

Creative
Well Intervention Solutions

a vision

RollerBogie®
High Deviation Jar
an advanced wireline solution

wireline 
engineering

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.

Roller Bogie®

High Deviation Jar an advanced wireline solution

At Wireline Engineering, we believe we have designed the best mechanical jar in the world, providing improved surface visibility and control of downhole events, with unbeatable impact forces, up or down. This is a development that allows effective jarring at high deviation, provides greater jar performance and minimises your risk of mis-runs and non-productive time.

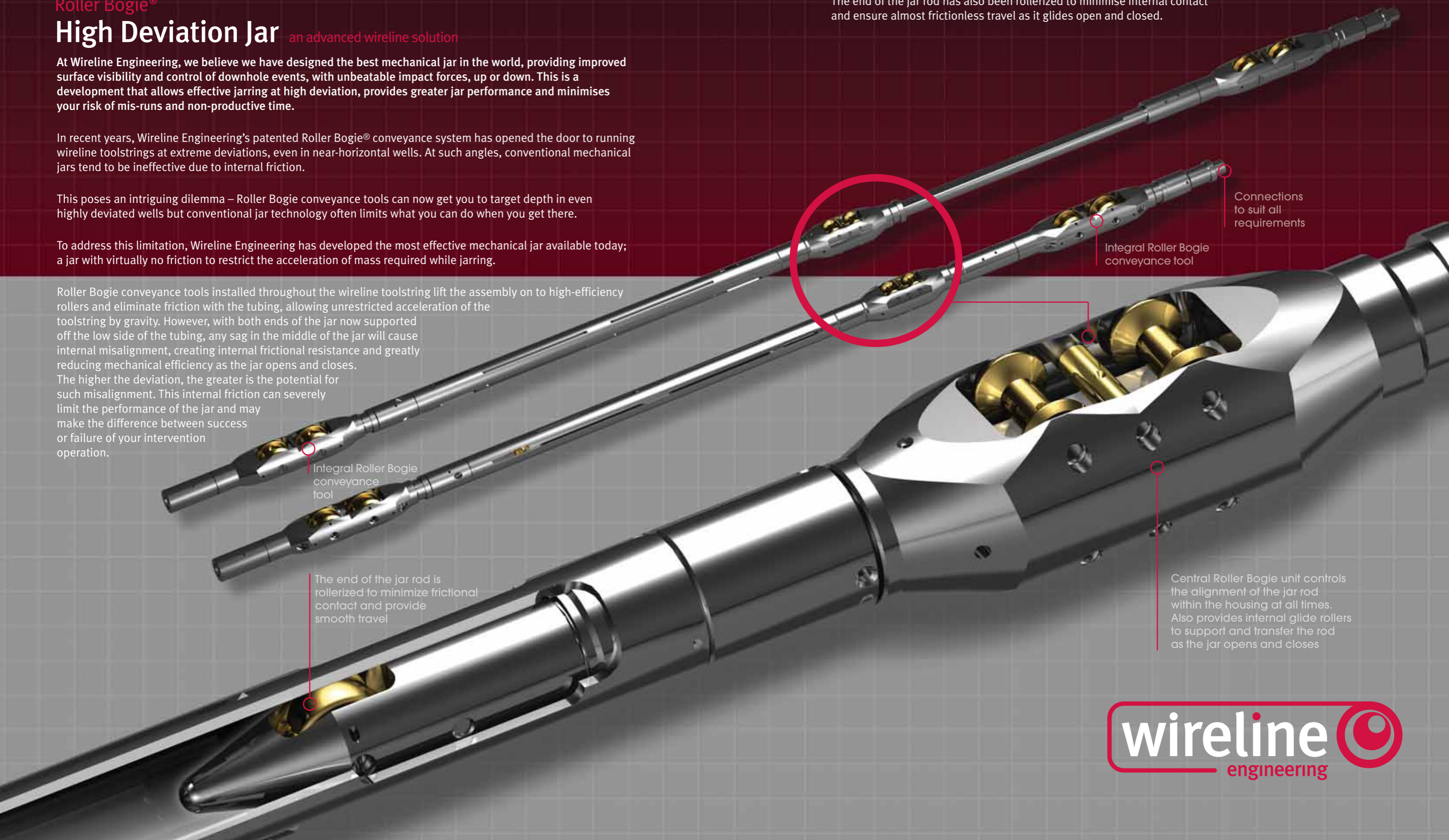
In recent years, Wireline Engineering's patented Roller Bogie® conveyance system has opened the door to running wireline toolstrings at extreme deviations, even in near-horizontal wells. At such angles, conventional mechanical jars tend to be ineffective due to internal friction.

This poses an intriguing dilemma – Roller Bogie conveyance tools can now get you to target depth in even highly deviated wells but conventional jar technology often limits what you can do when you get there.

To address this limitation, Wireline Engineering has developed the most effective mechanical jar available today; a jar with virtually no friction to restrict the acceleration of mass required while jarring.

Roller Bogie conveyance tools installed throughout the wireline toolstring lift the assembly on to high-efficiency rollers and eliminate friction with the tubing, allowing unrestricted acceleration of the toolstring by gravity. However, with both ends of the jar now supported off the low side of the tubing, any sag in the middle of the jar will cause internal misalignment, creating internal frictional resistance and greatly reducing mechanical efficiency as the jar opens and closes. The higher the deviation, the greater is the potential for such misalignment. This internal friction can severely limit the performance of the jar and may make the difference between success or failure of your intervention operation.

Wireline Engineering has solved the friction problem by controlling the alignment of the upper and lower sections of the jar assembly and eliminating sag. This is achieved by supporting the open end of the jar housing with a central Roller Bogie unit, sized to match the Roller Bogie tools run above and below the jar, and which provides a platform for the moving jar rod. The end of the jar rod has also been rollerized to minimise internal contact and ensure almost frictionless travel as it glides open and closed.



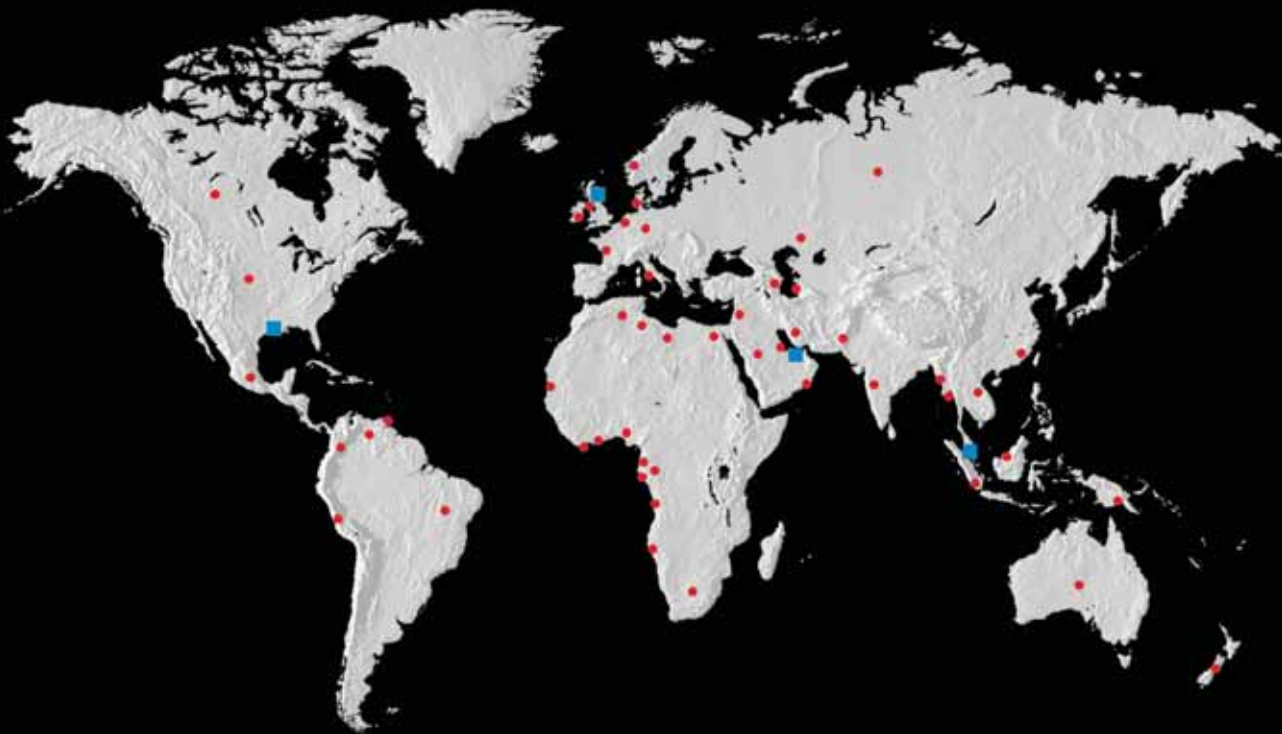
Connections to suit all requirements

Integral Roller Bogie conveyance tool

Integral Roller Bogie conveyance tool

The end of the jar rod is rollerized to minimize frictional contact and provide smooth travel

Central Roller Bogie unit controls the alignment of the jar rod within the housing at all times. Also provides internal glide rollers to support and transfer the rod as the jar opens and closes



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

