KOMEG OPTI-FIX

The modular clamping system for vision measuring systems
Substantiated experience, reliable expertise and future-oriented concepts:
For more than three decades KOMEG has been among the international innovation generators of sophisticated industrial measuring technique, setting important technological milestones and providing groundbreaking customer-specific solutions.

KOMEG implemented for example the first in-line measuring computers for SPC application worldwide as well as the first modular clamping system for reproducible manufacturing - proficiency and knowledge that are being broadened and deepened consistently ever since.

Today KOMEG develops, produces and distributes important components and systems for manufacturing and coordinate measuring technique:

- Probe components for all CMM brands
- Special probes and configurations
- Modular indexable clamping systems for tactile and vision measuring technique
- Handling technique and loading systems
- Air-conditioned cabinets and air-conditioning technique
- Special solutions
- Measuring and quality data systems

55 employees are permanently concerned with the progress of measuring technique on the 3500 m² large state-of-the-art KOMEG Development and Production Center in Völklingen, Saarland - and with the satisfaction of customers from manifold industrial production branches – from machine and automotive engineering as well as electrical and plastics engineering, pharma industry and medical technology.

KOMEG’s strong points are its extraordinary creativity, commitment and local presence - based on a very strong foundation: as a member of Mitutoyo Group, the most versatile supplier of length measuring technique world-wide and internationally leading full-range supplier in this branch of industry, offering more than 5000 products.

KOMEG’s expertise and MITUTOYO’s strength complement one another to enable complex and consistent system solutions - to the benefit and advantage of highly demanding users of measuring technique.

With noticeably more experience. For measurably better results.

KOMEG: We have an idea...
The modular clamping system opti-fix has been developed especially for optical coordinate measuring systems.

"KOMEG opti-fix" guarantees safe part fixture during measurement and consequently, ensures a permanent error-free transfer of measured values. This functional configuration makes also series measurements considerably easier.

In order to reduce disturbing reflections of lighting systems and ambient light to a minimum, all important construction elements are anodized in flat-black or mat finished.
For the mounting of the basic elements onto the CMM table there are different fastening types available.

- direct connection by means of vacuum clamping plates, independent from the existing connecting threads at the sides of the CMM table
- direct connection by means of fastening brackets using the connecting threads at the sides of the CMM table
- direct quick-connection for exchangeable modules by use of the innovative quick exchange system with magnetic retention force

The opti-fix system allows the quick and safe solution of very different tasks using only a few components. In case of measuring methods using reflected as well as transmitted light for measurement of cubic, rotationally symmetrical and especially flat workpieces, the use of opti-fix is a really practical solution.

Furthermore, the spring clips and centering pins of different design which are integrated in the system allow also tactile measuring. KOMEG opti-fix offers the user a large number of possibilities for part fixing, from clamping tweezers for miniature test specimens to precision vice for large parts.
The innovative, newly developed Komeg tool "KOMEG opti-fix round" completes the opti-fix types in the true sense of the word "the wheel comes full circle".

The circular design allows an infinitely variable adjustment of 360° in horizontal level as well as in space and additionally, the "pin fixing" at the sides ensures an user-friendly access to the workpiece.
KOMEG opti-set round has been developed especially for workpieces with an exceptional geometry which could not be placed functionally within the measuring volume by means of the existing standard methods.

The combination of the two system types KOMEG opti-fix and opti-set round allows the user professional part clamping for the whole parts range which needs optical/tactile measuring methods. No more improvisation in the field of optical coordinate measuring systems.
Kit Opti-Set Start

Smallest kit, consisting of 16 parts, for construction of a simple rail system with a length of 250 mm, for fixing parts with a simple part geometry. Fastening brackets, vacuum plates or magnetic holders for mounting the clamping system on the measuring machine, please order separately.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Qty.</th>
<th>Part name</th>
</tr>
</thead>
<tbody>
<tr>
<td>550838</td>
<td>1</td>
<td>Connector clamp, profile rail; L = 100 mm</td>
</tr>
<tr>
<td>550854</td>
<td>1</td>
<td>Clamping profile rail without slot L = 250 mm</td>
</tr>
<tr>
<td>550842</td>
<td>1</td>
<td>Connector with connector grooves</td>
</tr>
<tr>
<td>550853</td>
<td>3</td>
<td>Clamping fixture (with thread M4)</td>
</tr>
<tr>
<td>550891</td>
<td>3</td>
<td>Straight pin for holding-down devices L = 30 mm</td>
</tr>
<tr>
<td>550845</td>
<td>2</td>
<td>Toothed fixture L = 40 mm</td>
</tr>
<tr>
<td>550843</td>
<td>1</td>
<td>Toothed fixture L = 100 mm</td>
</tr>
<tr>
<td>550848</td>
<td>1</td>
<td>Spring clip 30° short</td>
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<tr>
<td>550869</td>
<td>1</td>
<td>Spring clip 30° long</td>
</tr>
<tr>
<td>550870</td>
<td>1</td>
<td>Spring clip 15° short</td>
</tr>
<tr>
<td>551020</td>
<td>1</td>
<td>Allen key 1,5 mm</td>
</tr>
<tr>
<td></td>
<td>16</td>
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</tr>
</tbody>
</table>
Kit Opti-Set Basic

Kit, consisting of 26 parts, for construction of a basic frame with the dimensions of 200 mm x 100 mm, for fixing parts with a simple part geometry. Fastening brackets, vacuum plates or magnetic holders for mounting the clamping system on the measuring machine, please order separately.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Qty.</th>
<th>Part name</th>
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</thead>
<tbody>
<tr>
<td>550838</td>
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<td>Connector clamp, profile rail; L = 100 mm</td>
</tr>
<tr>
<td>550857</td>
<td>2</td>
<td>Clamping profile rail without slot L = 200 mm</td>
</tr>
<tr>
<td>550853</td>
<td>4</td>
<td>Clamping fixture (with thread M4)</td>
</tr>
<tr>
<td>550891</td>
<td>4</td>
<td>Straight pin for holding-down devices L = 30 mm</td>
</tr>
<tr>
<td>550845</td>
<td>4</td>
<td>Toothed fixture L = 40 mm</td>
</tr>
<tr>
<td>550848</td>
<td>2</td>
<td>Spring clip 30° short</td>
</tr>
<tr>
<td>550869</td>
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<td>550870</td>
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<td>550849</td>
<td>2</td>
<td>Spring clip 15° long</td>
</tr>
<tr>
<td>551020</td>
<td>1</td>
<td>Allen key SW 1,5 mm</td>
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<td></td>
<td>26</td>
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</table>
Kit Opti-Set Rotation

Kit, consisting of 23 parts, for construction of a basic frame with the dimensions of 250 mm x 200 mm, for fixing parts with rotationally symmetrical parts with and without centre holes. Fastening brackets, vacuum plates or magnetic holders for mounting the clamping system on the measuring machine, please order separately.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Qty.</th>
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</thead>
<tbody>
<tr>
<td>550854</td>
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<td>Clamping profile rail; L = 250 mm</td>
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<tr>
<td>550859</td>
<td>2</td>
<td>Clamping profile rail; L = 200 mm</td>
</tr>
<tr>
<td>550984</td>
<td>1</td>
<td>Clamping block GG</td>
</tr>
<tr>
<td>550985</td>
<td>2</td>
<td>Clamping block GK</td>
</tr>
<tr>
<td>550879</td>
<td>1</td>
<td>Tailstock with centre</td>
</tr>
<tr>
<td>550986</td>
<td>1</td>
<td>Tailstock with spring-loaded centre</td>
</tr>
<tr>
<td>551018</td>
<td>1</td>
<td>Prism 120° compl. with spring clip</td>
</tr>
<tr>
<td>550972</td>
<td>1</td>
<td>Prismatic eccentric receiver</td>
</tr>
<tr>
<td>550994</td>
<td>2</td>
<td>Centring receive</td>
</tr>
<tr>
<td>550303</td>
<td>2</td>
<td>Receiver pin stepped 100 mm</td>
</tr>
<tr>
<td>551062</td>
<td>2</td>
<td>Shaft 6 x 100 mm</td>
</tr>
<tr>
<td>550842</td>
<td>4</td>
<td>Connector with connector grooves</td>
</tr>
<tr>
<td>551020</td>
<td>1</td>
<td>Allen key 1,5 mm</td>
</tr>
<tr>
<td>551021</td>
<td>1</td>
<td>Allen key 2mm</td>
</tr>
</tbody>
</table>

23
Kit Opti-Set Advanced

Kit, consisting of 51 parts, for construction of a basic frame with the dimensions of 400 mm x 250 mm, for fixing parts with complex part geometry. Fastening brackets, vacuum plates or magnetic holders for mounting the clamping system on the measuring machine, please order separately.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Qty.</th>
<th>Part name</th>
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</thead>
<tbody>
<tr>
<td>550210</td>
<td>2</td>
<td>Clamping profile rail; L = 400 mm</td>
</tr>
<tr>
<td>550836</td>
<td>3</td>
<td>Clamping profile rail; L = 250 mm</td>
</tr>
<tr>
<td>550842</td>
<td>6</td>
<td>Connector with connector grooves</td>
</tr>
<tr>
<td>550838</td>
<td>1</td>
<td>Clamping profile rail; L = 100 mm</td>
</tr>
<tr>
<td>550984</td>
<td>2</td>
<td>Clamping block GG</td>
</tr>
<tr>
<td>550985</td>
<td>1</td>
<td>Clamping block GK</td>
</tr>
<tr>
<td>550213</td>
<td>1</td>
<td>Clamping block GKD, rotatable</td>
</tr>
<tr>
<td>550858</td>
<td>1</td>
<td>Toothed fixture L = 100 mm</td>
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<tr>
<td>550845</td>
<td>2</td>
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</tr>
<tr>
<td>550970</td>
<td>1</td>
<td>Eccentric receiver</td>
</tr>
<tr>
<td>550971</td>
<td>1</td>
<td>Prismatic receiver / locator</td>
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<tr>
<td>550304</td>
<td>1</td>
<td>Receiver plane</td>
</tr>
<tr>
<td>550301</td>
<td>3</td>
<td>Receiver pin stepped L = 60 mm</td>
</tr>
<tr>
<td>550302</td>
<td>3</td>
<td>Receiver pin stepped L = 80 mm</td>
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<tr>
<td>550303</td>
<td>3</td>
<td>Receiver pin stepped L = 100 mm</td>
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<tr>
<td>550990</td>
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<td>Rectangular receiver pin L = 50 mm</td>
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<tr>
<td>550323</td>
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<td>Rectangular receiver pin L = 25 mm</td>
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<tr>
<td>551012</td>
<td>1</td>
<td>Spring-loaded clamping rod</td>
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<tr>
<td>550978</td>
<td>3</td>
<td>Spring clip with bent tip, short L = 30°</td>
</tr>
<tr>
<td>550979</td>
<td>3</td>
<td>Spring clip with bent tip, short L = 15°</td>
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<td>550980</td>
<td>3</td>
<td>Spring clip with bent tip, long L = 30°</td>
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<td>550981</td>
<td>3</td>
<td>Spring clip with bent tip, long L = 15°</td>
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<tr>
<td>551020</td>
<td>1</td>
<td>Allen key 1,5 mm</td>
</tr>
<tr>
<td>551021</td>
<td>1</td>
<td>Allen key 2,0 mm</td>
</tr>
</tbody>
</table>

Part No.: 551059
Very complex kit, consisting of 115 parts, for construction of a basic frame with the dimensions of 400 mm x 250 mm, for fixing parts with very complex part geometry. The fixing of parts with a rotationally part geometry is also available problem-free.

Fastening brackets, vacuum plates or magnetic holders for mounting the clamping system on the measuring machine, please order separately.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Qty.</th>
<th>Part name</th>
</tr>
</thead>
<tbody>
<tr>
<td>550210</td>
<td>2</td>
<td>Clamping profile rail; L = 400 mm</td>
</tr>
<tr>
<td>550836</td>
<td>4</td>
<td>Clamping profile rail; L = 250 mm</td>
</tr>
<tr>
<td>550842</td>
<td>8</td>
<td>Connector with connector grooves</td>
</tr>
<tr>
<td>550838</td>
<td>2</td>
<td>Clamping profile rail; L = 100 mm</td>
</tr>
<tr>
<td>550985</td>
<td>2</td>
<td>Clamping block GK</td>
</tr>
<tr>
<td>550984</td>
<td>2</td>
<td>Clamping block GG</td>
</tr>
<tr>
<td>550213</td>
<td>2</td>
<td>Clamping block GDK, rotatable</td>
</tr>
<tr>
<td>550165</td>
<td>3</td>
<td>Toothed fixture flat L = 40 mm</td>
</tr>
<tr>
<td>550324</td>
<td>2</td>
<td>Toothed fixture flat L = 100 mm</td>
</tr>
<tr>
<td>550845</td>
<td>1</td>
<td>Toothed fixture flat L = 40 mm</td>
</tr>
<tr>
<td>551013</td>
<td>2</td>
<td>Toothed fixture flat with fine teeth L = 40 mm</td>
</tr>
<tr>
<td>550853</td>
<td>8</td>
<td>Clamping fixture (with thread M4)</td>
</tr>
<tr>
<td>550891</td>
<td>4</td>
<td>Straight pin for holding-down devices L = 30 mm</td>
</tr>
<tr>
<td>551017</td>
<td>4</td>
<td>Straight pin for holding-down devices L = 12 mm</td>
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<tr>
<td>550978</td>
<td>2</td>
<td>Spring clip with bent tip, short 30°</td>
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<tr>
<td>550979</td>
<td>2</td>
<td>Spring clip with bent tip, short 15°</td>
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<td>550980</td>
<td>2</td>
<td>Spring clip with bent tip, long 30°</td>
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<td>550972</td>
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<td>Prismatic eccentric receiver</td>
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<td>550971</td>
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<td>Prismatic receiver / locator</td>
</tr>
<tr>
<td>550304</td>
<td>1</td>
<td>Receiver plane</td>
</tr>
<tr>
<td>550301</td>
<td>3</td>
<td>Receiver pin stepped L = 60 mm</td>
</tr>
<tr>
<td>550302</td>
<td>3</td>
<td>Receiver pin stepped L = 80 mm</td>
</tr>
<tr>
<td>550303</td>
<td>3</td>
<td>Receiver pin stepped L = 100 mm</td>
</tr>
<tr>
<td>550990</td>
<td>3</td>
<td>Rectangular receiver pin L = 50mm</td>
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<tr>
<td>550323</td>
<td>3</td>
<td>Rectangular receiver pin L = 25 mm</td>
</tr>
<tr>
<td>551012</td>
<td>2</td>
<td>Spring-loaded clamping rod</td>
</tr>
<tr>
<td>550879</td>
<td>1</td>
<td>Tailstock with centre</td>
</tr>
<tr>
<td>550986</td>
<td>1</td>
<td>Tailstock with spring-loaded centre</td>
</tr>
<tr>
<td>550839</td>
<td>4</td>
<td>Telescope fixture slider</td>
</tr>
<tr>
<td>550852</td>
<td>4</td>
<td>Telescope fixture end piece</td>
</tr>
<tr>
<td>550887</td>
<td>4</td>
<td>Straight pin 6 x 10 mm</td>
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<td>550888</td>
<td>4</td>
<td>Straight pin 6 x 20 mm</td>
</tr>
<tr>
<td>550889</td>
<td>4</td>
<td>Straight pin 6 x 30 mm</td>
</tr>
<tr>
<td>550890</td>
<td>4</td>
<td>Straight pin 6 x 40 mm</td>
</tr>
<tr>
<td>550840</td>
<td>2</td>
<td>Knuckle joint with dovetail</td>
</tr>
<tr>
<td>550851</td>
<td>2</td>
<td>Swivel receiver with knife edge</td>
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<tr>
<td>550847</td>
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<td>Swivel receiver with straight pin</td>
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<tr>
<td>551018</td>
<td>1</td>
<td>Prism 120° compl. with spring clip</td>
</tr>
<tr>
<td>551014</td>
<td>1</td>
<td>Precision quick chuck 0-4 mm</td>
</tr>
<tr>
<td>551016</td>
<td>1</td>
<td>Adaptor plate M4</td>
</tr>
<tr>
<td>551020</td>
<td>1</td>
<td>Allen key 1.5 mm</td>
</tr>
<tr>
<td>551021</td>
<td>1</td>
<td>Allen key 2 mm</td>
</tr>
</tbody>
</table>

115
Kit Opti-Set Round

Kit consisting of 18 parts, with locating and clamping elements, incl. adaptor plates for adaptation to e.g. basic frame of the rail rail system KOMEG opti-fix. Fastening brackets, vacuum plates or magnetic holders for mounting the clamping system on the measuring machine, please order separately.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Qty.</th>
<th>Part name</th>
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</thead>
<tbody>
<tr>
<td>550983</td>
<td>1</td>
<td>Circular clamping profile</td>
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<tr>
<td>550976</td>
<td>2</td>
<td>Adaptor plate</td>
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<tr>
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<td>1</td>
<td>Clamping block RKD; small, rotatable</td>
</tr>
<tr>
<td>550969</td>
<td>1</td>
<td>Clamping block RK; small</td>
</tr>
<tr>
<td>550968</td>
<td>2</td>
<td>Clamping block RG; large</td>
</tr>
<tr>
<td>550302</td>
<td>3</td>
<td>Receiver pin 80 mm</td>
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<td>Eccentric receiver</td>
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<td>Rectangular receiver pin</td>
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<td>550870</td>
<td>1</td>
<td>Spring clip 15° short</td>
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<tr>
<td>550849</td>
<td>1</td>
<td>Spring clip 15° long</td>
</tr>
<tr>
<td>551012</td>
<td>1</td>
<td>Spring-loaded clamping rod</td>
</tr>
<tr>
<td>551020</td>
<td>1</td>
<td>Allen key 1,5 mm</td>
</tr>
<tr>
<td>551021</td>
<td>1</td>
<td>Allen key 2,0 mm</td>
</tr>
<tr>
<td></td>
<td>18</td>
<td></td>
</tr>
</tbody>
</table>
System components

**Clamping profile rail**
With front connector groove for construction of basic frames

**Part No.:**
- 550 838 $L = 100$ mm
- 550 859 $L = 200$ mm
- 550 835 $L = 240$ mm
- 550 836 $L = 250$ mm
- 550 991 $L = 400$ mm
- 550 920 $L = 500$ mm
Further lengths available on demand

**Clamping profile rail**
For construction of basic frames

**Part No.:**
- 550 861 $L = 100$ mm
- 550 857 $L = 200$ mm
- 550 854 $L = 250$ mm
- 550 210 $L = 400$ mm
- 550 992 $L = 500$ mm
Further lengths available on demand

**Basic circular clamping profile "opti-round"**
As base for receiving elements of "opti-round" type

**Part No.:** 550 983
- $Da = 190$ mm
- $Di = 170$ mm

**Vacuum plate**
For easy mounting of profiles or of the circular clamping profile directly on the glass plate of the measuring device

**Part No.:** 550 975
- 60 x 60 mm

**Fastening bracket**
For mounting of basic profiles or frames on measuring devices

**Part No.:**
- 550 886 20 - 22 mm
- 550 860 24 - 26 mm
- 550 185 33 - 35 mm
- 550 881 36 - 38 mm
- 550 882 39 - 41 mm
- 550 884 44 - 49 mm
- 550 883 62 - 67 mm
- 550 885 82 - 87 mm
Further types available on demand
**Connector with connector grooves**
For rectangular connection of profile rails, respectively for reinforcement of profile connections

**Connector with dovetail connector**
E.g. for front connection to profile rails with connector groove

**Adaptor plate**
As adaptor between the straight profile rails and the basic circular clamping profile "opti-round"

**Magnetic holder Mag 1**
For quick and easy mounting of opti-fix systems by magnets. Easy removing or mounting of complete opti-fix fixtures. Adjustable to the table dimension of the measuring devices.

**T-slot nut M5**
For mounting of opti-fix systems to e.g. projectors or microscopes
System components

Clamping block RK opti-round
For receiving of the system components such as e.g. receiver pin or eccentric receiver

Part No.: 550 969
15 x 15 x 45 mm

Clamping block RG opti-round
For receiving of the system components such as e.g. receiver pin or eccentric receiver

Part No.: 550 968
45 x 15 x 45 mm

Clamping block RKD rotatable opti-round
For receiving of the system components such as e.g. receiver pin or eccentric receiver

Part No.: 550 977
15 x 15 x 45 mm

Telescope fixture slider
In connection with end piece and straight pin ø 6 mm for positioning of e.g. spring clip or location pin

Part No.: 550 839
17 x 8 x 10 mm

Straight pin ø 6 mm
As connecting element for telescope fixture

Part No.:
550 887 L = 10 mm
550 888 L = 20 mm
550 889 L = 30 mm
550 890 L = 40 mm
SYSTEM COMPONENTS

**Clamping block GK**
For receiving of the system components such as e.g. receiver pin or eccentric receiver

**Part No.: 550 985**
15 x 15 x 45 mm

**Clamping block GG**
For receiving of the system components such as e.g. receiver pin or eccentric receiver

**Part No.: 550 984**
45 x 15 x 45 mm

**Clamping block GKD rotatable**
For receiving of the system components such as e.g. receiver pin or eccentric receiver

**Part No.: 550 213**
15 x 15 x 45 mm

**Telescope fixture end piece**
In connection with slider and straight pin ø 6 mm for positioning of e.g. spring clip or location pin

**Part No.: 550 852**
22 x 8 x 10 mm

**Clamping fixture with M4 thread**
For receiving of e.g. spring clip or location pin. Can be also used as locating element

**Part No.: 550 853**
18 x 8 x 10 mm
System components

**Toothed fixture**
With longitudinal connector groove, as well as with M4 receiving thread for e.g. spring clips

**Part No.:**
550 858  100 x 20 x 10 mm

**Toothed fixture 30°/45°**
With M4 receiving thread M4 for e.g. spring clips

**Part No.:**
550 837  100 x 20 x 10 mm

**Toothed fixture flat**
As direct workpiece locating element

**Part No.:**
550 165  L =  40 mm
550 324  L =  100 mm

**Swivel receiver with straight pin**
As workpiece locating element for direct positioning

**Part No.:** 550 847
Receiving ø 6 mm / Locating ø 3 mm
**Knuckle joint with dovetail**
In connection with clamping fixture for the construction of any angle

**Part No.:**
550 840 20 x 8 x 10 mm

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**Toothed fixture**
With longitudinal connector grooves and connector grooves at both ends as well as with M4 receiving thread for e.g. spring clips

**Part No.:**
550 843 100 x 20 x 10 mm

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**Toothed fixture 40**
As direct workpiece locating element

**Part No.:**
550 845 40 x 10 x 10 mm

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**Toothed fixture flat with fine teeth**
As direct workpiece locating element

**Part No.:**
551 013 40 x 20 x 10 mm

---

**Swivel receiver with knife edge**
As workpiece locating element for direct positioning

**Part No.:**
550 851 Receiving ø 6 mm
System components

Spring clip with ball
For clamping of specimens

Eccentric receiver
As height-adjustable workpiece receiving element for mounting in the clamping blocks

Prismatic eccentric receiver
As height-adjustable workpiece receiving element for mounting in the clamping blocks

Prismatic receiver/locator
As workpiece receiving element for mounting in the clamping blocks

Receiver plane
In connection with the clamping blocks, it can be used as direct workpiece locating element for free positioning

Part No.: 550 848 A = 30° L = 19 mm
Part No.: 550 870 A = 15° L = 20 mm
Part No.: 550 869 A = 30° L = 26 mm
Part No.: 550 849 A = 15° L = 37 mm

Part No.: 550 970
L = 100 mm
Ø = 25 mm

Part No.: 550 972
L = 100 mm
Ø = 25 mm

Part No.: 550 971
L = 100 mm
Prism = 120°

Part No.: 550 304
L = 100 mm
25 x 25 mm
Spring clip with bent tip
For clamping of specimens

Receiver pin stepped
In connection with the clamping blocks, it can be used as direct workpiece locating element for free positioning

Straight pin ø 6 mm
With M4 threaded pin, as receiving element for spring clips

Rectangular receiver pin
As receiving element for spring clip

Spring-loaded clamping rod
For pressing specimens against e.g. locating element

Part No.:
550 978 A = 30° L = 19 mm
550 979 A = 15° L = 20 mm
550 980 A = 30° L = 33 mm
550 981 A = 15° L = 37 mm

Part No.:
550 301 L = 60 mm
550 302 L = 80 mm
550 303 L = 100 mm

Part No.:
550 891 L = 30 mm
551 017 L = 12 mm

Part No.:
550 990 L = 50 mm
550 323 L = 25 mm

Part No.:
551 012 ø 6 mm x 93 mm
**System components**

**Precision quick chuck**
With M4 receiving thread, for mounting of e.g. adaptor 551016 or other elements with M4 connecting thread

**Prism 120° compl. with spring clip**
For attachment to e.g. articulated arms or clamping blocks, for receiving of specimens ranging from ø 2 mm to ø 25 mm

**Tailstock with centre**
For receiving of specimens between the tips

**Tailstock centre stepped for tailstock (N° 550879)**
The step at the tip makes length scanning easier, especially in case of the transmitted light method

**Precision vice for inside and outside clamping**
With stepped receiver columns for clamping of most different specimen types

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**Part No.: 551 014**
Clamp. range: 0 - 4 mm
Total length: 47 mm

**Part No.: 551 018**
20 x 25 mm

**Part No.: 550 879**
Tip height: 20 mm
Adjust. range: 16 mm

**Part No.: 550 333**
Tip: ø 6 mm

**Part No.: 551 010**
Clamping range: 10 - 50 mm
Extension of the clamping range can be realized by exchange of the guiding columns
Adaptor plate M4
For receiving of all elements with M4 connecting thread

Part No.: 551 016
25 x 20 x 10 mm

Adaptor plate M6
For receiving of all elements with M6 connecting thread

Part No.: 551 015
25 x 20 x 10 mm

Tailstock with spring-loaded centre
In combination with part No. 550879 for easy and quick receiving of the specimens between the tips

Part No.: 550 986
Tip height: 20 mm
Stroke: 8 mm

Tailstock centre stepped for tailstock with spring-loaded centre (N° 550986)
The step at the tip makes length scanning easier, especially in case of the transmitted light method

Part No.: 550 334
Tip: Ø 10 mm

Ratchet spanner
For receiving of e.g. clamping tweezers, miniature precision chucks and all clamping elements with receiving diameter 6 mm

Part No.: 551 011
Tip height: 15 mm
Circular positioning: 24 x 15°
System components

Clamping tweezers consisting of:
Basic element N° 550993
Exchangeable tips N° 550997
For clamping of small and smallest specimens, receiving of the clamping tweezers in e.g. rotatable and swivel receiver, tailstock, clamping blocks or articulated arm. The use of different exchangeable tips allows extension of the clamping ranges at a reasonable price.

Part No.: 551 019
Clamp. range: 0.5 - 1.5 mm
Clamp. width: 3 mm

Pair of exchangeable tips for clamping tweezers N° 551019
For clamping of small and smallest specimens

Part No.: 551 008
Clamp. range: 0 - 2 mm
Clamp. width: 1 mm

Pair of exchangeable tips for clamping tweezers N° 551019
For clamping of small and smallest specimens

Part No.: 551 009
Clamp. range: 1 - 3 mm
Clamp. width: 1 mm

Pair of exchangeable tweezers for clamping tweezers N° 551019
For clamping of small and smallest specimens

Part No.: 551 007
Clamp. range: 1 - 3 mm
Clamp. width: 3 mm

Pair of exchangeable prismatic tips for clamping tweezers N° 551019
For clamping of small and smallest rotationally symmetrical specimens

Part No.: 550 998
Clamp. range: ø 4 - ø 5 mm
Pair of exchangeable prismatic tips for clamping tweezers N° 551019
For clamping of small and smallest rotationally symmetrical specimens

Part No.: 550 999
Clamp. range: ø 0.5 - ø 2 mm

Pair of exchangeable prismatic tips for clamping tweezers N° 551019
For clamping of small and smallest rotationally symmetrical specimens

Part No.: 551 003
Clamp. range: ø 2 - ø 3 mm

Pair of exchangeable prismatic tips for clamping tweezers N° 551019
For clamping of small and smallest rotationally symmetrical specimens

Part No.: 551 004
Clamp. range: ø 3 - ø 4 mm

Pair of exchangeable prismatic tips for clamping tweezers N° 551019
For clamping of small and smallest rotationally symmetrical specimens

Part No.: 551 005
Clamp. range: ø 4 - ø 5 mm

Pair of exchangeable prismatic tips for clamping tweezers N° 551019
For clamping of small and smallest rotationally symmetrical specimens

Part No.: 551 006
Clamp. range: ø 5 - ø 6 mm
System components

**Hydraulic articulated arm mini**
With M4 connecting thread

- Part No.: 550 703
  - A = 60 mm
  - B = 60 mm
  - C = M6
  - D = M4

**Clamping unit mini**
With M4 connecting thread, for mounting to e.g. articulated arm or M4 adaptor (551016)

- Part No.: 550 707
  - Clamp. range: 0 - 25 mm

**Holder for spring clip**
Receiving block for receiving of e.g. spring clip or other elements with M4 thread

- Part No.: 550 850
  - 42 x 22 x 10 mm

**Clamping knuckle**
For creating of free angles, e.g. with the spring loaded clamping rod 551012

- Part No.: 551 083

**Centering unit**
For centering of parts without center hole

- Part No.: 550 994
We hereby order the following probe elements for delivery to the address mentioned below:

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<th>Description</th>
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Our Order No.: __________________________________________________________________________

Signature: __________________________
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