



## Specs: 7 7/8" WGY537(200.05mm)



### Design character:

- Very soft:  
such as soft marl, clay, salt, etc.
- Hardfacing on shirrtail  
This feature can provide better protection for seal and bearing to extend the bit's service life.
- Cutting structure:  
Hardfaced gage and tooth surfaces.
- O-ring 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 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

### Specifications:

IADC	537
Type	Insert Tooth
Cone Qty	3
Nozzle Qty	3
Sealing Types	Rubber
Bearing Types	Sliding
Center Hole	NO
Tooth Profile	wedge shape
Connection Size	4 1/2 REG
Gauge strengthening type	Alloy tooth
Weight	46Kg
Packaging	Wooden box

### Operating Parameters:

Rotary Speed:	60-180 r/min
Pumping Pressure:	8-18 Mpa
Bit Weight on bit	0.4-0.85KN
Sediment Concentration:	< 0.5%