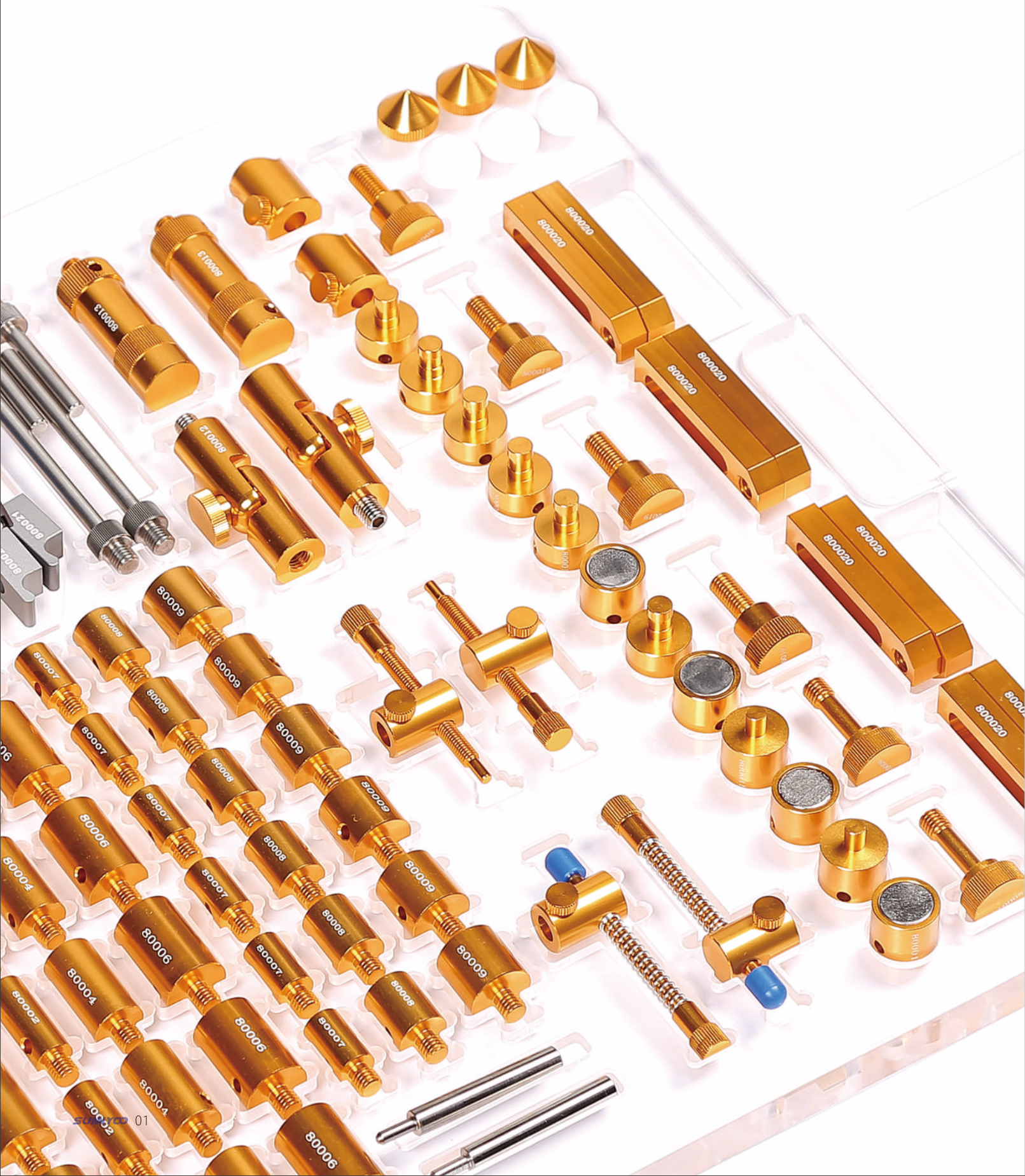
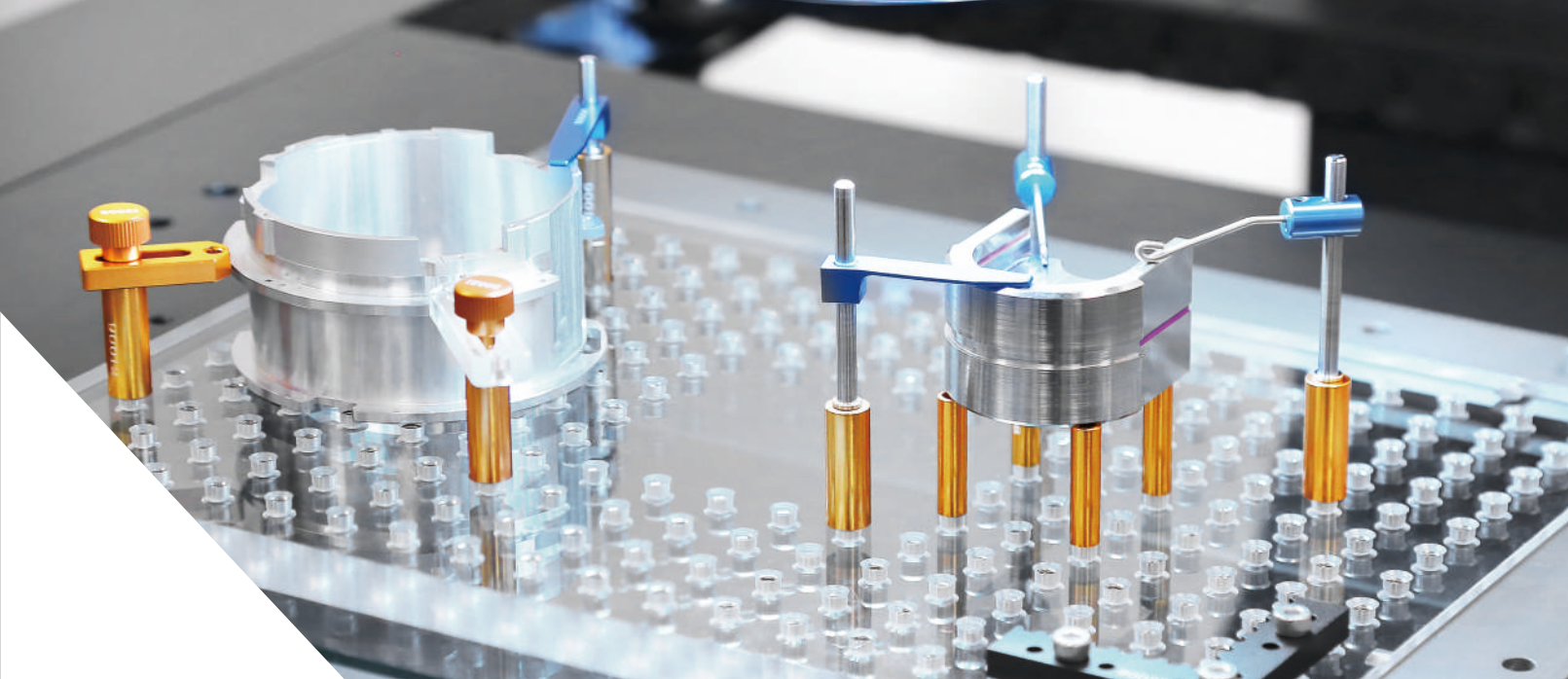


CMM & VMM Fixturing System
FLEXFIX

UNIMETRO

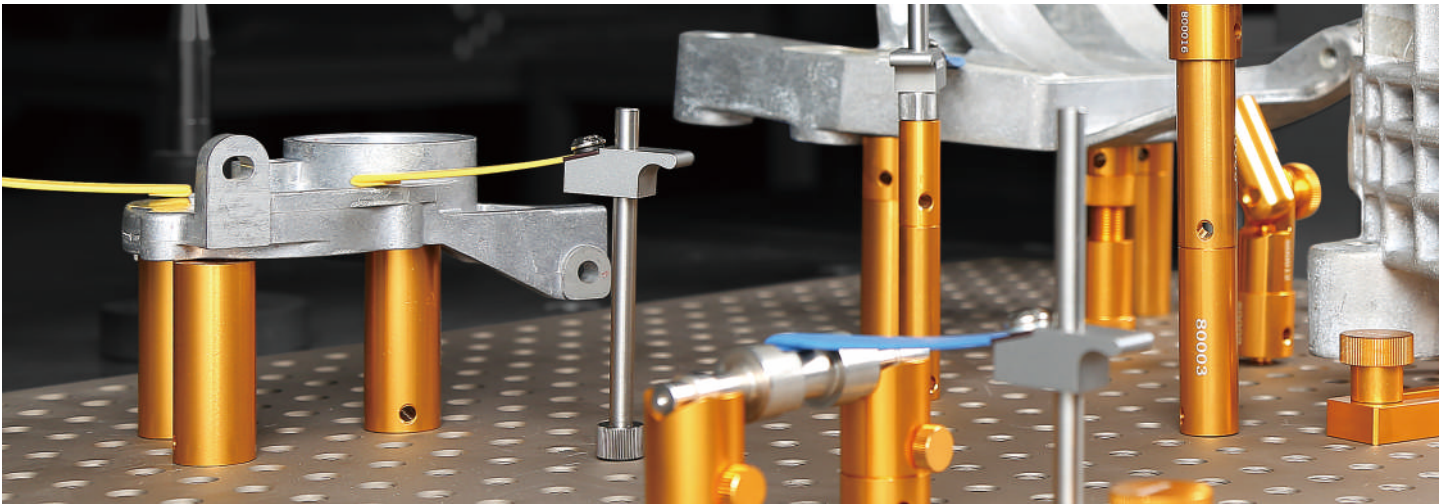
CMM & VMM Fixturing System **FLEXFIX**





Application

The Flexfix fixtures series are widely used in various industries such as electronics, aerospace, automotive, plastic or medical care. It can be introduced to all sizes and models of CMM and VMM. They are the tools which make your measuring process flexible, repeatable, and standardized.



Modular Fixturing for your CMM

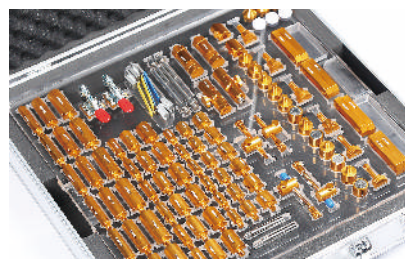
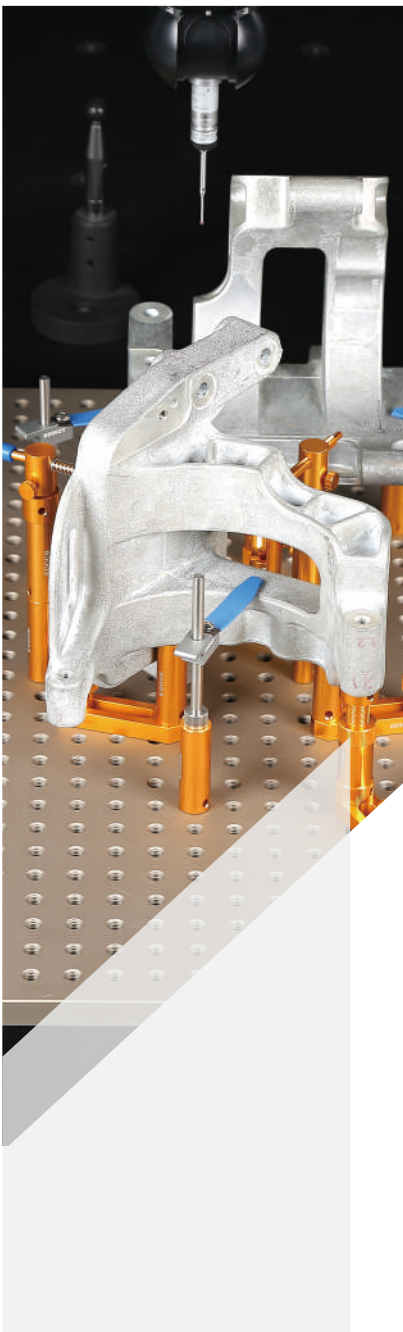
FlexFix series CMM fixtures system is designed and developed by UNIMETRO which means to help CMM users to improve the reproducibility and accuracy of the inspection process by providing quick and repeatable fixturing set-ups for the components. FlexFix series CMM fixtures are modular and can be expanded with user's requirements to provide a complete fixturing solution for any part regardless of its size, shape or material.

For multiple applications such as electronics, aerospace, automotive, plastic or medical care, the FlexFix series can provide a full solution to the CMM fixturing requirements. The series offers fixture plates with M8 threaded fittings in a wide choice of standard sizes, which are made of high accurate aluminum material and with complex manufacturing process, to ensure the accuracy and reliability of the system. Perfect fixturing solutions can be assembled very quickly without any tools to increase throughput and avoid delays in inspection.

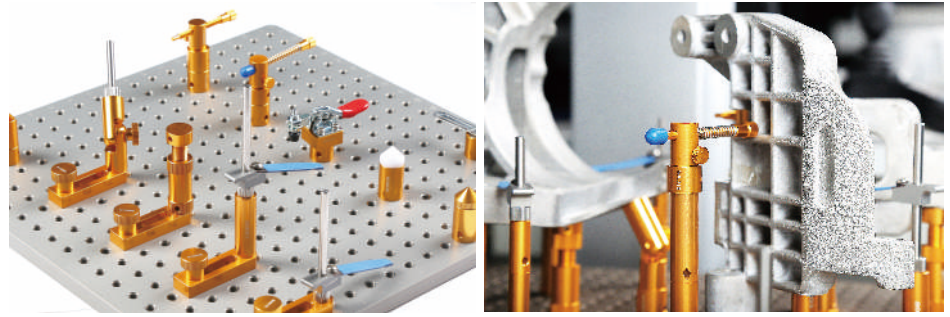
Choosing your fixturing kit

Flexfix series CMM fixtures are sold as kits to make a easy starting. A kit consists of one base board and a comprehensive set of components.

We are offering different sizes option for the base plates and user should select the suitable one based on the CMM machine size and measuring requirement.



CMM Fixtures Components



The Flexfix series Fixturing components are designed to hold components firmly with the minimum necessary force and without any special tools, all components are with different function including supporting, clamping or pressing. The reasonable design allows to avoid damage or distortion on the measuring part. With these flexible components users are able to create different type of fixturing combination for varies of parts. Also it is easy to set up a clear probe path of 3D measuring

CMM base plates

Multiple sizes of base plates are available for option for the Flexfix series CMM fixtures. Which allows wide range of application for different size of CMM and also satisfying different size of components fixturing requirement.

A complex manufacturing process is required for the CMM fixtures base plates which includes CNC machining, precision grinding, anodise coating, and laser marking, to make the plates with high accuracy, flatness and reliability. And except the standard sizes we also offer customized sizes and threads holes.

The fixture plates are offering an alphanumeric grid pattern and each fixturing component has its part number easily visible. It makes the user set-up can be fully defined and documented by recording the assembly and location of each of the fixturing components, so that the same set-up can be quickly and accurately reproduced for subsequent inspections.

Plates sizes:

400*300mm, M8 Threaded holes

400*400mm, M8 Threaded holes

500*500mm, M8 Threaded holes

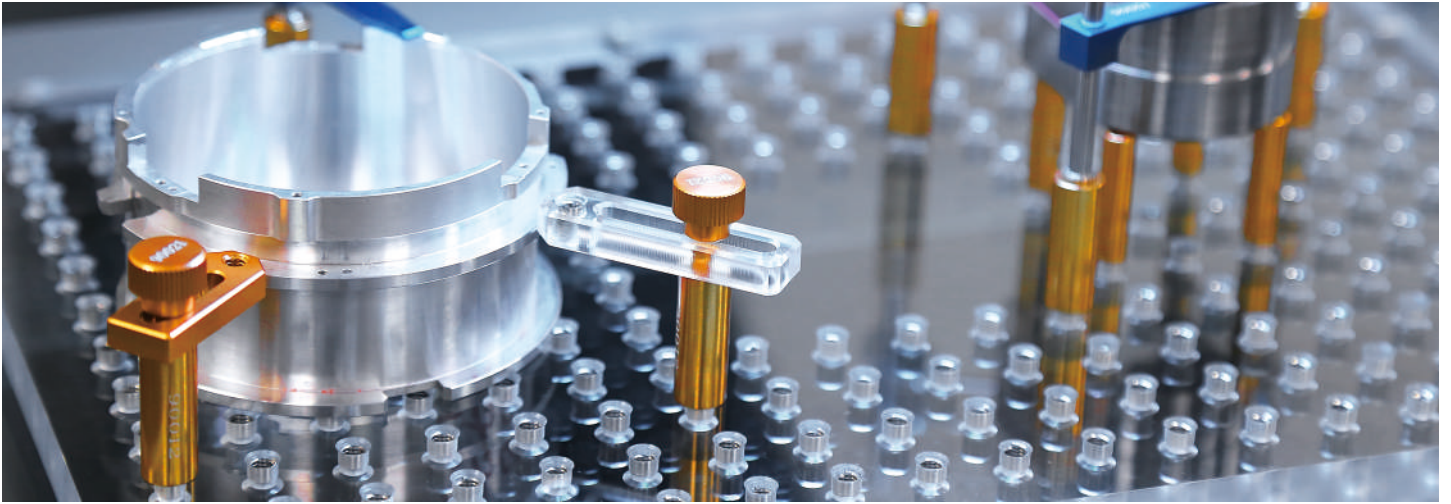
600*600mm, M8 Threaded holes

Other customized sizes

Components list

Item	Mark	Qty.
12*50mm Standoff	80001	6
12*30mm Standoff	80002	6
16*50mm Standoff	80003	6
16*30mm Standoff	80004	6
20*50mm Standoff	80005	6
20*30mm Standoff	80006	6
12*20mm Standoff	80007	6
16*20mm Standoff	80008	6
20*20mm Standoff	80009	6
Pusher clamp	800010	2
Screw pusher clamp	800011	2
Adjustable pivot joint	800012	2
Adjustable jack stand	800013	2
Magnet	800014	4

Item	Mark	Qty.
Pin Standoff	800015	2
Adptor	800016	6
Base board screw	800017	2
V post	800018	2
Screws	800019	4
Adjustable slide	800020	8
Tension clamp	800021	4
Hold down clamp	800024	2
Short tension clamp support	800022	2
Long tension clamp support	800023	2
Cone	800025	3
Nylon cone	800026	3
Screw driver	800027	2



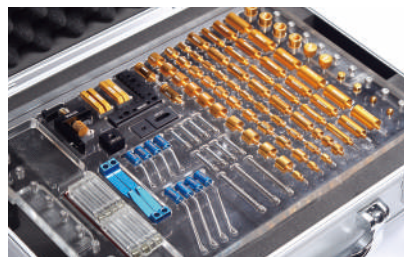
VMM fixtures

The vision measurement machine application is always coming with varies of different parts with different shapes or materials. Some are even without any effective reference plane to be correctly located on the work stage. Developing specific fixtures for each component should be with low efficiency and high cost. So we have developed the Flexfix series VMM fixtures kit and base plates, to help users saving time and cost but also be able to achieve fast and reliable fixturing during the VMM measuring process. The Flexfix series helps to improve the throughput, reproducibility and accuracy of the inspection process with quick and repeatable fixturing set-ups.

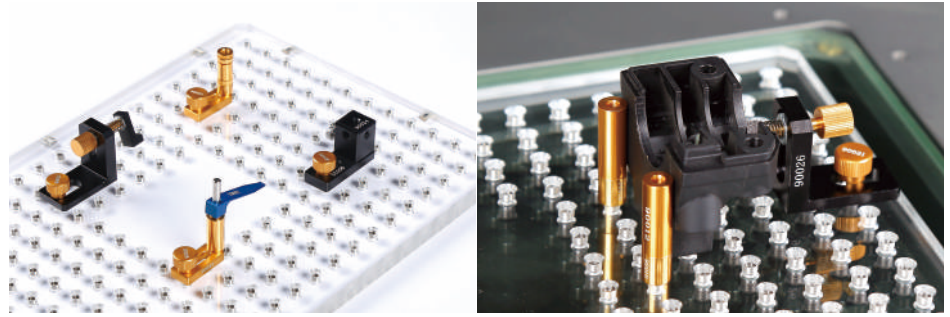


VMM fixture kits

The Flexfix series VMM fixtures are designed as a complete components kit. We have studied most of the VMM measuring application from our experience of VMM users, and have taken reference to different types of parts, to develop the fixtures kit components. The kit is including supporting, pressing, and holding components, which allow the user to manage the fixturing easily and no special tools as required. Regardless of shapes or materials, user can easily find the fixturing solution during measuring process.



Fixture kits Components



All components are made by precision manufacturing process and with anodise coating. Each part is with laser marking coding, so all the combination of the components can be repeatable for the subsequent inspections. Which helps to eliminate the variation of different parts or operators, and increasing the measuring accuracy and repeatability.

Base plates

For VMM measuring needs contour measuring application under most circumstances, we create the VMM fixtures base plate with high transmittance and flatness acrylic material, which to ensure the straight light path from the contour light, keeping the original measuring accuracy of the machine.

Metal M4 screw threads are mounted inside the base plate, the components can be firmly fixed and highly increase the life cycle of the base plate.

Also an L type magnetic fast mounting corner is offered, user only needs to put and measure, which largely increase the measuring efficiency.

Base plates sizes
 300*200mm, M4 threads
 400*300mm, M4 threads
 300*300mm, M4 threads
 400*400mm, M4 threads
 Customized sizes



Components list

Item	Mark	Qty.
Tension clamp	90001	4
Short Wire tension clamp	90002	4
Long Wire tension clamp	90003	4
Short tension clamp support	90004	8
Long tension clamp support	90005	3
6*5mm Standoff	90006	3
6*10mm Standoff	90007	6
6*25mm Standoff	90008	6
9*5mm Standoff	90009	3
9*10mm Standoff	90010	6
9*20mm Standoff	90011	6
9*25mm Standoff	90012	6
12*10mm Standoff	90013	6
12*25mm Standoff	90014	6
6*10mm Flat Standoff	90015	4
9*10mm Flat Standoff	90016	4

Item	Mark	Qty.
12*10mm Flat Standoff	90017	4
9mm adjustable Standoff	90018	2
6mm ball type Standoff	90019	2
Multi direction Adaptor	90020	2
Tension support screw	90021	2
L block	90022	1
Adjustable slide	90023	4
Direction switching block	90024	1
Direction switching block base	90025	1
Tension support	90026	1
M4 to M8 adaptor	90027	4
Transparent adjustable slide	90028	8
M3 screw driver	90029	1
Components packing plate		
M4*10 screws (20 pcs)		
Packing suitcase		

Our service

UNIMETRO is devoting to offer the best metrology products and solution, also offer the best after sales service. Free on-line support, free software upgrade and fast reaction of after sales service ensure the satisfaction of our customers and dealers.

Global market

Dealers or distributors all over the world are welcome and we will offer full support in commercial and technical phase. UNIMETRO is always providing products with the best price performance ratio and the best service.

OEM and special measuring solution

UNIMETRO is available for OEM service for our distributors. Thanks to the professional technical team of UNIMETRO, we are also capable for varies kinds of special measuring solution or devices development, please consult to our engineer if you have such kind of requirement.

UNIMETRO



Distributor