

# INNOVATUM

LTD.

## CABLE & PIPELINE MAGNETISER SYSTEM

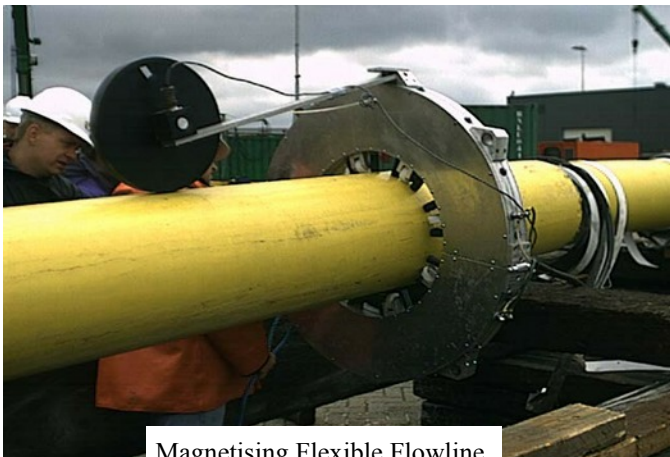
Locating and tracking buried submarine power cables, flexible flowlines and special steel pipelines has been difficult until now, and proving a depth of burial was major problem area. The best tracking systems were unable to produce data at better than 1.5 metre range from the sensing unit.

**INNOVATUM** presents it's latest magnetisation system, enabling passive tracking of power cables flexible flowlines, umbilicals and small diameter pipes at realistic ranges. Using a specially designed magnetiser tool, (shown in use at right), the magnetisation of the armour, strength members or the pipeline wall is significantly increased prior to product lay. This magnetisation may be carried out during manufacture, at cable loading to the lay vessel, or during the laying operation. The enhanced magnetisation is permanent, and the product can thus easily be located many years later. The increased magnetisation has no harmful effect on the product.



Magnetising flexible flowline

Using an **INNOVATUM SMARTRAK** tracking system in passive mode, the magnetisation signal is sufficiently large to enable very high accuracy of tracking in both the horizontal and vertical planes. Since the magnetisation is controlled, all of the product has a similar signal, giving steady repeatable data. Tests have proved detection ranges up to 10 metres with an 11 inch outside diameter product (shown left), with a measured accuracy of 12 cm or better at 2.65 metres range, measured to the centre of the product.



Magnetising Flexible Flowline

This system at last allows power cables, flexible flowlines and special steel pipelines, buried to depths of more than 1 metre, to have their depth of burial protection accurately monitored at any time. The tracking performance is unaffected by fluids or gases within the pipeline.

Use **INNOVATUM** to locate and track buried cables flexibles, pipelines, using all known methods - Passive Magnetic, Active AC (Tone), and Active DC. Only **INNOVATUM** can offer all methods simultaneously with one system.

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**INNOVATUM** Ltd.

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# INNOVATUM *Ltd*

## CABLE MAGNETISER SYSTEM

### MAGNETISATION PRICES

Effective 1 January 2011

#### 1. SMALL DIAMETER CABLES (up to 50mm Dia)

|                      |                         |
|----------------------|-------------------------|
| 0 to 1000 kilometres | GB£ 40.00 per kilometre |
| 1001 to 10,000 Km    | GB£ 20.00 per Kilometer |
| 10,000 Km plus       | Call for quotation      |

Plus:

|                 |                    |
|-----------------|--------------------|
| A) Onshore use  | GB£ 100.00 per day |
| B) Offshore use | GB£ 170.00 per day |

#### 2. LARGE DIAMETER CABLES & FLOWLINES

|                 |                    |
|-----------------|--------------------|
| A) Onshore use  | GB£ 50.00 per Km   |
| Plus            | GB£ 100.00 per day |
| B) Offshore use | GB£ 50.00 per Km   |
| Plus            | GB£ 170.00 per day |

#### 3. PERSONNEL for INSTALLATION & OPERATION

|                 |            |
|-----------------|------------|
| Per man per day | GB£ 545.00 |
|-----------------|------------|

All day rates are charged on a door to door basis

Cable tracking systems are available for lease or purchase

Magnetising units are available for lease only



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