

Polycrystalline Diamond Compact (PDC) Drill Bits



PDC DRILL BITS:

PDC drill bit is short for Polycrystalline Diamond Compact bit. The other name for the PDC drill bit is Diamond bit.



Matrix Body PDC Bit



RC PDC Bit



Bi-center bit



PDC Core Bit



Steel Body PDC Bit

PDC Drill Bit Classification by Material:

- What is PDC material? According to the production material, the PDC drill bits for sale on the current market can be roughly divided into the following two types:
 1. Matrix body PDC bit: This type of diamond PDC bit is made of tungsten carbide powder, and the gauge protection is TSP.
 2. Steel body PDC bit: With the AISI 4145H heat treatment steel (America standard steel), the steel body PDC bit can be used for high-quality CNC machines milling pockets, blade, nozzles.

PDC Drill Bit Classification by Application:

Mining Industry:

There are some 3-blade PDC bits mainly used for the mining industry in Australia, and Russia. The formation is very soft. Choosing a Steel body PDC bit can save more drilling costs.

Water well drilling:

Having higher ROP, diamond PDC drill bits are also widely used as water well drilling for geothermal drilling.



Oil & Gas drilling:

Polycrystalline diamond compact bit is the most widely used bit in the field of Oil & Gas drilling. Hydraulic factors are very important to the bit during drilling.

PDC bits have been used in areas that were previously unavailable, such as harder, more abrasive, and more variable formations.

This expansion into the new field has a great impact on the balance between the diamond (fixed cutter bit) bit and Tricone rock bit.

The diamond PDC bit is mainly composed of the bit body, cutting teeth, nozzles, gauge protection, and API Thread connection.

