

# 11 7/8" IADC 117 (301.63mm)



- **Sealed journal bearing**

Journal 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 sealed journal bearing is used to improve reliability. Larger Sealed journal bearing 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**

Hardfaced gage and tooth surfaces.

- **Hardfacing on shirrtail**

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

- **Technical specifications**

IADC Code	117	Bearing type	Rubber	Thread Connection	6 5/8" API REG Pin
Type	TCI	Seal type	Slide	Type of reinforcement	Alloy teeth
Number of cones	3	Center water hole	NO	Weight	83Kg
Number of nozzles	3	Tooth shape	Wedge	package	Wooden box

- **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, clay, salt, soft sandstone, etc.**