

Diamond bit

---Natural diamond bit (ND bit)



Natural diamond bit utilizes selected premium natural diamond as cutting elements, which are cemented in erosion and wear resistant WC matrix by sintering. The diamond breaks rocks with kerfing or grinding action in different formations.

The natural diamond bits are designed with different crown profiles as parabolic, round or cone, utilize different diamond sizes, density, placement and different hydraulic designs, for using in medium to hard formations with high abrasiveness.

Main characteristics

- Medium cone crown, good bit stability.
- Radius flow course plus large natural stones for high penetration rate.
- Suitable for using in medium hard formations.



Bit size (in)	Specifications				推荐钻井参数			
	Cutter size (spc)	Gage length (mm)	Flow area (in ²)	API reg. pin size (in.)	WOB (kN)	RPM (r/min)	Mud flow rate (L/S)	HHP (HSI)
6	1-3	55	0.20-0.60	3 1/2	50-100	80-500	9-12	2.8-5
8 1/2	1-3	80	0.25-0.80	4 1/2	70-150	80-500	19.5-24	2.8-5

Main characteristics

- Medium round crown, with good cooling & cleaning and long bit life.
- Suitable for using in dense formations with medium abrasiveness and high compressive strength. It is the ideal diamond bit for drilling hardest formations.



Bit size (in)	Specifications				推荐钻井参数			
	Cutter size (spc)	Gage length (mm)	Flow area (in ²)	API reg. pin size (in.)	WOB (kN)	RPM (r/min)	Mud flow rate (L/S)	HHP (HSI)
6	1-3	55	0.25-0.60	3 1/2	50-110	60-500	9-11	1-3
8 1/2	1-3	80	0.25-1.00	4 1/2	70-150	60-500	18-21	1-3