

A handy Measuring Microscope available in three magnifications with many uses. It is ideal for engravers, toolmakers, machinists, inspectors, welders, printers, weavers, etc.

These compact units have their own light source located in a simple powerful pen light which is adjustable on a two-way swivel. The base is detachable by unscrewing and can be removed for special mountings on production lines, etc. The Microscope has a precision vertical adjustment for focusing through a rack and pinion with a travel of approximately 2.500". The reticle can be rotated 360° and adjusted for individual eyesight by turning the top adjusting screw on the eyepiece.

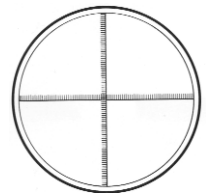
Possible Uses include:

- A. It can be used as an inexpensive Toolmakers Microscope by attaching the unit to the spindle of a vertical milling machine or jig borer and using the travel of the table for measuring the object or construct a set of cross-slides with micrometer movement for positioning a work piece.
- B. Grinding: For checking the relationship between the diamond and the grinding wheel or grinding wheel and the workpiece.
- C. Toolroom: checking Finish on dies, cracks, wear and distance between points.
- D. Measuring miniature screw machine parts, etc.
- E. Checking of welds for finish or cracks.
- F. Checking castings in the foundry for finish in minute hair line cracks and metallurgical properties for castings.
- G. Size of print and weave of cloth, etc.
- H. Any small production or stamped part which has to be checked in a continuous relationship.
- I. Measuring the thickness of castings on wire and wear on the dies proportionately.
- J. Measuring depth of small indentations too small to measure otherwise. This can be done by clamping the unit to a heavy large size Height Gauge, focusing in on the bottom of a fine crack which is inaccessible in any other way; then focusing in again on top. All this is done by using the fine adjustment of the Height Gauge and then reading the difference in the two readings by indicator or the vernier scale on the Height Gauge.
- K. Measuring width of lines for Universal Product Code symbols for Printers, Lithographers, Paper and Carton Manufacturers, etc. We especially recommend Model 71B1 with .0005" divisions for this purpose.



90° CROSS HAIR RETICLE

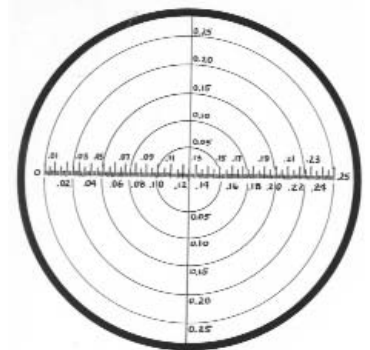
This reticle can be used in all three models of Titan Measuring Microscopes. They can be installed for special applications where this type of reticle is necessary.



MODEL 70A1 20X POWER MEASURING MICROSCOPE

SPECIFICATIONS:

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| Field of View -- .320" | Overall Length when fully extended -- 8" |
| Working Distance -- 2.087" | Maximum Base Length -- 6 3/8" |
| Reticle -- divided by 90° cross hairs. Five master centering circles -- .050", .100", .150", .200", .250" diameters respectively. | Maximum Base Width -- 4 1/2" |
| Horizontal Axis -- divisions are in .001", from 0 - .250" | Maximum Base Height -- 3 1/2" |
| Overall Length -- 6" | Depth of Measuring U -- 5" |
| | Width of Measuring U -- 3" |



MODEL 71B1 60X POWER MEASURING MICROSCOPE

SPECIFICATIONS:

Field of View -- .130"

Working Distance -- 1.250"

Reticle -- divided by 90° cross hairs. Five master centering circles -- .020", .040", .060", .080", .100" diameters respectively.

Horizontal Axis -- divisions are in .0005", from 0 - .100". Lines can easily be split on the microscope to read accurately to .0025".

Overall Length -- 7"

Optional Extra -- Metric Reticle 1 Div. = .01 mm
Length of scale = 0 - 6 mm available

Overall Length when fully extended -- 9 1/4"

Maximum Base Length -- 6 3/8"

Maximum Base Width -- 4 1/2"

Maximum Base Height -- 3 1/2"

Depth of Measuring U -- 5"

Width of Measuring U -- 3"



MODEL 72A 100X POWER MEASURING MICROSCOPE

SPECIFICATIONS:

Field of View -- .070"

Working Distance -- .164"

Reticle -- divided by 90° cross hairs. Five master centering circles -- .010", .020", .030", .040", .050" diameters respectively.

Horizontal Axis -- divisions are in .00025", from 0 - .050". Lines can easily be split on the microscope to read accurately to .000125".

Overall Length -- 7 3/8"

Optional Extra -- Metric Reticle 1 Div. = .01 mm
Length of scale = 0 - 8 mm available

Overall Length when fully extended -- 9 1/2"

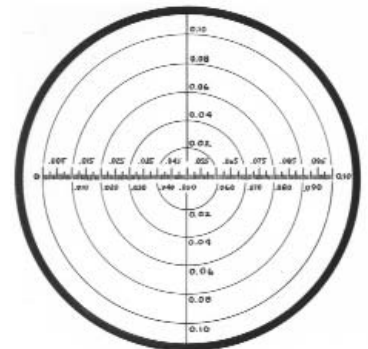
Maximum Base Length -- 6 3/8"

Maximum Base Width -- 4 1/2"

Maximum Base Height -- 3 1/2"

Depth of Measuring U -- 5"

Width of Measuring U -- 3"



Ordering Information

Model Number	Description	Price
70A1	20X Measuring Microscope	\$ 350.00
71B1	60X Measuring Microscope	\$ 350.00
72A	100X Measuring Microscope	\$ 360.00
71B1-MR	Metric Reticle for 71B1	\$ 125.00
72A-MR	Metric Reticle for 72A	\$ 125.00
70-SCHR	Simple Cross Hair Reticle for 70 Series	\$ 125.00