



We do - you succeed!



OILFIELD PDC **DRILL BITS**

Steel and Matrix PDC Drill Bits

Middle East Supplies FZC has earned a commendable reputation of reliability and quality due to our adherence to uncompromising standards of quality. We focus upon delivery of high quality, durable products along with superior client services, which offers our clients a competitive advantage and create value for their business. In order to achieve our goal of offering quality products, we concentrate on offering value-added services to our customers and satisfying emerging market needs.

PDC Drill Bits.....

PDC drill bits provide a drilling tool that uses polycrystalline diamond compact (PDC) cutters to shear rock with a continuous scraping motion.

These cutters are synthetic diamond disks about 1/8 inch thick and about 1/2 to 3/4 inch in diameter.

These products are offered in both a steel body and matrix body construction.

MES PDC offerings include drill bits ranging in diameter from 7-7/8 in (200 mm) to 36 in (914 mm) in the steel body construction and 5-7/8 in (149 mm) to 17-1/2 in (445 mm) in the matrix body construction.

Several different product lines are offered providing a highly efficient, cost effective solution for most drilling applications.

PDC drill bits – shear rock with a continuous scraping motion

Matrix Body.....

Matrix drill bodies are manufactured from tungsten carbide powder using hot infiltration method. Every matrix body has steel blank to add impact resistance to the blades.



Steel Body.....

Steel body are machined from premium steel grades and pass through additional heat treatment process to improve wear and impact resistance. Additional hard facing is applied for long on-bottom hours.



PDC Cutters.....

MES has direct contacts with **US Synthetics** and **Diamond Innovations** - world leading manufacturers of synthetic diamonds. This allows us to fit our PDC bits with Premium, high performance cutters.



Steel PDC Drill Bits

Design Features:

- 3D designed 4140 alloy steel body CNC machined for maximum blade and body strength.
- Tungsten Carbide hardfacing in critical areas for increased erosion and abrasion resistance.
- TCI enhanced gage pads for increased protection.
- Optimized parabolic profile for blade count, cutter quantity and bit stability.
- Force-Balanced PDC cutter locations minimize bit whirl and drill a precise round hole.
- Asymmetric blade design reduces drilling harmonics.



Matrix PDC Drill Bits

Design Features:

- Cast Infiltrated Tungsten Carbide matrix shell for maximum erosion and abrasion resistance.
- 3D designed and CNC machined internal steel blank for maximum blade and body strength.
- TSP Diamond enhanced gage pads for maximum protection.
- Optimized parabolic profile for blade count, cutter quantity and bit stability.
- Force-Balanced PDC cutter locations minimize bit whirl and drill a precise round hole.
- Asymmetric blade design reduces drilling harmonics.



Our vision is to provide the best value-for-money, bit and bit / BHA optimization services, with the objective to improve operational efficiency while providing improved financial performance.

Our goal is to be as a service provided known for:

- Flexibility
- Excellent service provision
- Engineered solutions
- Fast delivery
- Excellent pricing
- Quality delivery

Our service is divided into operational and project engineering services. The operational services are focused on Bit and BHA supervision at the field location. The engineering is an In-depth service on a project approach, combining optimization services, including field services and drilling engineering services.



Operational Field services (day to day)

- Bit & BHA optimization
- Hydraulics optimization
- In- field daily support/ supervision
- Bit recording
- Dull grading
- Bit & BHA run evaluation and recommendations

In-Depth Engineering (project based)

- Risk & Reward time analyses
- Engineered analysis of the complete drilling cycle
- Engineered approach to major drilling concerns such a Pressure Management, Wellbore Integrity
- A Project approach

Our services are offered on the following basis:

- Complete field service
- Surface to TD well service
- Per hole section
- Purchase and or rental meterage

Our services are a complete drilling cycle analysis from planning, implementation, execution and evaluation including "Lessons Identified" and with " best practices" provided a means to "Lessons Learned" the process utilized is key to our successful process. We use our visualization software to assist our clients to visualize our findings and recommendations.

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