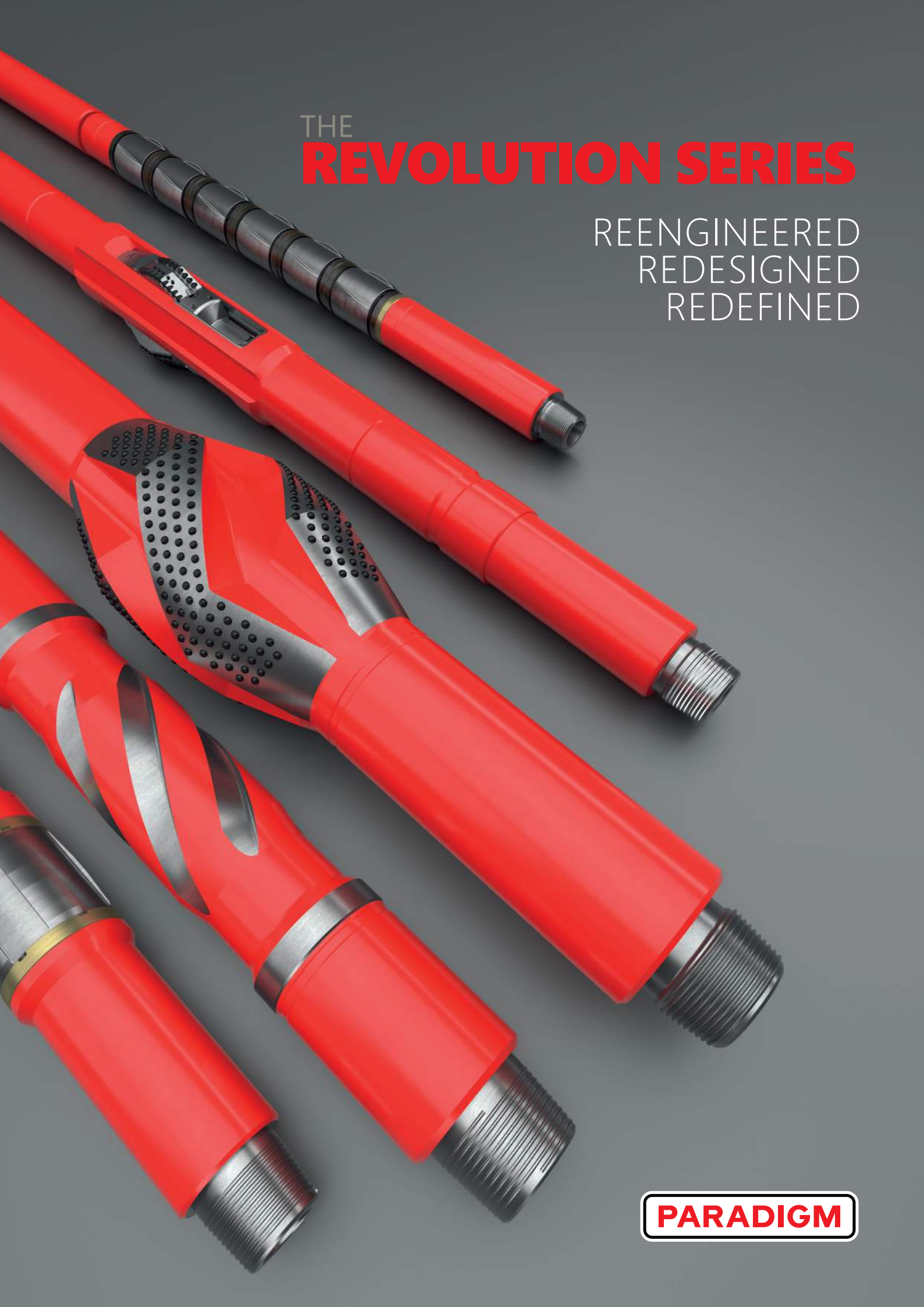
THE
REVOLUTION SERIES
REENGINEERED
REDESIGNED
REDEFINED
PARADIGM

PARADIGM

# JOIN THE REVOLUTION...

The Revolution Series tools is reengineered, redesigned and redefined and celebrates our ability to tackle any drilling requirement. They are more efficient and focused than ever before - paving the way to further cost reductions and highly optimised drilling operations.

## DRIVER

- Next generation of weight transmission technology
- Skewed rollers help pull upper BHA into tension
- Converts 40-60% of collar side force into traction
- Combines downhole traction with torque reduction
- Significantly reduces downhole vibrations
- Leads to reductions in Stick-Slip
- Reduces drilling costs through improved drilling efficiency
- Proprietary mud lubricated elastomeric bearings
- Standard pony drill collar dimensions
- Full bore ID
- One piece low-profile rollers

## RUNNER

- Reduces drill string wear and fatigue
- Minimises torque and drag
- Minimises casing wear
- Can help to reduce mechanical cave-ins
- Improves drilling efficiency
- Mitigates vibration

## REAMER

- Alternative for conventional roller reamer with enhanced capabilities and zero risk
- Low torque point stabilisation with 75-80% smaller contact area than standard stabiliser
- Specifically designed to ream ledges and micro doglegs
- Significantly reduces torque and drag and delivers similar reductions to roller reamers
- Extreme gauge protection for abrasive drilling conditions
- Ideal for hard rock drilling with stringers or chert nodules
- Suitable for drilling long hole sections where roller reamer bearings are rev limited
- Individual brazed inserts replaces traditional hard facing methods

# REENGINEERED, REDESIGNED, REDEFINED...

The challenge: to take the already well proven products in the portfolio and reengineer them using the latest software and materials to provide a further step change in drilling performance.
The launch of the Revolution Series of drilling tools completes this challenge and delivers industry leading performance in improving drilling efficiency and reliability while reducing costs for the operators.

## EXTREAMER

- Effective and field proven hole enlargement capabilities
- Robust and durable PDC cutting structures
- Blades will retract on retrieval
- Held open using hydraulics and/or set-down weight
- Can support assembly weight without collapsing blocks
- Dedicated nozzles to cool and clean each of the cutter blocks
- Integral assembly locked by service connection

## REBEL

- Integral Cuttings Blade design based on PDS Enhanced Performance Drillpipe
- Proven cuttings bed lifting capability
- Short body length allows subs to be racked back as part of a stand
- One piece body offers high rigidity and better performance in compression
- Enhanced gauge protection
- Cuttings at surface in reduced number of bottoms up
- Increased size of cuttings at surface (+14%)
- No measured increase in ECD's
- Reduction in torque/drag and pick up weight
- Reduce/eliminate wiper trips and backreaming
- Eliminate differential sticking
- Minimal tool wear (+750 rotating hours)

# ABOUT US

**Established in 2009, Paradigm Drilling Services are a company focused on significantly improving drilling efficiency in the world's most demanding wells. Our product range offers our clients the chance to deliver more demanding wells on time and at reduced costs.**

Structured to continually strive to improve our product range and deliver step changes in drilling performance, we develop and deliver game changing drilling technology. Our current R&D effort expands the realms of ERD and horizontal drilling to meet the requirements for todays and tomorrows demanding drilling applications.

The company holds a stock of enhanced drilling tools & assets and operates from a modern facility just outside Aberdeen. Our customer base extends from the core home market in the UKNS to East and West Africa, Scandinavia, Europe, The Middle East and as far afield as Latin America. The combination of high quality equipment, a service based culture and innovative engineering prove to be strong drivers for both growth and internationalisation.

**Paradigm Drilling Services Limited**
Howe Moss Drive, Kirkhill Industrial Estate, Dyce
Abderdeen AB21 0GL
United Kingdom

T: +44 1224 725 888
E: drilling@paradigm.eu

**PARADIGM SHIFT. SHIFT TO PARADIGM.**

**www.paradigm.eu/drilling**

©2024 Paradigm Drilling Services. All rights reserved.
Please note that all technology and components may be covered by worldwide patents.

rev 04-2022