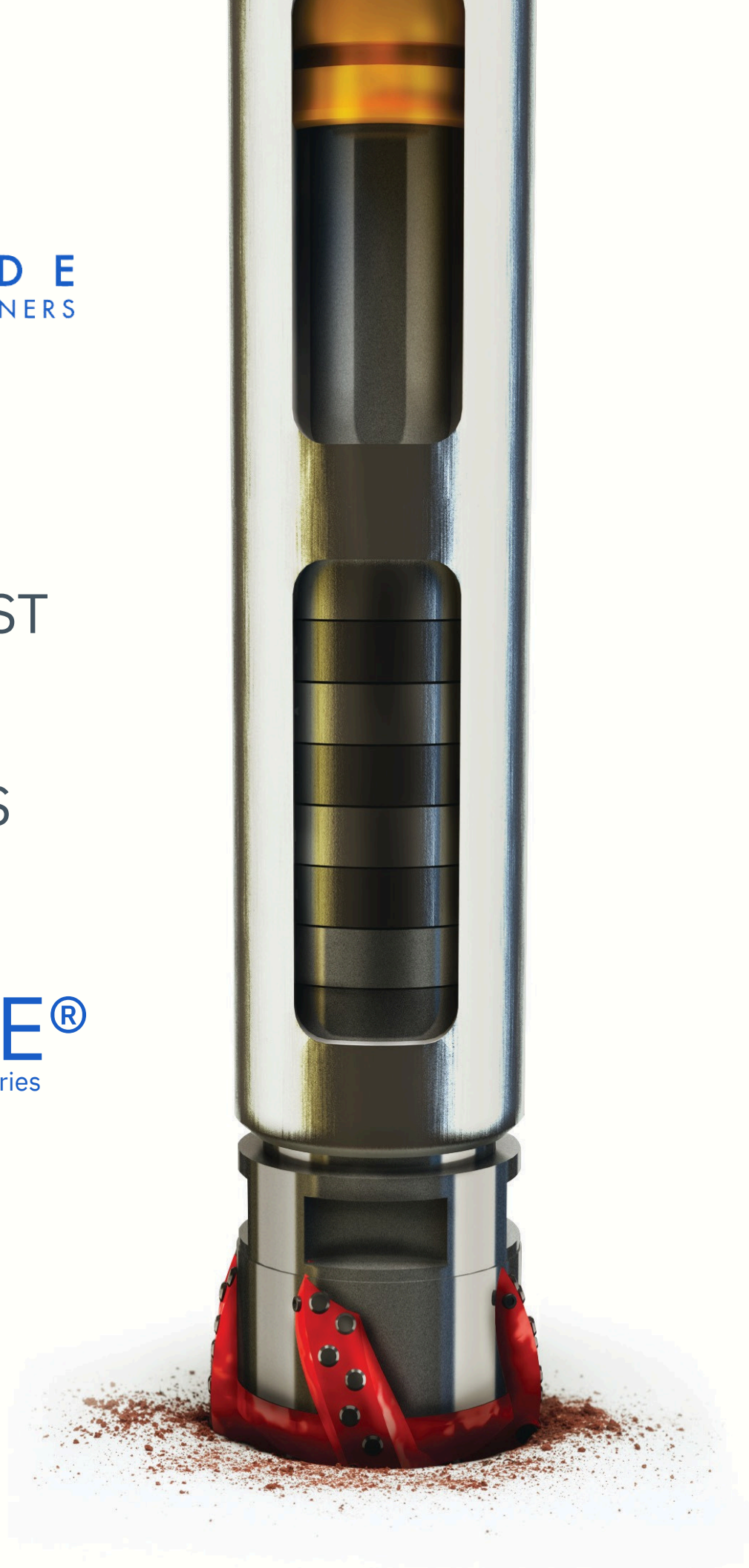


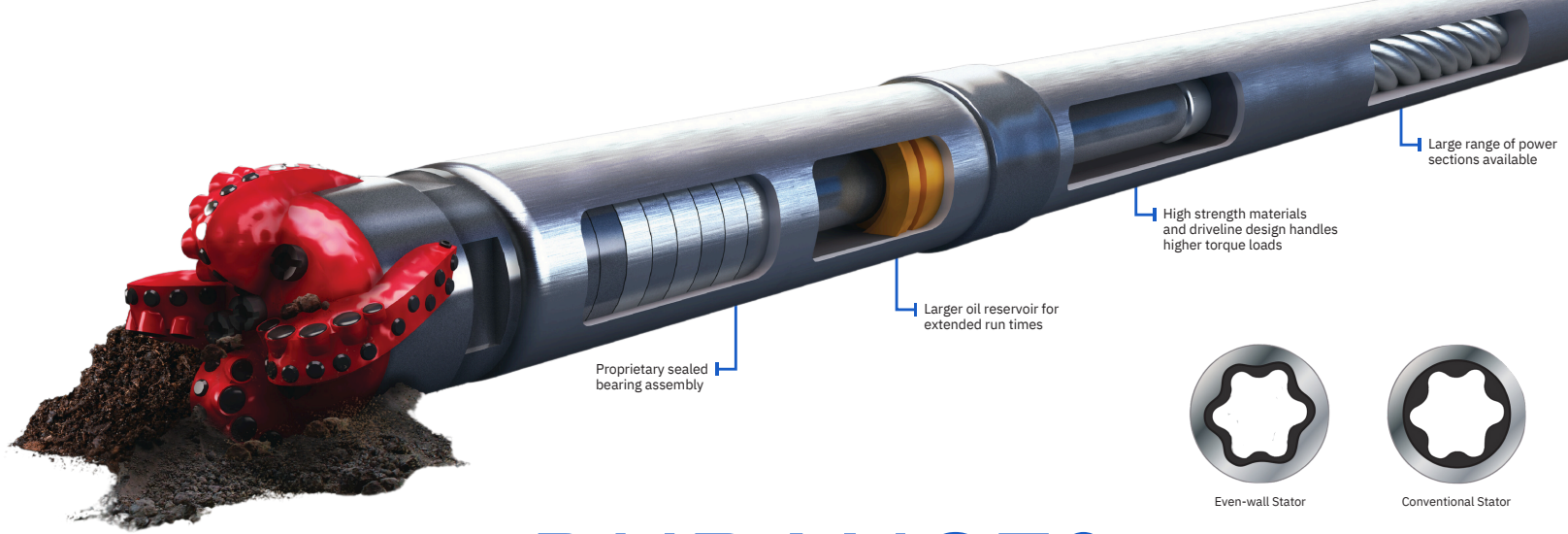


BUILT TO  
OUTPERFORM  
IN TODAY'S MOST  
CHALLENGING  
DRILLING  
ENVIRONMENTS

**nDURANCE<sup>®</sup>**  
High Performance Drilling Motor Series

BETTER PERFORMANCE EVERY DAY





# nDURANCE®

## High Performance Drilling Motor Series

## POWER AND RELIABILITY

The nDURANCE motor series patented design delivers increased torque capabilities, proven reliability and outstanding drilling performance.

With established success in the most demanding areas of Western Canada and the United States, the nDURANCE drilling motor series has proven to increase rate of penetration (ROP), enhance bit life and significantly reduce well costs.

## MAXIMIZING PERFORMANCE

### ENHANCED BIT LIFE

Consistent torque at high loads reduces bit chatter and extends polycrystalline diamond compact (PDC) cutter life as bit speeds are constant under high loads.

### HIGHER DURABILITY

Driveline components constructed from ultra-high strength materials with yield strengths over 200 ksi.

### GREATER RELIABILITY AND FEWER TRIPS

Low friction angular bearings provide axial and radial support. In the event of seal failure, bearings will continue to run in a mud lubricated environment until the next scheduled bit trip.

### GREATER WOB CAPACITY

Unique dual acting multi-stack split race bearing design provides high weight-on-bit (WOB) capacity.

### INCREASED HORSE POWER & TORQUE

Proprietary bearing section with large diameter mandrel design overcomes conventional tool diameter restrictions to handle higher flow rates resulting in greater ROP.

## FEATURES

### STANDARD

- Multi-stack bearings
- High capacity load ratings
- Large oil reservoirs for extended runs

### OPTIONAL UPGRADES

- Rotor catch devices
- Conventional bypass subs

### SHORTER BIT TO BEND (B2B)

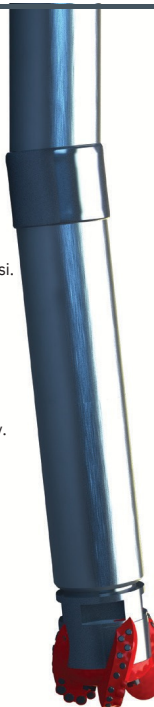
- Fixed housing unit
- Higher build rates
- Rotatable at higher motor settings
- Low bit offset to reduce bending stress and extend bearing mandrel life
- Ideally suited for monobore applications

### SIZES

- Large range of sizes and power sections available from 4¾" (120 mm) to 9½" (240 mm)

### POWER SECTION

- Hard rubber elastomers
- Even-wall options
- Non-magnetic: even-wall and conventional
- Complete range of flow and RPM options



# QUALITY & RELIABILITY

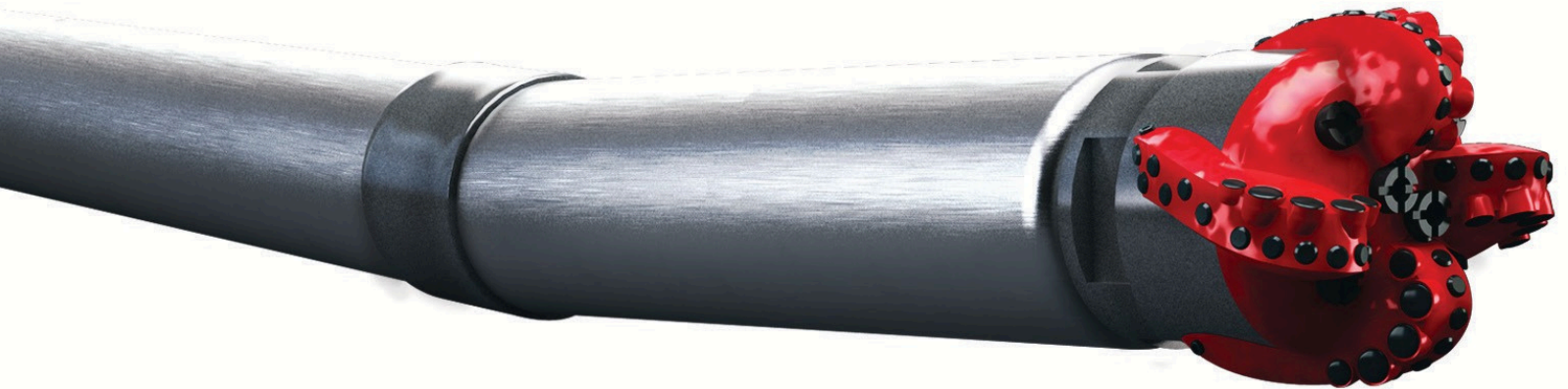
- Pre-service dynamometer testing to confirm torque, flow and pressure specifications
- DS-1 specifications in conjunction with API standards
- Detailed component life-cycle tracking and proactive maintenance process
- Dye pen I and II, MPI I and II assessment (in compliance with SNT-TC-1A, PCR-001, LPS-001, MSP-001 of the standard operating procedures for magnetic particle testing)
- Pre and post well performance reviews to identify drilling optimization opportunities

## BENEFITS

- ✓ Greater reliability and fewer trips
- ✓ Greater horsepower and torque resulting in greater ROP
- ✓ Enhanced bit life
- ✓ Significantly reduced well costs

## APPLICATIONS

- ✓ Formations with poor build tendencies
- ✓ Hard, aggressive and unconsolidated formations
- ✓ Monobore wells



Contact Altitude Today

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