

REAMER-MOTOR
ALL SIZES

DYNOMAXTM
DRILLING
TOOLS INC.

TOOL DESCRIPTION

- The DYNOMAX "REAMER MOTOR" combines our trusted sealed bearing mud motor with our patented slide reamer. This combination shortens and maximizes performance BHA design by incorporating two slide reamers into the mud motor.
- The DYNOMAX SLIDE REAMER is designed to do just that: ream while in the sliding operation. This tool will condition the wellbore while tripping as well as rotating.
- The PATENTED cutter geometry rotates perpendicular to the wellbore which differs from traditional reamers which turn parallel. The DYNOMAX SLIDE REAMER allows maximum performance with minimal torque and drag.
- This tool is a critical component in performance and directional drilling applications.

BENEFITS

- Cutters provide 360 degree wall coverage
- Locked Assembly maximizes performance drilling assemblies while significantly reducing hole drift.
- Cutters turn with each movement of drill string (I.e. Rotating, Sliding, Tripping)
- Allows optimal fluid passage
- No Bolts: makes for easy change-outs in the field
- Helps prevent correction run
- Two tools in one. Many different variations can be run on the same tool
- Constantly conditioning well bore while drilling, making a connection, or tripping.
- More cutting surfaces than traditional roller reamer
- Reduces torque and drag
- Increases bit life

Double Row Abrasive formation cutter available in 12" and up.



DYNOMAXTM
DRILLING
TOOLS INC.

DynoMax supplies leading performance drilling products engineered for the oil and gas industry. We provide high value products and services for vertical, directional and horizontal drilling operations worldwide.

Our product lines include Mud Motors, Shock Tools, Drilling Jars and Slide Reamers, which bear our industry-leading technologies backed by experience in the field—tools that are built for extended uses. Our QA/QC Program ensures that every tool meets or exceeds expectations in the field.

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DynoMax Corporate Head Office is proud to be ISO 9001 Quality Certified.

DYNOMAXTM
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SLIDE REAMER & REAMER-MOTOR

5-7/8" DYNOMAX SLIDE REAMER™ outperforms conventional string stabilizers in 6" lateral.

OBJECTIVES

Highlight the benefits of running the DYNOMAX SLIDE REAMER over conventional string stabilizers.

SUMMARY

The 5 7/8" Slide Reamer was configured with REAMER CUTTERS and run in hole @ 11,122 feet to 15,936 similar to the offset utilizing conventional string stabilizers in the same area. The average WOB (Rotating) using the SLIDE REAMER was 18,000 lbs. compared to 12,500 lbs. using string stabilizers.

RESULTS

- 52% reduction in orienting time
- 31% increase in Oriented ROP
- 6.5% improvement % of time orienting

FEATURES

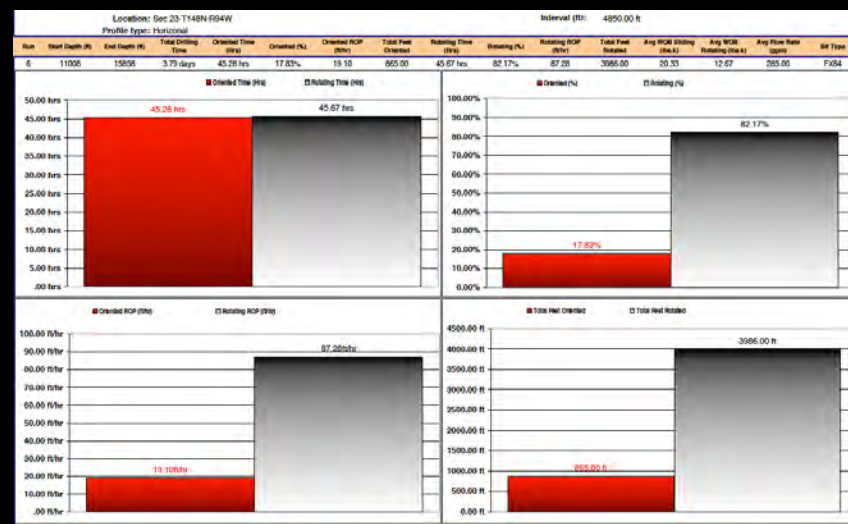
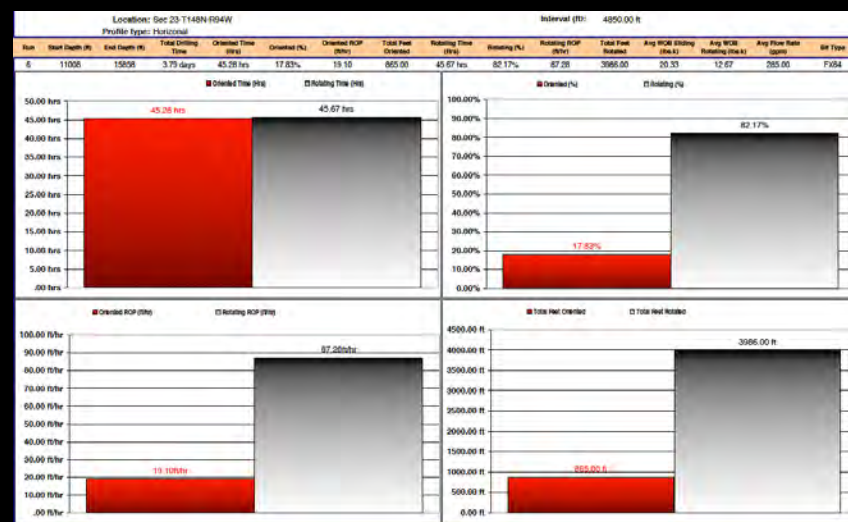
- Integral blade providing 360 degree wall contact
- Sealed Bearing Design
- No bolts: Makes for easy change outs in the field
- Cutters turn with each movement of the drill string (i.e. Rotating, Sliding, or Tripping)
- More cutting surface area than traditional roller reamer designs
- Available in NON-MAG material

BENEFITS

- Conditions wellbore while drilling/tripping to eliminate a dedicated reamer run
- Designed to minimize failures at high stress points
- Allows optimal fluid passage
- Centralize the drill string to minimize torque and drag to get more weight "at the bit"
- Increases bit life

APPLICATIONS

- Can be configured as a slide reamer or slide stabilizer with a quick change of the cartridges.
- Critical component in performance, directional and extended reach drilling applications



Shown: 8.5" Slide Reamer *

* Patent Pending #2,665,260

Traditionally, drilling, conditioning and reaming were separate phases of a drilling project. The revolutionary patented Dynomax Slide Reamer integrates these phases seamlessly.

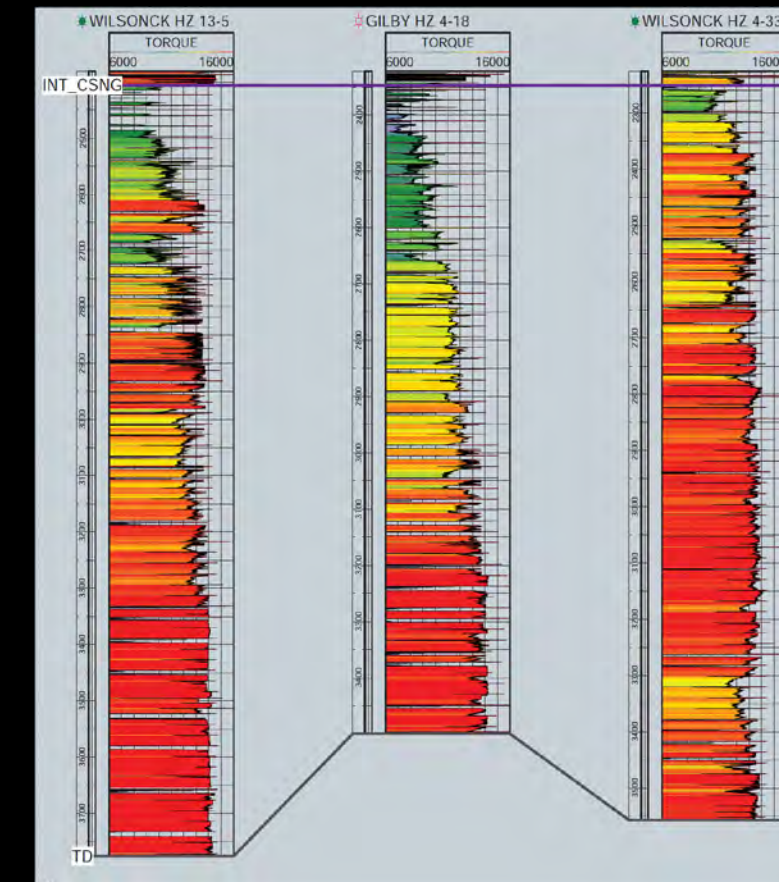
AVAILABLE SIZES

OD	ID	Length	Fish Neck
5 3/4 - 5 7/8"	2"	56"	4 3/4"
5 7/8 - 6"	2 1/4"	56"	4 3/4"
5 7/8 - 6"	2 1/4"	56"	5.15"
6 1/8 - 6 1/4"	2 1/4"	56"	4 3/4"
6 1/2 - 6 5/8"	2 1/4"	56"	4 3/4"
7 3/8 - 7 7/8"	2 3/4"	64"	6 1/2"
8 1/4 - 8 3/4"	2 3/4"	67 1/2"	6 3/4"
9 5/8 - 9 7/8"	2 1/2"	66 1/2"	6 3/4"
12 - 12 1/4"	3"	77"	8"
17 1/4 - 17 1/2"	3"	102 3/4"	9 1/2"

With over 1800 runs worldwide, the DYNOMAX Slide Reamer continues to be a proven and effective tool.



Horizontal Legs Drilled with Tapered Blade Reamer

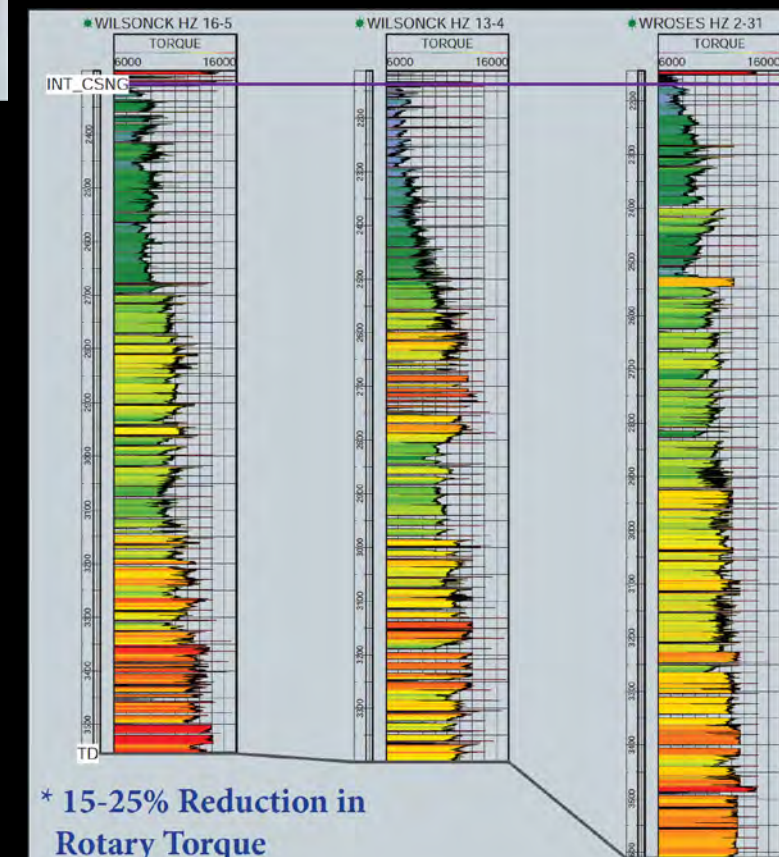


"LOWER ROTARY TORQUE ALLOWS US TO PUSH MORE WEIGHT AND DIFF PRESSURE TO THE BIT, WITHOUT EXCEEDING DRILL PIPE TORQUE LIMITS AND SHOULD NORMALLY INCREASE ROP"

"REDUCES OR ELIMINATES THE NEED FOR A SEPARATE REAMER RUN AT LINER POINT."

...CONTINUED

DynoMax Slide Reamer Runs



"BETTER HOLE CONDITIONS IN THE BUILD AND LATERAL SECTION, BETTER CHANCE OF GETTING CASING SAFELY TO BOTTOM."

IAN COOK - SR. DRILLING SUPERINTENDENT,
BONAVISTA PETROLEUM

* 15-25% Reduction in Rotary Torque