



eviXmatic

Automatic Scanning
and Measuring System



What is eviXmatic?

Designed and engineered by Evatronix **eviXmatic*** is an automated four-axis 3D scanning system that enables measuring and quality inspection of variable parts with minimal operator's involvement.

eviXmatic is conceived for repetitive, fast, precise measuring and quality inspection tasks and as such is a valuable addition to any production line where objects of complex shapes are manufactured.

eviXmatic may be seen as a docking station for the eviXscan 3D scanners, which perform full-field, non-contact object measurements with high accuracy. Scans obtained may be compared against a reference CAD model by means of Geomagic Control X server.

The scanner integrated in the **eviXmatic** system can be detached and used independently in other place when necessary.



Advantages of eviXmatic

- Autocalibration
- Automatic scanning procedure
- Ability to define measurement sequences
- Scanning of objects without fixing them to the rotary table
- Integration with Geomagic Control X for fully automatic generation of quality inspection reports
- Possible simultaneous scanning of several small objects in a single scanning run

*Patent pending: P. 429397

EVIXSCAN 3D

EVIXSCAN 3D



Technical Data

Maximum dimensions of scanned object	250 × 650 × 250 mm
Maximum allowable load for object aligned with the axis of rotary table	30 kg
Maximum allowable load for object not aligned with the axis of rotary table (e.g. closer to the table edges)	10 kg
Number of motorized axes	4
Maximum object displacement	rotary table: 360° rotation
	horizontal: 700 mm linear movement
	vertical: 800 mm linear movement
Maximum 3D scanner displacement	tilt: -10° ÷ 85°
Drive type	stepper motors
Device dimensions	length: 1443 mm
	width: 515 mm
	height: 1234 mm
Device weight	51 kg
Rotary table diameter	450 mm
Power	eviXmatic: 230 V AC, 200 W
	HD Quadro scanner: 230 V AC, 90 W
	HD Optima scanner: 230 V AC, 36 W



Scanning characteristics

	HD Optima scanner	HD Quadro scanner
Light-source	Blue LED	R/G/B LED
Cameras	2 × 5 Mpix	4 × 5 Mpix
Accuracy*	up to 0.0183 mm	up to 0.0130 mm
Measuring range	250 × 170 × 120 mm	wide range: 370 × 265 × 150 mm fine range: 210 × 145 × 90 mm
Point density	116 pt/mm ²	wide range: 50 pt/mm ² fine range: 161 pt/mm ²
Software	eviXscan 3D Suite 2.0 or later	eviXscan 3D Suite 2.0 or later
Export formats	stl, ply, obj, asc, bin	stl, ply, obj, asc, bin
Interfaces	HDMI, USB 3.0	HDMI, USB 3.0

*Value of parameter Ps measured according to the standard VDI / VDE 2634, Part 2, 4.1



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