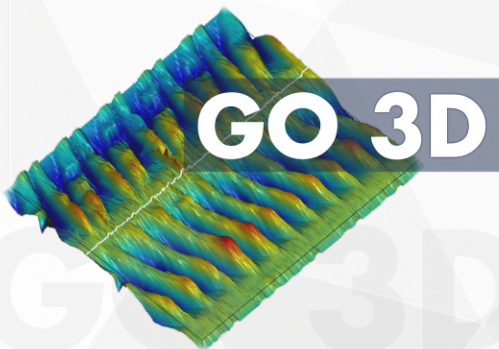


Precision at every step

Automated Measurement
and Standard Reporting of

**Steel Rebars
Ribbed Steels
Steel Meshes
Bar & Rods
Screws & Bolts**

- Precise measurement with 3D point cloud and STL technology
- Fully automated custom excel reporting on all international standards
- Manufactured for 24/7 use & Proven factory performance > 100 000 hrs
- Ease of use and speed by single click operation (Reporting in less than 3 minutes)
- Precise measurement of all rebar parameters including rib flank inclination
- Motorized chuck holder option with automated tilt stabilization
- Motorized laser scanner for accurate depth analysis for indented samples



Robotic
Line
Ready



Network
Database
Connection



Manufacturing
Quality
Continuity

TECHNICAL SPECIFICATIONS

RIB3D SERIES	EXPERT			MASTER	
MODEL	E1L	E1H	E2A	M2A	M2A+
Measurement type	3D	3D	3D	3D	3D
Rebar nominal diameter range (mm)	1-22	18-40	1-55	1-65	1-65
Maximum diameter (mm)	30	52	70	80	80
Maximum length (mm)	500	500	700	1200	1200
Accuracy	± 0.005 mm ± 0.1 deg				
Repeatability	0.002 mm 0.05 deg				
Measured sample types	Steel Rebars, Ribbed Steels, Steel Meshes, Bars & Rods, Screws & Bolts				
Measurement parameters	Rebars: Diameter, Ovality (up to 0.3 deg precision), Maximum height of transverse rib, Transverse rib spacing, Average gap between two adjacent rib rows, Transverse rib length, Relative area under transverse rib, Transverse rib head width, Longitudinal rib height, Angle between the axis of a transverse rib and the bar, Transverse rib flank inclination, Eccentricity. Bars & Rods: Diameter, Ovality, Eccentricity Screws & Bolts: Pitch, Major/Minor/Pitch diameter, Thread angle Defects & Corrosion & Metrology: User defined measurements (Width, height, distance, angle, arc, circular - rectangular – elliptical - irregular area, 3D depth, 3D topography, volume)				
Manufacturing continuity analyses by comparison	Production continuity by rebar comparison with volume and measurement parameters				
Standard reporting	Passworded in Excel format (errors are color coded) with customer logo. Reported by daily shifts.				
Custom reporting	Reporting by user defined standard				
International standard compliance	Complies with all international standards				
Software language	English (All languages at request)				
Measurement + reporting time	< 3 minutes (Fine scan setting)				
Measurement database recording	Timestamped archive: Reports + Raw data				
Network / Database connectivity	Network communication with factory database (Oracle DB server)				
Smart Manufacturing Integration	External trigger (Software TTL & Hardware High Emp. SW), PLC, MODBUS				
Autocalibration	YES (Calibration report in excel format)				
3D calibration material	Independently certified 3D calibration rod				
Illumination	Episcopic/Diascopic (420-780nm) – Laser (632nm)				
Model	E1L	E1H	E2A	M2A	M2A+
3D laser scanning unit	Optional			Optional	YES
Motorized scanning camera unit	Optional			Optional	YES
Motorized sample chuck holder	No			Yes	
Robotic Arm Integration	No			Yes	
Motorized rotational sample chuck	Yes (2000 ppr)			Yes (4000 ppr)	
Vision system	PCAM Optics (dust free sealed)				
	Scientific color CMOS		Sci.color CMOS2	Scientific color CMOS2/CMOS3	
	Planar optics			Planar apochromatic optics	
Automatic mass per metre (kg/m) measurement	Yes				
Dimension (WxDxH) (mm)	700x370x615		600x360x700	780x455x1180	
Weight (kg)	52	52	110	130	140
Operating temperature °C	5-45				
Tool PC with pre-installed software	Included (PC, Monitor, Keyboard -Mouse Set)				
Electronic controller	All USB 2.0/3.0 100-240V 50/60Hz / 10A max fused				
Certification	yes (company specific report design with logo)				
Warranty	1 years full (Service warranty extension packages available)				

PSARON HTI reserves the right to change the technical details and prices without prior notification.

www.rib3d.com

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