

# THE WORKSHOP DYNASCOPE

**Low cost, high performance  
2-axis measurement or  
measurement within the field of view**



**Workshop Dynascope with  
optional electronic filar eyepiece**



**Copper bush viewed at 10x  
magnification**

## **The Requirement**

Accurate dimensional measurements such as X-Y diameter, radii and angles are critical to quality control. Inspection for flash burrs, gouges and machine tool "chatter" on small precision machined metal or moulded plastic components requires advanced optical systems. Often, these two tasks are performed separately at a cost of additional time, manpower and capital investment.

## **The Solution**

With the Workshop Dynascope macro inspection and measurement system, these tasks can be combined, saving time, improving efficiency and minimising investment. The Dynascope system provides an optically produced image with the high resolution required to inspect and measure the smallest detail. Enhancements to the basic system such as OEM machine mounts, Polaroid/35mm and Video takeoff facilities combine to make the Workshop Dynascope the cost effective solution to inspection and measurement problems.

## **The Benefits**

Reduced capital investment, reduced inspection/measurement time, reduced scrap/defects, enhanced operator efficiency, improved quality, improved throughput.

## **Flexibility**

The Workshop Dynascope is offered in a range of configurations to suit a range of requirements and a range of budgets. See overleaf for details of the full range.



Precision mechanical applications



Checking of metal formed and machined parts



Quality control of medical and precision manufacture

## Core Configuration

The core configuration consists of:

- Dynascopic high resolution optical system with 20x magnification.
- Glass plate work holder.
- 6 point shadow free ringlight illuminator.
- 150W/15V transformer.
- Stable industrial stand.

## Configuration Options

- **Measurement 1:**  
50mm x 50mm (2" x 2") measuring stage with LCD micrometers. Crossline reticule (set in viewing head).
- **Measurement 2:**  
100mm x 100mm (4" x 4") measuring stage with 0.002 glass scale encoders and QC200 multifunction microprocessor. Crossline reticule (set in viewing head).
- **Measurement 3:**  
150mm x 150mm (6" x 6") measuring stage with 0.002 glass scale encoders and QC200 multifunction microprocessor. Crossline reticule (set in viewing head).
- **Measurement 4:**  
150mm x 150mm (6" x 6") measuring stage with 0.002 glass scale encoders and enhanced function Metrology Software. (Note: Computer not supplied).
- **Inspection:**  
150mm x 150mm (6" x 6") free floating inspection stage.

## Optional Accessories

- 10X magnification.
- 50X magnification.
- Substage illuminator (for profiles) with 75W/12V transformer.
- A full range of camera options is available including 35mm, Polaroid instant and CCTV/Videoprinter.
- A specialised design and manufacturing service is available for your own design of reticle/graticule mounted in the Dynascope head.

## Technical Specification

Electrical:	100V, 110V, 220V, 240V. 50/60 Hz switchable.
Power consumption:	400W max.
Resolution:	Microprocessor/Software - glass scales resolve to 0.002mm.
Field of view:	(at 20X): 7mm.
Working distance:	(at 20X): 75mm.



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