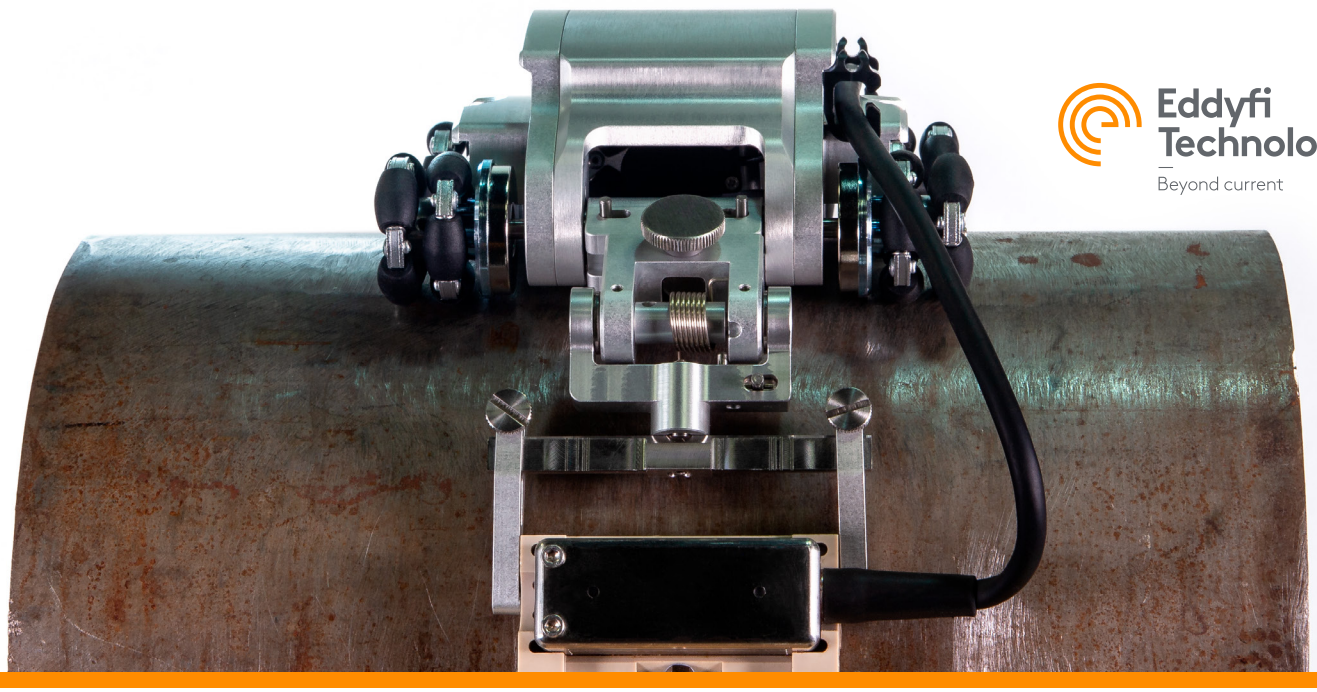


Eddyfi Technologies
Beyond current

Technical
Specifications

NDT SWEEPER

Manual 2D encoded ultrasonic scanner

NDT Sweeper™ is a highly versatile manual 2D encoded scanner that is the perfect tool for quick Ultrasonic Testing (UT) examinations.

STAY AHEAD OF THE CURVE OR FLAT SURFACES

Its small, lightweight, and ergonomic design allows operators to perform inspections in confined or difficult-to-reach areas, reducing the need to deploy an automatic scanner. Both axes are encoded, eliminating the need to draw an index line on the specimen during scanning. When inspecting horizontal cylindrical components, the scanner is intended for use on the upper half or sidewall of the pipe. Full circumferential inspection may be achieved by applying controlled positive pressure to the probe to maintain adequate coupling and mechanical support.

HIGHLY VERSATILE TOOL

- Perfectly suited for long seam weld inspection on flat specimen or pipe, and for corrosion mapping
- Easy to deploy and able to encode in raster scan across long distances, providing C-scan mapping of large composite parts
- Quick and efficient solution for the assessment of damaged or freshly repaired carbon-fiber-reinforced polymer, or CFRP, surfaces

NDT Sweeper is a compact, manually operated encoded scanner designed for flat and curved composite or carbon steel components. It's ideal for various applications including long seam weld inspections and corrosion mapping.



INNOVATIVE DESIGN

- Two integrated encoders; 2D scanning precision
- Non-marking wheels with integrated magnets; safe to use on composite, easy to use on steel
- Brake that locks the location of the scanner at the desired position
- Individual probe suspension that can be fixed axially or laterally
- Can support up to two Phased Array (PA) probes at the same time; compatible with most phased array wedges

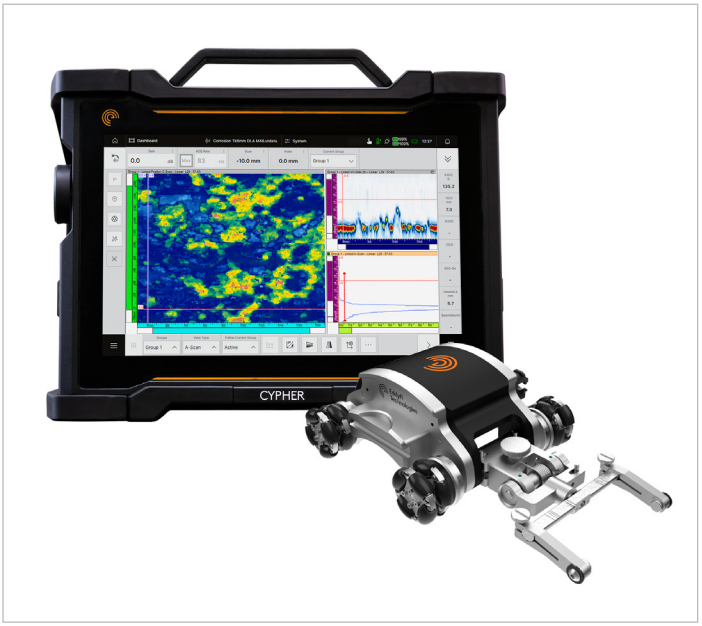


Figure 2: Cypher® paired with the NDT Sweeper.

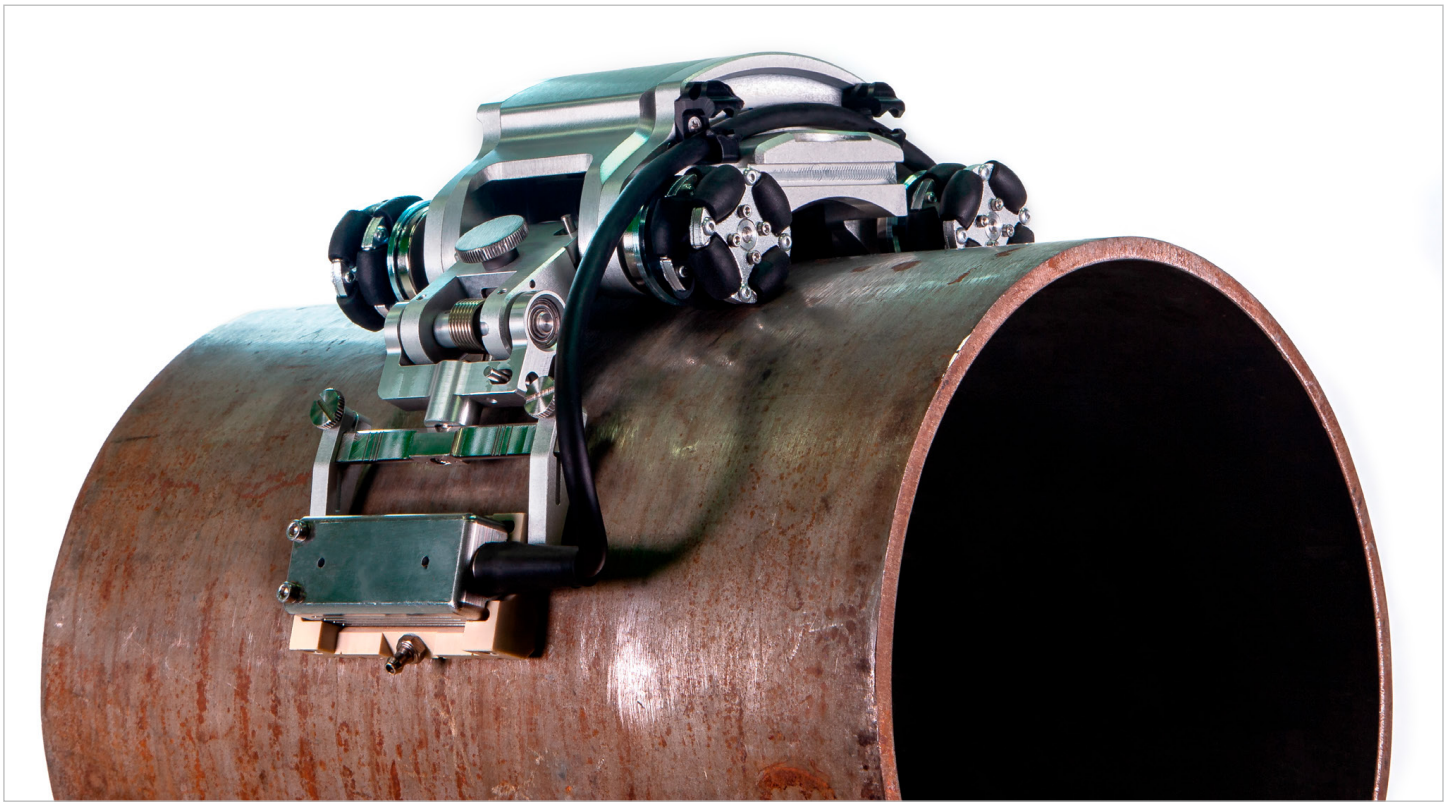


Figure 1: NDT Sweeper for weld and targeted corrosion mapping inspection.

SPECIFICATIONS

SCANNER

Dimensions (h × l × w)	70 × 144 × 146mm (2.75 × 5.67 × 5.75in) without probe
Weight	1.2kg (2.7lb)
Pipe Range, Circumferential*	100mm (4in) NPS (115mm/4.5in) to flat
Pipe Range, Longitudinal*	100mm (4in) NPS (115mm/4.5in) to flat
Radial clearance	48mm (1.9 in) on a 100mm (4in) NPS pipe; 70mm (2.8in) on plane surface
Probe holding capacity	2 phased array probes with option
PA probe holder minimum wedge width	15.6mm (0.61in)
PA probe holder maximum wedge width	75.6mm (2.98in)
Umbilical length	3m (10ft)
Operating temperature	-20°C (-4°F) to 50°C (122°F)
Environmental sealing	Designed for IP68

*The scanner is intended for use on the upper half or sidewall of the pipe. Full circumferential inspection may be achieved by applying controlled positive pressure to the probe to maintain adequate coupling and mechanical support.

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