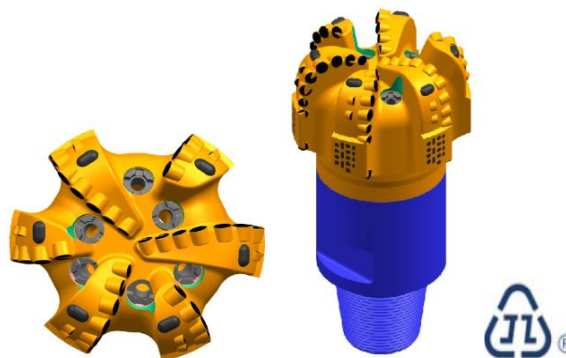


KINGDREAM

DIAMOND BIT

OPERATION MANUAL

KM1663SGRA



• IADC CODE: M322

• BIT SPECIFICATIONS

Bit Dia. Code	8 3/8	Gage length(mm)	50
Bit Dia.(mm)	212.72	Type	KM1663SGRA
Blade count(pcs)	6	Junk slot area(mm ²)	10045
Main cutter size(mm)	Ø15.875	Bit Connection	4 1/2 REG
Number of nozzles(pcs)	6	Make up torque(KN.m)	17.0~22.4

• RECOMMENDED DRILLING PARAMETERS

RPM(r/min)	50-260
WOB(KN)	30-120
Flow rate(l/s)	25-35

• 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.
- Higher comprehensive performance of the bit is improved by utilizing high quality PDC compacts and optimal tooth arrangement technology.
- Double row cutters design are employed so that the bit has longer service life.
- Back-reaming features are also designed to make the bit more suitable for various drilling processes.
- Enhanced gage design to effectively protect bit diameter and prevent shrinkage.

• 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.
- Attention should be paid to the health and safety of personnel during the use of bits, clean production should be implemented, and the generation and discharge of pollutants should be avoided after use, as well as the recycling of waste products.