

Technical Features

Rib measuring system







ECM Datensysteme GmbH April.2023



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 nominal diameter
- ✓ Rib height at the centre and at the $\frac{1}{4}$ and $\frac{3}{4}$ points
- ✓ Rib spacing
- ✓ Head width and foot width of the ribs
- ✓ Transverse rib and transverse rib flank inclination
- ✓ Distance between rows of ribs
- ✓ The relative rib or indentation area
- ✓ Height and width of longitudinal ribs
- ✓ Ovality
- ✓ Radius at the foot of the GEWI ribs

Compatible with international standards

Compact and robust device design

Reliable quality assurance Clear output of the measuring results





Easy to use Numerous measurement modes Long term support

Simple setup and user friendly software



Rib measuring system RM-Series

Tecl	Technical specifications			RM 205	RM 305	RM 605
	Size (WidthxHeig	htxDepth)	[mm]	650x810x320	830x860x360	780x870x415
General info	Weight		[kg]	34 37	50 53	55 70
	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 camer	
ه	Nominal diameter [mm]			4 22	4 50	4 55*
Part size	Sample length [mm]				200 1000	
	Number of rows			26		
	* By special diameter, please conta				0.00	0 10 0
	Rib height	Measuring range		0 4.0	0 8.0 0.01	0 10.0
	[mm]	Accuracy Repeatability		0.01		
	Rib distance	Measuring range		2 180	2 270	2 420
	[mm]			2 100		2 120
		Accuracy Repeatability		0.1 0.1		
5	Row distance	Measuring range		0 12	030	0 35
Accuracy	[mm]	Accuracy		0 12	0.05	0 33
155	[]	Repeatability		0.05		
₽	Rib	Measuring range		35 90 35 90		
	inclination β	Accuracy		+/- 1		+/- 1
	[°]	Repeatability		+/- 1		+/- 1
	Rib flank	Measuring range		35 75*		30 90
	inclination α	Accuracy		+/- 2		+/- 1
	[°]	Repeatability		+/- 2 +/- 1		
	* depends on dire		to the rod		esta stanla CEWI Damban	Cried Destiled and mediled
	Measurement software*			Hot and cold rolled concrete steels, GEWI, Bamboo, Spiral, Profiled and profiled (intended) surfaces or glass-reinforced plastic (GRP), glass-fiber reinforced		
				plastic (GFRP)		
ıre	Data storage			Integrated database Local or Server		
Software	Data management			SQL by ODBC, Export to MS-Excel, ASCII		
Sol	Evaluation			European and international standards		
	Unit of measurement			Millimeter or Inch		
	* By special material or surface, please			contact to advise.		
	Part loading			Manual three jaw chuck or pneumatic, only for model RM 605		
Including	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,		
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Rib measuring system RM-Series

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 605 already includes the laser triangulation system.				

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