2.0 to 4.0 mm 0.2 mm Steps Ø4.0 to 8.0 mm	OWI 12.5 Micro, OWI Compact 1/2" and 2", OWI 50 HP
500-35-0004 500-35-0014	Convex <i>Concave</i>	8,5 mm to 20 mm	0.5 mm Steps	OWI Compact 1/2" and 2", OWI 50 HP
500-35-0005 500-35-0015	Convex <i>Concave</i>	20 mm to 40 mm	1 mm Steps Ø20 to 30 mm 2 mm Steps Ø32 to 40 mm	OWI 4" LC, OWI 100 ECO (L), OWI 150 XT
500-35-0006 500-35-0016	Convex <i>Concave</i>	42 mm to 60 mm	2 mm Steps	OWI 4" LC, OWI 100 ECO (L), OWI 150 XT
500-35-0007 500-35-0017	Convex <i>Concave</i>	62 mm to 80 mm	2 mm Steps	OWI 4" LC, OWI 100 ECO (L), OWI 150 XT
500-35-0008 500-35-0018	Convex <i>Concave</i>	85 mm to 200 mm	5 mm Steps	OWI 150 XT

Lens Adapters for Vertical Interferometers



Lens Adapters

Art.No.: 500-90-3xx Various Lens Adapters for Rod Lenses (Ø 0.5 to 6.0 mm)

Art.No.: 500-90-4xx Various Lens Adapters for Micro-Lenses cx and cc (Ø 0.5 to 6.0 mm)

Art.No.: 500-90-5xx Various Lens Adapters for cx- and cc-Lenses Ø ≤ 80 mm (Ø 2 to 80 mm)

Art.No.: 500-90-6xx Various Lens Adapters for cx- and cc-Lenses Ø > 80 mm (Ø 82.0 to 100.0 mm)

Baffle Rings for Lens Adapters

Art.-No.	Outside-Diameter Baffle Ring	Inside-Diameter Baffle Ring
500-90-095	120mm	85mm
500-90-060	120mm	68mm
500-90-094	120mm	30mm
500-90-100	100mm	85mm
500-90-099	100mm	68mm
500-90-096	85mm	56mm
500-90-071	85mm	50mm
500-90-020	68mm	56mm
500-90-016	68mm	50mm
500-90-031	68mm	25mm
500-90-019	50mm	36mm
500-90-018	50mm	30mm
500-90-017	50mm	25mm
501-90-032	30mm	25mm
500-90-065	Arm for ball bearing	

Lens Adapters for Vertical Interferometers



Adjustable Lens Holders

Adjustable lens holder for various lens diameters.

Version with three independently adjustable support arms; thus also suitable for measuring of rectangular shapes (e.g. prisms).

For vertical interferometers only.



Art.No.	Suitable for	Diameter	Flange Diameter
505-90-0004	2"	< 50 mm	68 mm
514-90-0001	4"	< 100 mm	120 mm
515-90-0100	4"	30 mm to 90mm	120 mm
515-90-0002	4"	< 100 mm	120 mm
515-90-0102	4"	30 mm to 110 mm	120 mm
515-90-0101	6"	90 mm to 150 mm	120 mm
515-90-0004	6"	5mm to 150mm	200 mm



Adjustable Lens Holder 6"

Art.No.: 515-90-0004

Adjustable lens holder for various lens diameters from 5 to 150 mm. For OptoTech vertical Interferometers with 6" X/Y-Table, e.g. OWI 150 XT.

Lens Adapters for Vertical Interferometers



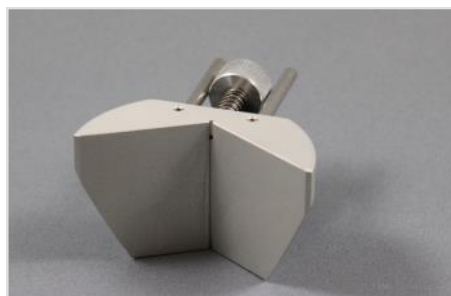
Art.No.: 500-90-097

Measuring Arm $\varnothing$ 50 mm (4")



Art.No.: 501-90-021

Measuring arm (short) for OWI Compact 1/2" and 2"



Art.No.: 501-90-0005

Adjustable Prism for Multi Block on OWI Compact

Lens Adapters for Horizontal Interferometers



Lens Holder

Adjustable 3 point lens holder in 2 versions:

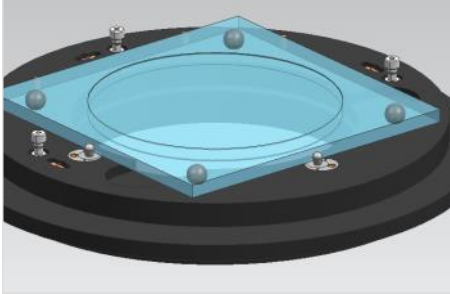
Art.No.: 20090010010010

5 mm < $\varnothing$ < 100 mm 4" Zygo Bajonett connection

Art.No.: 20090010010020

5 mm < $\varnothing$ < 200 mm 6" Zygo Bajonett connection

CGH Holder



Vertical Holder (OWI 150 XT)

Art.No.: 515-15-0020

Extension unit for OWI 150 XT to accept CGH (Computer Generated Hologram) of Jenoptik or Diffraction International



Horizontal Holder (OWI 150 ASPH)

Art.No.: 517-15-0002

3 Axis Positioning Unit for OWI 150 ASPH Interferometer for mounting Jenoptik Computer Generated Holograms. Z-Axis and Tilt with fine test ball guiding. Holding of diffractive element by magnet. Easy attachment and detachment of CGH.

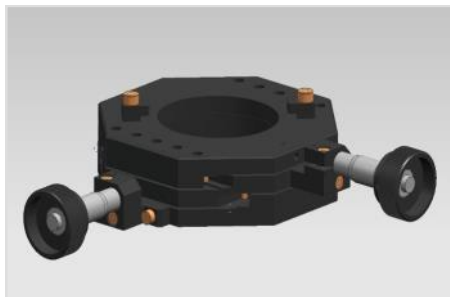
Lens Positioning



X/Y Table 1/2" HP

Art.No.: 11200030000010

- X/Y table for lens positioning on OWI 12.5 Micro and OWI Compact (1/2" & 2").
- Including cross roller guides and precision screws



X/Y Table 2" HP

Art.No.: 11200030000050

- X/Y table for lens positioning on OWI 50 HP
- Including cross roller guides and precision screws
- Free diameter 68mm, designed for reception of OptoTech lens holder



X/Y Table 2" LC for OWI Compact 1/2" inverse and OWI 50 HP

Art.No.: 505-15-0001

- X/Y table with slide bearings for 2" Interferometers (e.g. OWI Compact 1/2" Inverse, OWI 50 HP, etc.)
- Travel X/Y table: +/- 2.5 mm
- Adjustment via micrometer screws:
Acclivity 0.5 mm/rotation.

Lens Positioning



X/Y Table 4" LC for OWI 4" LC and OWI 100 ECO

Art.No.: 514-99-0001

- X/Y table with slide bearings for 4" Interferometers (e.g. OWI 4" LC, OWI 100 ECO, etc.)
- Travel X/Y table: +/- 7 mm
- Adjustment via micrometer screws:
- Acclivity 0.5 mm/rotation.



X/Y Table 6" HP

Art.No.: 11200030000060

- X/Y-table for lens positioning on OWI 100 ECO, 150 HP, OWI 150 XT.
- Including micro-gauges for X- and Y-Axis
- Free diameter 220 mm, designed for reception of OptoTech lens holder



3 Jaw Chucks

3 jaw chucks for inverse interferometers. Flexible test reception incl. insert for measuring table.

Art.No.: 514-90-0007	Flange 120 mm with Top Jaws (Clamping range Ø 10 mm to 100 mm)
Art.No.: 515-90-0200	HD 25 with Top Jaws (Clamping range Ø 10 mm to 100 mm)
Art.No.: 515-90-0201	HD 25 without Top Jaws
Art.No.: 505-35-0103	3-Jaw-Chuck with screw mount M10 . Additional for positioning unit 505-35-0102 (Clamping Range Ø 0 mm to 54 mm)
Art.No.: 505-35-0104	3-Jaw-Chuck with adaptor for cross-slide suitable for OWI 50 HP invers and OWI 60 HP invers (Clamping range Ø 0 mm to 170 mm)
Art.No.: 505-35-0105	3-Jaw-Chuck with adaptor for cross-slide suitable for OWI 50 HP invers and OWI 60 HP invers (Clamping range Ø 0 mm to 54 mm)

Lens Positioning



Multiple block swiveling unit with Three Jaw Chuck

Art.No.: 505-15-0007

- Swiveling unit for the support of multiple blocks and single lenses (up to Ø 30mm)
- Miniature 3 jaw chuck
- Max. swivel angle 80°. Height of the support plate of the multiple block (push up against radii center) 16mm. Shorter support plate because of the adapter. Longer support plate on request.



Swiveling Unit for OWI 50 HP Inverse and OWI 1/2 inch Compact Inverse

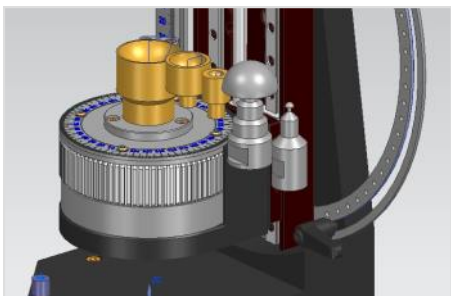
Art.No.: 505-15-0011

Scope of delivery without displayed cross-table



Swiveling Unit for OWI 100 Eco Inverse

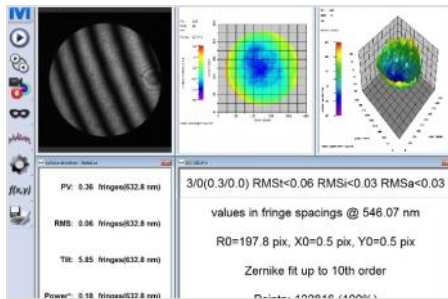
Art.No.: 514-15-0003



Swiveling Unit for OWI 60 HP Invers

Art.No.: 505-35-0102

Software



Phase Shifting Fringe Analysis

Software µShape OWI

Art.No.: 514-86-0001 (for 4 Inch Devices)

Art.No.: 505-86-0001 (for 2 Inch and 60mm Devices)

Also available as Static Fringe Analysis Software without Phase Shifter.

Plano Measurements



Retrofitting Set Tilting Table 68 mm (2")

Art.No.: 505-15-0008

Retrofitting set tilting table 68 mm for OWI 50 HP with 2 additional degrees of freedom for testing plano surfaces.

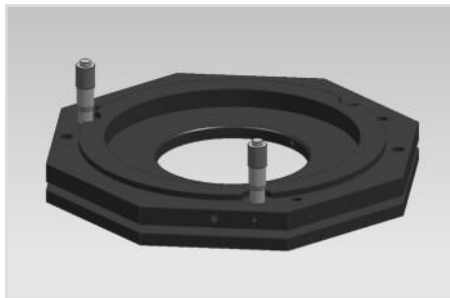
Can be adapted to OWI X/Y tables 68 mm for plano measurements with 5 degrees of freedom. Wobbling of the upper plate adjustable via 2 measuring screws.

Lens holder separately available.

Also available:

Retrofitting Set Tilting Table 120 mm (4")

Art.No.: 514-15-0002



Tilting Table 220 mm (6")

Art.No.: 500-15-0015

Tilting table 220 mm for OptoTech Interferometers with 2 additional degrees of freedom for testing plano surfaces.

Can be adapted to OWI X/Y tables 220 mm for plano measurements with 5 degrees of freedom. Wobbling of the upper plate adjustable via 2 measuring screws. Lens holder separately available.

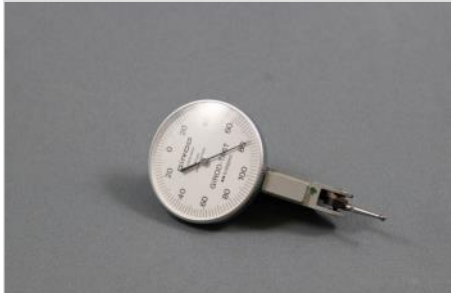


Tilting Table for OWI Compact

Art.No.: 501-15-0004

- 2 axis tilting table.
- Suitable for OWI Compact 1/2" and 2".
- Allows the adjustment of plano surfaces.

Measuring Gauges and Pins



Dial Indicator

OptoTech offers 3 different dial indicators. All indicators have a body diameter of 40 mm, a measuring pin length of 14.5 mm and a clamping shaft $\varnothing$ 8h6.

Description	Art.No.	Measuring Range	Force
Lever dial indicator - 0.01 mm	11010200340010	+/- 0.25 mm	0.1 N
Lever dial indicator - 0.002 mm	11010200345010	+/- 0.1 mm	0.15 N
Lever dial indicator - 0.001 mm	11010204364220	+/- 0.07 mm	0.2 N

Replacement pin for lever dial indicators

Art. No. **11010200010401**

Measuring Gauges and Pins



Mechanical Precision Gauge

Splashproof Mahr Millimess precision gauge available in two different versions:

Art.No.: 11010100001002

Measuring Range: $\pm 25\mu\text{m}$

Scale Classification: $0.5\mu\text{m}$

Art.No.: 11010100001003

Measuring Range: $\pm 50\mu\text{m}$

Scale Classification: $1\mu\text{m}$

Mechanical and digital measuring gauges

We offer mechanical as well as digital measuring gauges for various measuring ranges:

Description	Art.No.	Measuring Range	Scale Diameter	Scale
Mechanical Gauge MU 52/30T	11010100300010	30 mm	52 mm	0.01 mm
Mechanical Gauge MU 58/30	11010100300012	30 mm	58 mm	0.01 mm
Mechanical Gauge MU 52/50T	11010100500010	50 mm	52 mm	0.01 mm
Mechanical Gauge MU 52/80T	11010100800010	80 mm	52 mm	0.01 mm
Mechanical Gauge MU 52/80T counter-clockwise scale	11010100800011	80 mm	52 mm	0.01 mm

Description	Art.No.	Measuring Range	Scale Classification	Accuracy
Digital Gauge Stroke 25 mm	11010100000025	25 mm	$1\mu\text{m}$	$\pm 5\mu\text{m}$
Digital Gauge Stroke 50 mm	11010100000050	50 mm	$1\mu\text{m}$	$\pm 5\mu\text{m}$
Digital Gauge Stroke 100 mm	11010100000100	100 mm	$1\mu\text{m}$	$\pm 5\mu\text{m}$

Measuring Gauges and Pins



Precision Measuring Pin incl. Display

Precision Measuring Pin Stroke 12 mm

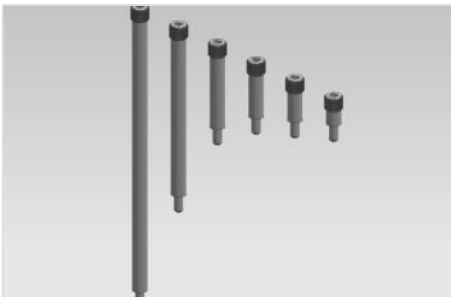
Art.No.: 0501-80-0011

- Scale classification: 0.1 μm
- Accuracy: 0.2 μm
(System accuracy of the measuring pin)
- Delivery includes measuring pin Type MT 12 and measuring display ND280

Precision Measuring Pin Stroke 25 mm

Art.No.: 0501-80-0008

- Scale classification: 0.1 μm
- Accuracy: 0.2 μm
(System accuracy of the measuring pin)
- Delivery includes measuring pin Type MT 12 and measuring display ND280



Set of Measuring Pin Extensions

Art.No.: 751-80-0001

Set of measuring pin extensions for spherometer measuring rings and interferometers, consisting of the following extensions: 10 mm; 15 mm; 20 mm; 30 mm; 60 mm; 100 mm



Measuring Stand for Tools and Cementing Pins with HD 25

Art.No.: 185-80-0002

Measuring System for height measurement of tools and cemented lenses with HD 25 chuck incl. Measuring gauge (stroke 100 mm). Working Range Diameter: up to 300 mm

Cleaning Equipment



Cleaning Cloths

We offer various soft and free from fuzz cleaning cloths that are especially suitable to clean sensitive optical surfaces.



Art.No.: RM-19-3301	Cotton Cleaning Cloth 60 x 40 cm white
Art.No.: RM-21-3301	Cotton Cleaning Cloth low silicone blue
Art.No.: RM-21-3303	Cotton Cleaning Cloth free from silicone white
Art.No.: RM-83-3301	Cleaning Cloth TX 609 23 x 23 cm white
Art.No.: RM-83-3302	Cleaning Cloth TX 409 23 x 23 cm white



Swab

Art.No.: RM-83-3303 Long

Art.No.: RM-83-3304 Short

Polyester swab for cleaning broad surfaces and hard to reach areas

Available in 2 sizes:

- Long: 16.8 cm, TX 761, 100 Pcs.
- Short: 10 cm, TX 758, 100 Pcs.

Cleaning Equipment

**Air Pressure Spray****Art.No.: 1006200550000**

Air pressure spray can be used universally for fast and reliable removal of dust and fuzz from optical components like lenses, mirrors and reference spheres.

Unit: 400ml can

Aceton**Art.No.: RM-42-0001**

- Chemically pure Aceton.
- Unit: 30litre canister

Methanol**Art.No.: RM-42-00012**

- Unit: 21litre canister

Measuring Stand



Adjustable Hydraulic Arm for Dial Indicator without Stand

Art.No.: 11010100803100 *short arm*

- Adjustable hydraulic arm without stand (length: 260 mm)
- Connection Thread: M 8
- Arm length: 260 mm
- Adhesive Force: 800 N

Art.No.: 11010100803101 *long arm*

- Adjustable hydraulic arm without stand (length: 400 mm)
- Connection Thread: M 10
- Arm length: 400 mm
- Adhesive force: 1000 N

Adjustable Hydraulic Arm for Dial Indicator with Stand

Art.No.: 11010105010005 *short arm*

Adjustable hydraulic arm with central clamping and magnetic base (length: 300 mm)

Art.No.: 11010105015500 *long arm*

Adjustable hydraulic arm with central clamping and magnetic base (length: 550 mm)

Fine Measuring Table



Fine Measuring Table

Art.No.: 11010010010050

For checking the flatness and parallelism of horizontal surfaces on small test pieces.

Base material is made from natural hard rock, black. The top of the measuring table is finely ground and lapped to accuracy level 00 according to DIN 876, flatness within 0.0026 mm. The vertical column is hard chrome-plated and finely ground. With thread and adjusting ring for height adjustment.

Height: 400mm. The particularly stable cross piece is height-adjustable and can be pivoted radially.

The cross arm can also be axially and radially aligned. With fine adjustment on the precision pointer holder.

The holder has a mounting hole for precision pointers or electronic buttons with a shaft diameter of 8 mm.

A calibration certificate is included. The measurement result can be traced back to national standards.

Factory calibration certificate or DAkkS calibration certificate on request.

Reference Spheres AZP



Standard Set of Reference Spheres for AZP Systems

Art.No.: 541-80-0020

Contains reference spheres for the focal distances:

-35mm, 35mm, 60mm, 120mm, 200mm, 300mm

Dust-free storage in plastic box.

Expansion Sets of Reference Spheres for AZP Systems

For expanding the measuring range of the OptoTech AZP systems we offer 2 different sets of reference spheres for the following focal distances:

Art.Nr.: 541-80-0063

Convex: -150mm, -300mm, -400mm, -500mm, -600mm, -800mm, -1000mm, -1200mm, -1400mm, -1600mm, -1800mm, -2000mm

Art.Nr.: 541-80-0064

Concave: + 300mm, 400mm, 500mm, 600mm, 800mm, 1000mm, 1200mm, 1400mm, 1600mm, 1800mm, 2000mm, 2200mm

Dust-free storage in plastic box.

All reference spheres also available separately



Set of Extension Tubes for AZP Systems

Art.No.: 541-80-0027

Set consisting of 9 tubes for the following extensions:

1mm, 6mm, 8mm, 10mm, 14mm, 18mm, 20mm, 25mm, 30mm

Every extension tube can be combined with the other tubes.

Dust-free storage in plastic box.

Lens Adapter



Set of Delrin Chucks (POM)

Series 1: Art.No.: 712-001-0001

Series 2: Art.No.: 712-001-0002

Series 3: Art.No.: 712-001-0003

Series 4: Art.No.: 712-001-0004

Single delrin chucks on request

Series No.	Art.No.	No. of Delrin Chucks	Diameter (mm)
1	712-001-0001	10	2, 3, 4, 5, 6, 7, 8, 9, 10
2	712-001-0002	10	11, 12, 13, 14, 15, 16, 17, 18, 19, 20
3	712-001-0003	9	22, 25, 28, 31, 34, 37, 40, 45, 50
4	712-001-0004	9	55, 60, 65, 70, 75, 80, 85, 90, 95



Precision centering spindle for AZP 2 HP

Art.No.: 541-16-0008

Hand-operated precision centering spindle (like AZP 1 HP) on AZP 2 HP. Simple mounting via assembly on threaded flange of the vacuum spindle tail of the AZP 2 HP

Consisting of:

Art.No.: 541-16-010 Adaptor

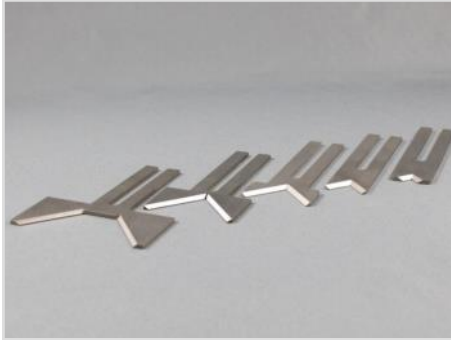
Art.No.: 540-90-0015 Precision Spindle

Also seperately available

Various clamping systems (HD or clamping chuck) available:

Art.No.: 540-90-0051	HD 40 Interface
Art.No.: 540-90-0052	HD 25 Interface
Art.No.: 540-90-0055	HD 12 Interface
Art.No.: 540-90-0058	NANN-Collet Chuck $\varnothing < 7$ mm

Lens Guides



V-Guides for Lenses

Art.No.: 540-15-007

For lenses $3\text{mm} < \varnothing < 10\text{mm}$

Art.No.: 540-15-008

For lenses $8\text{mm} < \varnothing < 23\text{mm}$

Art.No.: 540-15-009

For lenses $20\text{mm} < \varnothing < 40\text{mm}$

Art.No.: 540-15-067

For lenses $20\text{mm} < \varnothing < 56\text{mm}$

Art.No.: 540-15-068

For lenses $50\text{mm} < \varnothing < 84\text{mm}$

Art.No.: 540-15-090

For lenses $85\text{mm} < \varnothing < 110\text{mm}$



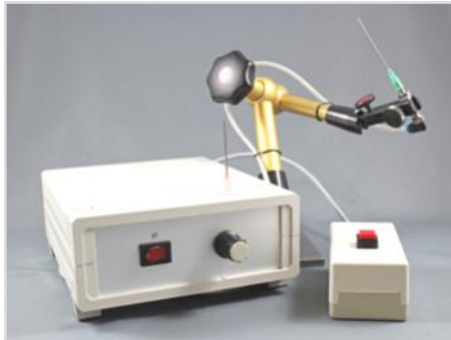
V-Guides for Rod-Lenses

Hard metal V-guides for lenses

Size Chart:

$\varnothing$	Height 5 mm	Height 8 mm	Height 12 mm
$1 < \varnothing < 2$	541-15-0005	541-15-0006	541-15-0007
$2 < \varnothing < 4$	541-15-0014	541-15-0015	541-15-0016
$4 < \varnothing < 7$	541-15-0011	541-15-0012	541-15-0013

Lens Adjustment



Air Pressure Manipulator 110/240V

Art.No.: 540-25-0011

Air pressure manipulator for adjusting lenses with a frequency controlled air jet beam including accessories (Push-Button, Controller, adjustable hydraulic arm, air nozzle, etc.)

Frequency: 110-240 V

Also available separately:

Art.No.: 03070400030080 Manipulator nozzle Ø 0,8 mm

Art.No.: 03070400030120 Manipulator nozzle Ø 1,2 mm

Gluing & Cementing



UV-Cement Vitralit & UV-Adhesive Noa 61

OptoTech offers various UV-Adhesives for different bond types and curing processes.

Storage stability: Shelf life 6 Months (at 7°C - 25°C)

Name	Art.No.	Quantity	Bond Type	Curing Process
UV-Cement Vitralit 6128	KK-63-3201	100 ml	Glass-Stainless Steel	UV, thermal, chemical
UV-Cement Vitralit 7256	KK-63-3202	100 ml	Glass-Glass	UV
UV-Cement Vitralit 6401	KK-63-3203	100 ml	Glass-Glass	UV
UV-Cement Vitralit 6127	KK-63-3204	100 ml	Glass-Different Materials	UV, thermal, chemical
UV-Adhesive Noa 61	KK-77-3300	100 ml	Glass-Glass	UV

Gluing & Cementing



Dispenser for UV-Glue 110/220V

Art.No.: 03080300000013

Control Unit with foot switch

Art.No.: 03080300000014

Starter-Set with accessories for UV-Dispenser (transparent cartridges with different fluid reservoirs)

Art.No.: 03080300000015

Starter-Set with accessories for UV-Dispenser (black cartridges with different fluid reservoirs)



UV-Light Source

Art.No.: 541-80-0014

High-Performance UV Light Source.

Light Spectra:

UVB 280 - 320nm 300 mW

UVA 320 - 400nm 1300 mW

VIS 400 - 500nm 1700 mW

Lamp: 200W (Lamp lifetime: approx. 1500 - 2000 h)

Power Supply: 110-240V (+/-10%) 50/60Hz, self adjusting

Dimensions: 340x310x160mm (WxDxH)

Stepper Motor - High-Performance Shutter: 0.2-999.9 Sec.

Including: Foot switch, Flexible light tube Ø 8x1500 mm x 1500mm



Compact UV-Light Source

Art.No.: 541-80-0060

Light spectrum: UVA 370nm 1000 mW

Intensity: 2000mW/cm²

Power supply: 110-240V (+/-10%) 50/60Hz, self configuring.

Compliant with CE and EMI FCC Class B

Dimensions: 50x200x150mm (wxdxh)

Weight: 1,5 Kg

Accessories (inclusive):

- Foot Switch with cable and plug

- Adjustable-Hydraulic-Arm

Gluing & Cementing



UV-Safety Goggles

Art.No.: 05660055665030

- UV-Safety Goggles conform to DIN EN 166 F
- 100% UV-Protection due to UV 400 material
- Highest wearing comfort due to two component earpiece



Synthetic Resin Cement

Art.No.: KK-17-3201

Synthetic resin cement for blocking of lenses to spot blocks or similar applications. Also applicable to block lenses on runners, e.g. for aspheric production.

Colour: Yellow



Hot Air Gun

Art.No.: 541-81-0002 (for small lenses)

- Hot air gun for blocking of workpieces to exchangeable spindles or runners.
- Small nozzle for small surfaces
- Includes adaption accessories for the AZP 2 HP



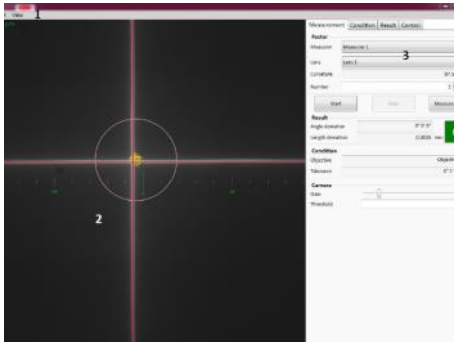
Hot Air Gun 220V

Art.No.: 541-35-0002 (for large lenses)

Hot air gun for blocking of workpieces to exchangeable spindles or runners.

- Power: 2200W
- Digital infinitely variable temperature 80 ° C-630 ° C
- Three-stage blower 150 - 500 l / min
- Including transport case

Software



Centering Error Software

Art.No.: 541-86-0201

Retrofitting centering error software for AZP 200 HP

→ Click here to learn more about our software [link](#)

Software options for automatic centering error detection of the basis machine:

- Automatic calculation of the centering error
- Tolerance threshold function with distinction GOOD / BAD
- Significant increase in measurement resolution (approx. 10x)

Art.No.: 541-92-0015

Conversion kit centering error software for older AZPs.

Including AKF 300, digital camera and PC workstation.

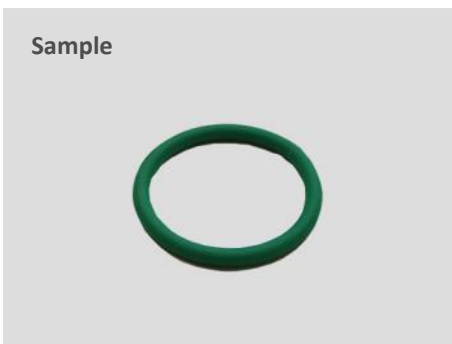
Conversion Kits & Consumables



Motor for Lens Drive AZP 2 HP

The DC drive motors for our AZP 2 HP are available in various drive ratios:

Art.No.: 541-35-0003	<i>i = 9:1</i>
Art.No.: 541-35-0004	<i>i = 81:1</i>
Art.No.: 541-35-0005	<i>i = 189:1 (Standard)</i>
Art.No.: 541-35-0006	<i>i = 365:1</i>



Sample

Drive Belt AZP 1/2/4 HP

Art.No.: 541-99-001

Drive Belt OWI

Art.No.: 500-99-001



8" LCD Monitor incl. Holder

Art.No.: 501-99-0003

- 8" LCD Monitor incl. Holder.
- BNC-Connection for analogue video signals
- Replacement for 9" CRT-displays



LED Cold Light Source incl. Adapter for AZP Systems

Art.No.: 02083001112030 + 541-80-068

Energy and space saving cold light source for AZP Systems including adapter for direct installation onto the AKF.

Conversion Kits & Consumables



LED Light Source

Art.No.: 541-92-0018

Replacement of kollimatorillumination with halogen bulb and glass-/ fluid-based lightguide at OptoTech AZP

Lamp Module

Art.No.: 02083100000020

Lamp module Lumatec 200 Watt DC for UV-light source

Liquid Fiber-Optic Light Guide

Art.No.: 02083108001500

Liquid fiber-optic light guide for Lumatec Superlite SUV-DC-P Ø 8mm x 1500mm

Glass Fiber-Optic Light Guide

Art.No.: 541-92-0016

Glass fiber-optic light guide 6 x 2000 mm for auto collimator lighting



LED-Magnifier-Lamp for OptoTech AZP systems

Art.No.: 541-35-0007

reduces operator fatigue, improves operator accuracy

Stand-Alone-Units



Blocking Unit LC

Art.No.: 540-90-0016 Basic Unit

For high precision blocking of lenses in asphere production and lens production with integrated edging. Including stand and Millimess measuring gauge.

Range of application:

Serial cementing (with V-edge) up to $\varnothing$ 200 mm

Single cementing up to $\varnothing$ 250 mm

Working principle: The lens will be layed down on the holder, adjusted according to the measuring gauge. In the next step the lens holder will be heated and blocked by a seperate heating source.



V-Edges on option:

Art.No.: 540-12-044	0 mm < $\varnothing$ < 60 mm
Art.No.: 540-12-045	60 mm < $\varnothing$ < 130 mm
Art.No.: 540-12-046	130 mm < $\varnothing$ < 200 mm

Centering spindles on option:

Art.No.: 540-45-0007	Centering Spindle with HD 40
Art.No.: 540-45-0009	Centering Spindle with HD 25
Art.No.: 540-45-0011	Centering Spindle with HD 12



Hot air guns on option (See page 6):

Art.No.: 541-81-0002	(for small surfaces)
Art.No.: 541-35-0002	(for bigger surfaces)

Center Thickness Measuring Unit



Center Thickness Measuring Unit

Art.No.: 605-80-0002

- For lenses up to diameter 200 mm
- Measuring gauge with 0.01mm scale
- Max. measuring stroke 30mm
- Measuring gauge height setting by a precision gear rack
- Exchangeable lens holders



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