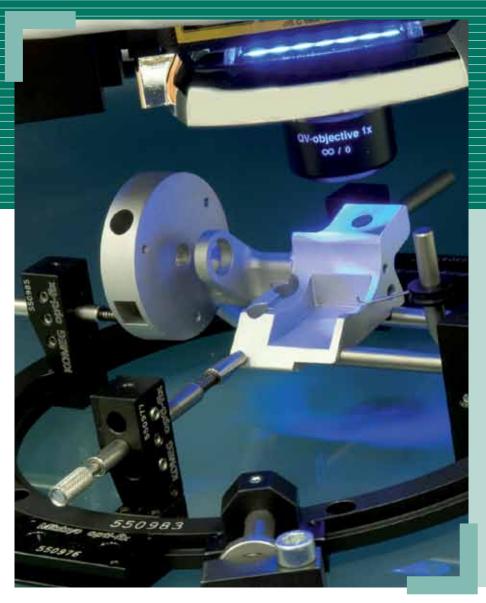
KOMEG OPTI-FIX



PRE 983040

The modular clamping system for vision measuring systems



KOMEG: Noticeably More Experience. Measurably Better Results.

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 modulare 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...





KOMEG

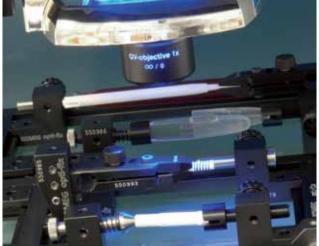


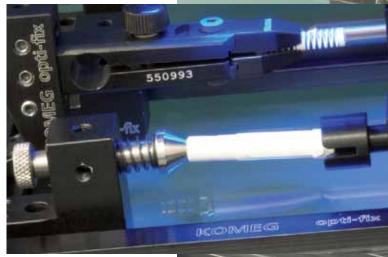
KOMEG opti-fix

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.

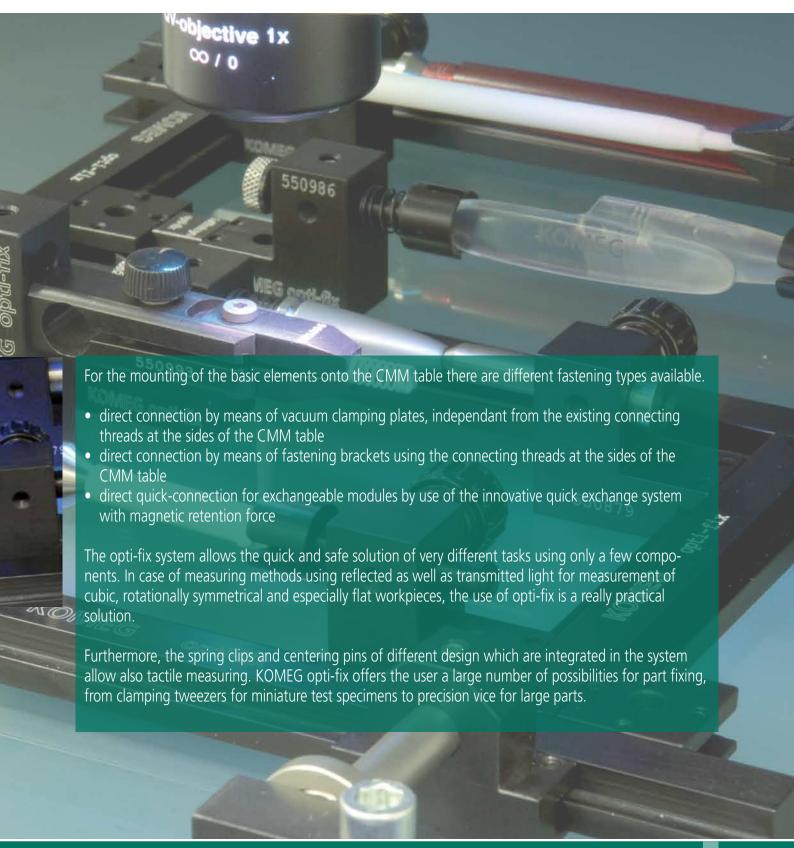
In order to reduce disturbing reflections of lighting systems and ambient light to a minimum, all important construction elements are anodized in flat-black or mat finished.







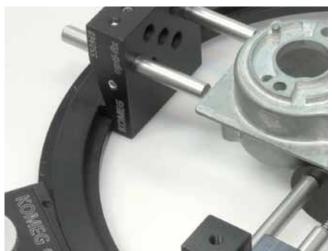
KOMEG OPTI-FIX PTI-FIX



KOMEG opti-fix round

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".

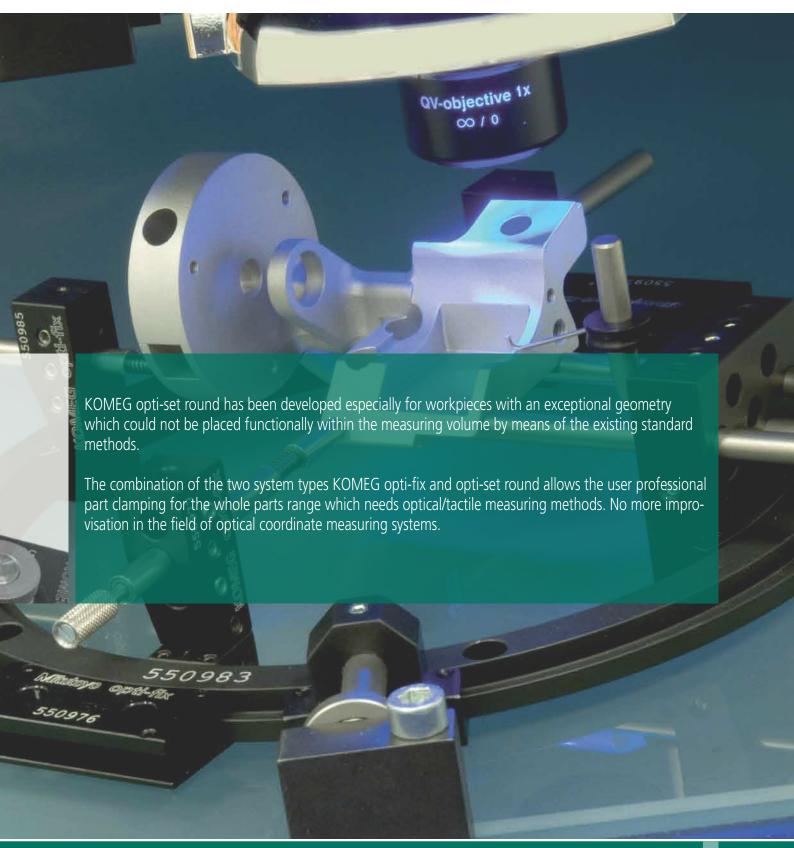
The circular design allows an infinitely variable adjustment of 360° in horizontal level as well as in space and additionally, the "pin fixing" at the sides ensures an user-friendly access to the workpiece.







KOMEG OPTI-FIX ROUND



Kit Opti-Set Start



Part No.: 551056

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.

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





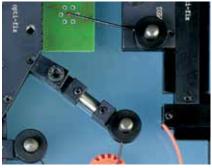
Kit Opti-Set Basic



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.

Part No.	Qty.	Part name
550838	3	Connector clamp. profile rail; L = 100 mm
550857	2	Clamping profile rail without slot L = 200 mm
550853	4	Clamping fixture (with thread M4)
550891	4	Straight pin for holding-down devices L = 30 mm
550845	4	Toothed fixture L = 40 mm
550848	2	Spring clip 30° short
550869	2	Spring clip 30° long
550870	2	Spring clip 15° short
550849	2	Spring clip 15° long
551020	1	Allen key SW 1,5 mm
	26	





Kit Opti-Set Rotation



Part No.: 551058

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.

Part No.	Qty.	Part name
550854	2	Clamping profile rail; L = 250 mm
550859	2	Clamping profile rail; L = 200 mm
550984	1	Clamping block GG
550985	2	Clamping block GK
550879	1	Tailstock with centre
550986	1	Tailstock with spring-loaded centre
551018	1	Prism 120° compl. with spring clip
550972	1	Prismatic eccentric receiver
550994	2	Centring receive
550303	2	Receiver pin stepped 100 mm
551062	2	Shaft 6 x 100 mm
550842	4	Connector with connector grooves
551020	1	Allen key 1,5 mm
551021	1	Allen key 2mm
	23	





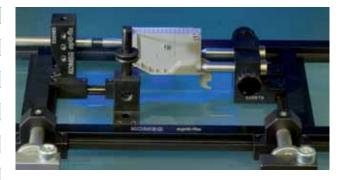
Kit Opti-Set Advanced



Part No.: 551059

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.

Part No.	Qty.	Part name
550210	2	Clamping profile rail; L = 400 mm
550836	3	Clamping profile rail; L = 250 mm
550842	6	Connector with connector grooves
550838	1	Clamping profile rail; L = 100 mm
550984	2	Clamping block GG
550985	1	Clamping block GK
550213	1	Clamping block GKD, rotatable
550858	1	Toothed fixture L = 100 mm
550845	2	Toothed fixture L = 40mm
550970	1	Eccentric receiver
550971	1	Prismatic receiver / locator
550304	1	Receiver plane
550301	3	Receiver pin stepped L = 60 mm
550302	3	Receiver pin stepped L = 80 mm
550303	3	Receiver pin stepped L = 100 mm
550990	3	Rectangular receiver pin L = 50 mm
550323	2	Rectangular receiver pin L = 25 mm
551012	1	Spring-loaded clamping rod
550978	3	Spring clip with bent tip, short L = 30°
550979	3	Spring clip with bent tip, short L = 15°
550980	3	Spring clip with bent tip, long L = 30°
550981	3	Spring clip with bent tip, long L = 15°
551020	1	Allen key 1,5 mm
551021	1	Allen key 2,0 mm
	51	



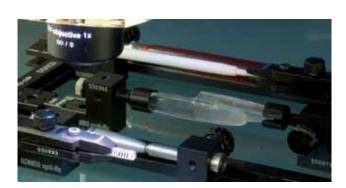
Kit Opti-Set Professional



Part No.: 551060

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 geomtry is also available problem-free.

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



Part No.	Qty.	Part name
550210	2	Clamping profile rail; L = 400 mm
550836	4	Clamping profile rail; L = 250 mm
550842	8	Connector with connector grooves
550838	2	Clamping profile rail; L = 100 mm
550985	2	Clamping block GK
550984	2	Clamping block GG
550213	2	Clamping block GKD, rotatable
550165	3	Toothed fixture flat L = 40 mm
550324	2	Toothed fixture flat L = 100 mm
550845	1	Toothed fixture flat L = 40 mm
551013	2	Toothed fixture flat with fine teeth L = 40 mm
550853	8	Clamping fixture (with thread M4)
550891	4	Straight pin for holding-down devices L = 30 mm
551017	4	Straight pin for holding-down devices L = 12 mm
550978	2	Spring clip with bent tip, short 30°
550979	2	Spring clip with bent tip, short 15°
550980	2	Spring clip with bent tip, long 30°
550981	2	Spring clip with bent tip, long 15°
550970	2	Eccentric receiver
550972	2	Prismatic eccentric receiver
550971	2	Prismatic receiver / locator
550304	1	Receiver plane
550301	3	Receiver pin stepped L = 60 mm
550302	3	Receiver pin stepped L = 80 mm
550303	3	Receiver pin stepped L = 100 mm
550990	3	Rectangular receiver pin L = 50mm
550323	3	Rectangular receiver pin L = 25 mm
551012	2	Spring-loaded clamping rod
550879	1	Tailstock with centre
550986	1	Tailstock with spring-loaded centre
550839	4	Telescope fixture slider
550852	4	Telescope fixture end piece
550887	4	Straight pin 6 x 10 mm
550888	4	Striaght pin 6 x 20 mm
550889	4	Striaght pin 6 x 30 mm
550890	4	Striaght pin 6 x 40 mm
550840	2	Knuckle joint with dovetail
550851	2	Swivel receiver with knife edge
550847	2	Swivel receiver with straight pin
551018	1	Prism 120° compl. with spring clip
551014	1	Precision quick chuck 0-4 mm
551016	1	Adaptor plate M4
551020	1	Allen key 1,5 mm
551021	1	Allen key 2 mm
	115	

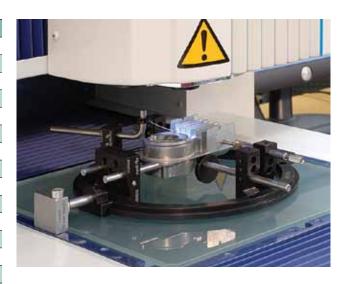


Kit Opti-Set Round



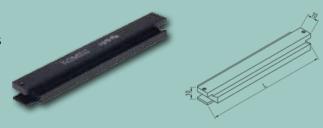
Kit consisting of 18 parts, with locating and clamping elements, incl. adaptor plates for adaptation to e.g. basic frame of the rail rail system KOMEG opti-fix. Fastening brackets, vacuum plates or magnetic holders for mounting the clamping system on the measuring machine, please order separately.

Part No.	Qty.	Part name
550983	1	Circular clamping profile
550976	2	Adaptor plate
550977	1	Clamping block RKD; small, rotatable
550969	1	Clamping block RK; small
550968	2	Clamping block RG; large
550302	3	Receiver pin 80 mm
550970	1	Eccentric receiver
550990	2	Rectangular receiver pin
550870	1	Spring clip 15° short
550849	1	Spring clip 15° long
551012	1	Spring-loaded clamping rod
551020	1	Allen key 1,5 mm
551021	1	Allen key 2,0 mm
	18	



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



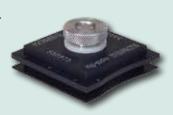


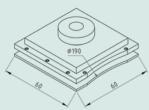
Part No.: 550 983

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



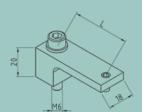


Part No.: 550 975 60 x 60 mm

Fastening bracket

For mounting of basic profiles or frames on measuring devices





Part No.:

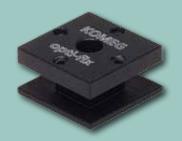
550 886 20 - 22 mm 550 860 24 - 26 mm 550 185 33 - 35 mm 550 881 36 - 38 mm 550 882 39 - 41 mm 550 884 44 - 49 mm 550 883 62 - 67 mm 550 885 82 - 87 mm

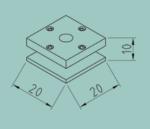
Further types available on demand



Connector with connector grooves

For rectangular connection of profile rails, respectively for reinforcement of profile connections

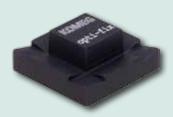


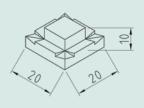


Part No.: 550 842 20 x 20 mm

Connector with dovetail connector

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



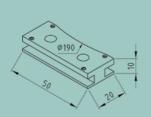


Part No.: 550 841 20 x 20 mm

Adaptor plate

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



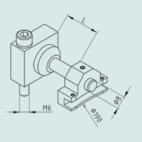


Part No.: 550 976 50 x 20 x 10 mm

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.



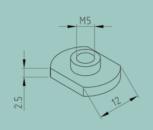


Part No.: 550 989 M6 L = 7.5 - 25 mm Further lengths on demand

T-slot nut M5

For mounting of opti-fix systems to e.g. projectors or microscopes



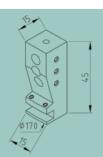


Part No.: 550 963 12 x 2,5 mm

Clamping block RK opti-round

For receiving of the system components such as e.g. receiver pin or eccentric receiver



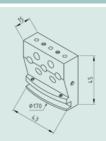


Part No.: 550 969 15 x 15 x 45 mm

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



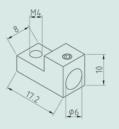


Part No.: 550 977 15 x 15 x 45 mm

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



Clamping block GK

For receiving of the system components such as e.g. receiver pin or eccentric receiver



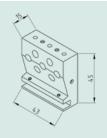


Part No.: 550 985 15 x 15 x 45 mm

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



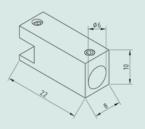


Part No.: 550 213 15 x 15 x 45 mm

Telescope fixture end piece

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



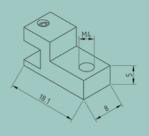


Part No.: 550 852 22 x 8 x 10 mm

Clamping fixture with M4 thread

For receiving of e.g. spring clip or location pin. Can be also used as locating element

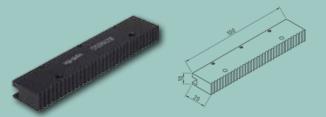




Part No.: 550 853 18 x 8 x 10 mm

Toothed fixture

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



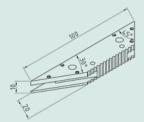
Part No.:

550 858 100 x 20 x 10 mm

Toothed fixture 30°/45°

With M4 receiving thread M4 for e.g. spring clips





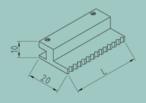
Part No.:

550 837 100 x 20 x 10 mm

Toothed fixture flat

As direct workpiece locating element





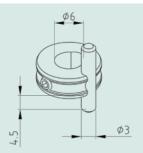
Part No.:

550 165 L = 40 mm **550 324** L = 100 mm

Swivel receiver with straight pin

As workpiece locating element for direct positioning



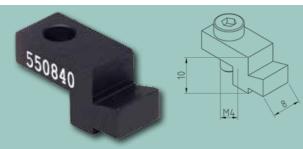


Part No.: 550 847 Receiving Ø 6 mm / Locating Ø 3 mm



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

Toothed fixture

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



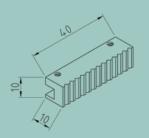


Part No.: 550 843 100 x 20 x 10 mm

Toothed fixture 40

As direct workpiece locating element



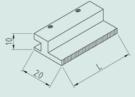


Part No.: 550 845 40 x 10 x 10 mm

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

Spring clip with ball

For clamping of specimens



Part No.:

550 848 A = 30° L = 19 mm **550 870** A = 15° L = 20 mm **550 869** A = 30° L = 26 mm **550 849** A = 15° L = 37 mm

Eccentric receiver

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





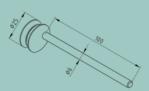
Part No.: 550 970

L = 100 mm $\emptyset = 25 \text{ mm}$

Prismatic eccentric receiver

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





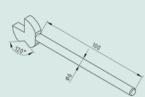
Part No.: 550 972

L = 100 mm $\emptyset = 25 \text{ mm}$

Prismatic receiver/ locator

As workpiece receiving element for mounting in the clamping blocks





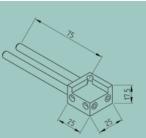
Part No.: 550 971

L = 100 mm Prism = 120°

Receiver plane

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





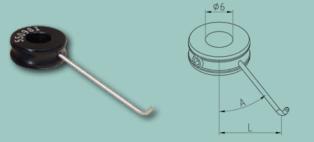
Part No.: 550 304

L = 100 mm/ 25 x 25 mm



Spring clip with bent tip

For clamping of specimens

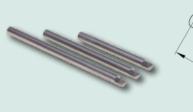


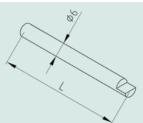
Part No.:

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

Receiver pin stepped

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





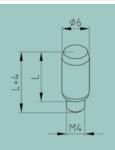
Part No.:

550 301 L = 60 mm **550 302** L = 80 mm **550 303** L = 100 mm

Straight pin ø 6 mm

With M4 threaded pin, as receiving element for spring clips



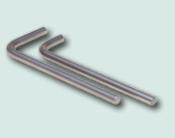


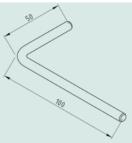
Part No.:

550 891 L = 30 mm **551 017** L = 12 mm

Rectangular receiver pin

As receiving element for spring clip





Part No.:

550 990 L = 50 mm **550 323** L = 25 mm

Spring-loaded clamping rod

For pressing specimens against e.g. locating element



Part No.:

551 012 ø 6 mm x 93 mm

Precision quick chuck

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



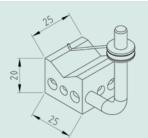


Part No.: 551 014 Clamp. range: 0 - 4 mm Total length: 47 mm

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



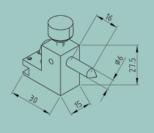


Part No.: 551 018 20 x 25 mm

Tailstock with centre

For receiving of specimens between the tips



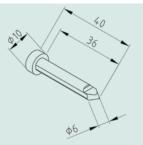


Part No.: 550 879
Tip height: 20 mm
Adjust. range: 16 mm

Tailstock centre stepped for tailstock (N° 550879)

The step at the tip makes length scanning easier, especially in case of the transmitted light method



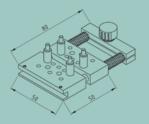


Part No.: 550 333 Tip: Ø 6 mm

Precision vice for inside and outside clamping

With stepped receiver columns for clamping of most different specimen types





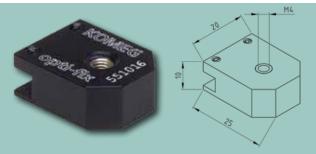
Part No.: 551 010 Clamping range: 10 - 50 mm

Extension of the clamping range can be realized by exchange of the quiding columns



Adaptor plate M4

For receiving of all elements with M4 connecting thread

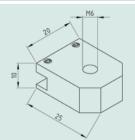


Part No.: 551 016 25 x 20 x 10 mm

Adaptor plate M6

For receiving of all elements with M6 connecting thread



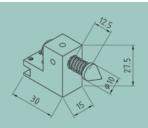


Part No.: 551 015 25 x 20 x 10 mm

Tailstock with spring-loaded centre

In combination with part No. 550879 for easy and quick receiving of the specimens between the tips

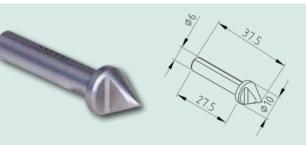




Part No.: 550 986 Tip height: 20 mm Stroke: 8 mm

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

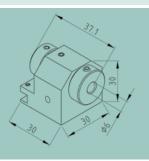


Part No.: 550 334 Tip: ø 10 mm

Ratchet spanner

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

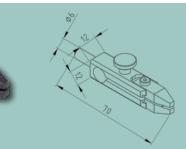




Part No.: 551 011
Tip height: 15 mm
Circular positioning: 24 x 15°

Clamping tweezers consisting of: Basic element N° 550993 Exchangeable tips N° 550997

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.



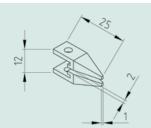
Part No.: 551 019

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



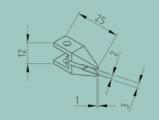


Part No.: 551 008 Clamp. range: 0 - 2 mm Clamp. width: 1 mm

Pair of exchangeable tips for clamping tweezers N° 551019

For clamping of small and smallest specimens



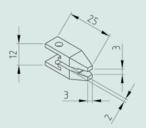


Part No.: 551 009 Clamp. range: 1 - 3 mm Clamp. width: 1 mm

Pair of exchangeable tweezers for clamping tweezers N° 551019

For clamping of small and smallest specimens



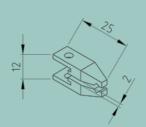


Part No.: 551 007 Clamp. range: 1 - 3 mm Clamp. width: 3 mm

Pair of exchangeable prismatic tips for clamping tweezers N° 551019

For clamping of small and smallest rotationally symmetrical specimens



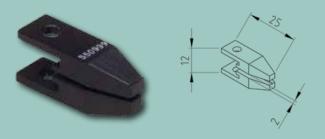


Part No.: 550 998 Clamp. range: Ø 4 - Ø 5 mm



Pair of exchangeable prismatic tips for clamping tweezers N° 551019

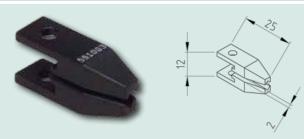
For clamping of small and smallest rotationally symmetrical specimens



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

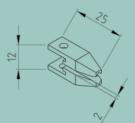


Part No.: 551 003 Clamp. range: Ø 2 - Ø 3 mm

Pair of exchangeable prismatic tips for clamping tweezers N° 551019

For clamping of small and smallest rotationally symmetrical specimens



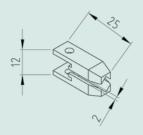


Part No.: 551 004Clamp. range: Ø 3 - Ø 4 mm

Pair of exchangeable prismatic tips for clamping tweezers N° 551019

For clamping of small and smallest rotationally symmetrical specimens



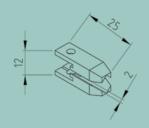


Part No.: 551 005 Clamp. range: Ø 4 - Ø 5 mm

Pair of exchangeable prismatic tips for clamping tweezers N° 551019

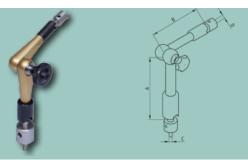
For clamping of small and smallest rotationally symmetrical specimens





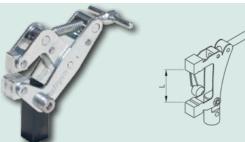
Part No.: 551 006 Clamp. range: Ø 5 - Ø 6 mm

Hydraulic articulated arm mini With M4 connecting thread



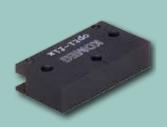
Part No.: 550 703
A = 60 mm
B = 60 mm
C = M6
D = M4

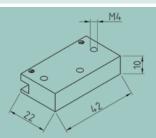
Clamping unit miniWith M4 connecting thread, for mounting to e.g. articulated arm or M4 adaptor (551016)



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

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

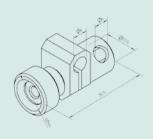




Part No.: 550 850 42 x 22 x 10 mm

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

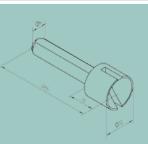




Part No.: 551 083

Centering unitFor centering of parts without center hole





Part No.: 550 994



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