



**Rotech  
Subsea**

"subsea excavation tools"

[www.rotech.co.uk](http://www.rotech.co.uk)



The unique T8000, capable of large scale excavations in deep water

The **Rotech Subsea** range of subsea excavation tools are the most powerful and controllable 'Mass Flow Excavators' available today. A combination of non contact excavation, real-time control and gyroscopic stability make Rotech Subsea the market leaders in this type of subsea excavation.

### Excavation Control

Rotech Subsea excavation tools utilise real-time multibeam sonar images to monitor excavations. Our hydraulic pump units have infinitely variable remote control to ensure our engineers have full command over the excavation they are monitoring. With these control features the project team can adjust the power to the equipment instantaneously to suit the clients excavation requirements.



### Equipment Deployment

Our excavation tools can be deployed in a number of ways. The T8000 and T4000 can be deployed by means of a crane, A-frame or davit and even from a drill string. The R2000 can either be deployed in the above manner or can be attached to the jib of a tracked excavator for work in shallow waters.

The small deck footprint required for our equipment (typically 10m x 10m for the largest T8000 spread) allows greater vessel flexibility, for example: DSV's, barges, supply boats and rigs.



Rotech Subsea equipment spread on location

**Solids Excavation:** >Sand >Gravel >Silt >Rockdump >Drill Cuttings >Firm Clay.

### System Advantages

- >Off-bottom technique, with no requirement to make contact with the pipeline, structure or other target. Suitable for work on live pipelines, wellheads and other sensitive infrastructure
- >Variety of water depths from very shallow to deep water
- >Accurate control of excavations with real-time sonar and remote power control
- >Environmentally friendly: all our systems run on biodegradable oil
- >Availability: bases worldwide and all tools can be air-freighted
- >Gyroscopic stability of 'T' designed excavators
- >Vessel flexibility

The small R2000 being deployed



"subsea excavation tools"





site preparation

powerful and controllable subsea mass flow excavator tools

platform excavation

containerised hydraulic power pack

oil & gas

drilling support

berth deepening / levelling

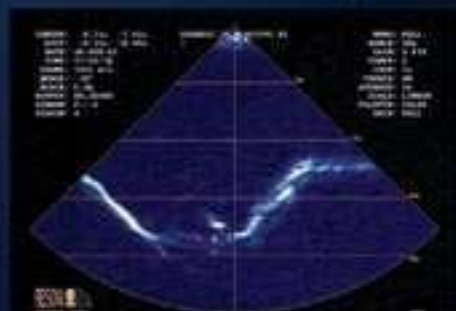
global operations

real-time sonar

shallow to deep water

deburial and cable trenching

equipment deployment



## Rotech Subsea

**Rotech Subsea Limited**  
Rotech House  
Whitemyres Avenue  
Aberdeen AB16 6HQ  
Scotland UK  
tel: +44 1224 789 222  
fax: +44 1224 683 144

**Rotech Subsea USA LLC**  
6421 Cunningham Road  
Houston  
Texas  
USA 77041  
tel: +1 281 759 1245  
fax: +1 281 759 1246

**Rotech Subsea Asia Pacific Pte Ltd.**  
1 Tanglin Road  
#03-06  
Singapore  
247905  
Tel: +65 6887 3613  
Fax: +65 6887 5750

**RSM Excavations S.A. de C.V.**  
CALLE 31 # 244  
Col. Benito Juarez  
CD. Del Carmen, Campeche  
Mexico 24180  
Tel: +52 (938)3828547  
Fax: +52 (938)3828547

**France Representative**  
Produits et Accessoires Industries SA  
15 Rue de Buglise  
76930 Cauville-sur Mer  
Paris  
Tel: +33 02 35 20 80 60  
Fax: +33 02 35 55 04 40

**Sharjah Representative**  
Unique System FZE  
PO Box 42505  
Sharjah UAE  
Email: mark@uniquegroup.com  
Tel: +971 6 513 0333  
Fax: +971 6 513 0444

## 24 Hour Global Support

With bases located around the globe we can mobilise quickly to most locations worldwide.  
For the most up to date contact information please see our website at [www.rotech.co.uk](http://www.rotech.co.uk)





"subsea excavation tools"



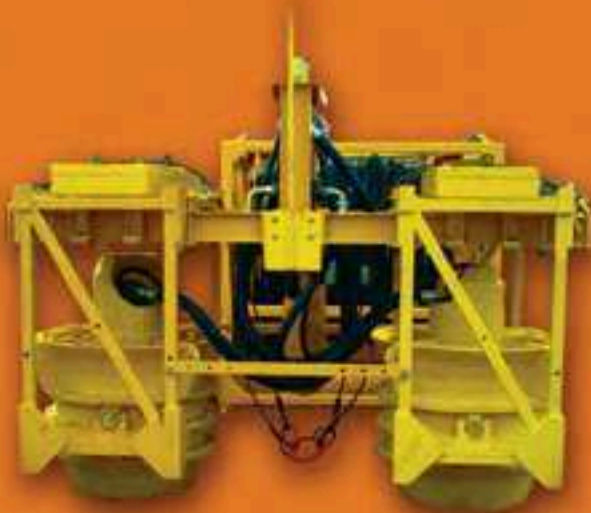
## Rotech Subsea Excavation Tools

The Rotech Subsea Excavation Tools are suitable for large and small scale excavations in deep and shallow water.

Both the T8000 and T4000 can be deployed by crane, A-frame or drill string.

The R2000LD is designed for use in shallow water on small pipelines and cables. The R2000LD can be deployed by crane, A-frame or the boom of a tracked excavator in shallow water.

The latest addition to the Rotech suite of tools is the Twin R2000LD which is a development of the standard R2000LD excavator. The re-design allows the tool to work on pipelines up to 50" diameter and in water depths as shallow as 2.5m.



### Example applications of our Excavation Tools include:

- >Pre and post-trenching, deburial and free-span rectification of pipelines, umbilical and cables
- >Civil excavation works, including harbour/berth clearance, channel maintenance and site preparation for sea defence works
- >Deburial of toppled or dropped large objects such as BOP's, jack-up legs or jackets
- >Deburial of subsea valves, well heads, templates or similar structures
- >Sandwave or general seabed pre-sweeping
- >General medium scale excavations
- >Removal of rock dump





"subsea excavation tools"  
Product Specifications

Product Description	Length (m)	Width (m)	Height (m)	Approx. Weight (kg)
<b>ROTECH T8000</b> Excavation Tool	5.9	2.1	3.2	8,000
Containerised HPU	6.1	2.4	2.6	14,500
Spares and Tools Containers	6.1	2.4	2.6	8,000
Hydraulic Hose Reel	3.0	3.0	3.0	12,500
<b>ROTECH T4000</b> Excavation Tool	3.8	1.9	2.2	5,500
Containerised HPU	2.4	2.4	2.6	7,000
Spares and Tools Containers	6.1	2.4	2.6	8,000
Hydraulic Hose Reel	2.8	2.8	3.0	7,000
<b>ROTECH TWIN R2000LD</b> Excavation Tool	3.0	1.6	2.5	5,500
Containerised HPU	2.9	1.9	2.0	4,800
Spares and Tools Containers	6.1	2.4	2.6	6,000
Hydraulic Hose Reel	2.1	2.1	2.2	5,600
<b>ROTECH R2000LD</b> Excavation Tool	1.5	1.5	1.1	1,500
Containerised HPU	2.4	2.4	2.6	7,000
Spares and Tools Containers	6.1	2.4	2.6	8,000