

Technical
Specifications

NDT PAINTBRUSH

More confident corrosion inspection

NDT PaintBrush by Zetec. An evolution in the field of corrosion inspection for the detection of wall-thickness reductions due to abrasion or erosion.

THE BENCHMARK FOR CORROSION MAPPING

The NDT PaintBrush has set a new market benchmark for corrosion mapping. This extremely agile scanner can operate on flat and curved surfaces, increasing inspection confidence by providing 100% area coverage.

The scanner has magnetic wheels that stick to a metallic surface for easier use. For non-metallic surfaces, the wheels can be detached and replaced with dedicated non-magnetic wheels. The two encoded wheels track the scanner's position and orientation in real time, allowing the operator to visually identify areas that have not been covered.

The product's intuitive operation makes corrosion mapping quick and straightforward. Coupled with the industry-leading TOPAZ® ultrasonic instrument family and UltraVision software, NDT PaintBrush is the best solution available for corrosion and wall-thickness mapping.

AGILE ON PLATES

Real-time onboard TOPAZ data position calculation allows moving freely on any 2D surface without any external mechanical constraint. Thanks to its magnetic side-by-side wheels, the NDT PaintBrush solution is a stable instrument that will stick firmly and easily adapt to any magnetic surface. When using knurled wheels, NDT PaintBrush becomes the ideal solution for the inspection of non-magnetic surfaces.

NDT PaintBrush is easy to use and requires minimum training while incorporating advanced high-performance technology. Don't miss anything and rest assured that the inspection is properly performed.



AGILE ON PIPES

NDT PaintBrush's size and ergonomics make it the perfect pipe inspection tool. The device can inspect curved surfaces and pipes with a diameter as small as 100mm (4in). UltraVision® analysis tools complete the solution allowing for data analysis and evaluation either online during inspection or as post-processing data analysis.



Figure 1: NDT PaintBrush can inspect curved surfaces and pipes with a diameter as small as 100mm (4in).

SEE THE LOCATION, SEE THE ORIENTATION

Seeing the location of the probe and data in real time during inspection ensures that the inspection process is performed well, covering the entire target area. Seeing the indications in real time allows you to properly assess the inspection process.

NEVER MISS AN AREA

NDT PaintBrush is easy to use and requires minimum training while incorporating advanced high-performance technology. Don't miss anything and rest assured that the inspection is properly performed.



Figure 1: NDT PaintBrush coupled with TOPAZ64 ultrasonic instrument.

IMAGING OF SCANNED AREA

The device makes it easy to monitor the state and evolution of the inspected part. Get imaging of scanned area as well as its stitching capabilities.

OPTIMUM PROBABILITY OF DETECTION: FIND CORROSION PITTING

Detect small wall-thickness losses comparable to 1.6mm (0.06in) round bottom holes with coverage from 2 mm (0.07in) up to 25mm (1in), giving a higher detection probability.

EXPORT TO EXCEL

Easy exporting to Excel equals a gain in productivity. You can export data to CSV files for extended compatibility with external software.

EXTENSIVE STATISTICAL DATA

NDT PaintBrush provides valuable onboard statistics that are easy to understand and analyze.

3D PLOTTING

Corrosion is easily identifiable with UltraVision 3D; get 3D plotting for outstanding rendering of corrosion data on specimen parts. The tool can specify the depth of the corrosion. Therefore, you know when action must be taken. This requires UltraVision 3D license on an external computer.



Figure 1: NDT PaintBrush pipe corrosion mapping scanner.

SPECIFICATIONS

SCANNER

Dimensions (W x H x D)	84.25 x 93.53 x 136.40mm (3.32. x 3.68 x 5.37in.)
Weight	1030g (2.27lb) without cable
	1400g (3.09lb) with 5m cable
Cable length	5m (196.85in) Optional 10m
Power supply requirement	+5V ± 10% @ 200mA
Left button	Pause and restart acquisition or if held for 3 seconds, resets encoder positions to zero (0)
Right button	Start or Stop couplant flow (with AIP irrigation pump)

INSPECTION DIAMETERS AND POSITIONING

Pipe minimum diameter - horizontal and vertical	101.6mm (4.0in)
Pipe maximum diameter	1219.2mm (48in) or flat
Maximum position deviation	±1.4mm/1000.0mm typ.

ENVIRONMENTAL

Examination surface operating temperature	-20°C to 150°C (-4°F to 302°F) Note: Intermittent operation, maximum duration of 25 min. at 150°C (302°F) with ambient temperature at 22°C (72°F)
Operating temperature	-20°C to 75°C (-4°F to 167°F)
Storage temperature	-40°C to 75°C (-40°F to 167°F)
IP Rating	Designed for IP66
European conformity	CE compliant

Please note that although they still bear the Zetec logo and branding, the ultrasound instruments and software products are manufactured by Eddyfi Technologies, whereas Zetec branded EC and SG products are manufactured by Zetec Inc. Although affiliated to Eddyfi Technologies, Zetec Inc. remains an independently managed company because of contractual obligations with the US government as a key supplier for classified business. The information in this document is accurate as of its publication. Actual products may differ from those presented herein. © 2024 Eddyfi Technologies, Eddyfi, Zetec, NDT PaintBrush, TOPAZ, UltraVision, and their associated logos are trademarks or registered trademarks of Eddyfi Canada, Inc. in the United States and/or other countries. Eddyfi Technologies reserves the right to change product offerings and specifications without notice. Eddyfi Technologies is a Previa Business Unit.