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Taking Ultrasonics to a another level



Scorpion DCP

Remote, dry coupled ultrasonic magnetic crawler for NDE of tank structures

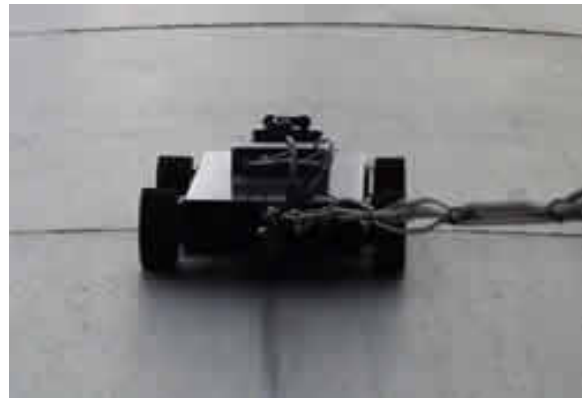
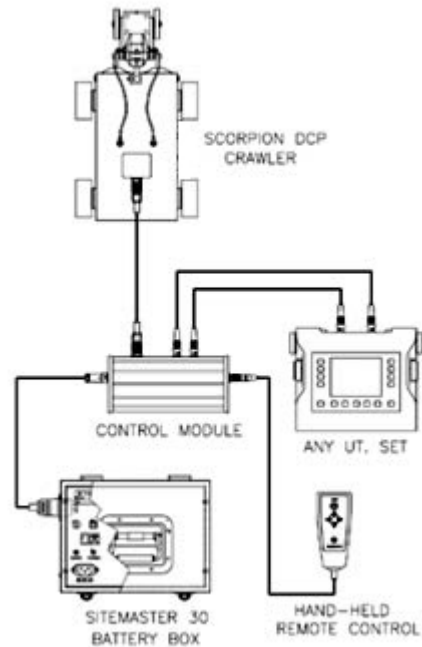
The Scorpion DCP is a rugged remote access ultrasonic crawler designed to allow cost effective ultrasound thickness measurements on above ground ferro-magnetic structures without the need for costly scaffolding or rope access.

Scorpion DCP remote access crawler uses a unique "Dry Coupled" wheel probe eliminating the need for traditional couplant. This allows the crawler to travel vertically, horizontally or even inverted whilst still fully functional.

The system is compatible with ANY ultrasonic system that can operate in Echo to Echo or Through Transmission mode. Supplied with a lightweight, flexible 50 meter umbilical cable the Scorpion DCP is capable of accessing the furthest point of most structures without the need for scaffolding. The system is battery operated and is powered by the Sitemaster 30 battery pack which is capable of up to 8 hours operation on a single charge.

Features

- Unique dry coupled wheel transducer
- Remote operation with few height and shape restrictions
- 12VDC self contained system



Technical and Performance Specification

Dimensions	Length 385mm x Width 222mm x Height 102mm
Weight without cables	4.75 Kg
Adhesion	Neodymium iron boron magnets mounted in centre of carriage
Pull off force	13.6 Kg
Drive	four (4) independent 12 volt Dc motors
Drive wheels	coated in special non-slip synthetic rubber compound
Speed	25mm/second
Umbilical Cable	Standard Length 50 metre weight 3 Kg, other lengths available
Transducer	Dry coupled wheel using "Ro-Cee"rubber 5Mhz dual/twin compression transducer
Near surface resolution	2.5mm
Power supply	28 Ah sealed lead acid gel battery pack with integral charger
Test time	Up to 8 hours complete system

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