Mitutoyo

MITUTOYO FIXTURES

ECO-FIX, CAR-FIX AND OPTI-FIX



Mitutoyo Fixtures – Experience in Accuracy

Industrial inspection and quality control rely on precision measuring machines and precision fixturing alike. Reliable and repeatable fixture set-up is a basic requirement for successful and accurate measurement. Therefore fixturing is as important a part of proper quality control as the choice of a suitable CMM, form measuring machine or vision measurement system.

Mitutoyo fixture equipment is designed and manufactured with uncompromising precision in mind. Additionally, universality, flexibility and efficiency are essential aspects for choosing Mitutoyo fixturing systems.

Eco-fix is a modular fixturing system for coordinate measuring machines and form measuring machines. Car-fix consists of a combination of our line-up of RST profiles and vari-fix features adjustable columns which allow free and unrestricted workpiece orientation in any desired set-up position. opti-fix was especially developed for vision and optical measuring systems.

Mitutoyo fixtures set the industrial standard for repeatable and efficient fixturing. The powerful simplicity of our pallet receiver system facilitates the execution of more measurements per shift than any other brand – without impairing the accuracy.

Eco-fix and opti-fix components can be combined by using adapters, additionally increasing performance and flexibility.

Mitutoyo fixture systems are the result of our long-standing experience and constant enhancement in fixturing technology. This is our way to reward our customers' trust in Mitutoyo products.

Mitutoyo fixtures: For measurably better results.



MITUTOYO FIXTURES





Systematical Design, Colours for Improved Functionality

Mitutoyo fixture kits series "eco-fix" is a very fast and affordable solution to get workpieces clamped on the measuring machine. In just a few minutes, your fixture is ready for measurement. Therefore, eco-fix is a very attractive alternative to customised jigs.

The modular clamping system for CMM and form measuring machines, eco-fix, allows relaxed working in many ways. For the first time, functions and colours are conjoint in a practice-oriented concept for time-saving economical working and confusion- proof handling.

Systematical design, keeping an eye on the essential: eco-fix concentrates on accomplishing nearly every clamping task in a likewise cost-and performance optimising way. Applications in aerospace, automotive, electronics or medical industry are suited with a full solution. Logically assignable elements in an uncomplicated and user-friendly design build up on the base plate equipped only with threads.

The major advantage of eco-fix is that – in contrast to conventional solutions – no additional joints are required due to the state-of-the-art construction. These are the ideas that count in a daily job routine and make eco-fix noticeably better priced than similar systems – without saving on performance and versatility.

The results are systematic efficiency at compelling profitability and considerably reduced costs at enormous versatility.

Even optically eco-fix sets new highlights. The distinctive modern colouring of the eco-fix components is by far more than a styling feature. Due to the clear optical differentiation of the elements the clamping device is distinctly silhouetted against the workpiece to be measured – a decisive advantage for interactive documentation.

Clear optical differentiation of elements by colour

- Black: base plate
- Violet: brackets
- Orange: build up components
- Silver: Top pieces for workpiece support

Easy way to document your repeatable fixture set-up for reduced variation

- Parts numbers featured on all elements for easy identification of components
- Alpha numeric grid pattern on all base plates for simplified positioning and relocation of elements
- Fits all CMM brands
- Build your individual fixture in only 20 minutes!
- Flexible modular systems
- Fast & affordable
- Suitable for various different workpieces or other measuring equipment
- Easy adaption to product changes
- M6 thread pattern
- Purchase one kit for each workpiece



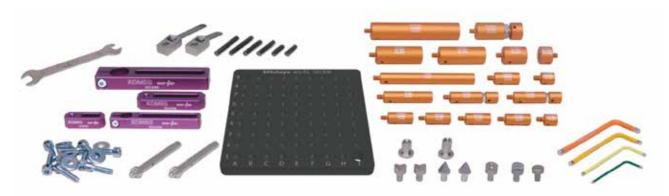


MITUTOYO eco-fix





eco-fix Kit XS



Part No. K551231

Part No.	Qty.	Part name
K551024	2	Location pin ø12x13; eco-fix
K551025	2	Location pin ø12x25; eco-fix
K551026	1	Location pin ø12x50; eco-fix
K551027	1	Location pin ø12x100; eco-fix
K551028	1	Location pin ø20x13; eco-fix
K551029	1	Location pin ø20x25; eco-fix
K551030	1	Location pin ø20x50; eco-fix
K551031	1	Location pin ø20x100; eco-fix
K551306	1	Base plate 125x125; eco-fix
K551035	1	Receiver bracket small eco-fix
K551036	1	Receiver bracket large eco-fix
K551040	1	Adjustable location pin ø20
K551041	2	Adjustable location pin ø12
K551042	3	Location pin ø 12 mm with bore 6 mm
K551044	1	Receiver bracket L = 90; ø 12 mm
K551045	1	Receiver bracket L = 120; ø 20 mm
K550716	2	Straight pin with thread, M6x75
K550279	1	Spring clip, ø 8 mm, L = 60 mm
K550554	1	Spring clip, ø 8 mm, L = 40 mm
K550262	2	V-block mini, ø12mm
K550261	2	Cone receiver mini, ø12mm
K550250	1	Stopper element mini, ø 6mm
K550247	1	Back square mini, ø 6mm
K551069	1	Flat top ø 12 mm
K551046	1	Slotted nut for receiver bracket h = 12 mm
K551047	1	Slotted nut for receiver bracket h = 15 mm
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
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
K550563	2	Cylinder head screw M6 x 25
K550110	6	Cylinder head screw M6 x 20
K550591	8	Washer ø 6.4 mm x ø 17 mm
	61	



eco-fix Kit S



Part No. K551048

Part No.	Qty.	Part name
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
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 ø 20 mm
K551041	1	Adjustable location pin ø 12 mm
K551042	3	Location pin ø 12 mm with bore 6 mm
K551044	1	Receiver bracket L = 90; ø 12 mm
K551045	1	Receiver bracket L = 120; ø 20 mm
K550716	2	Straight pin with thread
K550279	1	Spring clip, ø 8 mm, L = 60 mm
K550554	1	Spring clip, ø 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 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 = 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 SW10
K550591	8	Washer ø 6.4 mm x ø 17 mm
K550110	6	Cylinder head screw M6 x 20
K550563	2	Cylinder head screw M6 x 25
	59	



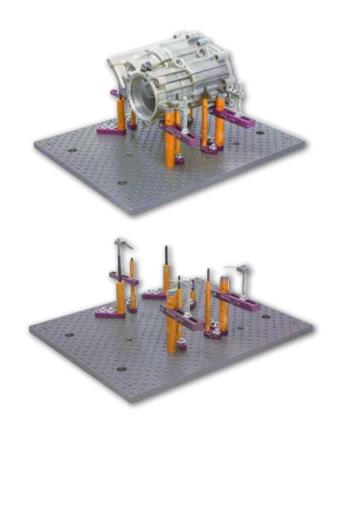


eco-fix Kit L



Part No. K551549

Part No.	Qty.	Part name
K551024	2	Location pin ø 12 mm x 13 mm
K551025	2	Location pin ø 12 mm x 25 mm
K551026	2	Location pin ø 12 mm x 50 mm
K551027	2	Location pin ø 12 mm x 100 mm
K551028	2	Location pin ø 20 mm x 13 mm
K551029	2	Location pin ø 20 mm x 25 mm
K551030	2	Location pin ø 20 mm x 50 mm
K551031	2	Location pin ø 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 ø 20 mm
K551041	2	Adjustable location pin ø 12 mm
K551042	3	Location pin ø 12 mm with bore 6 mm
K551043	3	Location pin ø 20 mm with bore 8 mm
K551044	1	Receiver bracket L = 90 mm, ø 12 mm
K551045	2	Receiver bracket L = 120 mm, ø 20 mm
K550716	3	Straight pin with thread
K550279	2	Spring clip, ø 8 mm, L = 60 mm
K550554	1	Spring clip, ø 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 K550982	1	Cone Receiver
K550982	1	Stopper element
		Back square
K550888 K550889	2	Straight pin ø 6 mm x 20 mm
K550899	2	Straight pin ø 6 mm x 30 mm Straight pin ø 6 mm x 40 mm
K550090	2	Straight pin ø 8 mm x 30 mm
K550001	2	Straight pin ø 8 mm x 50 mm
K550002	2	Straight pin ø 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
K551054	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
	98	

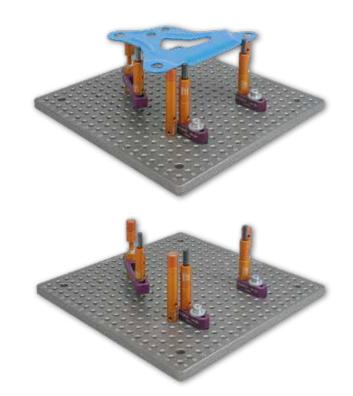


eco-fix Kit MAG-S



Part No. K551089

Part No.	Qty.	Part name
K551024	3	Location pin ø 12 mm x 13 mm
K551025	3	Location pin ø 12 mm x 25 mm
K551026	3	Location pin ø 12 mm x 50 mm
K551027	3	Location pin ø 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 ø 12 mm
K551042	3	Location pin ø 12 mm with bore 6 mm
K551044	2	Receiver bracket L = 90 mm; ø 12 mm
K550889	3	Straight pin ø 6 mm x 30 mm
K551073	3	Magnetic receiver ø 20 mm
K550890	3	Straight pin ø 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
	70	



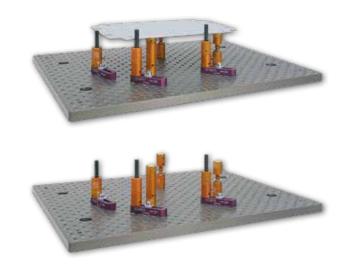


eco-fix Kit MAG-L



Part No. K551590

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
	79	

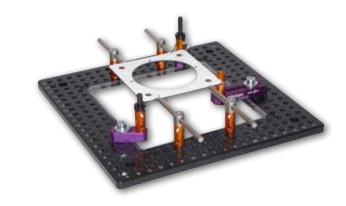


eco-set opti S



Part No. K551233

Part No.	Qty.	Part name
K551215	1	Base plate eco- and opti-fix for contour illumination, 250x250mm
K551036	1	Receiver bracket large; eco-fix
551035	2	Receiver bracketsmall eco-fix
K551026	2	Location pin ø12x50; eco-fix
K551025	2	Location pin ø12x25; eco-fix
K551024	2	Location pin ø12x13; eco-fix
K551042	6	Location pin ø12 m. Passb. ø6
K551041	1	Adjustable location pin ø12
K551189	4	Adaptor eco/opti ø6mm
K550302	2	Receiver pin stepped L = 80 mm
K550303	2	Receiver pin stepped L = 100 mm
K550990	1	Rectangular receiver pin L = 50 mm
K550323	2	Rectangular receiver pin L = 25 mm
K550971	1	Prismatic receiver / locator
K550972	1	Prismatic eccentric receiver
K550970	1	Eccentric receiver
K550980	2	Spring clip large 30°
K550889	1	Straight pin 6 x 30 mm
K550890	2	Straight pin ø 6 mm x 40mm
K551053	1	Allen key 2 mm
K551050	1	Allen key 5 mm
K551054	1	Double open-ended spanner 10-17
K550563	3	Cylinder head screw M6 x 25
K550591	3	Washer ø 6.4 mm x ø 17 mm
	45	







eco-fix Kit quick S



Part No. K551302

Part No.	Qty.	Part name
K551034	1	Base plate 250x250; eco-fix
K551303	3	Joint stand eco-fix S20
K551227	3	Receiving bracket for joint stand
K551043	3	Receiver bolt ø20 m. Passb. Ø8;
K551228	1	Clamping thimble, KT1 Alu, M6
K550716	2	Cylinder pin with thread, M6x75
K550279	2	Springclip without ball ø8x60
K551229	1	Double open ended wrench 7-8mm
K551032	2	Clamping jaw 10, 15; eco-fix
K551070	2	Flat top ø 20 mm x 22 mm
K550982	1	Stopper element ø 20





eco-fix Kit quick-rail



Part No. K550914S

Part No.	Qty.	Part name
K550911	1	Clamping profile rail 800 mm
K550199	2	Clamping profile rail with slot 500 mm
K550908	2	Clamping claw
K550909	2	Corner connector
K550907	3	Clamping plate
K551040	3	Adjustable Location pin ø 20 mm
K551043	3	Location pin ø 20 mm with bore 8 mm
K551030	2	Location pin ø 20 mm x 50 mm
K551029	3	Location pin ø 20 mm x 25 mm
K550279	1	Spring clip, ø 8 mm, L = 60 mm
K550554	1	Spring clip, ø 8 mm, L = 40 mm
K550042	1	Back square 30 mm x 30 mm
K550249	1	Stopper element 30 mm x 25 mm
K550248	1	Back square ø 20 mm
K550982	1	Stopper element ø 20 mm
K551070	1	Flat top ø 20 mm
K550716	1	Straight pin with thread
K551054	1	Double open-ended spanner SW 10/17
K550658	1	Hexagon spanner with t-handle
	31	



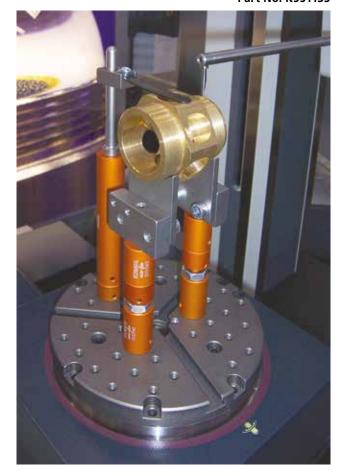


eco-fix Kit Form S



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
	53	



eco-fix Kit Form L



Part No. K551134

Part No.	Qty.	Part name
K551039	1	Adaptor plate ø 200 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	2	Location pin ø 12 mm X 100 mm
K551028	2	Location pin ø 20 mm X 13 mm
K551029	2	Location pin ø 20 mm X 25 mm
K551030	2	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	2	Adjustable location pin ø 20 mm
K551041	1	Adjustable location pin ø 12 mm
K551042	2	Location pin ø 12 mm with bore ø 6 mm
K551043	3	Location pin ø 20 mm with bore ø 8 mm
K551044	1	Receiver bracket L=90; ø 12 mm
K551045	1	Receiver bracket L=120; ø 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 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
K550000	2	Straight pin Ø 8 mm x 30 mm
K550001	2	Straight pin Ø 8 mm x 50 mm
K550002	2	Straight pin Ø 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 ø 6.4 mm / ø 17 mm
K550110	12	Cylinder head screw M6 x 20 mm
K550563	6	Cylinder head screw M6 x 25 mm
	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
	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
	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
	6	

Magnet 1

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





Part No. K551123

Part No. K551124

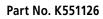
Location pins 1

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

Location pins 2

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







Part No. K551127

Supporting elements 1

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

Supporting elements 2

D 4 M	04	D
Part No.	Qty.	Part name
K551070	3	Flat top ø 20 mm
K550982	3	Stopper element ø 20 mm
K550248	2	Back square ø 20 mm
K550058	2	V-block ø 20 mm
K551072	5	Sphere top ø 20 mm
K550365	2	Cone receiver ø 20 mm
	17	



Extension sets





Part No. K551125

Part No. K551128

Clamping elements 1

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

Straight pins

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













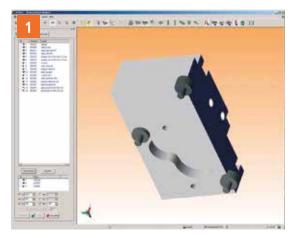
FixtureBuilder Software

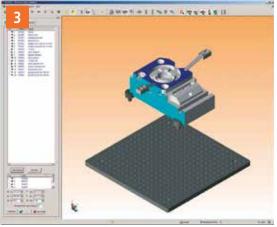
The free of charge software FixtureBuilder enables the user to easily plan and set up his CMM fixture in just a few minutes. Repeatable fixturing has never been easier and at a better price performance ratio.

"FixtureBuilder" is a software tool that allows users to create virtual clamping fixtures quickly and easily. Users can choose whether to set the virtual fixture up manually or to allow the software's "AutoMode" to perform the task.

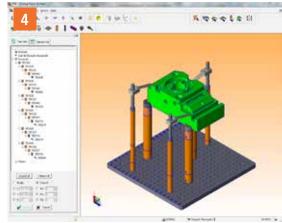
The interactive "AutoMode" operating mode guides the user step by to step to a finalized clamping fixture. Only very few data need to be input, for example the choice of component to be clamped or the position and type of contact and tensioning points. This data is sufficient to enable FixtureBuilder to independently create a complete clamping fixture.

- Fixture building by mouse click
- Ideal for online programming
- Parts list with material overview
- Documented structure
- Automatic weight determination
- allows data to be imported in Acis (*.sat), Iges (*.igs) and Step (*.stp) formats



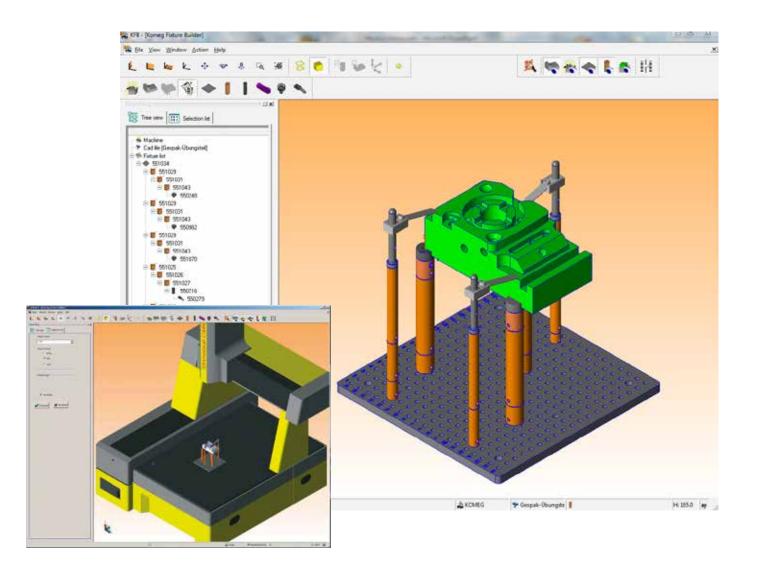






FixtureBuilder software allows data to be imported in Acis (*.sat), Iges (*.igs) and Step (*.stp) formats The export functions it offers include Hoops file (*.hsf), Autodesk (*.dwf), 3d PDF (*.pdf) and Acis Files (*.sat). Integrated into Mitutoyo's MCOSMOS CMM software, FixtureBuilder allows data to be processed in all MCOSMOS import formats. The fixture design can be imported into the measuring software, either on its own or complete with component, and thus be used for offline programming of the coordinate measuring machine.

A parts list with assembly instructions is available in various output formats for the assembly of the real fixture created in FixtureBuilder. The 3-D function in PDF format is especially practical as it allows limitless variations on the view of the fixture model in the PDF document. The virtual design can therefore be examined from all possible views and positions.





Special base plates for Mitutoyo CMM

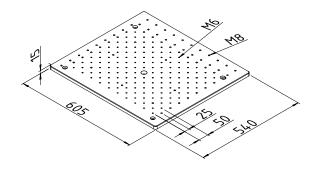
The base plates provide multiple possibilities for fixing fixtures and accessories or even the direct construction of jigs on the CMM.

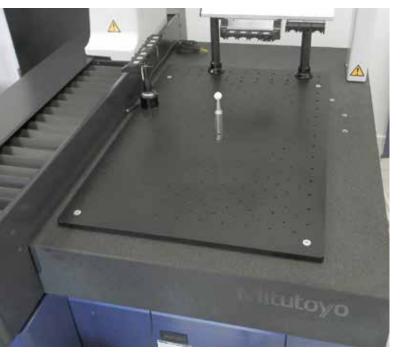
They are available in different sizes, in the layout specially adapted to the respective Mitutoyo CMM. Depending on the design, the base plates are supplied in 1 to 4 handy segments, which make mounting on the CMM much easier. The basic base plates are designed for direct mounting on the granite tables of the Mitutoyo CMMs. They are precision machined from a high quality aluminum alloy and provided with a surface finish that makes the base plates extremely durable.

They also protect the valuable granite base of the CMM. The base plates are equipped with fixing threads M6 in a 25mm / 50mm grid to directly position and build up fixtures for e.g. with the elements from the Mitutoyo clamping system eco-fix or also for fixing aids such as chucks, positioning angle or the like. In addition, threads M8 are used to attach CMM accessories such as Measuring balls or stylus rack which are located in the edge area on the base plates.

Part No.	Measuring range		Plate size	СММ	Number of
rait NO.	Х	Y	LxWxD	CIVIIVI	elements
K551186	500	400	570 x 540 x 15	CRYSTA-Apex S 544	1
K551187	500	700	605 x 840 x 15	CRYSTA-Apex S 574	1
K551190	700	700	830 x 840 x 15	CRYSTA-Apex S 776	2
K551191	700	1000	815 x 1140 x 15	CRYSTA-Apex S 7106	2
K551192	900	1000	970 x 1140 x 15	CRYSTA-Apex S 9106/9108	2
K551193	900	1600	970 x 1740 x 15	CRYSTA-Apex S 9166/9168	3
K551194	900	2000	970 x 2140 x 15	CRYSTA-Apex S 9206/9208	4
K515432			120 x 415 x 15	Fixing plate for MRS-400	1
K515433			100 x 730 x 15	Fixing plate for MRS-600	1

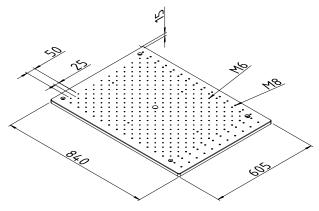
base plate K551186 for CMM CRYSTA-Apex S 544



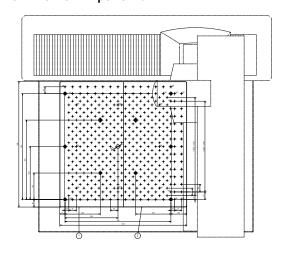


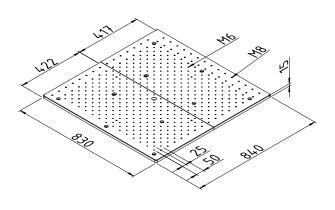
K551187 mounted on CRYSTA-APEX S 574

base plate K551187 for CMM CRYSTA-Apex S 574

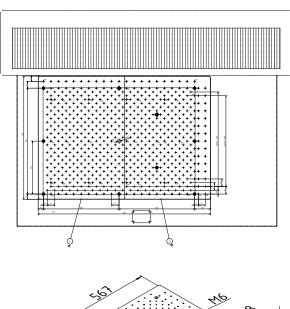


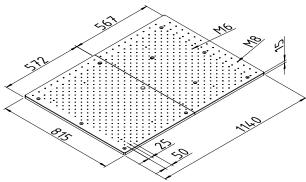
base plate K551190 for CMM CRYSTA-Apex S776

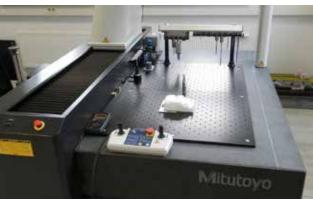


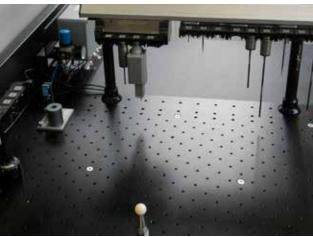


base plate K551191 for CMM CRYSTA-Apex S 7106



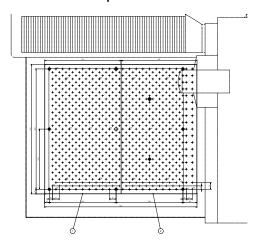




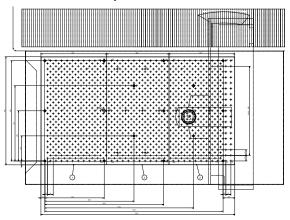


Mitutoyo

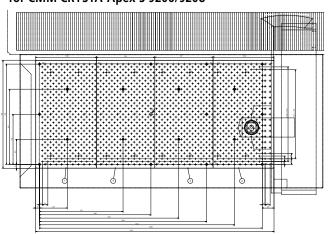
base plate K551192 for CMM CRYSTA-Apex S 9106/9108

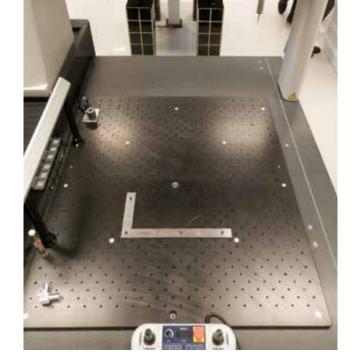


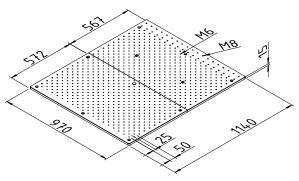
base plate K551193 for CMM CRYSTA-Apex S 9166/9168

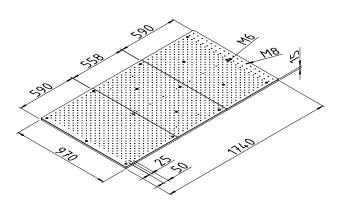


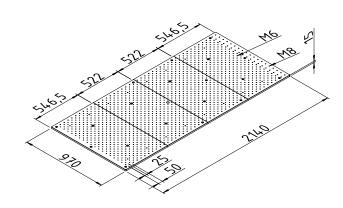
base plate K551194 for CMM CRYSTA-Apex S 9206/9208











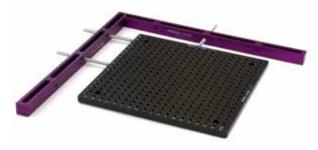


eco-fix rail KIT S



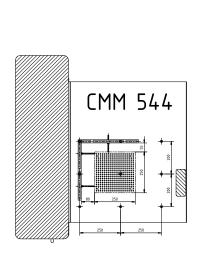
Part No. K551197

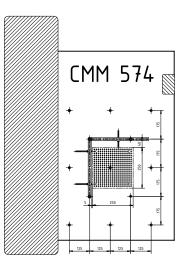
Part No.	Qty.	Part name	
K551196	2	eco-fix positioning rail L=370mm	
K580709	3	Threaded spindle M6	
K550122	3	Flat washer D= 6,4	
K900868	4	Washer	
K550562	3	Hexnut M6	
K904397	4	Lens head screw Din ULS HLG	

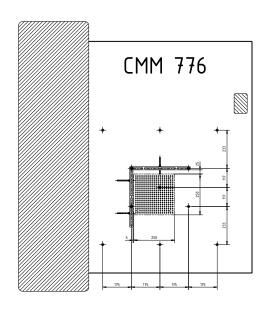


Base plate not included in scope of delivery

The simplest way to positioning and holding fixtures on the CMM, fits for nearly all CMM on the market!







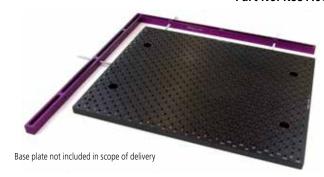
Mitutoyo

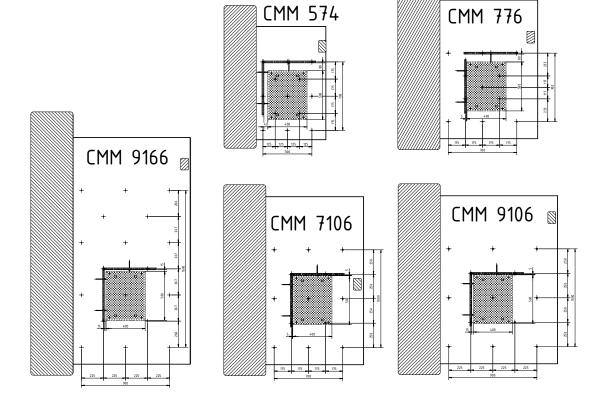
eco-fix rail KIT L



Part No. K551198

Part No.	Qty.	Part name
K551195	2	eco-fix positioning rail L=550mm
K580709	3	Threaded spindle M6
K550122	3	Flat washer D= 6,4
K900868	4	Washer
K550562	3	Hexnut M6
K904397	4	Lens head screw Din ULS HLG









Mitutoyo pallet receiver system

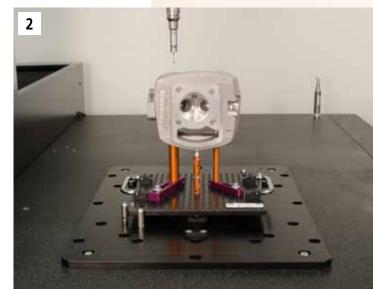
The sophisticated new Mitutoyo manual pallet receiver system significantly speeds up measuring on coordinate measuring machines as well as on form and vision measuring devices. Workpieces can be exchanged rapidly with the new system.

The pallet system comprises the tried and tested Mitutoyo eco-fix system, a base plate with two handles and three semi-spheres on the bottom. The latter help the measuring staff with quickly and precisely positioning the pallet on the receiver frame fixed to the measuring machine – in just one step. This way, fine-adjusting of the position is a thing of the past.

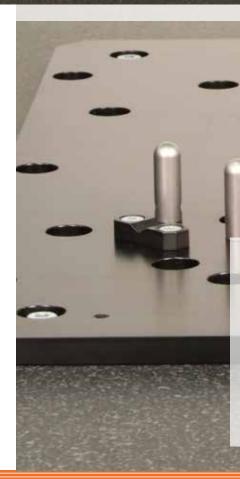
During the measuring process another workpiece can be positioned on a second, identically equipped pallet and placed on the machine as soon as the first workpiece has been measured. This not only guarantees very quick measurement and – as a consequence – a high workpiece throughput but also top process safety.

The new pallet receiver system even facilitates semi-automatic serial measurements if combined with a barcode that identifies the workpiece and starts the corresponding measurement program. This makes work for the measurement staff extremely easy: place the pallet onto the measuring machine and scan the barcode for initiating the measuring process. This renders long clicking through menus and folders for starting the measuring unnecessary.

Mitutoyo offers a rack system that can hold up to six pallets that can be placed close to the CMM. It will hold the Fixtures prepared for the next measurement. For perfect tidiness in the measuring room and stowing away pallets that are currently not in use Mitutoyo offers customized racks system that can hold all of your fixture pallets, even when equipped with fixtures and workpieces That way, you can build up a fixture archive for all your parts with a repetitive measurement schedule.



1



MITUTOYO pallet receiver system





eco-fix pallet receiver Kit S

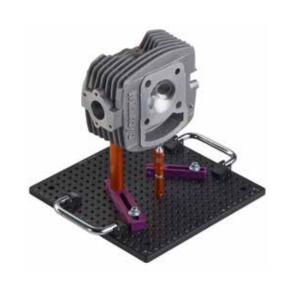


Part No. K551218

Part No.	Qty.	Part name	
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	
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 ø 20 mm	
K551041	1	Adjustable location pin ø 12 mm	
K551042	3	Location pin ø 12 mm with bore 6 mm	
K551044	1	Receiver bracket L = 90; ø 12 mm	
K551045	1	Receiver bracket L = 120; ø 20 mm	
K550716	2	Straight pin with thread	
K550279	1	Spring clip, ø 8 mm, L = 60 mm	
K550554	1	Spring clip, ø 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 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 = 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 SW10	
K550591	8	Washer ø 6.4 mm x ø 17 mm	
K550110	6	Cylinder head screw M6 x 20	
K550563	2	Cylinder head screw M6 x 25	
	59		

Part No.	Qty.	Part name
K551220	1	Loading receiver plate for manual eco-fix loading system
K551221	3	Ballscrew ø10
K551199	1	Pair of handles for Eco-fix base plates





eco-fix pallet receiver Kit L

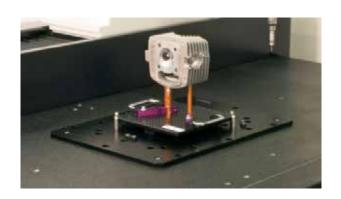


Part No. K551219

Part No.	Qty.	Part name
K551024	2	Location pin ø 12 mm x 13 mm
K551025	2	Location pin ø 12 mm x 25 mm
K551026	2	Location pin ø 12 mm x 50 mm
K551027	2	Location pin ø 12 mm x 100 mm
K551028	2	Location pin ø 20 mm x 13 mm
K551029	2	Location pin ø 20 mm x 25 mm
K551030	2	Location pin ø 20 mm x 50 mm
K551031	2	Location pin ø 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 ø 20 mm
K551040	2	Adjustable location pin Ø 20 mm
K551041	3	Location pin ø 12 mm with bore 6 mm
K551042	3	Location pin Ø 20 mm with bore 8 mm
K551043	1	Receiver bracket L = 90 mm, ø 12 mm
K551044	2	Receiver bracket L = 30 mm, Ø 20 mm
K551045	3	Straight pin with thread
K550279	2	
K550554	1	Spring clip, ø 8 mm, L = 60 mm Spring clip, ø 8 mm, L = 40 mm
K550262	2	V-Block mini
K550261	2	Cone receiver mini
K550250	1	Stopper element mini
K550247	-	Back square mini
K550058	2	V-block
K550365	2	Cone Receiver
K550982	1	Stopper element
K550248	1	Back square
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
K550000	2	Straight pin ø 8 mm x 30 mm
K550001	2	Straight pin ø 8 mm x 50 mm
K550002	2	Straight pin ø 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
K551054	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

Part No.	Qty.	Part name
K551220	1	Loading receiver plate for manual eco-fix loading system
K551221	3	Ballscrew ø10
K551199	1	Pair of handles for Eco-fix base plates







Extension kits for pallet receiver





Part No. K551216

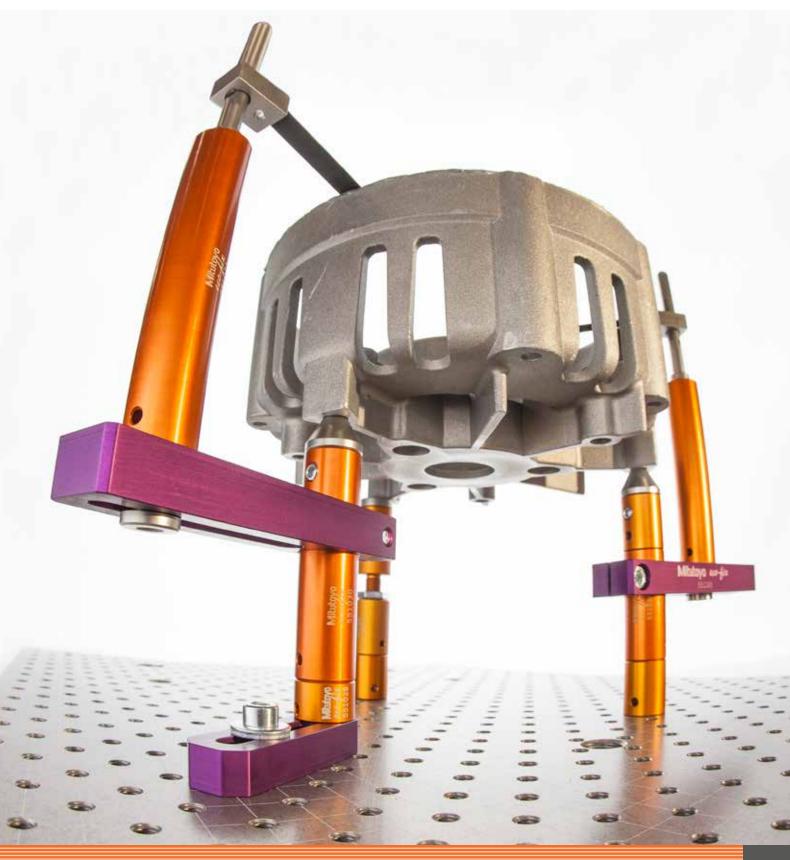
Part No. K551217

Set of handles for Eco-fix base plates and Ballscrew

Part No.	Qty.	Part name
K551199	1	Pair of handles for Eco-fix base plates
K551221	1	Ballscrew set (3pcs.) for manual eco-fix loading system
	2	

Loading receiver plate set for manual eco-fix loading system

Part No.	Qty.	Part name
K551220	1	Loading receiver plate for manual eco-fix loading system
K551199	1	Pair of handles for Eco-fix base plates
K551221	1	Ballscrew set (3pcs.) for manual eco-fix loading system
	3	



Mitutoyo

Racks











Rack for six pallets includes fixing materials

Part No. K543812

Extension kit from two to four pallets



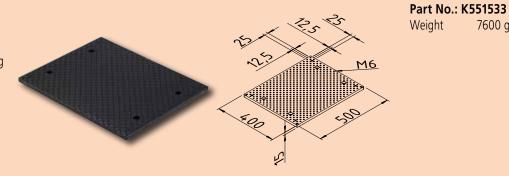




System Components

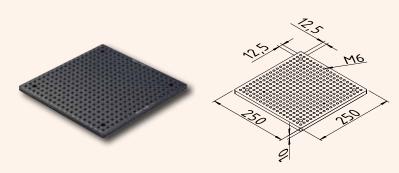
Base plate eco-fix 500 mm x 400 mm

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



Base plate eco-fix 250 mm x 250 mm

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



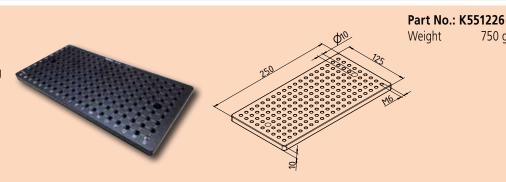
Part No.: K551034 Weight 1500 g

750 g

7600 g

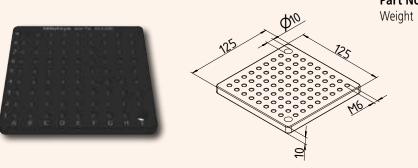
Base plate eco-fix 250 mm x 125 mm

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



Base plate eco-fix 125 mm x 125 mm

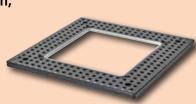
Made of hard-anodised aluminium, with connecting thread M6, grid distance 12.5 mm

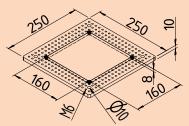


Part No.: K551306 375 g

Base plate eco- and opti-fix for contour illumination, 250x250mm

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



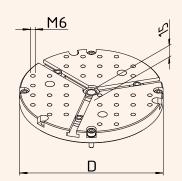


Part No.: K551215Weight 1120 g

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

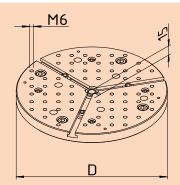
Adaptor plate 150 mm for Mitutoyo turn-tables RA114/6 and RA1500

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

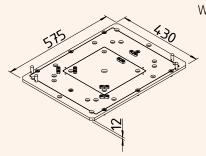
Adaptor plate 200 mm for Mitutoyo turn-tables 12AAD975 and RA2000DS/DH

Weight 1300 g

Loading receiver plate for manual eco-fix loading system

With pallet positioning brackets



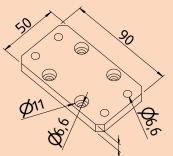


Part No.: K551220 Weight 8070 g



Adapter plate Made of hard-anodised aluminium, adapter plate to eco-fix base plates and RST-Profile for build up column



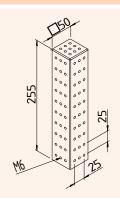


Part No.: K551213 Weight 110 g

Build up column 255mm

Made of hard-anodised aluminium, with connecting threads M6

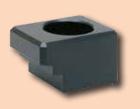


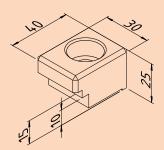


Part No.: K551212 1600 g Weight

Clamping claw eco-fixFor fixing of base plates on

the measuring table





Part No.: K551032 Weight 27 g

Ballscrew set (3pcs.) for manual eco-fix loading system

Positionting spheres with connecting thread M6



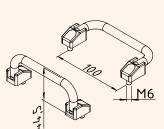


Part No.: K551221Weight 30 g

Pair of handles for Eco-fix base plates

Handles with connecting screws and screw covers



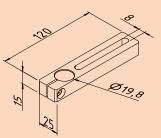


Part No.: K551199Weight 300 g

Receiving bracket L = 120 mm, ø 20 mm

For mounting on location pins, to reach any position, e.g. for positioning of clamping elements directly on receiving points



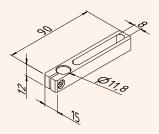


Part No.: K551045Weight 88 g

Receiving bracket L = 90 mm, ø 12 mm

For mounting on location pins, to reach any position, e.g. for positioning of clamping elements directly on receiving points





Part No.: K551044 Weight 26 g



Receiver bracket large

To reach any receiving position between the connecting threads

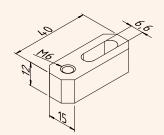


Part No.: K551036Weight 34 g

Receiver bracket small

To reach any receiving position between the connecting threads



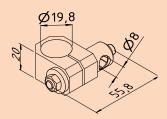


Part No.: K551035Weight 14 g

Joint eco-fix ø 20 mm

Joint for connecting dial gauges and indicators



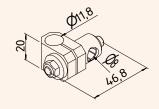


Part No.: K551203Weight 60 g

Joint eco-fix ø 12 mm

Joint for connecting dial gauges and indicators



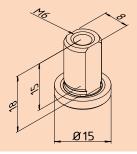


Part No.: K551204Weight 60 g

Slotted nut h = 15 mm

Appropriate with receiving bracket 551045, for mounting e.g. location pins on the receiving bracket, to reach any position in space, e.g. for positioning of clamping elements directly on receiving points



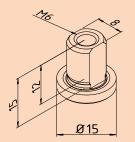


Part No.: K551047Weight 9 g

Slotted nut h = 12 mm

Appropriate with receiving bracket 551044, for mounting e.g. location pins on the receiving bracket, to reach any position in space, e.g. for positioning of clamping elements directly on receiving points



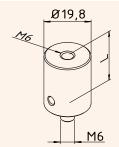


Part No.: K551046Weight 8 g

Location pin ø 20 mm

For the adjustment of the required height of the fixture



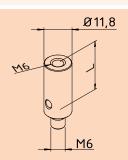


Part No.: K551028 L = 13 mm K551029 L = 25 mm K551030 L = 50 mm K551031 L = 100 mm Weight 19 g Weight 39 g Weight 83 g

Location pin ø 12 mm

For the adjustment of the required height of the fixture



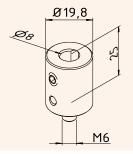


Part No.: K551024 L = 13 mmK551025 L = 25 mmL = 50 mmK551026 **K551027** L = 100 mm Weight 3 g Weight 6 g Weight 13 g Weight 27 g

Location pin ø 20 mm

With bore ø 8 mm for connecting of elements with 6 mm connecting pin



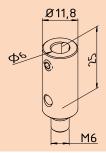


Part No.: K551043Weight 19 g

Location pin ø 12 mm

With bore ø 6 mm for connecting of elements with 6 mm connecting pin





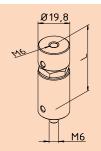
Part No.: K551042Weight 7 g



Adjustable location pin ø 20 mm

For the adjustment of the required height of receiving positions



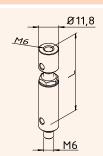


Part No.: K551040Weight 44 g

Adjustable location pin ø 12 mm

For the adjustment of the required height of receiving positions



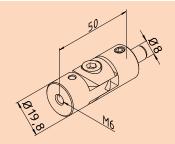


Part No.: K551041Weight 15 g

Turn-swivel joint ø 20 mm

To reach any position in space



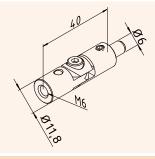


Part No.: K551076Weight 49 g

Turn-swivel joint ø 12 mm

To create free positions in space



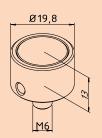


Part No.: K551075Weight 15 g

Magnetic receiver ø 20 mm

For quick and easy clamping of workpieces



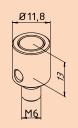


Part No.: K551074Weight 15 g

Magnetic receiver ø 12 mm

For quick and easy clamping of workpieces



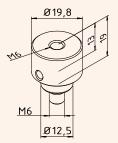


Part No.: K551073Weight 5 g

Adaptor pin eco-repro ø 20 mm

For connecting the eco-fix systems on repro-fix base plates or profiles



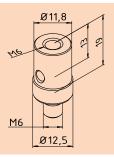


Part No.: K551067 Stainless steel Weight 35 g

Adaptor pin eco-repro ø 12 mm

For connecting the eco-fix systems on repro-fix base plates or profiles



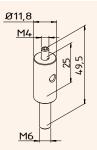


Part No.: K551066 Stainless steel Weight 20 g

Adaption eco- to repro-fix ø 12 mm

For connecting the eco-fix components on repro-fix base plates or profiles





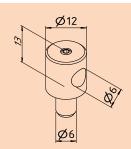
Part No.: K551211Weight 15 g



Adaption eco- to opti-fix Ø6mm

For connecting the eco-fix components to opti-fix components



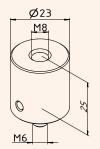


Part No.: K551189Weight 15 g

Adapting bolt for master ball

For connecting master ball to eco-fix base plates



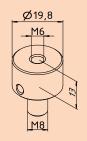


Part No.: K551153Weight 76 g

Adapting bolt M6 M8

For connectingeco-fix components to M8 threads



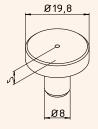


Part No.: K551065Weight 30 g

Flat top ø 20 mm

For direct workpiece support



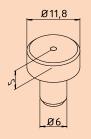


Part No.: K551070 Stainless steel Weight 17 g

Flat top ø 12 mm

For direct workpiece support

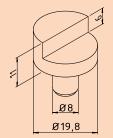




Part No.: K551069 Stainless steel Weight 6 g

Stopper elementFor receiving a workpiece in a defined position



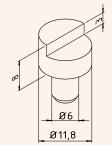


Part No.: K550982 Weight 25 g

Stopper element mini

For receiving a workpiece in a defined position



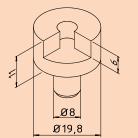


Part No.: K550250 Weight 8 g

Back square

For receiving a workpiece in a defined position in XYZ



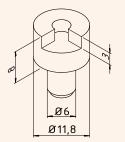


Part No.: K550248 Weight 27 g

Back square mini

For receiving a workpiece in a defined position in XYZ



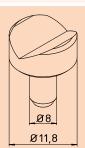


Part No.: K550247 Weight 8 g

V-block

For receiving of e.g. rotationally symmetrical parts in a defined position





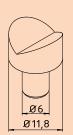
Part No.: K550058 Weight 24 g



V-block mini

For receiving of e.g. rotationally symmetrical parts in a defined position



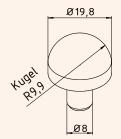


Part No.: K550262Weight 7 g

Sphere top ø 20 mm

For direct workpiece support on non regular surfaces



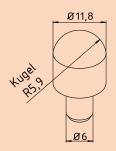


Part No.: K551072 Stainless steel Weight 28 g

Sphere top ø 12 mm

For direct workpiece support on non regular surfaces



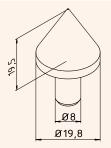


Part No.: K551071 Stainless steel Weight 11 g

Cone receiver

For receiving parts in bores or centerings etc.



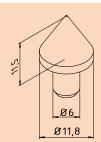


Part No.: K550365Weight 26 g

Cone receiver mini

For receiving parts in bores or or centerings etc.



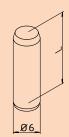


Part No.: K550261Weight 6 g

Straight pin mini

As stopper element





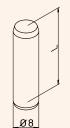
Part No.: K550888

K550888 L = 20 mm **K550889** L = 30 mm **K550890** L = 40 mm Weight 4 g Weight 7 g Weight 12 g

Straight pin

As stopper element





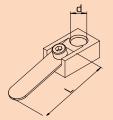
Part No.:

K550000 L = 30 mm **K550001** L = 50 mm **K550002** L = 65 mm **K550003** L = 85 mm Weight 12 g Weight 19 g Weight 25 g Weight 30 q

Spring clip

For simple and quick clamping of parts





Part No.:

Weight

 K550554
 d = 8 mm
 L = 40 mm

 K550279
 d = 8 mm
 L = 60 mm

 K550278
 d = 6 mm
 L = 40 mm

 K550292
 d = 6 mm
 L = 60 mm

 Weight
 25 g

 Weight
 27 g

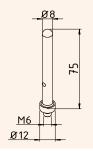
 Weight
 27 g

29 g

Straight pin with thread

For receiving of spring clip, d = 8 mm, directly on base plates or assembly elements





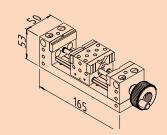
Part No.: K550716

Weight 32 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

Mitutoyo car-fix

The Mitutoyo car-fix series comprises of two flexible and freely combinable systems in their own right:

vari-fix

The novel clamping system vari-fix is bringing in three standard models with adjustment heights of the columns of 375 - 575 mm, 500 - 825 mm and 625 - 1075 mm. The system can also be customised to different adjustment heights on request.

The bases of the entire device are top-frame profile rails that can be mounted directly on the measuring table of the coordinate measuring machine. Alternatively, the S-profile from Mitutoyo can be used, or the pillars with base plates can be mounted on the CMM table. Mitutoyo vari-fix allows free and unrestricted orientation of the workpiece in any desired pick-up position. The workpiece is being fastened to any of a number of columns arranged along base rails. The individual columns are height-adjustable, and a swivel joint at the upper end serves as a pick up element for the workpiece. The joint allows 360 degrees of rotation about the axis of the column and has a swivel range of +/- 90 degrees. The positioning can be finely adjusted along the X-, Y- and Z-axes by +/- 2.5 millimetres. Thanks to the extremely flexible combination of rotation and tilt, any spatial angle can be achieved.

RST-profile

For the first time the new RST-profile from Mitutoyo combines in one profile the advantages of three different kind of profiles for fixture construction.

Dovetail profile

 Flexible repositioning with slider elements for rapid and cost effective changes of fixture points.

Grid profile

Benefit from a fixed 50mm positioning grid for the reproducible addition of features.

T-nut profile

- Additions can de added and freely positioned in the t-nu profile
- Can be combined with all kinds of profiles and add-on parts, even from third parties.

The matt-black surface suppresses reflections, which is especially advantageous for optical measuring systems. All these features of the RST profile contribute to the minimisation of material provision in modular fixture construction, which significantly reduces the costs for storage and shortens assembly times. RST-profiles are compatible with the tried & tested Mitutoyo profiles and are ideal for combining with the vari-fix clamping columns.





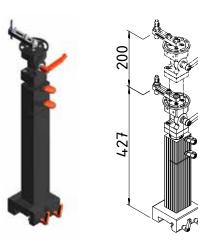
MITUTOYO CAR-FIX





Mitutoyo vari-fix adjustable columns

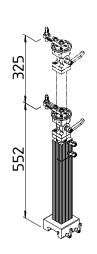
Adjustable build up column vari-fix S (375-575mm Part No. K542241



Weight 4200 g adjustable length 375mm - 575mm range 200mm

Adjustable build up column vari-fix M (500-825mm) Part No. K542242

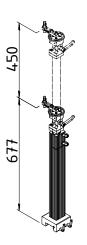




Weight 5000 g adjustable length 500mm - 825mm range 325mm

Adjustable build up column vari-fix L (625-1075mm)
Part No. K542243





Weight 5800 g adjustable length 625mm - 1075mm range 450mm

vari-fix always is custom made, tailored to the needs of the customer! Accessories and various versions available on request.

Mitutoyo RST





Part No. K551177

Mitutoyo RST-profile

Code No.	Name	length L	weight g	info
K551107	RST-profile	200mm	780	anodized black
K551108	RST-profile	250mm	970	anodized black
K551109	RST-profile	400mm	1550	anodized black
K551110	RST-profile	500mm	1940	anodized black
K551111	RST-profile	750mm	2910	anodized black
K551112	RST-profile	1000mm	3880	anodized black
K551113	RST-profile	1250mm	4850	anodized black
K551155	RST-profile	1500mm	5990	anodized black
K551156	RST-profile	2000mm	7990	anodized black
K551114	RST-profile	2500mm	9690	anodized black

Mitutoyo RST-profile frame

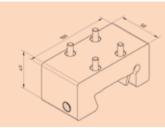
Code No.	Name	length L	weight g	info
K551176	RST-profile	250mm	970	anodized black
K551177	RST-profile	500mm	1940	anodized black
K551178	RST-profile	750mm	2910	anodized black
K551179	RST-profile	1000mm	3880	anodized black
K551180	RST-profile	1250mm	4850	anodized black
K551181	RST-profile	1500mm	5990	anodized black
K551182	RST-profile	2000mm	7990	anodized black
K551185	RST-profile	2500mm	10990	anodized black

SYSTEM COMPONENTS

Slider element for profile connection RST

and screw



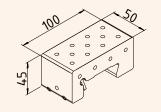


Part No.: K551117Weight 490 g

Slider element M6

anodized black



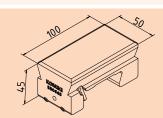


Part No.: K550957 Weight 450g

Slider element dovetail

anodized black





Part No.: K550645 Weight 445g



Connector set RST-profile anodized black

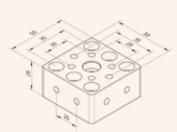




Part No.: K551118Weight 490 g

Terminator 50 RST anodized black

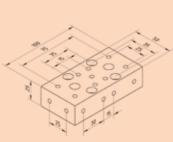




Part No.: K551119 Weight 130 g

Terminator 100 RST anodized black

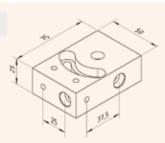




Part No.: K551120Weight 290 g

Swivel plate RST anodized black

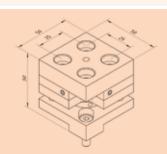




Part No.: K551121Weight 200 g

Adjustment element RST XYZ anodized black





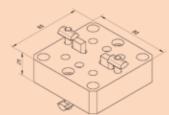
Part No.: K551122Weight 290 g

SYSTEM COMPONENTS ON ENTS

Cross connector RST

anodized black

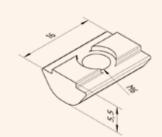




Part No.: K551157Weight 460 g

T-slot nut M6



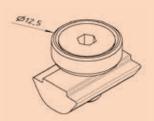


Part No.: K551158Weight 5 g

Distance piece RST-profile coplete with T-slot

nut and screw





Part No.: K551116Weight 10 g

Positioning pin RST





Part No.: K551136Weight 5 g

End cover RST-profile

plastics black





Part No.: K551115Weight 10 g

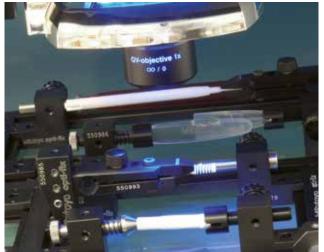


Mitutoyo opti-fix

The modular clamping system opti-fix has been developed especially for optical coordinate measuring systems.

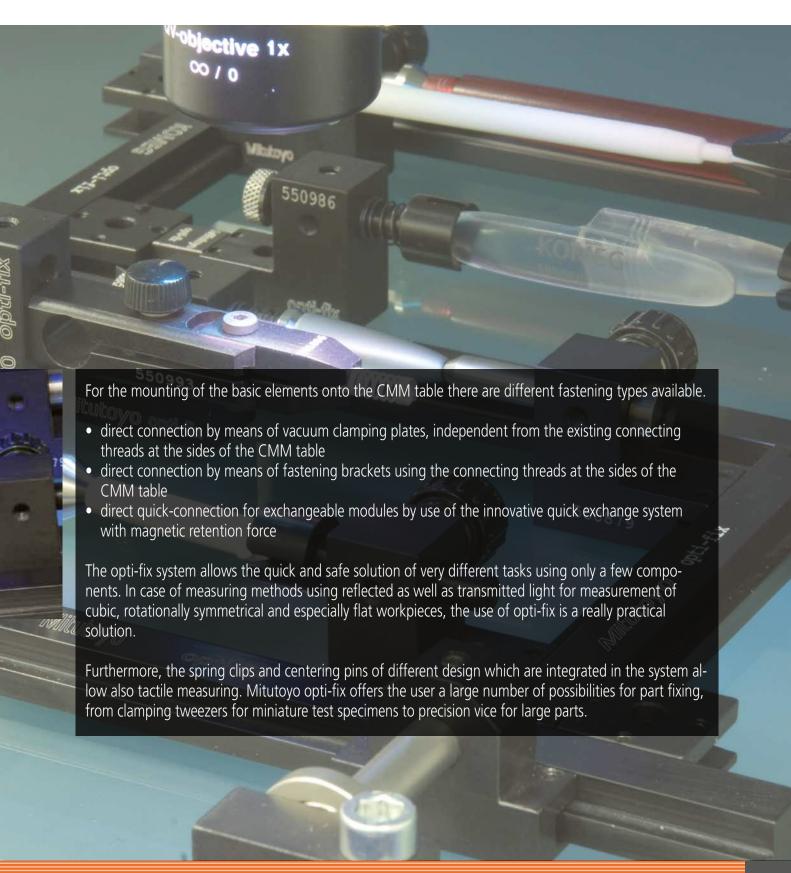
"Mitutoyo opti-fix" guarantees safe part fixture during measurement and consequently, ensures a permanent error-free transfer of measured values. This functional configuration makes also series measurements considerably easier.

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





MITUTOYO OPTI-FIX





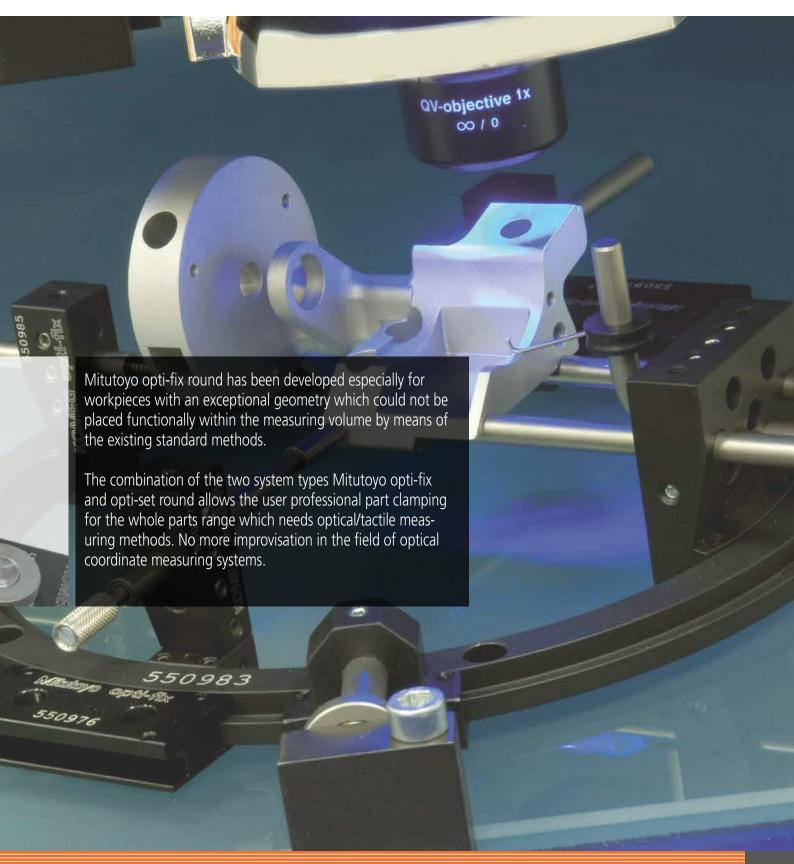
Mitutoyo opti-fix round

The innovative, newly developed Mitutoyo tool "Mitutoyo 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 a user-friendly access to the workpiece.



MITUTOYO OPTI-FIX ROUND





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
	16	

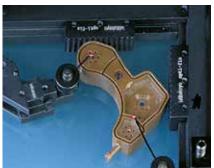


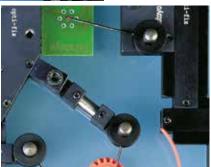
Kit opti-set Basic



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
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
	26	







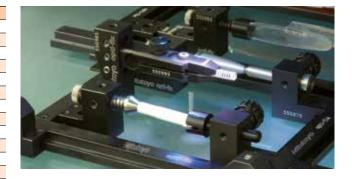
Kit opti-set Rotation



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
	23	





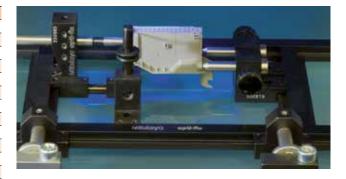
Kit opti-set Advanced



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
	51	





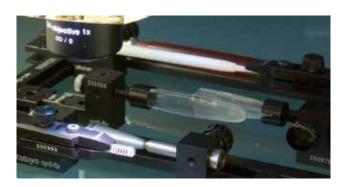
Kit opti-set Professional



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.



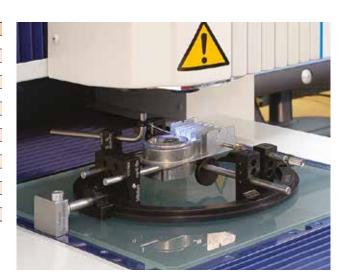
Part No.	Qty.	Part name
K550210	2	Clamping profile rail; L = 400 mm
K550836	4	Clamping profile rail; L = 250 mm
K550842	8	Connector with connector grooves
K550838	2	Clamping profile rail; L = 100 mm
K550985	2	Clamping block GK
K550984	2	Clamping block GG
K550213	2	Clamping block GKD, rotatable
K550165	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	Striaght pin 6 x 20 mm
K550889	4	Striaght pin 6 x 30 mm
K550890	4	Striaght 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
	115	

Kit opti-set Round



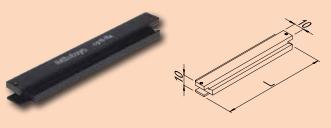
Kit consisting of 18 parts, with locating and clamping elements, incl. adaptor plates for adaptation to e.g. basic frame of the rail rail system Mitutoyo opti-fix. Fastening brackets, vacuum plates or magnetic holders for mounting the clamping system on the measuring machine, please order separately.

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
	18	



Clamping profile rail

With front connector groove for construction of basic frames



Part No.:

K550838 L = 100 mm

K550859 L = 200 mm

K550835 L = 240 mm

K550836 L = 250 mm

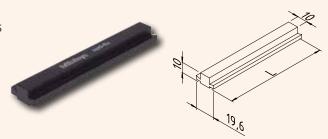
K550991 L = 400 mm

K550920 L = 500 mm

Further lengths available on demand

Clamping profile rail

For construction of basic frames



Part No.:

K550861 L = 100 mm

K550857 L = 200 mm

K550854 L = 250 mm

K550210 L = 400 mm

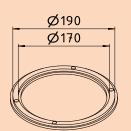
K550992 L = 500 mm

Further lengths available on demand

Basic circular clamping profile "opti-round"

As base for receiving elements of "opti-round" type





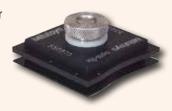
Part No.: K550983

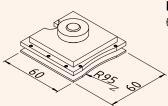
Da = 190 mm

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





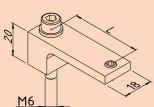
Part No.: K550975

60 mm x 60 mm

Fastening bracket

For mounting of basic profiles or frames on measuring devices





Part No.:

K550886 20 mm - 22 mm

K550860 24 mm - 26 mm

K550185 33 mm - 35 mm

K550881 36 mm - 38 mm **K550882** 39 mm - 41 mm

K550884 44 mm - 49 mm

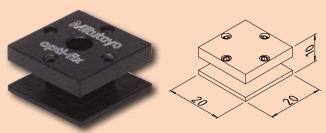
K550883 62 mm - 67 mm

K550885 82 mm - 87 mm

Further types available on demand

Connector with connector grooves

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

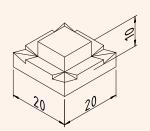


Part No.: K550842 20 mm x 20 mm

Connector with dovetail connector

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



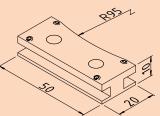


Part No.: K550841 20 mm x 20 mm

Adaptor plate

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



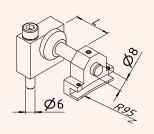


Part No.: K550976 50 mm x 20 mm x 10 mm

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.



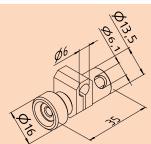


Part No.: K550989 M6 L = 7.5 mm - 25 mm Further lengths on demand

Clamping knuckle

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





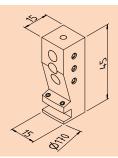
Part No.: K551083



Clamping block RK opti-round

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



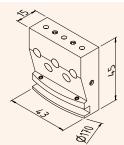


Part No.: K550969 15 mm x 15 mm x 45 mm

Clamping block RG opti-round

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



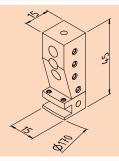


Part No.: K550968 45 mm x 15 mm x 45 mm

Clamping block RKD rotatable opti-round

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



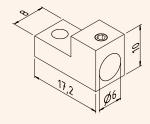


Part No.: K550977 15 mm x 15 mm x 45 mm

Telescope fixture slider

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



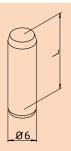


Part No.: K550839 17 mm x 8 mm x 10 mm

Straight pin ø 6 mm

As connecting element for telescope fixture





Part No.:

K550887 L = 10 mm

K550888 L = 20 mm

K550889 L = 30 mm

K550890 L = 40 mm

Clamping block GK

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

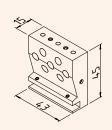


Part No.: K550985 15 mm x 15 mm x 45 mm

Clamping block GG

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



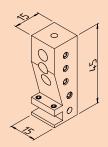


Part No.: K550984 45 mm x 15 mm x 45 mm

Clamping block GKD rotatable

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



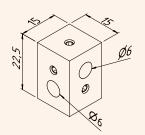


Part No.: K550213 15 mm x 15 mm x 45 mm

Holder 90°

e.g. for attaching a spring clip directly to a workpiece support



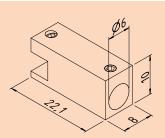


Part No.: K55118322 mm x 15 mm x 15 mm
D1= 6 mm

Telescope fixture end piece

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

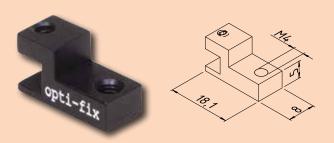




Part No.: K550852 22 mm x 8 mm x 10 mm

Clamping fixture with M4 thread

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

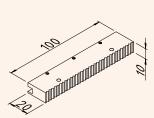


Part No.: K550853 18 mm x 8 mm x 10 mm

Toothed fixture

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



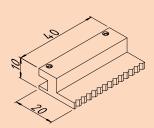


Part No.: K550858 100 mm x 20 mm x 10 mm

Toothed fixture flat

As direct workpiece locating element



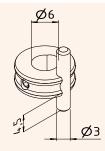


Part No.: K550165 L = 40 mm K550324 L = 100 mm

Swivel receiver with straight pin

As workpiece locating element for direct positioning



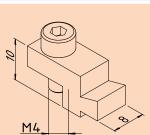


Part No.: K550847 Receiving ø 6 mm / Locating ø 3 mm

Knuckle joint with dovetail

In connection with clamping fixture for the construction of any angle





Part No.: K550840 20 mm x 8 mm 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

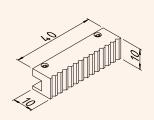


Part No.: K550843 100 mm x 20 mm x 10 mm

Toothed fixture 40

As direct workpiece locating element



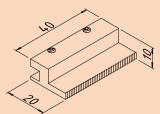


Part No.: K550845 40 mm x 10 mm x 10 mm

Toothed fixture flat with fine teeth

As direct workpiece locating element



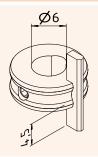


Part No.: K551013 40 mm x 20 mm x 10 mm

Swivel receiver with knife edge

As workpiece locating element for direct positioning





Part No.: K550851 Receiving ø 6 mm



Eccentric receiver

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



Part No.: K550970

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

Prismatic eccentric receiver

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

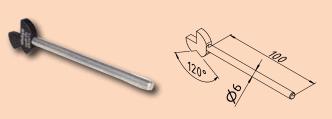


Part No.: K550972

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

Prismatic receiver/ locator

As workpiece receiving element for mounting in the clamping blocks

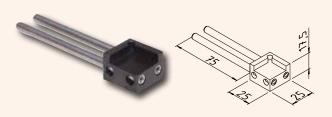


Part No.: K550971

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

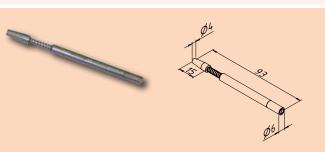


Part No.: K550304 L = 100 mm/

25 mm x 25 mm

Spring-loaded clamping rod

For pressing specimens against e.g. locating element

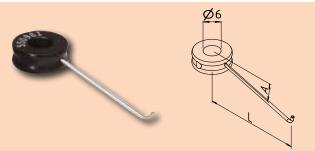


Part No.: K551012 ø 6 mm x 93 mm

SYSTEM COMPONENTS ON ENTS

Spring clip with bent tip

For clamping of specimens



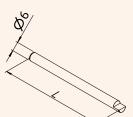
Part No.:

K550978 A = 30° L = 19 mm **K550979** A = 15° L = 20 mm **K550980** A = 30° L = 33 mm **K550981** 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



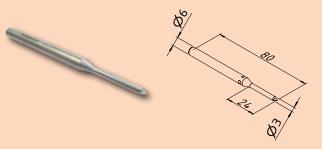


Part No.:

K550301 L = 60 mm **K550302** L = 80 mm **K550303** L = 100 mm

Receiver pin stepped mini

In connection with the clamping blocks, it can be used as direct workpiece locating element for free positioning of very small workpieces.



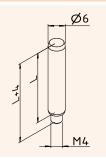
Part No.: K551915

D 1 = 6 mm / D2= 3 mm L = 80 mm / L1= 25 mm

Straight pin ø 6 mm

With M4 threaded pin, as receiving element for spring clips





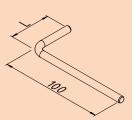
Part No.:

K550891 L = 30 mm **K551017** L = 12 mm

Rectangular receiver pin

As receiving element for spring





Part No.:

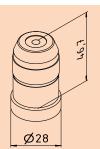
K550990 L = 50 mm **K550323** L = 25 mm



Precision quick chuck

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



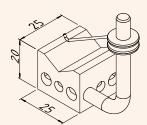


Part No.: K551014 Clamp. range: 0 - 4 mm Total length: 47 mm

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



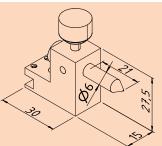


Part No.: K551018 20 mm x 25 mm

Tailstock with centre

For receiving of specimens between the tips



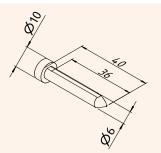


Part No.: K550879 Tip height: 20 mm Adjust. range: 16 mm

Tailstock centre stepped for tailstock (N° K550879)

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



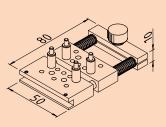


Part No.: K550333 Tip: Ø 6 mm

Precision vice for inside and outside clamping

With stepped receiver columns for clamping of most different specimen types





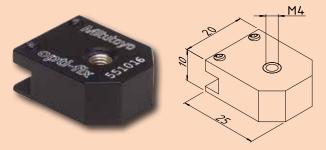
Part No.: K551010

Clamping range: 10 mm - 50 mm

Extension of the clamping range can be realised by exchange of the guiding columns

Adaptor plate M4

For receiving of all elements with M4 connecting thread



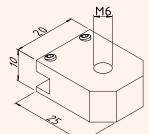
Part No.: K551016

25 mm x 20 mm x 10 mm

Adaptor plate M6

For receiving of all elements with M6 connecting thread





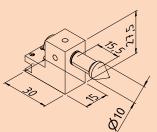
Part No.: K551015

25 mm x 20 mm 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.: K550986 Tip height: 20 mm

Stroke: 8 mm

Tailstock centre stepped for tailstock with spring-loaded centre (N° K550986)

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

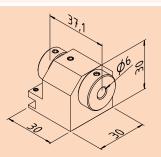


Part No.: K550334 Tip: ø 10 mm

Ratchet spanner

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





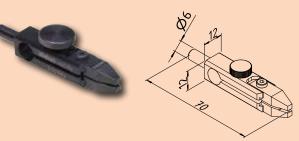
Part No.: K551011

Tip height: 15 mm Circular positioning: 24° x 15°



Clamping tweezers consisting of: Basic element N° K550993 Exchangeable tips N° K550997

Exchangeable tips N° K550997
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.



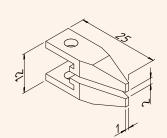
Part No.: K551019

Clamp. range: 0,5 mm - 1,5 mm Clamp. width: 3 mm

Pair of exchangeable tips for clamping tweezers N° K551019

For clamping of small and smallest specimens





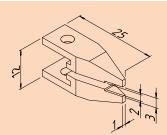
Part No.: K551008

Clamp. range: 0 mm - 2 mm Clamp. width: 1 mm

Pair of exchangeable tips for clamping tweezers N° K551019

For clamping of small and smallest specimens





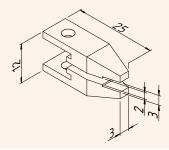
Part No.: K551009

Clamp. range: 1 mm - 3 mm Clamp. width: 1 mm

Pair of exchangeable tweezers for clamping tweezers N° K551019

For clamping of small and smallest specimens





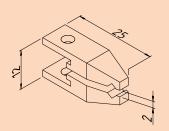
Part No.: K551007

Clamp. range: 1 mm - 3 mm Clamp. width: 3 mm

Pair of exchangeable prismatic tips for clamping tweezers N° K551019

For clamping of small and smallest rotationally symmetrical specimens





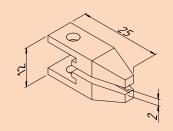
Part No.: K550998

Clamp. range: ø 4 mm - ø 5 mm

Pair of exchangeable prismatic tips for clamping tweezers N° K551019

For clamping of small and smallest rotationally symmetrical specimens





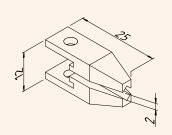
Part No.: K550999

Clamp. range: ø 0,5 mm - ø 2 mm

Pair of exchangeable prismatic tips for clamping tweezers N° K551019

For clamping of small and smallest rotationally symmetrical specimens





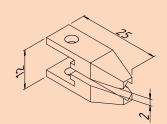
Part No.: K551003

Clamp. range: ø 2 mm - ø 3 mm

Pair of exchangeable prismatic tips for clamping tweezers N° K551019

For clamping of small and smallest rotationally symmetrical specimens





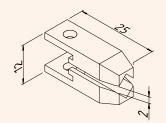
Part No.: K551004

Clamp. range: ø 3 mm - ø 4 mm

Pair of exchangeable prismatic tips for clamping tweezers N° K551019

For clamping of small and smallest rotationally symmetrical specimens





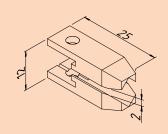
Part No.: K551005

Clamp. range: ø 4 mm - ø 5 mm

Pair of exchangeable prismatic tips for clamping tweezers N° K551019

For clamping of small and smallest rotationally symmetrical specimens





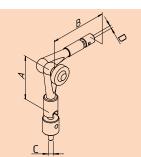
Part No.: K551006

Clamp. range: ø 5 mm - ø 6 mm



Hydraulic articulated arm mini With M4 connecting thread

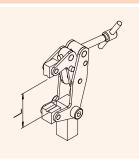




Part No.: K550703 A = 60 mm B = 60 mm C = M6 D = M4

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

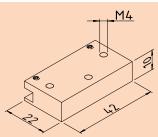




Part No.: K550707 Clamp. range: 0 mm - 25 mm

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

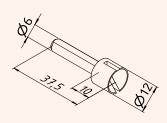




Part No.: K550850 42 mm x 22 mm x 10 mm

Centering unitFor centering of parts without centre hole

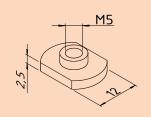




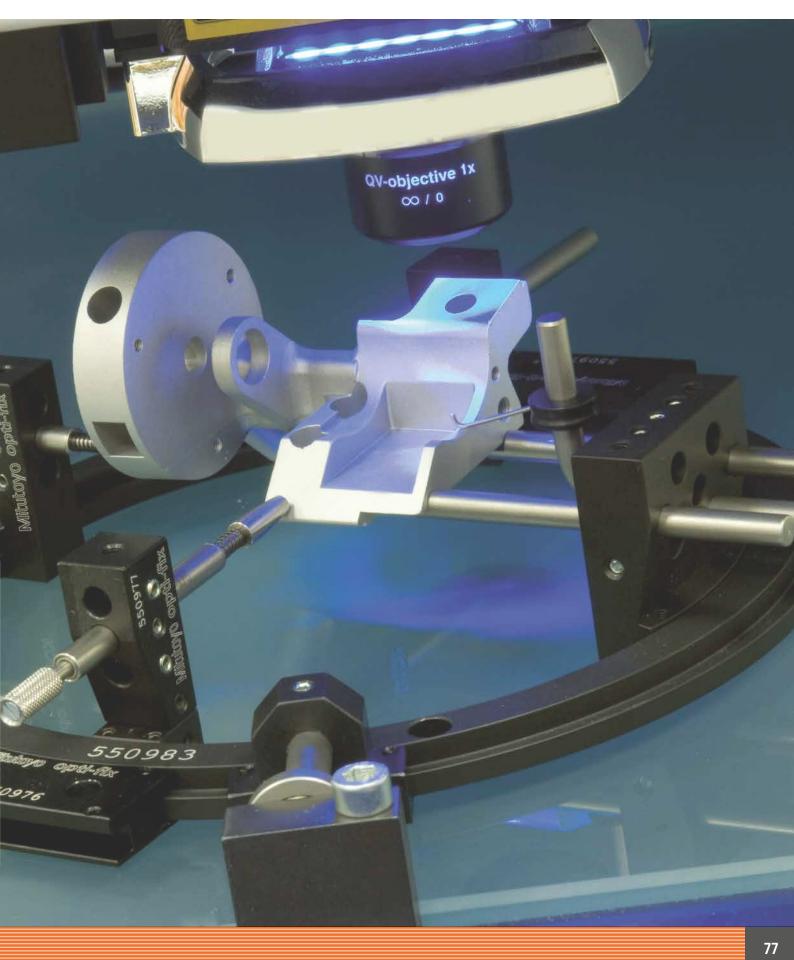
Part No.: K550994

T-slot nut M5For mounting of opti-fix systems to e.g. projectors or microscopes





Part No.: K550963 12 mm x 2,5 mm





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