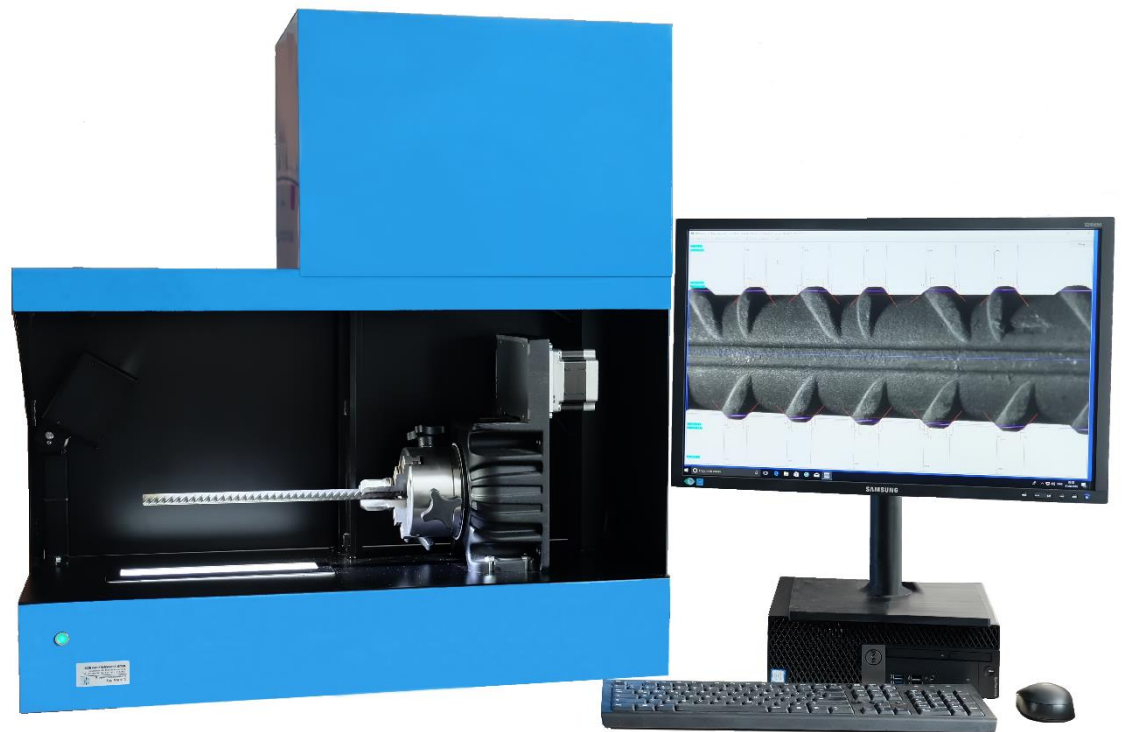


Technical Features

Rib measuring system



ECM Datensysteme GmbH
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Rib measuring system

Field of application

- Production
- Quality monitoring
- Incoming goods inspection

Measuring principle

- Optical measurement
- Quickly and contactless
- Precise und reliable
- Automatic or manual

Measuring characteristic

- ✓ Rod cross-section and diameter
- ✓ Rib height at the centre and at the quarter-points
- ✓ Centre distance of the ribs
- ✓ Head width and foot width of the ribs
- ✓ Inclination of the ribs to the rod axis
- ✓ Distance between rows of ribs
- ✓ Specific rib area
- ✓ Height and width of longitudinal ribs

Compatible with international standards

Compact and robust device design

Reliable quality assurance
Clear output of the measuring results



Easy to use and settings

Long term support

Simple setup and uncomplicated software



Rib measurement system RM-Series

Technical specifications		RM203	RM303	RM603	
General info	Size (WidthxHeightxDepth) [cm]	650x790x300	830x860x350	750x820x350	
	Weight [kg]	34 ... 37	50 ... 53	55 ... 60	
	Power supply	110... 240 VAC, 50 Hz ... 60 Hz, max. 2A			
	Location	Workshop, laboratory or office			
	Ambient temperature [°C]	5 ... 45			
	Relative humidity [%]	5 ... 95 non condensing			
	Number of cameras	2	3	3	
	Image capture	2/3" b/w CMOS camera			
Part size	Nominal diameter [mm]	4 ... 22	4 ... 50	4 ... 50	
	Sample length [mm]	200 ... 1000			
	Number of rows	2 ... 6			
Accuracy	Rib height [mm]	Measuring range	0 ... 4.0	0 ... 8.0	0 ... 10.0
		Accuracy	0.01		
		Repeatability	0.01		
	Rib distance [mm]	Measuring range	2 ... 180	2 ... 230	2 ... 400
		Accuracy	0.1		
		Repeatability	0.1		
	Rib inclination β [°]	Measuring range	45 ... 90		45 ... 90
		Accuracy	+/- 2		+/- 1
		Repeatability	+/- 2		+/- 1
	Rib flank inclination α [°]	Measuring range	35 ... 70*		10 ... 90
		Accuracy	+/- 5		+/- 1
		Repeatability	+/- 5		+/- 1
*depends on direction of rib to the rod axis					
Software	Measurement software*	Hot and cold roller concrete steels, Profiled and profiled (intended) materials			
	Data storage	Integrated database Local or Server			
	Data management	Export to MS-Excel, Data export ASC-II			
	Evaluation	European and international standards			
	Unit of measurement	Millimeter or Inch			
	*By special material, please contact to advise.				
Including	Part loading	Manual three jaw chuck			
	Computer and periphery	The system comes with current state of technology equipment.			
	Software license	RM-Software; developed together with companies of the concrete steel industry			
	Warranty	2 years			
	Language	German, English, French, Spanish, Chinese, Turkish, Czech, ...			
Options	Set of calibration tools	Certified calibration tools with certificate by german institute			
	Delivery, Installation, Training	These services can be useful but are not necessary.			
	Maintenance and calibration	Maintenance and calibration can be performed by user or by ECM (annually).			
	Laser-Triangulation system*	Additional triangulation components for height and width of longitudinal ribs			
	* The device RM 603 already includes the laser triangulation system.				