

# The Dome Reamer Specification

## Overview

The Dome Reamer, a stabilizer while drilling, a reamer when you need one. This innovative design has a similar profile to the Fixedblade Stabilizer but provides an overall longer blade length to accommodate a unique 3-stage taper with different types of cutters. The 3-stage taper is created to ensure a gradual cutting action starting at 14 degrees at the bottom, 5 degrees in the middle, and 2 degrees as a transition zone to the hardfacing. The pin-side has numerous TCIs spread out over the the 3-stages with flat PDC cutters positioned near the hardfacing for extra protection. The box-side is set up similarly but also integrates different stud PDC cutters for extra backreaming capabilities. It's the ideal tool to position as the top stabilizer for extra protection for the BHA, ensure backreaming capabilities, without intervening with any weight on bit or torque issues.

## Design features

- Reduces back reaming and the risk of stuck pipe events
- Smooth running of casing to TD
- Allow forward and back reaming action
- Hydrodynamic profile
- Elongate micro doglegs and borehole spiral patterns
- Unique 3-stage taper
- Improved weight transfer and torque compared to conventional reamers

## Specifications

Hole Size	Gauge Range	Length (m)	Weight (kg)	ID	Fishing Neck Dia.	Surface Area (in <sup>2</sup> )	Conn.
6-1/8"	5 7/8"	2.00	180	2"	4 3/4"	100	NC38
8 1/2"	8-1/4"	2.20	360	2 1/4"	6 3/4"	220	4 1/2" IF
12 1/4"	12"	2.40	660	2 13/16"	8 1/4"	240	6 5/8" Reg
17 1/2"	17 1/4"	2.60	1200	3"	9 1/2"	340	7 5/8" Reg

- Other gauge sizes are available upon request.

