

Creative
Well Intervention Solutions

a vision

Specialist Wireline
Fishing Tools
an advanced
intervention solution



Creative
Well Intervention Solutions

Wireline Engineering serves its upstream oil & gas customers by developing innovative wireline and flow control products that add tangible value to their well intervention activities. We are committed to the success of all our Customers, by finding smarter, easier and better ways to meet their operational and business goals. Wireline Engineering combines operational experience, creative design, state of the art manufacturing and product testing facilities to generate smart products and fast-track solutions, worldwide.

Specialist Wireline Fishing Tools *an advanced intervention solution*

When a fishing operation is required, you need to have the right tools at hand or know where to find them, fast. You also need to know they will do the job for you.

Wireline Engineering has a proven track record of producing innovative solutions for all kinds of fishing requirement and has used this experience to develop a range of proprietary fishing equipment, available on a sale or rental basis. However, since no two fishing operations are ever identical, Wireline Engineering is also able to offer the benefit of many years experience to advise on deployment or tailoring particular products to a specific application. Modifications can be tested in-house to assure function in the field. Wireline Engineering offers the complete package - off the shelf proprietary equipment or fast-track bespoke product design.

For more information on these or other Wireline Engineering products, please contact your nearest sales office.



Expandable Wirefinder

Closed

Open

The Expandable Wirefinder designed to pass through an ID restriction and then expand to locate wire or debris in larger diameter tubing. Conveyed in the closed position within a special drop-off running sleeve, the Expandable Wirefinder exits and expands once the sleeve comes to rest on a nipple no-go or other suitable change in diameter within the tubing.

A unique system of lightweight spring-plate petals acts as a feeler to locate and give positive indication of the position of broken wire or debris within the well bore. These petals provide a high expansion ratio, allowing the same tool to cover a range of tubing sizes. Once the wire or debris has been located, the Expandable Wirefinder is picked back up to collapse once again inside the drop-off sleeve, allowing the entire assembly to be recovered to surface.



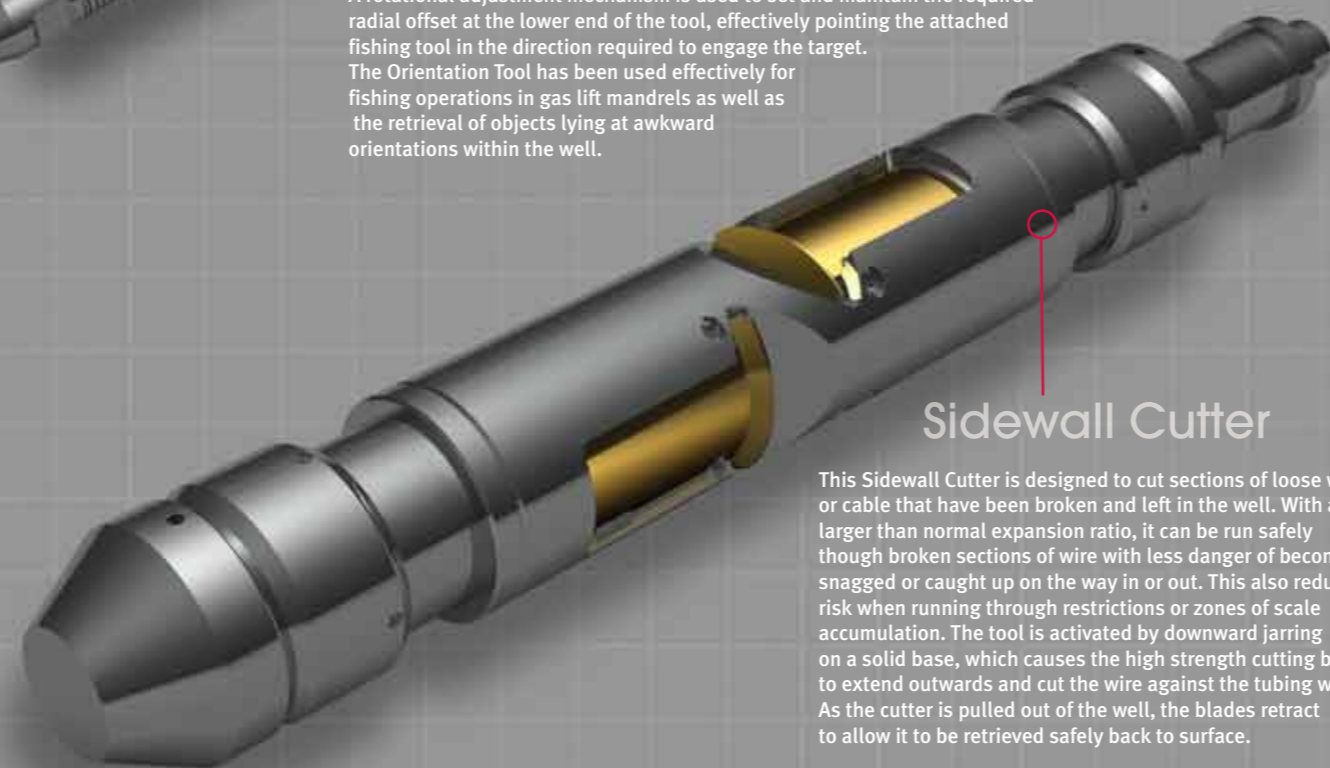
Low Side Indicator

Orientation Tool

Confirming the orientation in the wellbore of lost or stuck equipment can provide vital information and better decision making when it comes to fishing. The Low Side Indicator tool provides a routine method of establishing the position of a fish or toolstring, relative to the low side of the well. It can be positioned almost anywhere in a wireline toolstring and, once actuated downhole, captures a permanent record of fish orientation.

The Orientation Tool is designed to guide a fishing tool accurately onto a target object in the wellbore. Information is obtained about the position of the target using a Low Side Indicator and this knowledge is used to pre-configure the Orientation Tool, so that it will accurately direct a fishing tool on to the target.

The Orientation Tool has a weight biased body that keeps the tool oriented on the low side of the well where it runs on a series of rollers. A rotational adjustment mechanism is used to set and maintain the required radial offset at the lower end of the tool, effectively pointing the attached fishing tool in the direction required to engage the target. The Orientation Tool has been used effectively for fishing operations in gas lift mandrels as well as the retrieval of objects lying at awkward orientations within the well.



Sidewall Cutter

This Sidewall Cutter is designed to cut sections of loose wire or cable that have been broken and left in the well. With a larger than normal expansion ratio, it can be run safely through broken sections of wire with less danger of becoming snagged or caught up on the way in or out. This also reduces risk when running through restrictions or zones of scale accumulation. The tool is activated by downward jarring on a solid base, which causes the high strength cutting blades to extend outwards and cut the wire against the tubing wall. As the cutter is pulled out of the well, the blades retract to allow it to be retrieved safely back to surface.



Releasable Fishing Spear

The Releasable Fishing Spear is used for the recovery of downhole equipment with damaged or missing internal fishing necks. It can be converted for either jar-up or jar-down requirements and can be customised to suit all fishing requirements.



Releasable Overshot

The Releasable Overshot is used to recover downhole equipment with missing or damaged external fishing necks. It is supplied with a range of full-radial-contact slips to suit all external diameters, with adjustable "tool swallow". The Releasable Overshot can also be modified to suit specific requirements by using customised probes, guides, etc.

In addition to the specialist tools illustrated above, Wireline Engineering also offer a comprehensive range of standard wireline fishing equipment

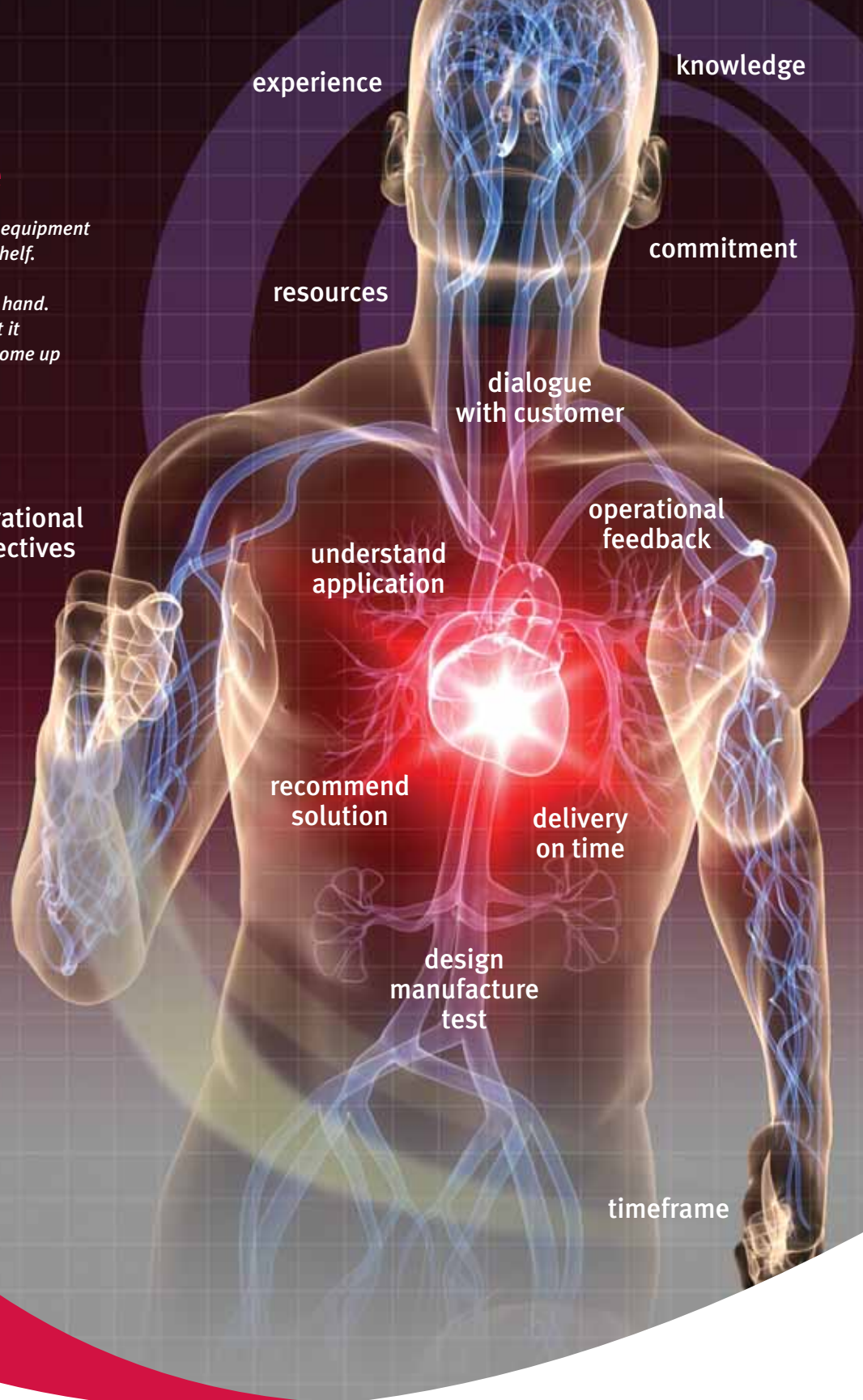
- Spears • Grabs • Jars • Grapples • Tool Carriers
- Overshots • Hydrostatic Bailers • Cutters
- Pulling Tools • Guides • Drop Bars • Finders
- Super Magnets • Blind Boxes • Impression Blocks



Fishing Tool Design and Advisory Service

There will be times when the fishing equipment you need just isn't available on the shelf. You know what you want to achieve but you just don't have the means at hand. You need someone to advise on what it will take to get the job done and to come up with it in a hurry.

You also need to feel confident that someone out there is able to understand your problem and has the experience and knowledge to deliver the right solution, in your timeframe.



All Under One Roof

Extensive Operational Experience

Creative Design Team

State Of The Art Manufacturing

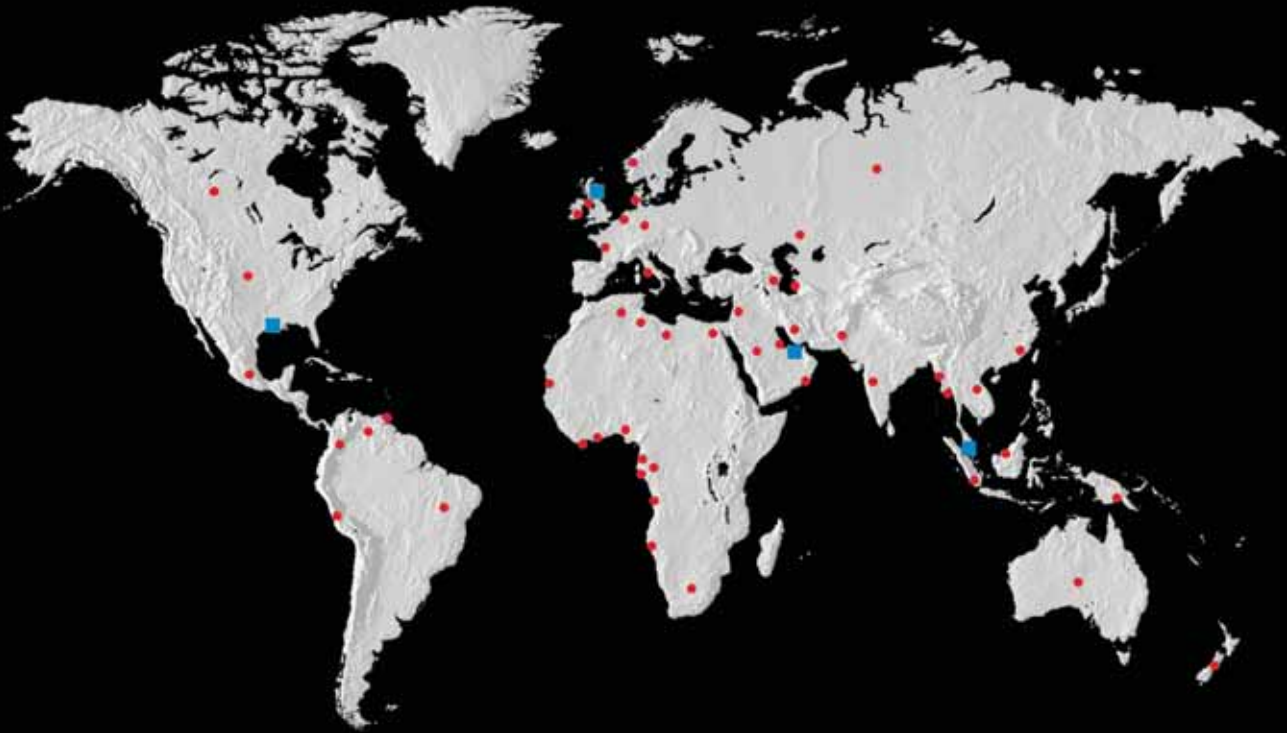
Multi-functional Testing Facilities

Rigorous Quality Assurance

24 hour Service

Over the years, Wireline Engineering has helped to deliver inventive solutions for a great many fishing applications, in a wide range of operating conditions, and has accumulated on record a large database of designs and lessons learned.

This experience can be invaluable when you need the right solution - and you need it in a hurry.



WELLBOSS® and Roller Bogie® are trademarks of Wireline Engineering Ltd and must not be used without the express written permission of Wireline Engineering Ltd.

Roller Bogie® is protected by granted and pending patents worldwide.

Copyright April 2009. All rights reserved. No parts of this publication may be reproduced or distributed in any form or by any means, or stored in a data base or retrieval system, without the prior written permission of Wireline Engineering Limited.

● Countries where we do business ■ Wireline Engineering offices

Europe, Caspian and West Africa

Wireline Engineering limited
Technology House
Blackburn Business Park
Blackburn, Aberdeen AB21 0PS
United Kingdom
T +44 (0) 1224 798000
F +44 (0) 1224 791410
E AB.sales@wireline-engineering.com
www.wireline-engineering.com

South East Asia and Australia

Wireline Engineering limited
3 Elitis Tiara Selatan
Valencia
Sunghai Buloh
Selangor 47000
Malaysia
T +60 (0) 3 6141 8708
F +60 (0) 3 6141 8708
E KL.sales@wireline-engineering.com
www.wireline-engineering.com

North and South America

Wireline International LLC
1406 West Pinhook Road
Lafayette
Louisiana LA 70503
United States of America
T +1 (337) 267 7888
F +1 (337) 267 7476
E sales@wireline-international.com
www.wireline-international.com

Middle East, North Africa and India

Wireline Engineering limited
PO Box 45072
Abu Dhabi
United Arab Emirates
T +971 (0) 2 639 2273
F +971 (0) 2 631 2325
E AD.sales@wireline-engineering.com
www.wireline-engineering.com

