Zumbach

SWISS PRIME MEASURING SINCE 1957

High-Tech, Non-contact Profile Measurement Systems using Light Section Principle

PROFILEMASTER® PMM 130-4K/160-6K

Flexible and powerful measurement of all kind of profiles

ZUMBACH's PROFILEMASTER PMM 130-4K/160-6K is fulfilling todays measuring needs for in-line measurement of any type of profile. Two versions with 4 or 6 camera/Laser modules are available to ensure the best possible coverage of the profile contour. An integrated turning mechanism in the frame allows for optimal alignment of the measuring units angular position versus the profile. The open design of the frame facilitates insertion into a running production line.

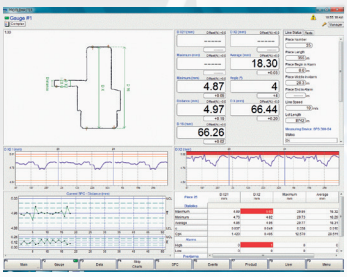
A powerful processor unit with customer-friendly user interface allows simple and easy product definitions, tolerance monitoring and data recording.

Convincing advantages

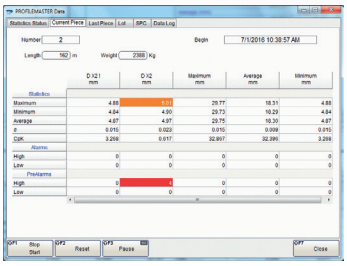
Complete profile shapes can be measured using high-precision light-section technology. Dimensions with narrow tolerances like width, thickness, diagonals etc., as well as radii and angles are controlled

Advantages – Main features

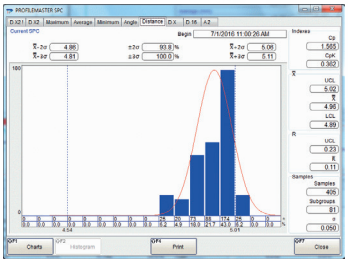
- Permanent quality control
- Increased production efficiency (faster start up)
- Improved process control and CpK
- Fast, precise and reliable measurements
- Maximum contour coverage
- Intuitive user interface
- Quick and easy installation into production lines



Main screen



Statistics



SPC Charts/ Histogram

Technical data

Model	PMM 130-4K	PMM 160-6K
Number of cameras	4	6
Min. product dimension	10 mm (.4 in.)	
Max. product dimension Round, diameter Square, width	 117 mm (4.60 in.) 83 mm (3.27 in.)	 144 mm (5.67 in.) 102 mm (4.02 in.)
Repeatability * (3 σ)	.002 mm (.00007 in.)	
Accuracy *	+/- .04 mm (.002 in.)	
Measurement rate	up to 50/s	
Light sources	Visible Laser Diode (VLD), class 3R	
Display resolution	.001 mm (.00004 in.)	
Line speed	unlimited	
Weight	46 kg (101.41 lbs.)	
Protection class	IP 54	
Fields of application	Plastic, rubber	

* All indicated values correspond to the system technical specification, using certified round and rectangle standards in a static position at the center of the measurement field of the unit, under controlled temperature and humidity ambient conditions.

Processor and Display Unit

– Graphical user interface with SPC, data base, remote access, I/O
– Industrial PC, LCD screen, keyboard and mouse

Data Acquisition and Processing System	
Operating system	Windows™
Display	High resolution 19" TFT colour display
Network interface	2 x Ethernet (1 x customer / 1 x Zumbach)
Communication interface	Digital in-/outputs, relay output

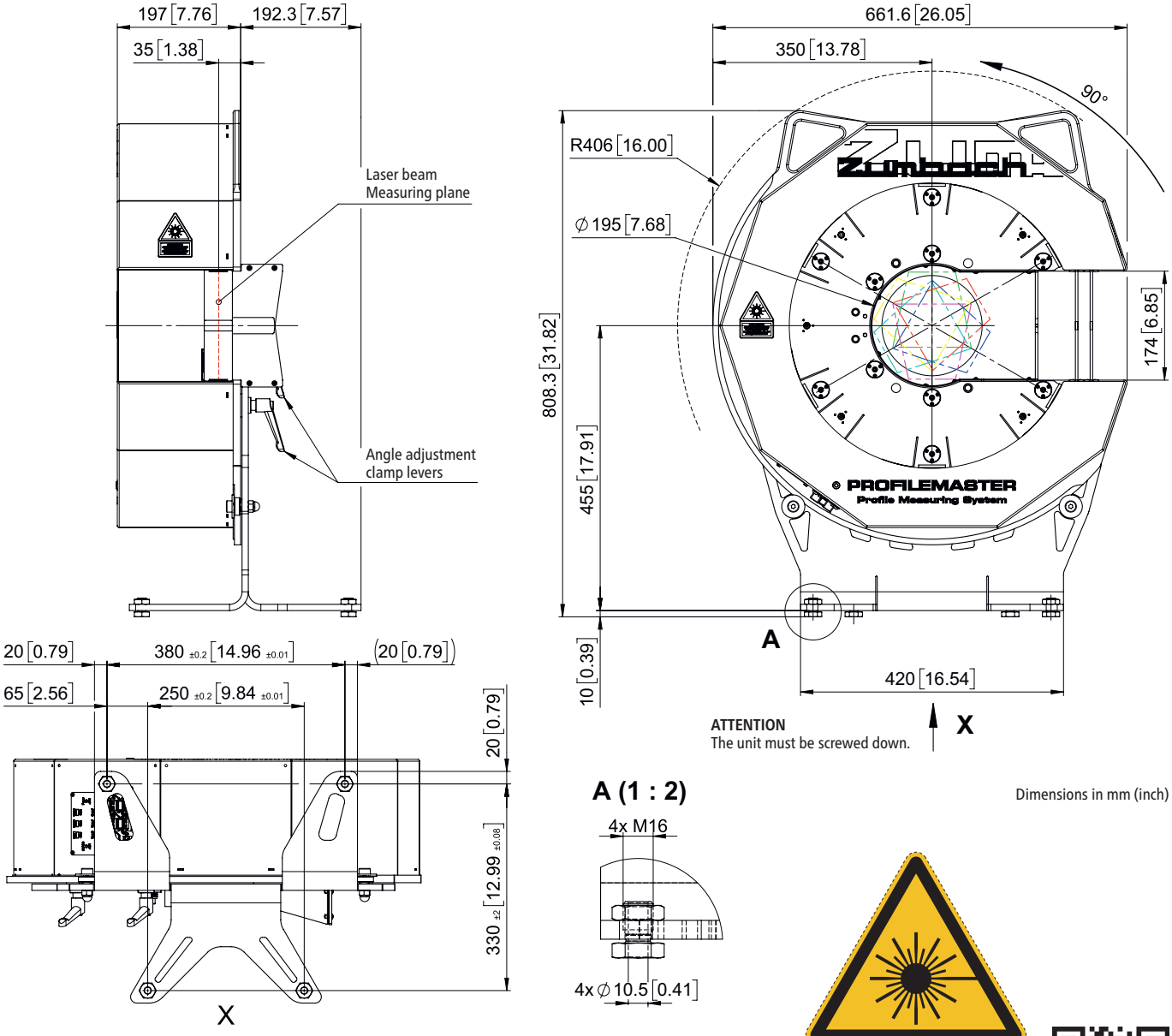
™ Windows is a trademark of Microsoft Corporation

Compact version

or

19" cabinet with reserve space for printer

Dimensions PROFILEMASTER® PMM 160-6K



Dimensions in mm (inch)

• Technical specifications are subject to change without notice

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