RoboScan M

RoboScan M provides fast and flexible measurements with high repeatability for horizontally oriented, up to 1500 mm long parts.

RoboScan M is designed for quality control needs of small to large sized circular symmetrical parts like passenger car and truck shafts.

Standard system features

- **Enclosure**
  The robot is located inside the safety enclosure which houses the entire measurement movement system. The safety enclosure is equipped with an emergency stop system, two safety doors at the front and one safety (service) door on the left side to access the sensor storage rack for sensor maintenance. Electric cabinet is integrated to enclosure.
- **Robot**
  - ABB Industrial Robot
  - ABB Robot Controller
  - ABB Teach Pendant
- **Horizontal rotation unit with manual chuck**
  ABB MU-200 motor unit rotates the sample. 3-jaw chuck can be equipped with exchangeable custom jaws as an option. Chuck can be replaced with drive head.
- **Shaft bed**
  Movable sample bed on the guide rail supports the shaft while preparing for the measurement. The distance between the supports is adjustable. The bed is equipped with easily exchangeable support V-blocks.
- **Tailstock**
  The tailstock clamps the part to be measured between the centers automatically when the safety enclosure doors are closed and a measurement has begun. The whole tailstock moves automatically on the linear guide to adjust to samples of different lengths.
- **Keyboard and monitor mount**
  Ergonomic keyboard and monitor mount with the position adjustable for each operator.
- **Controls**
  Touch screen with integrated control panel.
- **Measurement programming software**
  Measurement programming software takes care of running the robot when wanted programs are created. Creating measurement programs is made easy. Measurement programming software is connected with ViewScan measurement data analyzing software. As standard there are two options for measurement programming software (depends on the part to be measured):
  - Stresstech Teaching App: suitable for vertically oriented parts like hypoid gears, bearings
  - Html based human-machine interface: Suitable for shafts e.g. for measuring camshafts lobes and crankshaft journals.
- **Part indexing**
  Laser indexing/Infrared camera indexing for sample orientation definition.
- **Signal light tower**

Dimensions		
Depth	1675–1820 mm	65.94–71.97 in
Width	2500–4250 mm	98.43–167.32 in
Height	2050–2260 mm	80.71–88.98 in
Weight	1800 kg	3968 lbs

Part dimensions		
Max. diameter	320 mm	12.60 in
Max. part length	1500 mm	59.10 in
Max. part weight	300 kg	661 lbs

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Measure for success

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