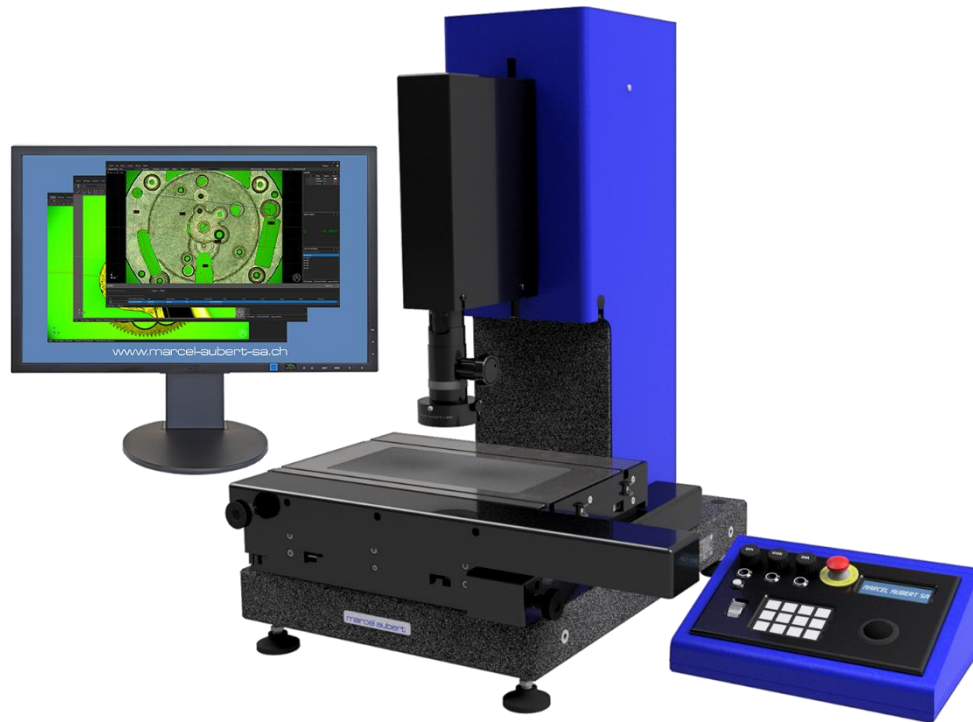




Optimum GL 200M

Video measuring system

MA 186-305

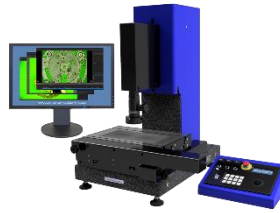


This versatile enclosed workshop measuring machine offers great flexibility in the workplace thanks to improved ergonomics. The very high stability of the Z-axis column is optimized for measurements on panoramic images, composed using the "integrated image" (or "stitching") function.

The Optimum GL meets the most demanding applications thanks to its wide choice of zoom-optics for very high magnifications or telecentric optics with very large depths of field.

- Granit base.
- Motorized X-Y table.
- Motorized Z column.
- Zoom-optics with indexes.
- 3.1 Mpx USB 3.0 color camera.
- LED circular illuminator.
- Computer with 27" monitor.
- Wide choice of measuring and comparison software.
- Glass chromium deposit calibration ruler.

Technical specifications



X-Y table range [mm]	200x100 motorized
Table precision [mm]	0.003 / 100
Z column range [mm]	120 motorized
Column precision [mm]	0.020 / 100
XYZ axis rulers	Heidenhain (Display resolution : 0.001mm)
Weight (kg)	165
Dimensions column lowered (W x D x H) [mm]	590 x 640 x 750

Optical choice 1

Camera	Color 3.1 Mpx USB 3.0
Optics	12.5X detent zoom
Magnifications *	25X to 335X
Fields of view [mm]	18.2 x 13.7 to 1.4 x 1.1
Pixel resolution [μm] **	8.9 to 0.7
Focal length [mm]	77.4

Optical choice 2

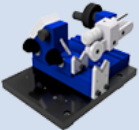
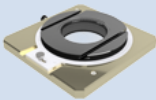
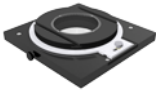
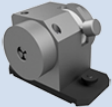
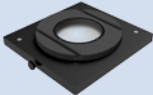
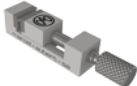
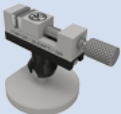
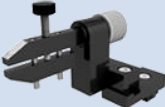
Camera	Couleur 3.1 Mpx USB 3.0
Optics	Zoom 12.5X detent
Magnifications *	40X to 505X
Fields of view [mm]	12.2 x 9.1 to 0.9 x 0.7
Pixel resolution [μm] **	6.0 to 0.5
Focal length [mm]	77.4

* = Indicated magnifications are calculated on 27" monitor and may be reduced by up to 12% according to the software configuration.

** = Camera pixel size / (sensor size / field of view)

Software		
Functions	VideoPLAN 	M3 
Displaying a reticle / cross	✓	✓
Saving an image	✓	✓
Saving measurements	✓	✓
Measuring / displaying angles	✓	✓
Distance measurement	✓	✓
Depth measurement	✓	✓
Importing and comparing DXF drawing	✓	✓
Diameter and radius measurement	✓	✓
Measurement protocol	✓	✓
Display of X and Y axis	✓	✓
Display of Z axis	✓	✓
Automatic measurement by image processing	-	✓

Options

	Concentricity measuring tool for T-slot MA 145-003-02		Cast iron rotary table with graduation MA 145-15-70G
	Concentricity control for T-slot MA 145r		Aluminum rotary table with graduation MA 145-16-70G
	Manual divider for T-slot MA 145d		Aluminum rotary table MA 145-16-70
	±15° rotating between centers clamping bracket for T-slot MA 145a		Vice (capacity 15mm) MA 143b-004
	Prism with clamping flange for T-slot MA 145e		Adjustable vice (capacity 15mm) MA 143b-005
	Crocodile-pliers for T-slot MA 145b		Crocodile-pliers on round support MA 143-010-01
	Clamp with parallel jaws for T-slot MA 145b-001		Clamp with parallel jaws on round support MA 143-010-02
	Collet holder for T-slot MA 145bZ		Collet holder on round support MA 143-010-03
	V-block with spring clip for T-slot MA 145c		V-block with spring clip on round support MA 143-010-04