



metrologia.p

info@metrologia.pt

OVERVIEW OF THE MF/MF-U SERIES MEASURING MICROSCOPE MANUFACTURING SYSTEM

FOR CUSTOMERS WHO ARE CONSIDERING PURCHASING MEASURING MICROSCOPES



High Quality from Mitutoyo

The MF/MF-U series of measuring microscopes is appreciated the world over.

Mitutoyo started producing toolmakers' microscopes in 1959, and since then we have designed, developed and manufactured the complete range of components for these instruments at our own factories: from highly stable microscope bodies, high-performance objective and eyepiece lenses and optical tubes, all the way through to highly accurate digital scales.

Not only do the measuring microscopes we sell have an extremely long service life, we also offer our customers a comprehensive after-sales service as well as custom fabrication facilities, which is only possible thanks to our in-house vertically integrated manufacturing system.



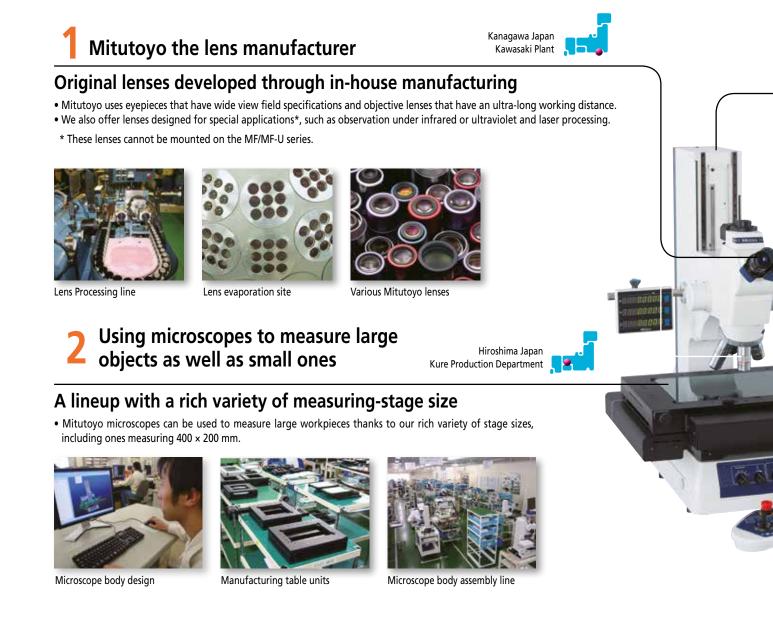






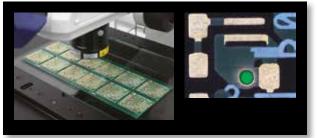
Mitutoyo Quality

Mitutoyo's in-house integrated manufacturing system provides peace of mind to our customers, based on proven expertise and performance.

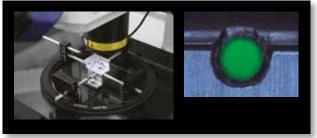


Actual examples of MF/MF-U series use

Measuring width and pitch on electronic PCBs



• Inspecting the surfaces of machined metal parts



* Use of fixing jigs (option) to hold workpieces in place



For details, see brochure PRE1303(4)

An emphasis on quality all the way from the raw material stage – the secret of high precision

Hiroshima Japan Gohara Production Department



Columns and bases that ensure high precision

• Mitutoyo performs the complete process cast iron manufacture in-house, from the mixing of raw materials to the fabrication of molds that produce highly stable castings for these critical components.



Teeming line site



Cast iron manufacturing

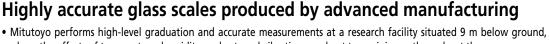


Column and Base





4 The heart of a measuring instrument Kiyohar



where the effects of temperature, humidity, and external vibrations are kept to a minimum throughout the year. • All stage sizes have a measuring accuracy of (2.2 + 0.02 L) μ m* or less for both x-axis and y-axis. * L: measuring length (mm)



Underground research facility

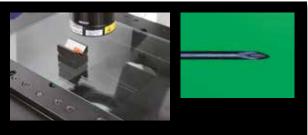


Clean room



Glass scales

Inspecting needle tips for angle and wear

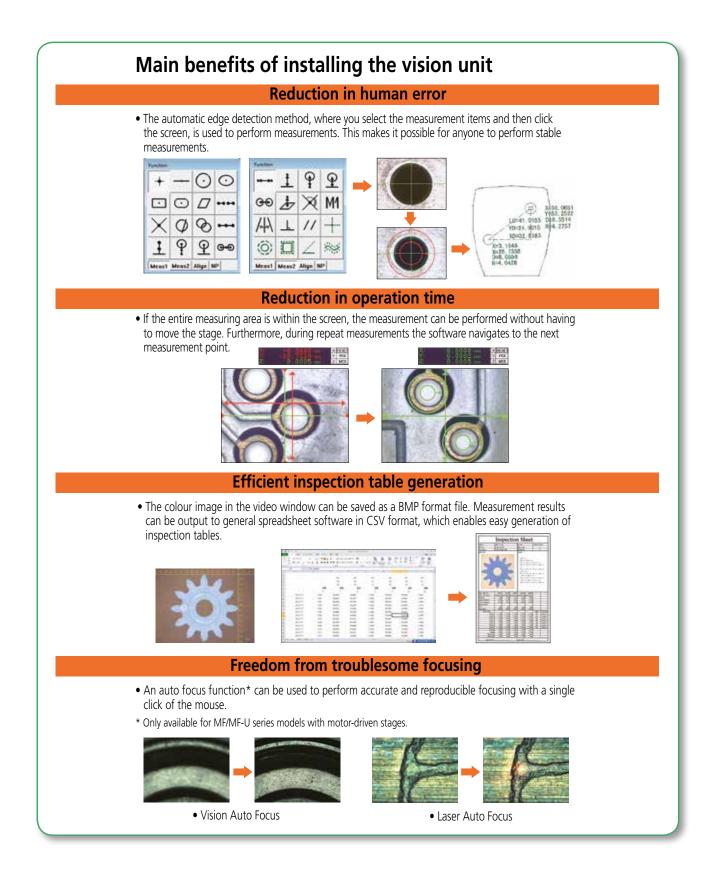


• Observation of glass surface defects that cannot be seen with the naked eye



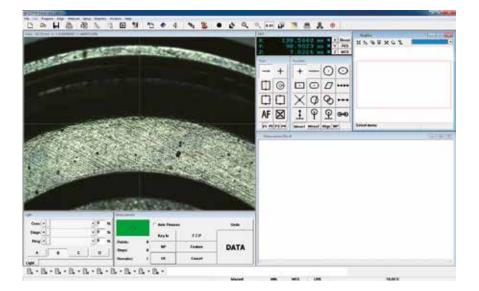
Would you like to upgrade your measuring microscopes to vision measuring machines?

• The Vision Unit is the PC analysis system option of the MF/MF-U series. Installing this unit makes it possible to measure, analyse, and generate inspection tables efficiently.





System example



Operation screen image



Porto R. Senhora da Penha, 110·4460-423 Senhora da Hora·Tel: +351 220 909 436 Lisboa Avenida Quinta Grande, 878 · 2610-158 Amadora · Tel: +351 210 949 532

info@metrologia.pt

metrologia.pt



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

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

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



Find additional product literature and our product catalogue

www.mitutoyo.eu

Note: MITUTOYO is either a registered trademark or a trademark of Mitutoyo Corp. in Japan and/or other countries/regions. Other product, company and brand names mentioned herein are for identification purposes only and may be the trademarks of their respective holders. Product illustrations are without obligation. Product descriptions, in particular any and all technical specifications, are only binding when explicitly agreed upon.



Mitutoyo Europe GmbH

Borsigstraße 8-10 41469 Neuss Tel. +49 (0) 2137-102-0 Fax +49 (0) 2137-102-351

info@mitutoyo.eu www.mitutoyo.eu