

# Titan HD Drill Bits

## Large diameter milled-tooth and insert bits

Our Titan™ HD drill bits provide superior performance in the most challenging large-diameter drilling applications. Combining proven technology with the latest enhancements for wear-resistance and toughness, Titan HD bits can improve your rates of penetration and increase durability in these demanding applications.



## Features

### New lug design

- Our new lug design delivers efficient fluid flow through optimized bit hydraulics, and incorporates an updated vent-to-the-bowl pressure compensation technology to improve bearing reliability and seal life.

### Optimized mud-pick hydraulics

- Iterative computational fluid dynamics (CFD) are used to determine the optimal nozzle placement and flow direction, improving cone cleaning and cutting evacuation for the specific cutting structure and lug geometry of the bit.

### Increased shirrtail protection

- Wear-resistant inserts and precision-placed hard metal across the shirrtail edges and lug face provide optimum coverage without limiting flow. Additionally, the wear-resistant inserts provide protection in abrasive environments while withstanding impact in demanding directional applications.

## Benefits

- Provides proven reliability when long bit runs are expected by using precision ground, logarithmic roller (PLR) bearings with encapsulated ball retention
- Greater stability through improved HD lug geometry and stability features
- Efficient cuttings removal ensures the bit engages new rock on every rotation
- Increased ROP and directional control from greater stability and efficient cuttings removal
- Longer Intervals and decreased number of trips significantly minimizes non-productive time (NPT)