

# Toolmakers Microscope

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## UHL WMM200



revision: 02

Toolmakers measuring microscope with swivel-mounted column, binocular tube and brilliant optics.



Technische  
Mikroskopie

# A question of viewing angle

The entire microscope column together with the transmitted light can be swiveled within  $\pm 20^\circ$  by handwheel to measure especially profiles (e.g. worm drives, tap drills, etc) in normal section.

The swiveling angle is shown by a scale with  $1^\circ$  pitch.

The handwheel with its precise drive and gear reduction of  $2^\circ$  per rotation ensures an accurate angle adjustment.

A clamping lever fixes the column in this position safely.

The precision measuring stage with a measuring range of  $250 \times 150$  mm has a  $\pm 4^\circ$  swiveling plate for manual workpiece alignment.

Within a range of 150 mm the z-axis can be moved by a coarse and fine drive for focusing.

Additionally the WMM200 provides a lockable, handwheel driven height adjustment range of 200 mm.

## Technical data:

### General:

Basic device:	solid aluminium cast base
Dimensions:	siehe drawing
Weight:	ca. 130 kg
Working temperature	$20 \pm 5^\circ \text{C}$
Power supply:	230 VAC, 50

### Measuring axes:

Measuring range XY :	$250 \times 150$ mm or $150 \times 150$ mm
Workpiece weight:	20 kg
Measuring range Z :	150 mm
additional height adjustment Z:	200 mm
Resolution:	$0,1 \mu\text{m}$
Measuring system:	opto-electronic linear measuring scale

### Optics:

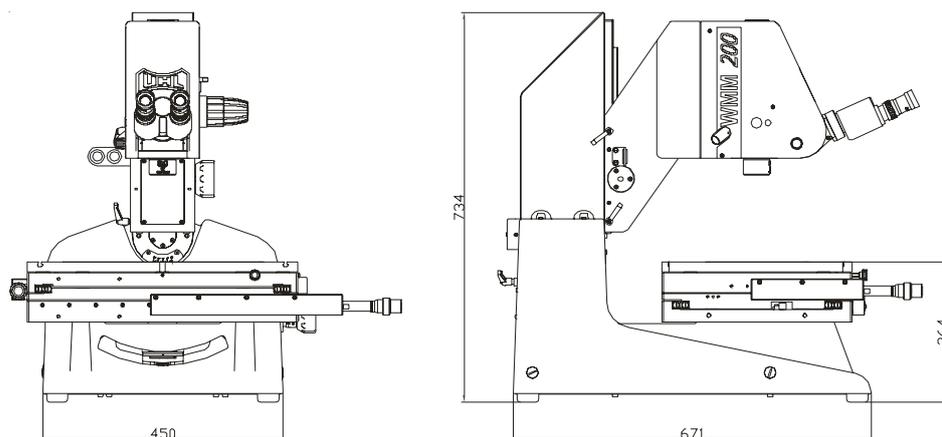
Binocular tube:	inclinable from $25^\circ$ to $-5^\circ$ of the horizon
Magnification:	10x up to 200x
Illumination:	transmitted and coaxial incident light, optional: inglight, quadrant ring light, oblique incident light

**Digital read-out:** Metlogix MX230

### Software:

OMS: easy-to-learn and userfriendly 2D measuring software for random tests and initial sample inspection

### Dimensions:



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