FOERSTER

SENSOR SYSTEM H

For the eddy current testing of round and profiled non-ferromagnetic material with encircling coils

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Precise eddy current testing of non-ferromagnetic semi-finished products. Sensor Systems H are designed for nondestructive testing of non-ferromagnetic semi-finished products. Combined with DEFECTOMAT testing and evaluation electronics, they inspect tubes, bars and wires with round or profiled cross-sections using the eddy current method. Sensor System H is particularly suited for continuous testing and covers material diameters from 0.3 to 100 mm.

Depending on the application, encircling or segment coils are used for defect detection. In multi-differential configuration, they compare adjacent material areas and detect short surface defects with high sensitivity. An additional absolute winding supports the detection of elongated material discontinuities and can also be used for basic material mix-up testing.

The two system sizes H 40 and H 90 provide flexible adaptation to different material diameters and testing requirements. A range of test coils, protective nozzles and adapters allows the sensor system to be optimally matched to the material geometry and testing task. In addition to standard round cross-sections, profiled materials can also be inspected.

The robust and compact coil holders can be easily integrated into existing testing lines. Mechanically protected test coils and protective nozzles ensure reliable operation even in demanding production environments.

YOUR ADVANTAGES AT A GLANCE

For non-ferrous materials: Specifically designed for eddy current testing of non-ferromagnetic semi-finished products.

High defect sensitivity: Multi-differential coils detect short surface defects with high sensitivity.

Wide diameter range: For material diameters from 0.3 to 100 mm.

Flexible configuration: Compatible with encircling coils, segment coils and DEFECTOARRAY sensors.

For round and profiled materials: Different test coils and protective nozzles allow adaptation to a wide range of material geometries.

Compact integration: Space-saving design for easy integration into existing testing lines.

NORMS

DIN EN ISO 15549: Describes the general bases of eddy current testing.

TECHNICAL INFORMATION

TEST MATERIAL DIAMETER:	0.3 – 100 mm
TEST FREQUENCY RANGE:	1 – 1,000 kHz
TEST MATERIAL:	Non-ferromagnetic metals
MAX. TEST MATERIAL TEMPERATURE:	80 °C for continuous testing; 100 °C for individual part testing
SENSOR SYSTEM SIZES:	— H 40: 0.3 – 44 mm — H 90: 0.3 – 100 mm
COMPATIBLE FOERSTER TESTING ELECTRONICS:	DEFECTOMAT DA, DEFECTOMAT CI / DI, DEFECTOMAT ECM
COMPATIBLE FOERSTER SENSORS:	Encircling coils, segment coils and DEFECTOARRAY
DIMENSIONS H 40 (W × H × D):	240 × 290 × 233 mm
DIMENSIONS H 90 (W × H × D):	310 × 340 × 366 mm

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The FOERSTER Group is represented by subsidiaries and representatives in over 60 countries worldwide. You can find a complete overview on our website.

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