

Mitutoyo Fixtures eco-fix and opti-fix

COORDINATE
MEASURING MACHINES



Mitutoyo Fixtures – Experience in Accuracy

Industrial quality assurance requires increasing universality, flexibility and the ideal shape for absolute precision. Here Mitutoyo show exactly what they are capable of: maximum accuracy, pioneering innovation and convincing economics.

It is not only the technical capabilities of that stand out from the crowd. Equally impressive is the integrated nature of the entire concept, right through to the seamless service environment. This concept forms the customer-oriented basis for a multi-faceted range of services that will open up a new dimension of quality assurance to every user: world-class measuring technology from Mitutoyo.

You can choose eco-fix, the modular fixture system especially for use in visual coordinate measuring machines, vari-fix together with RST profile, which allows free and unrestricted orientation of the workpiece in any desired pick-up position and opti-fix, especially developed for vision and optical measuring systems, which ensures a permanent error-free transfer of values.

For measurably better results.

Mitutoyo means that you can count on the experience, competence and performance of one of the world's leading measurement technology specialists and a customer-focused service without equal comparison.

Mitutoyo: Performance made perfect.



Another strong point: Assignment of system components during setup and storage is noticeably easier, faster and cannot be mixed up – thus saving time and labor costs – and once again increasing the economic benefit of eco-fix compared to other clamping systems.

The refreshing appearance and state-of-the-art styling of eco-fix are combined with an outstanding durability and resistibility. The system's base plates are made from hardcoated, the receptacle modules from anodised aluminium – which means long-lasting operation even under rougher conditions. Additionally, eco-fix features an extremely high load-carrying capacity.

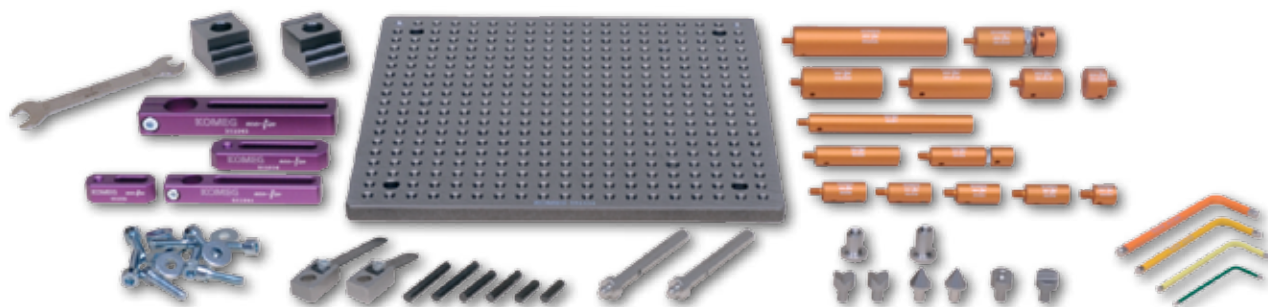
And: The low own weight of the elements ensures easy and safe handling as well as uncomplicated storing. In eco-fix, lightness meets strength!

By the way: eco-fix complements MITUTOYO's repro-fix clamping system featuring receptacle modules made from hardened steel – approved and successful for many years. eco-fix and repro-fix are combinable and expandable as required.

MITUTOYO's eco-fix shows you how fascinating ideas can be!



eco-fix Kit S

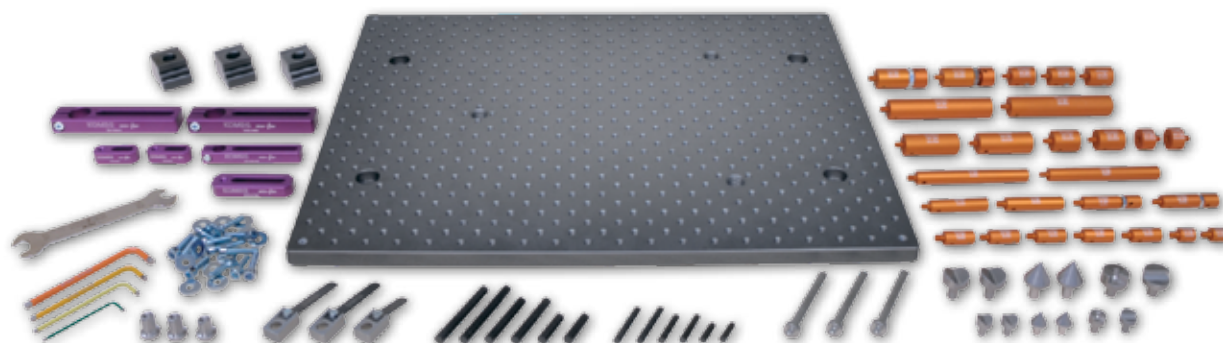


Part No. K551048

Part No.	Qty.	Part name
K551024	1	Location pin $\varnothing$ 12 mm x 13 mm
K551025	1	Location pin $\varnothing$ 12 mm x 25 mm
K551026	1	Location pin $\varnothing$ 12 mm x 50 mm
K551027	1	Location pin $\varnothing$ 12 mm x 100 mm
K551028	1	Location pin $\varnothing$ 20 mm x 13 mm
K551029	1	Location pin $\varnothing$ 20 mm x 25 mm
K551030	1	Location pin $\varnothing$ 20 mm x 50 mm
K551031	1	Location pin $\varnothing$ 20 mm x 100 mm
K551032	2	Clamping claw eco-fix
K551034	1	Base plate 250 mm x 250 mm
K551035	1	Receiver bracket small
K551036	1	Receiver bracket large
K551040	1	Adjustable location pin $\varnothing$ 20 mm
K551041	1	Adjustable location pin $\varnothing$ 12 mm
K551042	3	Location pin $\varnothing$ 12 mm with bore 6 mm
K551044	1	Receiver bracket L = 90; $\varnothing$ 12 mm
K551045	1	Receiver bracket L = 120; $\varnothing$ 20 mm
K550716	2	Straight pin with thread
K550279	1	Spring clip, $\varnothing$ 8 mm, L = 60 mm
K550554	1	Spring clip, $\varnothing$ 8 mm, L = 40 mm
K550262	2	V-block mini
K550261	2	Cone receiver mini
K550250	1	Stopper element mini
K550247	1	Back square mini
K550888	2	Straight pin $\varnothing$ 6 mm x 20 mm
K550889	2	Straight pin $\varnothing$ 6 mm x 30 mm
K550890	2	Straight pin $\varnothing$ 6 mm x 40 mm
K551046	1	Slotted nut for receiver bracket h = 12 mm
K551047	1	Slotted nut for receiver bracket h = 15 mm
K551050	1	Allen key 2 mm
K551051	1	Allen key 3 mm
K551052	1	Allen key 4 mm
K551053	1	Allen key 5 mm
K551504	1	Double open-ended spanner SW10
K550591	8	Washer $\varnothing$ 6.4 mm x $\varnothing$ 17 mm
K550110	6	Cylinder head screw M6 x 20
K550563	2	Cylinder head screw M6 x 25
Total	59	

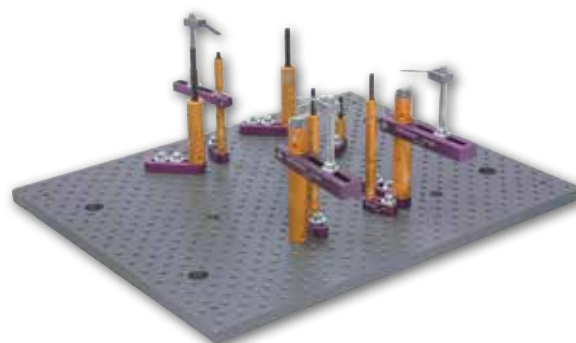


eco-fix Kit L

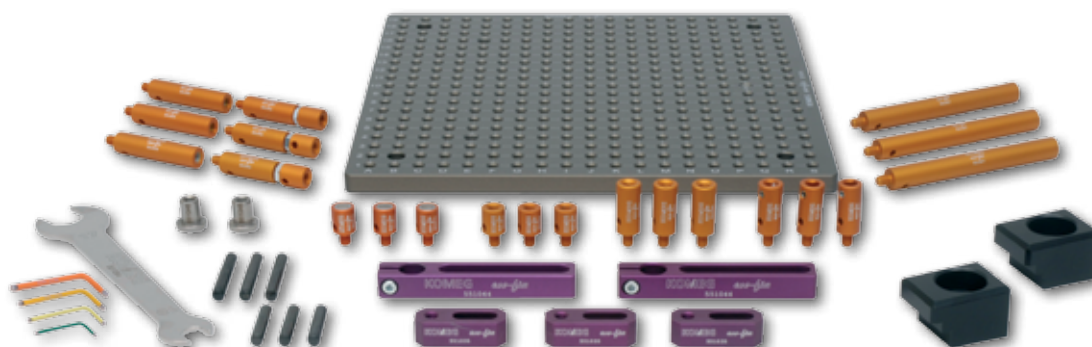


Part No. K551049

Part No.	Qty.	Part name
K551024	2	Location pin $\varnothing$ 12 mm x 13 mm
K551025	2	Location pin $\varnothing$ 12 mm x 25 mm
K551026	2	Location pin $\varnothing$ 12 mm x 50 mm
K551027	2	Location pin $\varnothing$ 12 mm x 100 mm
K551028	2	Location pin $\varnothing$ 20 mm x 13 mm
K551029	2	Location pin $\varnothing$ 20 mm x 25 mm
K551030	2	Location pin $\varnothing$ 20 mm x 50 mm
K551031	2	Location pin $\varnothing$ 20 mm x 100 mm
K551032	3	Clamping claw eco-fix
K551033	1	Base plate 500 mm x 400 mm
K551035	2	Receiver bracket small
K551036	1	Receiver bracket large
K551040	2	Adjustable location pin $\varnothing$ 20 mm
K551041	2	Adjustable location pin $\varnothing$ 12 mm
K551042	3	Location pin $\varnothing$ 12 mm with bore 6 mm
K551043	3	Location pin $\varnothing$ 20 mm with bore 8 mm
K551044	1	Receiver bracket L = 90 mm, $\varnothing$ 12 mm
K551045	2	Receiver bracket L = 120 mm, $\varnothing$ 20 mm
K550716	3	Straight pin with thread
K550279	2	Spring clip, $\varnothing$ 8 mm, L = 60 mm
K550554	1	Spring clip, $\varnothing$ 8 mm, L = 40 mm
K550262	2	V-Block mini
K550261	2	Cone receiver mini
K550250	1	Stopper element mini
K550247	1	Back square mini
K550058	2	V-block
K550365	2	Cone Receiver
K550982	1	Stopper element
K550248	1	Back square
K550888	2	Straight pin $\varnothing$ 6 mm x 20 mm
K550889	2	Straight pin $\varnothing$ 6 mm x 30 mm
K550890	2	Straight pin $\varnothing$ 6 mm x 40 mm
K550000	2	Straight pin $\varnothing$ 8 mm x 30 mm
K550001	2	Straight pin $\varnothing$ 8 mm x 50 mm
K550002	2	Straight pin $\varnothing$ 8 mm x 65 mm
K551046	1	Slotted nut for receiver bracket h = 12 mm
K551047	2	Slotted nut for receiver bracket h = 15 mm
K551050	1	Allen key 2 mm
K551051	1	Allen key 3 mm
K551052	1	Allen key 4 mm
K551053	1	Allen key 5 mm
K551504	1	Double open-ended spanner SW10
K550591	12	Washer D = 6.4 mm / D = 17 mm
K550110	6	Cylinder head screw M6 x 20 mm
K550563	6	Cylinder head screw M6 x 25 mm
Total	98	

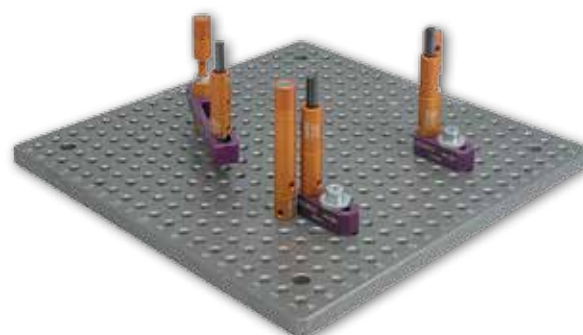
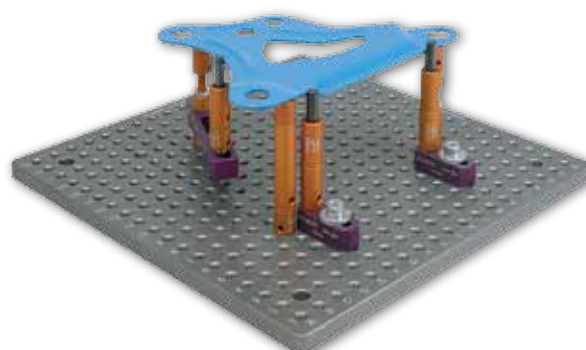


eco-fix Kit MAG-S



Part No. K551089

Part No.	Qty.	Part name
K551024	3	Location pin $\varnothing$ 12 mm x 13 mm
K551025	3	Location pin $\varnothing$ 12 mm x 25 mm
K551026	3	Location pin $\varnothing$ 12 mm x 50 mm
K551027	3	Location pin $\varnothing$ 12 mm x 100 mm
K551032	2	Clamping claw eco-fix
K551034	1	Base plate 250 mm x 250 mm
K551035	3	Receiver bracket small
K551041	3	Adjustable Location pin $\varnothing$ 12 mm
K551042	3	Location pin $\varnothing$ 12 mm with bore 6 mm
K551044	2	Receiver bracket L = 90 mm; $\varnothing$ 12 mm
K550889	3	Straight pin $\varnothing$ 6 mm x 30 mm
K551073	3	Magnetic receiver $\varnothing$ 20 mm
K550890	3	Straight pin $\varnothing$ 6 mm x 40 mm
K551046	2	Slotted nut for receiver bracket h = 12 mm
K551050	1	Allen key 2 mm
K551051	1	Allen key 3 mm
K551052	1	Allen key 4 mm
K551053	1	Allen key 5 mm
K551054	1	Double open-ended spanner SW 10-17
K550591	15	Washer D= 6.4 mm / D= 17 mm
K550110	10	Cylinder head screw M6 x 20 mm
K550563	5	Cylinder head screw M6 x 25 mm
Total	70	

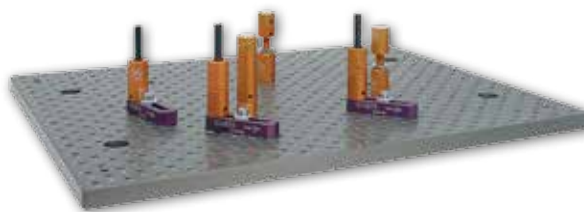
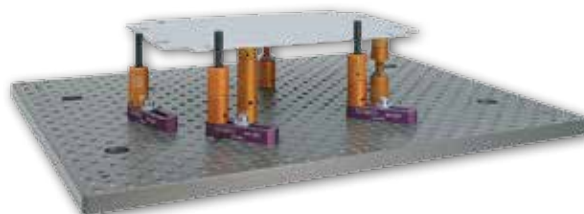


eco-fix Kit MAG-L



Part No. K551090

Part No.	Qty.	Part name
K551028	3	Location pin ø 20 mm x 13 mm
K551029	3	Location pin ø 20 mm x 25 mm
K551030	3	Location pin ø 20 mm x 50 mm
K551031	3	Location pin ø 20 mm x 100 mm
K551032	3	Clamping claw eco-fix
K551033	1	Base plate 500 mm x 400 mm
K551036	3	Receiver bracket large
K551040	3	Adjustable Location pin ø 20 mm
K551043	3	Location pin ø 20 mm with bore 8 mm
K551045	2	Receiver bracket L = 120 mm; ø 20 mm
K551074	3	Magnetic receiver ø 20 mm
K550000	3	Straight pin ø 8 mm x 30 mm
K550001	3	Straight pin ø 8 mm x 50 mm
K551050	1	Allen key 2 mm
K551051	1	Allen key 3 mm
K551052	1	Allen key 4 mm
K551053	1	Allen key 5 mm
K551054	1	Double open-ended spanner SW 10-17
K550591	20	Washer D= 6.4 mm / D= 17 mm
K550110	10	Cylinder head screw M6 x 20 mm
K550563	10	Cylinder head screw M6 x 25 mm
Total	79	

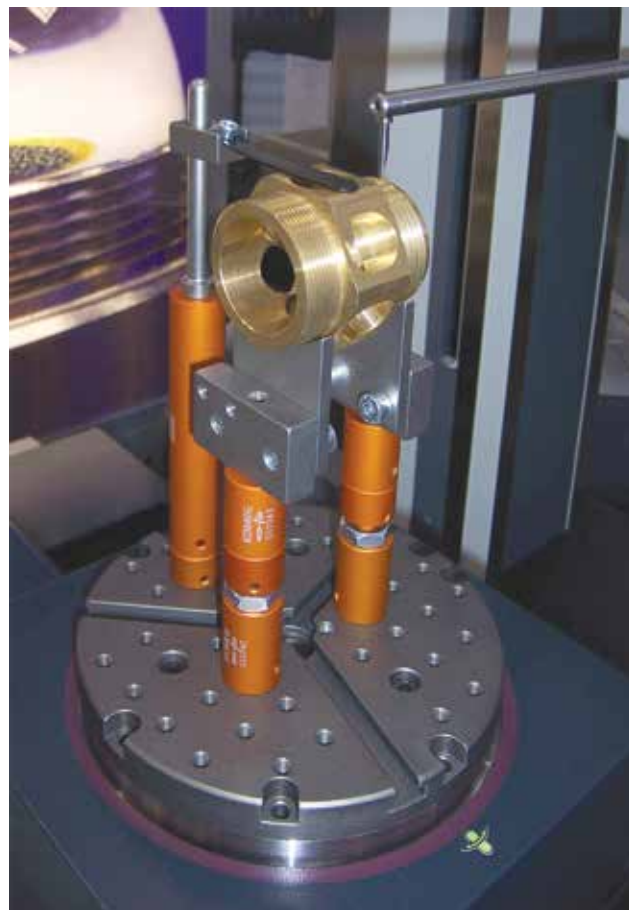


eco-fix Kit Form S



Part No. K551133

Part No.	Qty.	Part name
K551038	1	Adaptor plate ø 150 mm
K551024	1	Location pin ø 12 mm X 13 mm
K551025	1	Location pin ø 12 mm X 25 mm
K551026	1	Location pin ø 12 mm X 50 mm
K551027	1	Location pin ø 12 mm X 100 mm
K551028	1	Location pin ø 20 mm X 13 mm
K551029	1	Location pin ø 20 mm X 25 mm
K551030	1	Location pin ø 20 mm X 50 mm
K551031	1	Location pin ø 20 mm X 100 mm
K551035	1	Receiver bracket small
K551036	1	Receiver bracket large
K551040	1	Adjustable location pin ø 20 mm
K551041	1	Adjustable location pin ø 12 mm
K551042	3	Location pin ø 12 mm with bore ø 6mm
K551044	1	Receiver bracket L = 90; ø 12 mm
K550716	1	Straight pin with thread
K550279	1	Spring clip, d= 8 mm, L = 60 mm
K551069	1	Flat top ø 12 mm
K550262	1	V-block mini
K550261	2	Cone receiver mini
K550250	1	Stopper element mini
K550247	1	Back square mini
K550888	2	Straight pin Ø 6 mm x 20 mm
K550889	2	Straight pin Ø 6 mm x 30 mm
K550890	2	Straight pin Ø 6 mm x 40 mm
K551046	1	Slotted nut for receiver bracket h=12mm
K551050	1	Allen key 2 mm
K551051	1	Allen key 3 mm
K551052	1	Allen key 4 mm
K551053	1	Allen key 5 mm
K551054	1	Double open ended spanner 10-17
K550591	1	Washer ø 6,4 mm / ø 17 mm
K550110	8	Cylinder head screw M6 x 20 mm
K550563	6	Cylinder head screw M6 x 25 mm
Total	53	



eco-fix Kit Form L



Part No. K551134

Part No.	Qty.	Part name
K551039	1	Adaptor plate $\varnothing$ 200 mm
K551024	1	Location pin $\varnothing$ 12 mm X 13 mm
K551025	1	Location pin $\varnothing$ 12 mm X 25 mm
K551026	1	Location pin $\varnothing$ 12 mm X 50 mm
K551027	2	Location pin $\varnothing$ 12 mm X 100 mm
K551028	2	Location pin $\varnothing$ 20 mm X 13 mm
K551029	2	Location pin $\varnothing$ 20 mm X 25 mm
K551030	2	Location pin $\varnothing$ 20 mm X 50 mm
K551031	1	Location pin $\varnothing$ 20 mm X 100 mm
K551035	1	Receiver bracket small
K551036	1	Receiver bracket large
K551040	2	Adjustable location pin $\varnothing$ 20 mm
K551041	1	Adjustable location pin $\varnothing$ 12 mm
K551042	2	Location pin $\varnothing$ 12 mm with bore $\varnothing$ 6 mm
K551043	3	Location pin $\varnothing$ 20 mm with bore $\varnothing$ 8 mm
K551044	1	Receiver bracket L=90; $\varnothing$ 12 mm
K551045	1	Receiver bracket L=120; $\varnothing$ 20 mm
K550716	2	Straight pin with thread
K550279	2	Spring clip, d= 8 mm, L= 60 mm
K550262	1	V-block mini
K550261	2	Cone receiver mini
K550250	1	Stopper element mini
K550247	1	Back square mini
K550058	1	V-block
K550365	2	Cone receiver
K550982	1	Stopper element
K550248	1	Back square
K550888	2	Straight pin $\varnothing$ 6 mm x 20 mm
K550889	2	Straight pin $\varnothing$ 6 mm x 30 mm
K550890	2	Straight pin $\varnothing$ 6 mm x 40 mm
K550000	2	Straight pin $\varnothing$ 8 mm x 30 mm
K550001	2	Straight pin $\varnothing$ 8 mm x 50 mm
K550002	2	Straight pin $\varnothing$ 8 mm x 95 mm
K551046	1	Slotted Nut for receiver bracket h= 12 mm
K551047	1	Slotted Nut for receiver bracket h= 15 mm
K551050	1	Allen key 2 mm
K551051	1	Allen key 3 mm
K551052	1	Allen key 4 mm
K551053	1	Allen key 5 mm
K551054	1	Double open ended spanner 10-17
K550591	1	Washer $\varnothing$ 6.4 mm / $\varnothing$ 17 mm
K550110	12	Cylinder head screw M6 x 20 mm
K550563	6	Cylinder head screw M6 x 25 mm
Total	82	



Extension Sets



Part No. K551129



Part No. K551130

Receiver brackets 1

Part No.	Qty.	Part name
K551044	3	Receiving bracket L = 90 mm, ø 12 mm
K551035	3	Receiver bracket small L = 40 mm, M6
K551046	3	Slotted nut h = 12 mm
Total	9	

Receiver brackets 2

Part No.	Qty.	Part name
K551045	3	Receiving bracket L = 120 mm, ø 20 mm
K551036	3	Receiver bracket large L = 70 mm, M6
K551047	3	Slotted nut h = 15 mm
Total	9	



Part No. K551132



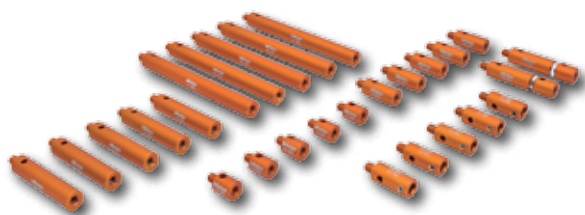
Part No. K551131

Joints 1

Part No.	Qty.	Part name
K551075	3	Turn-swivel joint ø 12 mm
K551076	3	Turn-swivel joint ø 20 mm
Total	6	

Magnet 1

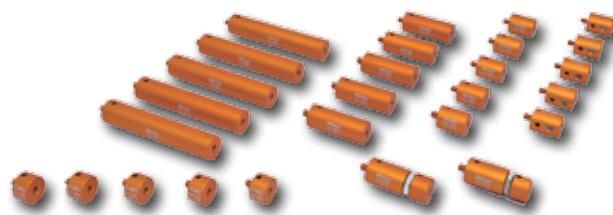
Part No.	Qty.	Part name
K551073	5	Magnetic receiver ø 12 mm
K551074	5	Magnetic receiver ø 20 mm
Total	10	



Part No. K551123

Location pins 1

Part No.	Qty.	Part name
K551024	5	Location pin $\varnothing$ 12 mm x 13 mm
K551025	5	Location pin $\varnothing$ 12 mm x 25 mm
K551026	5	Location pin $\varnothing$ 12 mm x 50 mm
K551027	5	Location pin $\varnothing$ 12 mm x 100 mm
K551042	5	Location pin $\varnothing$ 12 mm with hole $\varnothing$ 6 mm
K551041	2	Adjustable location pin $\varnothing$ 12 mm
Total	27	



Part No. K551124

Location pins 2

Part No.	Qty.	Part name
K551028	5	Location pin $\varnothing$ 20 mm x 13 mm
K551029	5	Location pin $\varnothing$ 20 mm x 25 mm
K551030	5	Location pin $\varnothing$ 20 mm x 50 mm
K551031	5	Location pin $\varnothing$ 20 mm x 100 mm
K551043	5	Location pin $\varnothing$ 20 mm with hole $\varnothing$ 8 mm
K551040	2	Adjustable location pin $\varnothing$ 20 mm
Total	27	



Part No. K551126

Supporting elements 1

Part No.	Qty.	Part name
K551069	3	Flat top $\varnothing$ 12 mm
K550250	3	Stopper element mini $\varnothing$ 12 mm
K550247	2	Back square mini $\varnothing$ 12 mm
K550262	2	V-block mini $\varnothing$ 12 mm
K551071	5	Sphere top $\varnothing$ 12 mm
K550261	2	Cone receiver mini $\varnothing$ 12 mm
Total	17	



Part No. K551127

Supporting elements 2

Part No.	Qty.	Part name
K551070	3	Flat top $\varnothing$ 20 mm
K550982	3	Stopper element $\varnothing$ 20 mm
K550248	2	Back square $\varnothing$ 20 mm
K550058	2	V-block $\varnothing$ 20 mm
K551072	5	Sphere top $\varnothing$ 20 mm
K550365	2	Cone receiver $\varnothing$ 20 mm
Total	17	



Part No. K551125

Clamping elements 1

Part No.	Qty.	Part name
K550716	5	Straight pin with thread
K550554	2	Spring clip, $\varnothing$ 8 mm L= 40 mm
K550279	3	Spring clip, $\varnothing$ 8 mm L= 60 mm
Total	10	



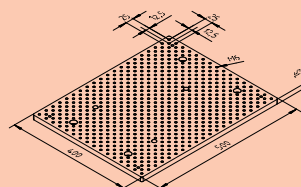
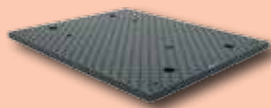
Part No. K551128

Straight pins

Part No.	Qty.	Part name
K550888	5	Straight pin mini $\varnothing$ 6 mm x 20 mm
K550889	5	Straight pin mini $\varnothing$ 6 mm x 40 mm
K550890	5	Straight pin mini $\varnothing$ 6 mm x 60 mm
K550000	5	Straight pin $\varnothing$ 8 mm x 30 mm
K550001	5	Straight pin $\varnothing$ 8 mm x 50 mm
K550002	5	Straight pin $\varnothing$ 8 mm x 65 mm
K550003	5	Straight pin $\varnothing$ 8 mm x 85 mm
Total	35	

Base plate eco-fix 500 mm x 400 mm

Made of hard-anodised aluminium, with connecting thread M6, grid distance 12.5 mm / 25 mm

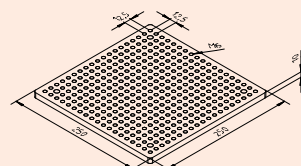
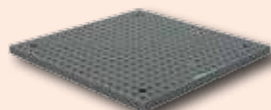


Part No.: K551033

Weight 7600 g

Base plate eco-fix 250 mm x 250 mm

Made of hard-anodised aluminium, with connecting thread M6, grid distance 12.5 mm

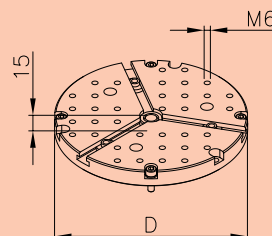


Part No.: K551034

Weight 1500 g

Adaptor plate ø 150 mm

Made of hard-anodised aluminium, to adapt holding fixtures on Mitutoyo turntables for roughness and form measuring machines. Delivered including 3 slotted nuts and mounting parts



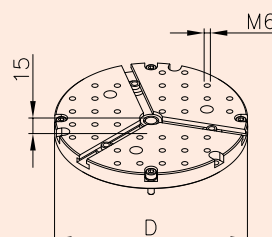
Part No.: K551038

Adaptor plate 150 mm for Mitutoyo turntables RA114/6 and RA1500

Weight 720 g

Adaptor plate ø 200 mm

Made of hard-anodised aluminium, to adapt holding fixtures on Mitutoyo turntables for roughness and form measuring machines. Delivered including 3 slotted nuts and mounting parts



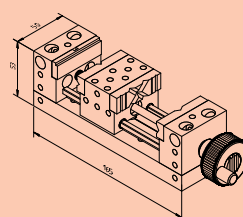
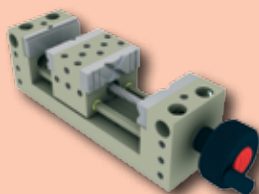
Part No.: K551039

Adaptor plate 200 mm for Mitutoyo turntables 12AAD975 and RA2000DS/DH

Weight 1300 g

Vice

Clamping jaws equipped with prisms and surfaces can be changed and combined. By reason of the two-way double function, a very flexible fixation is possible. Connecting threads on the top of the jaws, allows e.g. in combination with pins the internal fixation of e.g. turning workpieces. Clamping range 0-68 mm.



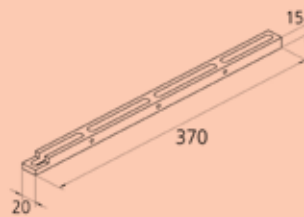
Part No.: K551078

Weight 920 g

System Elements

Positioning rail kit S

Kit for creating an angle on CMM table to position fixtures.



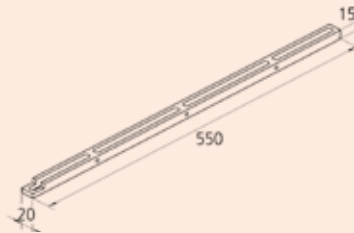
Part No.: K551197

Consist of rail 370mm (2pcs); spindle M6 with nuts and washers (3pcs); screw M8x35 (3pcs); washer for M8 (3pcs)

Weight 580 g

Positioning rail kit L

Kit for creating an angle on CMM table to position fixtures.



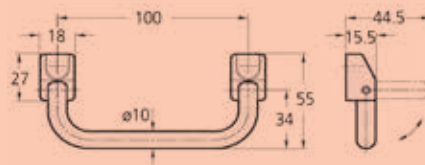
Part No.: K551198

Consist of rail 550mm (2pcs); spindle M6 with nuts and washers (3pcs); screw M8x35 (3pcs); washer for M8 (3pcs)

Weight 750 g

Handle set

Pair of handles for eco-fix baseplates.



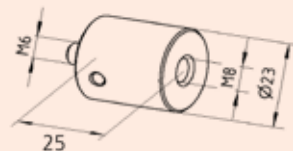
Part No.: K551199

Consist of handle (2pcs); screw (4pcs)

Weight 240 g

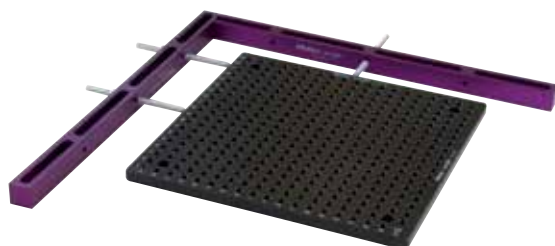
Masterball adaptor (M6-M8)

Adaptor to fix the masterball with M8 on eco-fix plates with thread M6.



Part No.: K551153

Weight 75 g



Positioning rail kit S with plate



Handle set on plate

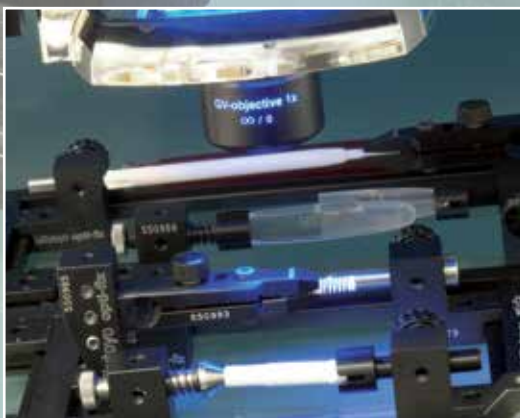
MITUTOYO opti-fix

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. MITUTOYO 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.



Kit opti-set Start



Part No.: K551056

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
K550838	1	Connector clamp. profile rail; L = 100 mm
K550854	1	Clamping profile rail without slot L = 250 mm
K550842	1	Connector with connector grooves
K550853	3	Clamping fixture (with thread M4)
K550891	3	Straight pin for holding-down devices L = 30 mm
K550845	2	Toothed fixture L = 40 mm
K550843	1	Toothed fixture L = 100 mm
K550978	1	Spring clip 30° short
K550980	1	Spring clip 30° long
K550979	1	Spring clip 15° short
K551020	1	Allen key 1.5 mm
Total	16	



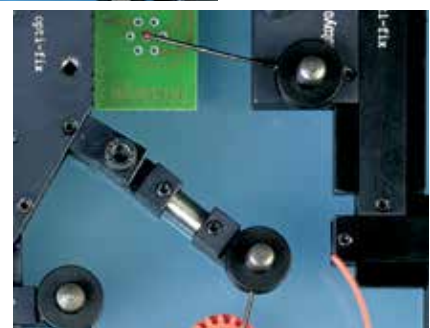
Kit opti-set Basic



Part No.: K551057

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
K550838	3	Connector clamp. profile rail; L = 100 mm
K550857	2	Clamping profile rail without slot L = 200 mm
K550853	4	Clamping fixture (with thread M4)
K550891	4	Straight pin for holding-down devices L = 30 mm
K550845	4	Toothed fixture L = 40 mm
K550978	2	Spring clip 30° short
K550980	2	Spring clip 30° long
K550979	2	Spring clip 15° short
K550981	2	Spring clip 15° long
K551020	1	Allen key SW 1.5 mm
Total	26	



Kit opti-set Rotation



Part No.: K551058

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
K550854	2	Clamping profile rail; L = 250 mm
K550859	2	Clamping profile rail; L = 200 mm
K550984	1	Clamping block GG
K550985	2	Clamping block GK
K550879	1	Tailstock with centre
K550986	1	Tailstock with spring-loaded centre
K551018	1	Prism 120° compl. with spring clip
K550972	1	Prismatic eccentric receiver
K550994	2	Centring receive
K550303	2	Receiver pin stepped 100 mm
K551062	2	Shaft 6 mm x 100 mm
K550842	4	Connector with connector grooves
K551020	1	Allen key 1.5 mm
K551021	1	Allen key 2 mm
Total	23	



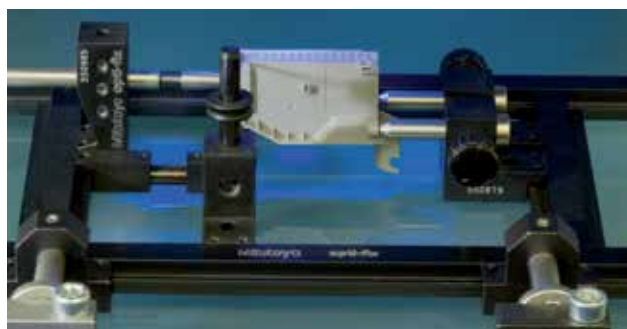
Kit opti-set Advanced



Part No.: K551059

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
K550210	2	Clamping profile rail; L = 400 mm
K550836	3	Clamping profile rail; L = 250 mm
K550842	6	Connector with connector grooves
K550838	1	Clamping profile rail; L = 100 mm
K550984	2	Clamping block GG
K550985	1	Clamping block GK
K550213	1	Clamping block GKD, rotatable
K550858	1	Toothed fixture L = 100 mm
K550845	2	Toothed fixture L = 40 mm
K550970	1	Eccentric receiver
K550971	1	Prismatic receiver / locator
K550304	1	Receiver plane
K550301	3	Receiver pin stepped L = 60 mm
K550302	3	Receiver pin stepped L = 80 mm
K550303	3	Receiver pin stepped L = 100 mm
K550990	3	Rectangular receiver pin L = 50 mm
K550323	2	Rectangular receiver pin L = 25 mm
K551012	1	Spring-loaded clamping rod
K550978	3	Spring clip with bent tip, short L = 30°
K550979	3	Spring clip with bent tip, short L = 15°
K550980	3	Spring clip with bent tip, long L = 30°
K550981	3	Spring clip with bent tip, long L = 15°
K551020	1	Allen key 1.5 mm
K551021	1	Allen key 2.0 mm
Total	51	



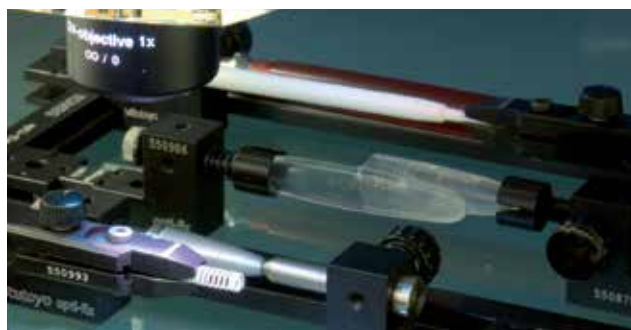
Kit opti-set Professional



Part No.: K551060

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 rotational 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.

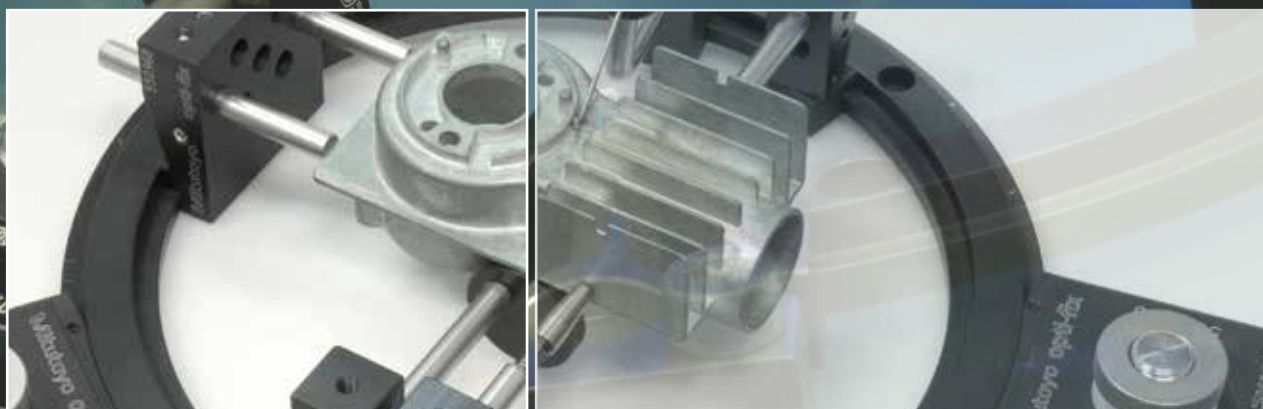


Part No.	Qty.	Part name
K550210	2	Clamping profile rail; L = 400 mm
K550836	4	Clamping profile rail; L = 250 mm
K550842	8	Connector with connector grooves
K550838	2	Clamping profile rail; L = 100 mm
K550985	2	Clamping block GK
K550984	2	Clamping block GG
K550213	2	Clamping block GKD, rotatable
K550165	3	Toothed fixture flat L = 40 mm
K550324	2	Toothed fixture flat L = 100 mm
K550845	1	Toothed fixture flat L = 40 mm
K551013	2	Toothed fixture flat with fine teeth L = 40 mm
K550853	8	Clamping fixture (with thread M4)
K550891	4	Straight pin for holding-down devices L = 30 mm
K551017	4	Straight pin for holding-down devices L = 12 mm
K550978	2	Spring clip with bent tip, short 30°
K550979	2	Spring clip with bent tip, short 15°
K550980	2	Spring clip with bent tip, long 30°
K550981	2	Spring clip with bent tip, long 15°
K550970	2	Eccentric receiver
K550972	2	Prismatic eccentric receiver
K550971	2	Prismatic receiver / locator
K550304	1	Receiver plane
K550301	3	Receiver pin stepped L = 60 mm
K550302	3	Receiver pin stepped L = 80 mm
K550303	3	Receiver pin stepped L = 100 mm
K550990	3	Rectangular receiver pin L = 50 mm
K550323	3	Rectangular receiver pin L = 25 mm
K551012	2	Spring-loaded clamping rod
K550879	1	Tailstock with centre
K550986	1	Tailstock with spring-loaded centre
K550839	4	Telescope fixture slider
K550852	4	Telescope fixture end piece
K550887	4	Straight pin 6 x 10 mm
K550888	4	Straight pin 6 x 20 mm
K550889	4	Straight pin 6 x 30 mm
K550890	4	Straight pin 6 x 40 mm
K550840	2	Knuckle joint with dovetail
K550851	2	Swivel receiver with knife edge
K550847	2	Swivel receiver with straight pin
K551018	1	Prism 120° compl. with spring clip
K551014	1	Precision quick chuck 0-4 mm
K551016	1	Adaptor plate M4
K551020	1	Allen key 1.5 mm
K551021	1	Allen key 2 mm
Total	115	

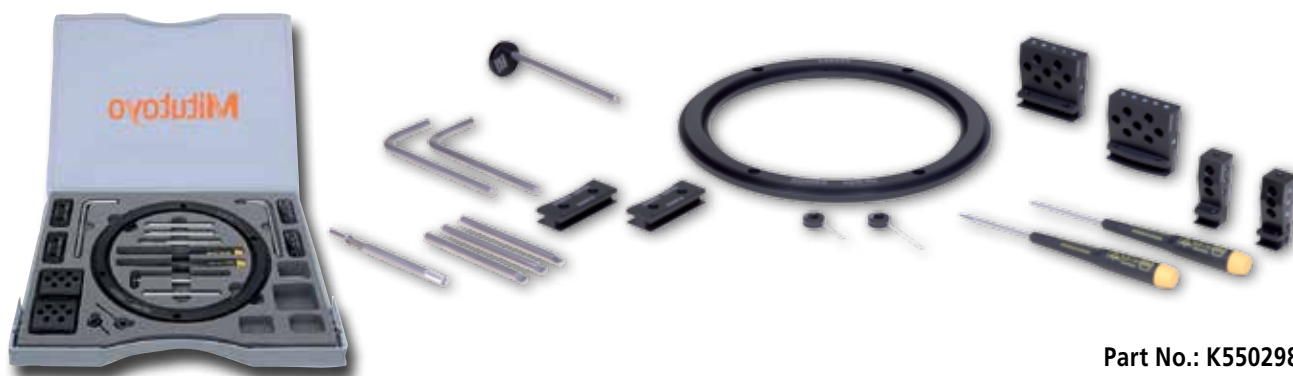
MITUTOYO opti-fix round

MITUTOYO opti-fix 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 MITUTOYO 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.



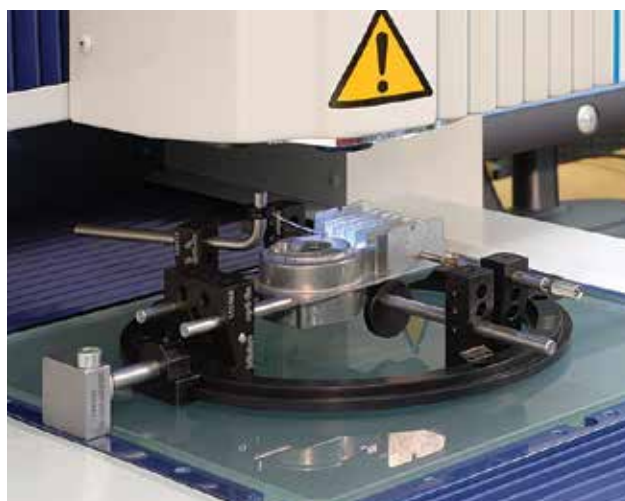
Kit opti-set Round

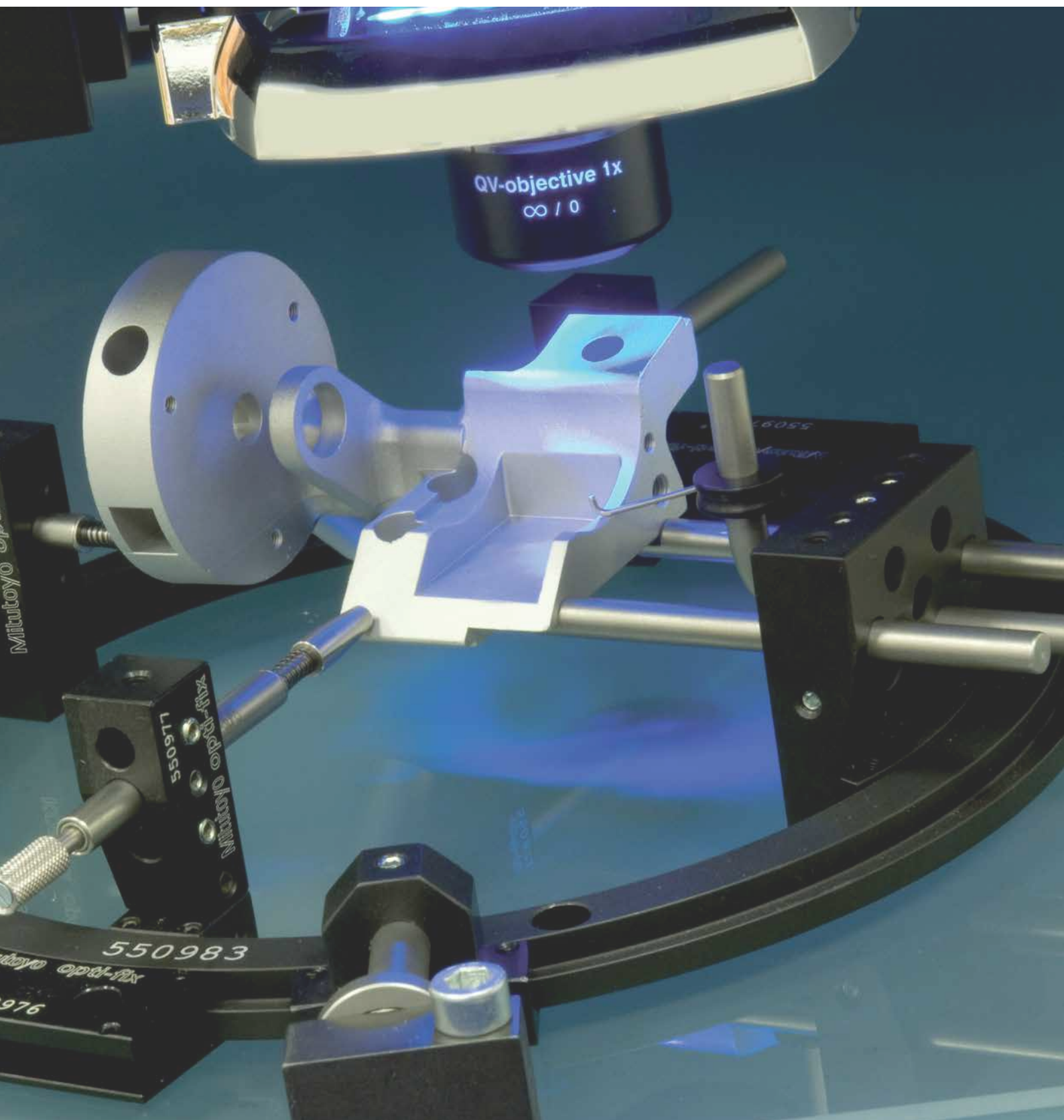


Part No.: K550298

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 MITUTOYO 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
K550983	1	Circular clamping profile
K550976	2	Adaptor plate
K550977	1	Clamping block RKD; small, rotatable
K550969	1	Clamping block RK; small
K550968	2	Clamping block RG; large
K550302	3	Receiver pin 80 mm
K550970	1	Eccentric receiver
K550990	2	Rectangular receiver pin
K550870	1	Spring clip 15° short
K550849	1	Spring clip 15° long
K551012	1	Spring-loaded clamping rod
K551020	1	Allen key 1.5 mm
K551021	1	Allen key 2.0 mm
Total	18	

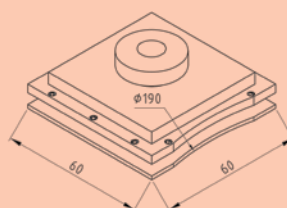
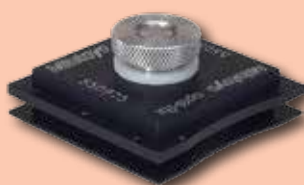




System Elements

Vacuum plate

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

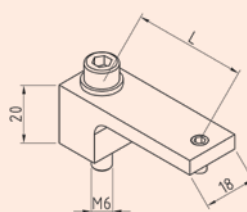


Part No.: K550975

60 mm x 60 mm

Fastening bracket

For mounting of basic profiles or frames on measuring devices



Part No.:

K550886 20 mm - 22 mm

Further types available on demand



**Whatever your challenges are,
Mitutoyo supports you from start to finish.**

Mitutoyo is not only a manufacturer of top quality measuring products but one that also offers qualified support for the lifetime of the equipment, backed up by comprehensive services that ensure your staff can make the very best use of the investment.

Apart from the basics of calibration and repair, Mitutoyo offers product and metrology training, as well as IT support for the sophisticated software used in modern measuring technology. We can also design, build, test and deliver bespoke measuring solutions and even, if deemed cost-effective, take your critical measurement challenges in-house on a sub-contract basis.

Note: Product illustrations are without obligation. Product descriptions, in particular any and all technical specifications, are only binding when explicitly agreed upon.

MITUTOYO and MiCAT are either registered trademarks or trademarks of Mitutoyo Corp. in Japan and/or other countries/regions.

Other product, company and brand names mentioned herein are for identification purposes only and may be the trademarks of their respective holders.

Mitutoyo

Mitutoyo Asia Pacific Pte. Ltd.

Company Reg No. 197800892N

24 Kallang Avenue, Mitutoyo Building, Singapore 339415

Tel: (65) 6294 2211 Fax: (65) 6299 6666

E-mail: mapsg@mitutoyo.com.sg



www.mitutoyo.com.sg | www.mitutoyo.com.my

www.mitutoyo.co.th | www.mitutoyo.co.id

www.mitutoyo.com.vn | www.mitutoyo.com.ph

Mitutoyo (Malaysia) Sdn. Bhd.

Mah Sing Integrated Industrial Park,
4, Jalan Utarid U5/14, Section U5,
40150 Shah Alam, Selangor, Malaysia
Tel: (60) 3-7845 9318
Fax: (60) 3-7845 9346

E-mail: mmsb@mitutoyo.com.my

Penang Branch

Tel: (60) 4-641 1998 Fax: (60) 4-641 2998
E-mail: mmsbpen@mitutoyo.com.my

Johor Branch

Tel: (60) 7-352 1626 Fax: (60) 7-352 1628
E-mail: mmsbjhr@mitutoyo.com.my

Mitutoyo (Thailand) Co., Ltd.

76/3-5, Chaengwattana Road, Kwaeng
Anusaowaree, Khet Bangkaen,
Bangkok 10220, Thailand
Tel: (66) 2-080 3500
Fax: (66) 2-521 6136

E-mail: office@mitutoyo.co.th

Chonburi Branch

Tel: (66) 2-080 3563 Fax: (66) 3-834 5788

Amata Nakorn Branch

Tel: (66) 2-080 3565 Fax: (66) 3-846 8978

PT. Mitutoyo Indonesia

Jalan Sriwijaya No.26
Desa cibatu
Kec. Cikarang Selatan
Kab. Bekasi 17530, Indonesia
Tel: (62) 21-2962 8600
Fax: (62) 21-2962 8604
E-mail: ptmi@mitutoyo.co.id

Mitutoyo Vietnam Co., Ltd.

No. 07-TT4, My Dinh - Me Tri Urban Zone,
My Dinh 1 Ward, Nam Tu Liem District,
Hanoi, Vietnam
Tel: (84) 4-3768 8963
Fax: (84) 4-3768 8960

E-mail: mvc-hn@mitutoyo.com.vn

Ho Chi Minh City Branch

Tel: (84) 8-3840 3489
Fax: (84) 8-3840 3498

E-mail: mvc-hcmc@mitutoyo.com.vn

Mitutoyo Philippines, Inc.

Unit 2103, GMV Building 2,
107 North Main Avenue,
Laguna Technopark, Biñan,
Laguna 4024, Philippines
Tel: (63) 49-544 0272
Fax: (63) 49-544 0272
E-mail: mpi@mitutoyo.com.ph