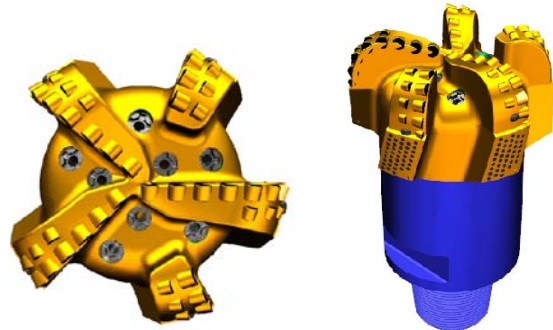


KINGDREAM

DIAMOND BIT

OPERATION MANUAL

KM1952ADGR



• IADC CODE: M323

• BIT SPECIFICATIONS

Bit Dia. Code	12 1/4	Gage length(mm)	75
Bit Dia.(mm)	311.15	Type	KM1952ADGR
Blade count(pcs)	5	Junk slot area(mm ²)	25606.631
Main cutter size(mm)	Ø19	Bit Connection	6 5/8 REG
Number of nozzles(pcs)	8	Make up torque(KN.m)	50.3~57.5

• RECOMMENDED DRILLING PARAMETERS

RPM(r/min)	50-200
WOB(KN)	30-140
Flow rate(l/s)	30-70

• STRUCTURE FEATURES AND APPLICATIONS OF THE BIT

- According to softer formations, profile of high aggressive performance and cutter exposure are optimized to insure the bit can achieve higher ROP in softer formations.□
- Optimized bit profile design, suitable for drilling soft to medium formations.
- Non-symmetric blade design, force balancing and anti-whirl technologies are all incorporated in the bit design in order to prevent the bit from premature failure normally caused by bit whirl.□
- Higher comprehensive performance of the bit is improved by utilizing high quality PDC compacts and optimal tooth arrangement technology.□
- Penetrability of the bit through interbedding formation is improved by utilizing technical structure with vibration absorption to avoid damaging compacts when alternative soft-hard formations is encountered.□
- Spiral gage and spiral blade are designed so that the load on bit is balanced that resulting better stability of the bit.
- Back-reaming features are also designed to make the bit more suitable for various drilling processes.

• CAUTIONS

- Please handle the bit with care to avoid collision between cutting elements and hard object.
- Apply thread oil on connection threads before make up to mitigate any wear of the threads or stick between threads. At the beginning of making up, please turn steadily so as to prevent poor mating between threads or forcing the threads to make up.□
- When trip in, let the bit pass wellhead installations slowly and smoothly in order to prevent the bit from damaging by any impact.□