

NEPTUNE SYSTEM
 ROV DEPLOYED HIGH RESOLUTION
 PIPING INSPECTION EQUIPMENT

The Neptune scanner features a hydraulically opening and closing twin collar



Neptune system:

AGR Field Operations versatile and unique ROV subsea piping inspection tool provides a platform for high resolution wall thickness mapping and state of the art weld inspection. The Neptune system, designed by a leading producer of subsea vehicles, boasts an onboard independent hydraulic operating system and is designed to interface with any inspection class ROV. Neptune includes in house developed

ultrasonic hardware and software (Technology Design) that allows real time inspection data to be transferred topside via the ROV umbilical. Neptune’s revolutionary design provides operators with alternatives to traditional subsea piping inspection.

Why Neptune?

1. HSE: the equipment can be ROV deployed and will replace some diver operated operations.
2. Cost Saving: The system can

be operated by an inspection class ROV and can be launched from the (offshore) installation. Performing the operation without the aid of a DSV will dramatically reduce operation costs.

3. Inspection quality: the high definition mapping and weld inspection capabilities of the Neptune system provide valuable engineering information which will insure accuracy of life expectancy calculations.

ITEM	CAPABILITY	COMMENT
Design depth	1000M (5000 M)	Electronic pod specification
Surface transfer	Fibre Optic / Ethernet	Through ROV umbilical
Weight	Neutral buoyant in water	Frame weight 180KG
Inspection area	360 degrees Y axis / 500mm X axis	At each inspection point
Inspection resolution mapping	1mm step on both axes	Provides 1 measurement every mm
Weld inspection	TOFD / Phased Array / Pulse Echo	On line inspection
Launching	From installation or vessel	AGR can provide complete service
Inspection diameters	8"- 40"	Present system 12"-18"
Thickness	No limitations	

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The Neptune scanner



Deploying AGR Neptune

Scope examples:

The versatile Neptune inspection tool can assist with inspection activities in several areas. Integrity inspections of subsea risers, pipelines and manifold piping are obvious areas for the Neptune, but follow up inspections after pigging inspection activities, underpinning routine visual subsea inspections and pre hot tap integrity control are also within the Neptune's scope of work.

Solutions:

AGR Field operations are in a position to offer the Neptune solution either as a complete system inclusive of ROV and launch from vessel or platform or as a stand alone inspection solution with the ability to interface to a client ROV.

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