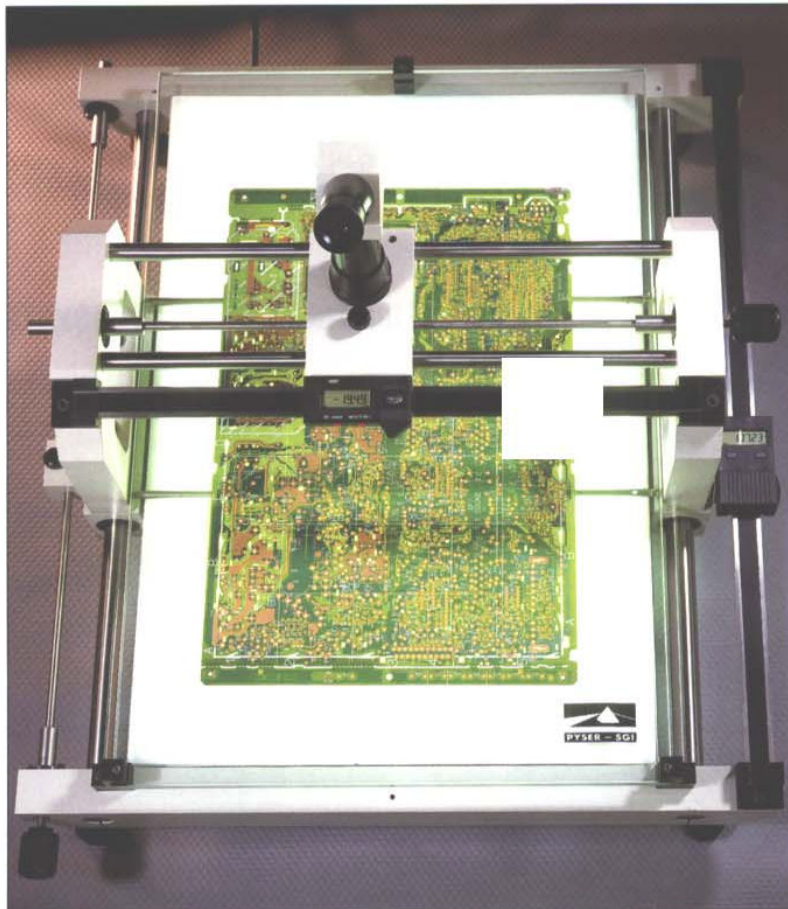




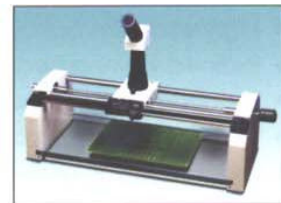
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**Measurement  
 Products  
 Division**

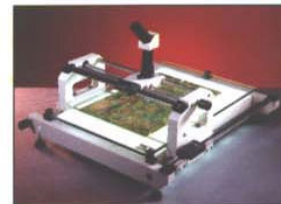
## Micro-Max Products



Micro-Max



Micro-Max 2L



Magscale



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# MICRO-MAX PRODUCTS

## Versatile contact and non-contact measurement for industry, science and education

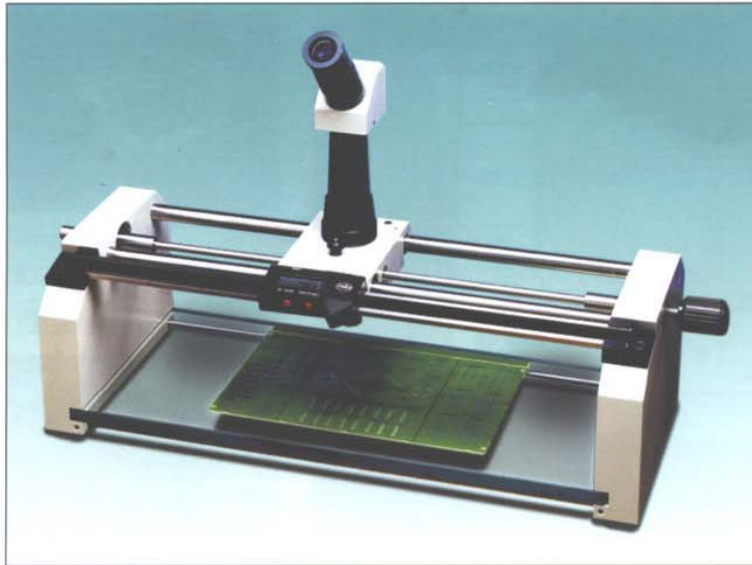
The Micro-Max one and two axis non-contact linear measuring systems offer a simple accurate and versatile solution to the many requirements of measurement and inspection. Items to be measured are placed on a platform and an optical head is moved over them, features to be measured are aligned with a cross line in the eyepiece.

This simple concept provides an ideal method for rapid measurement and inspection of circuit boards, labels, print registration, carton manufacture & development, sheet metal components, botanical specimens and micrographs from both electron and light microscopy.

Both models feature: -

- Robust construction
- Precise mechanics
- High resolution optics
- Inclined viewing head
- Focusing eyepiece with cross line reticule
- Fine positioning screw adjustment
- Clear digital 10  $\mu\text{M}$  resolution displays
- Instant inch/metric conversion
- Fine focus mechanism
- Monochrome or colour camera options
- Quick release drives for fast traverse
- Monochrome or colour camera options
- Optional DRO and linear encoders for geometric function measurement

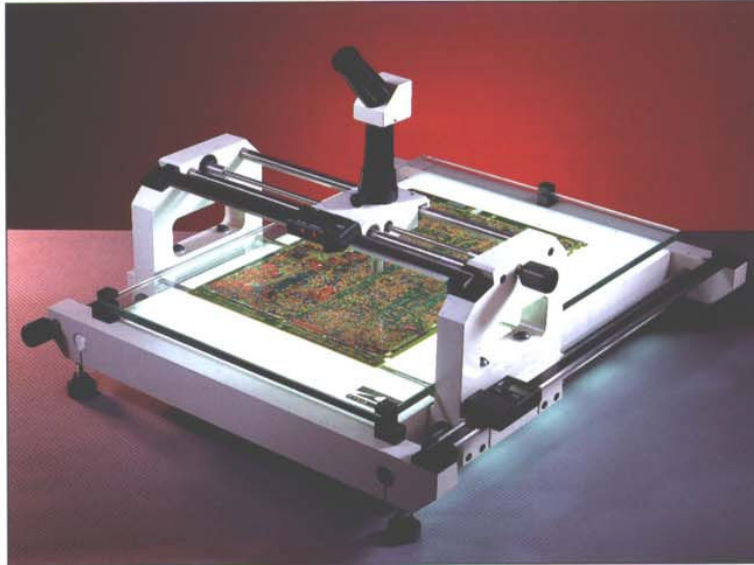
## MICRO-MAX SINGLE AXIS NON-CONTACT LINEAR MEASURING SYSTEM



- Three models with measuring range of 0-300mm, 0-450mm and 0-600mm
- 10  $\mu\text{M}$  accuracy
- Fast traverse mechanism
- LED display of measured length with RS232 interface
- Monochrome or colour CCTV option
- Surface lighting option

This single axis version has a 10mm glass platform for location of the item to be measured and this allows sufficient light for most applications. If additional transmitted light is needed the whole instrument can be placed and used on a light box. An optional surface lighting attachment is also available for specimens that require it.

## MICRO-MAX 2L TWO-AXIS NON-CONTACT LINEAR MEASURING SYSTEM



- Two models with measuring ranges up to 450mm x 340mm
- 10  $\mu\text{M}$  accuracy
- Fast traverse mechanism on both axes
- LED display of measured length with RS232 interface
- Built-in light box for transmitted illumination
- Monochrome or colour CCTV option

On this dual axis version items to be measured are placed on a built-in light box and the optical head is moved over it in both X and Y directions. An optional surface lighting attachment is available if required.

## MAGSCALE CONTACT MEASURING SCALES

These instruments offer a fast, effective and accurate method of measuring flat objects up to 450mm long.

A 6mm thick glass scale with a permanent vacuum deposited chromium scale on the underside is mounted in a stove enamelled aluminum frame. The scale has 0.1mm subdivisions and is accurate to 15  $\mu\text{M}$ .

Depending on the length of the scale it is traversed by either one or two 8x magnifiers that can be focused on both the scale and the subject being measured.



Using the 8x magnifier a division can easily be visually subdivided to allow more accurate assessment, and as the scale is on the underside of the glass problems of parallax are avoided.

These instruments should not be compared with cheaper versions; these are strong accurate scientific products that will provide many years of use.

Four different lengths are available and the instrument is supplied with a strong wooden carrying case.

- Three metric and one imperial measurement versions
- Two eyepieces on longer versions for ease of use
- Scale accuracy to 15  $\mu\text{M}$
- Permanent vacuum deposited chromium image
- No parallax errors
- Supplied in wooden box

# TECHNICAL SPECIFICATIONS

## MICRO-MAX SINGLE AXIS MEASURING SYSTEM

Head	Inclined monocular
Eye-piece	10x focusing
Reticule	Cross line
Focusing	Rotary fine adjustment (20mm)
Objective magnification	3x
Total magnification	Approximately 20x
Working distance	Approximately 25mm
Field of view	3mm
Measuring scale	Enclosed linear encoder with high contrast LED display with 10 µm resolution and RS232 interface
Measurement units	Inch/metric switchable
Battery life	Approximately 2000 hours
LED functions	Inch/metric conversion, ± direction indication, hold measured values, pre-set
Measuring range	0 - 300mm, 0 - 450mm and 0 - 600mm depending on model
Movement control	Quick slide mechanism for fast traverse and fine positioning screw
Voltage requirement	Nil

### ORDERING INFORMATION

Cat Ref.	Description	Order Code
P901	Micro-Max 300mm measuring system	50E02050
P902	Micro-Max 450mm measuring system	50E02051
P903	Micro-Max 600mm measuring system	50E02052

## MICRO-MAX 2L 2 AXIS MEASURING SYSTEM

Head	Inclined monocular
Eye-piece	10x focusing
Reticule	Cross line
Focusing	Rotary fine adjustment (20mm)
Objective magnification	3x
Total magnification	Approximately 20x
Working distance	Approximately 25mm
Field of view	3mm
Measuring scale	Two enclosed linear encoders with high contrast LED display with 10 µm resolution and RS232 interface
Measurement units	Inch/metric switchable
Battery life	Approximately 2000 hours
LED functions	Inch/metric conversion, ± direction indication, hold measured values, pre-set
Measuring range	Micro-Max 2L300 300mm x 340mm Micro-Max 2L450 450mm x 340mm
Movement control	Quick slide mechanism for fast traverse and fine positioning screw
Base lighting	240V 50Hz/110V 60Hz, 8W/300mm daylight (cool white)
Voltage requirements	240V 50Hz/110V 60Hz (specify)

### ORDERING INFORMATION

Cat Ref.	Description	Order Code
P905	Micro-Max 2L300 300mm x 340mm	50E02054
P906	Micro-Max 2L450 450mm x 340mm	50E02055

### OPTIONAL ACCESSORIES (BOTH VERSIONS)

Cat Ref.	Description	Order Code
PL887	Double illuminator and power supply	60E02365
P920	Monochrome CCTV system (14" monitor)	50E02070
P921	Colour CCTV system (14" monitor)	50E02071

Note: It is recommended that the illuminator be used with all CCTV systems.

## MAGSCALE PRODUCTS

Head	Vertical
Eye-piece	8x focusing
Reticule	None
Focusing	Rotary adjustment
Total magnification	Approximately 8x
Field of view	25mm
Measuring scale	6mm thick glass, permanent chrome image, 0.1mm or 0.005' subdivisions, 15 µm accuracy
Measurement units	Metric or inch depending on model
Measuring range	0 - 150mm (single magnifier) 0 - 300mm (two magnifiers) 0 - 450mm (two magnifiers) 0 - 12' (two magnifiers)
Movement control	Manual slide mechanism for fast traverse
Voltage requirement	Nil

### ORDERING INFORMATION

Cat Ref.	Description	Order Code
CA150	Magscale 150mm long 1 eyepiece	50E02020
CA310	Magscale 300mm long 2 eyepieces	50E02021
CA710	Magscale 450mm long 2 eyepieces	50E02022
CA510	Magscale 12' long 2 eyepieces	50E02068

Other products from the Measurement Products division of Pyser-SGI Limited include:

Measuring Magnifiers and Measuring Scales, Portable Microscopes, PCB Through Hole Scope, Modular Microscope Systems, Stereo Microscopes, Compound Microscopes, Video Measuring Microscopes and Non Contact Co-ordinate Measuring Systems.

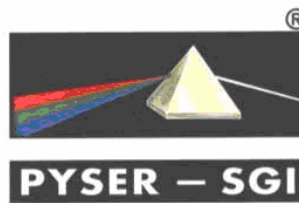
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