Technical Data Sheet

WAVE-180

WAVE Probes

SG NDT WAVE probes are specially designed to perform handheld inspections of carbon steel and stainless-steel welds that have a rough surface finish. The probe is equipped with dynamic lift-off technology, which makes it ideal for inspecting painted welds without having to remove the paint. The probe's memory stores calibration data, making it easy to use and access when needed.

WAVE-180

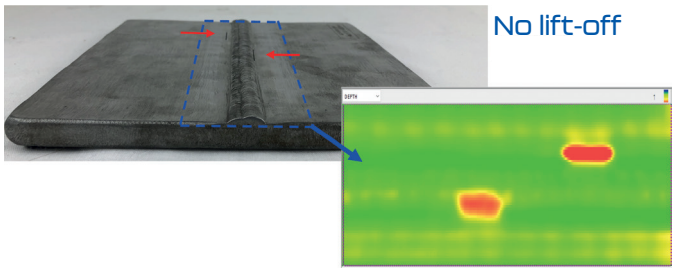
Weld Types	Butt Welds
Technology	PCB Coils
Frequency Range	50kHz Fixed
Coil OD	3.5mm
Coil Quantity	2-Rows of 8 (16 total)
Probe Coverage	56mm
Topology	Tangential Coils
Channels	16 Depth Channels 16 Length Channels (32 total)
Resolution	3.75mm
Typical Detectable Defect	> 3mm
Cable Length	3m Standard
Maximum Lift-Off	4mm
Encoder	40 counts/mm

Technical Data Sheet

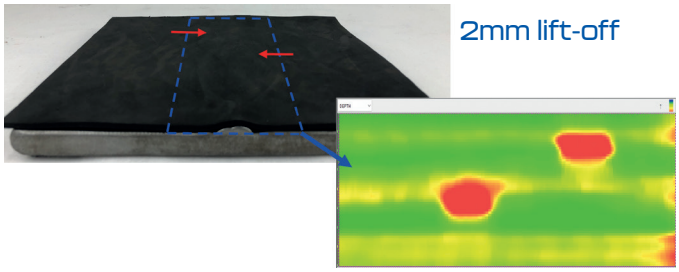
WAVE-180

Dynamic lift-off compensation

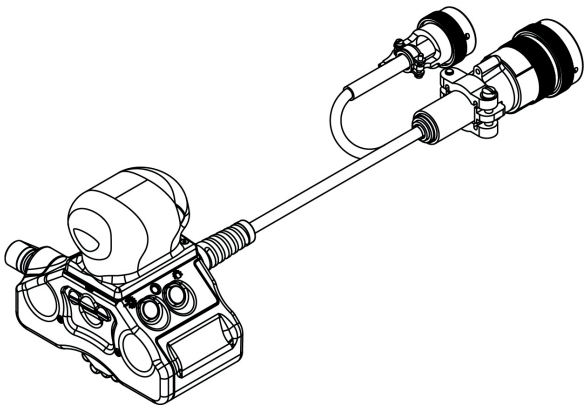
Dynamic lift-off compensation eliminates the need for complex calibration, ensuring that crack/defect signals are unaffected by lift-off variations such as paint thickness and surface condition. The Dynamic lift-off works by continuously measuring the physical lift-off of each coil, this measurement is then used to apply an automatic compensation for the lift-off parameters, ensuring that defect signal amplitude is correct regardless of the lift-off. This compensation ensures that defect indications can be measured accurately and repeatably.

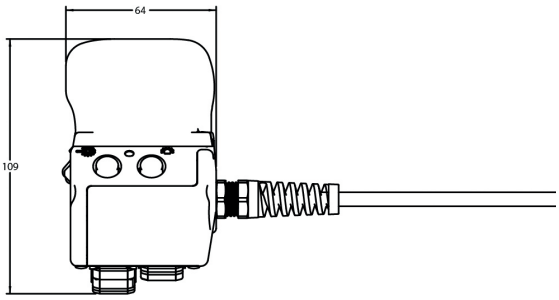


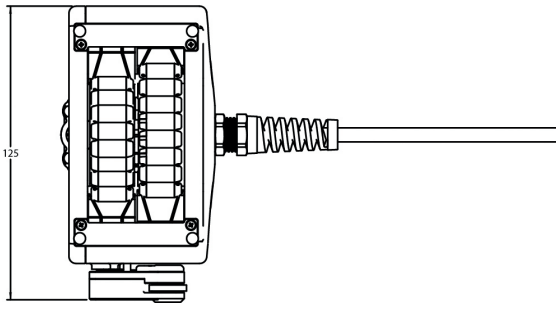
No lift-off



2mm lift-off







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we surpass standard expectations

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