

# 12 1/4" IADC 417 (311.2mm)



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- **O-ring sealed roller bearing**

Roller bearing structure with head bearing hardfaced and cone bearing silver plated to improve load capacity and anti-galling ability of the bearing. More wear and high-temperature resistant highly saturated Buna-N rubber O-ring is used to improve reliability. Larger O-ring section reduces pressure on the seal, and the boss at outer end of the seal is also helpful for reliability of the seal. Surface of the thrust bearing couple are specially treated for decreasing friction and increasing rigidity, load capacity of the bit and anti-galling ability of the bearing are consequently improved.

- **Cutting structure**

Offset crested scoop chisel tooth.

- **Hardfacing on shirrtail**

This feature can provide better protection for seal and bearing to extend the bit's service life.

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## Technical specifications

IADC Code:	417
Weight:	110 KG
Package:	35×39×52 cm

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## Recommended operating parameters:

Bit Pressure: 0.45 ~ 0.75 KN

Rotary Speed: 70 ~ 200 r/min

Pumping Pressure: 9 ~ 20 Mpa

Sediment Concentration: < 0.5%

The above parameters are only for reference. Optimized parameters are determined by drilling process and lithology of formations on site.

## Applicable formations

Very soft: such as soft marl, unconsolidated sandstone, salt, etc.

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