

## ***LaCam<sup>®</sup> M 007 Laser Profile Measuring System – new mobile version***

New laser profile measuring system, based on a laser scanner of the new generation.

The **LaCam<sup>®</sup> M 007** system is built in a sturdy mobile housing, so that a fast changing of the location is possible.

### **Laser measurement**

Principle of measurement	time-of-flight
Number of measurements points per scan	approximately 200,000
Measuring time per scan	approximately 20 s
Hot measuring range	2 – 20 m
Repeatability	± 5 mm
Max. surface temperature	1700 °C
Resolution	1 mm

### **Technical data of the scanner**

Scan angle of line scan	80 ° fixed
Scan angle of frame scan	0° - 360° selectable
Laser wavelength	0.9 µm (near infrared)
Optional pyrometer range	800°C – 1700°C
Cooling of the head	Water cooling
Laser safety class (total system is eye safe)	class 1 laser product

### **Control and operator unit**

Industrial-type computer	CPU Pentium <sup>®</sup> 4, 2 GHz (latest standard)
512 MB RAM, PC 100	
DVD/CD-ROM, 40GB hard disk or higher, network connections, 100 MBit Ethernet, 11 Mbit WLAN, USB Interface (Specifications according to latest standard)	
Display unit	TFT 15.1 " with IR-touch screen
Operating system	WINDOWS XP <sup>®</sup> Professional

## Mobile unit

Frame	stainless steel
Heat protection	aluminium
Displacement equipment	two-wheel axle with leak proof tires
Dimension	
movement	740 x 1560 x 900 mm (W x H x D)
measurement	740 x 2255 x 900 mm (W x H x D)
Weight	approximately 220kg
Power supply module	system for line-independent operation of approximately 90 min

## 1. Documentation

The documentation of the unit will be in three fold, which will be handed over to the customer when the unit is put into operation. The documentation includes the technical description of the system, an installation description as well as the description of the software installed.

The following components are also included:

- Operating systems for all units
- Installation disks/CD Roms of the system software

## 2. Software

The **LaCam<sup>®</sup>** system package includes all measuring and evaluation software, which is needed for operation of the unit as well as the Windows XP<sup>®</sup> Professional operating system, all as licensed original version.



**FERROTRON<sup>®</sup>, LaCam<sup>®</sup> and Scantrol<sup>®</sup> are registered trademarks of Minerals Technologies Inc. or its subsidiaries in the United States and Germany.**

*Pentium is a registered trademark of Intel Corporation*

*Windows XP<sup>®</sup> and MICROSOFT WINDOWS<sup>®</sup> are registered trademarks of Microsoft Corporation.*

*File: M-FE-30-PDF-M007*

*Update: Feb 2008*