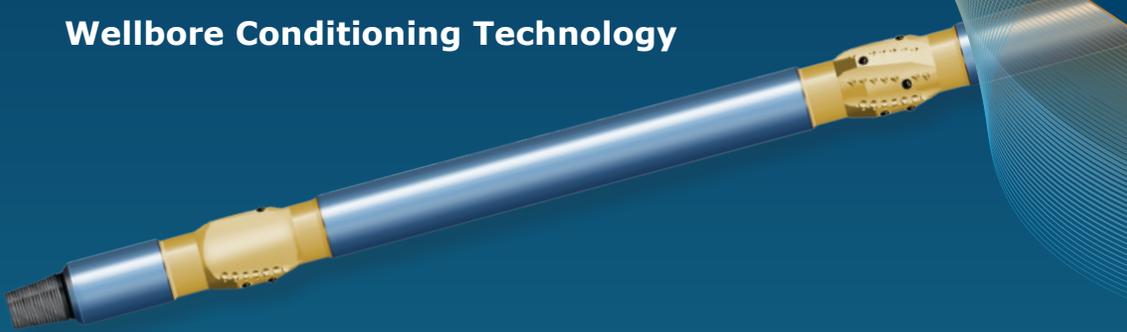


# DRILL-N-REAM®

Wellbore Conditioning Technology

DRILLING TOOLS®  
INTERNATIONAL



Proven on thousands of wells, and over 25 million feet of hole, conditioned and counting, the Drill-N-Ream (DNR) system is providing value and cost savings to operators every day throughout the world.

## Drill-N-Ream Advantages

The patented Drill-N-Ream technology is the world's only true "wellbore conditioning tool." Wellbore conditioning technology is required to achieve the technical limits of today's drilling challenges. This revolutionary tool enables oil and gas operators to extend the length of their wellbore at a lower cost. Drill-N-Ream is the preferred choice for your wellbore quality solutions.

This eccentric dual stage wellbore conditioning tool has blades that act in unison to force the cutting structure into the formation. The DNR efficiently reduces ledges, doglegs, and wellbore tortuosity. Each stage includes at least four blades with numerous PDC cutters designed in a progressive pattern to minimize torque. Diamond domes are also strategically placed to eliminate casing damage and protect the PDC cutters while rotating in the casing.

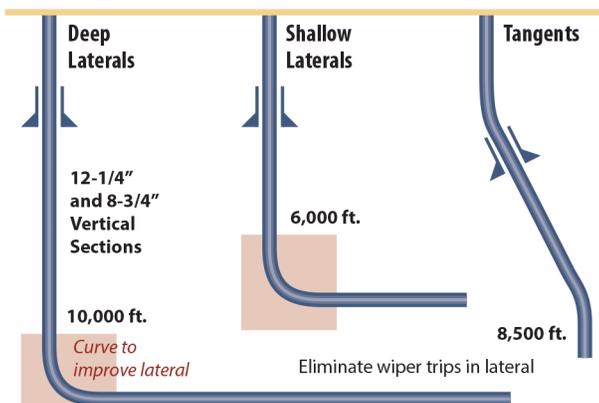
Drill-N-Ream's cumulative effect of conditioned wellbore will lower cost per foot.



## Patented Features

- Opposing eccentric PDC stages centralize and stabilize cutting forces
- Eccentric design capable of enlarging bore hole drift up to 1/4" over bit size
- Progressive blades incrementally shear the formation with minimal torque
- Profile relief efficiently draws the PDC cutting zone into the formation
- Protective domes safeguard the casing and PDC cutting structure during trips and drill outs

US Patents 8,752,649 | 8,813,877 | 8,851,205 | 9,163,460

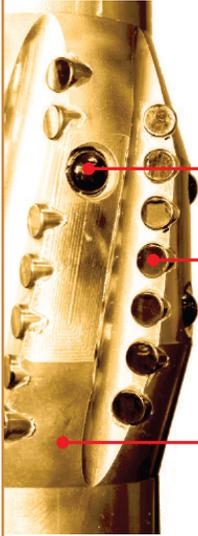


Strength. Innovation. Performance.

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Protective Domes

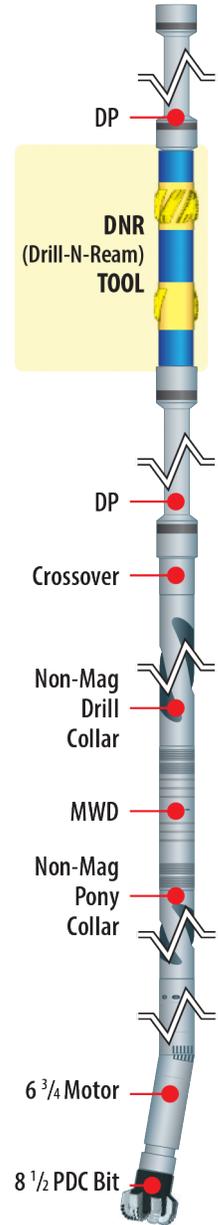
PDCs

Progressive Blades

## Specifications

Tool Size (ID)	1 1/2"–3 3/4"*
	Connection Specific
Tool Size (OD)	5 7/8"–13 1/2"
Length	8'–10'
Weight	350–1,200 lbs
Connections	Any
Max Pull	Connection Dependent

\* Tools can be customized for each application



## Design Benefits of a DNR Conditioned Wellbore

BENEFITS	MOTOR	RSS
Reduce torsional harmonic oscillations	•	
Increase trip speed	•	•
Reduce / eliminate back-reaming operations		•
Reduce drillstring hook loads	•	•
Improve WOB and differential pressure across motors	•	
Reduce risk of stuck pipe events	•	•
Improve hole cleaning	•	
Wipe out keyseats	•	•
Potential to increase ROP	•	•
Improve casing running conditions	•	•

Drilling Tools International, Inc. is a leading provider of downhole tools to the land and offshore drilling markets. For 40 years our company has been guided by the principles of Strength, Innovation and Performance. Our world-class employees consistently deliver unsurpassed customer service while providing quality products that meet the demanding drilling applications of today's market.

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