

# NAPESCO



*We do - you succeed!*

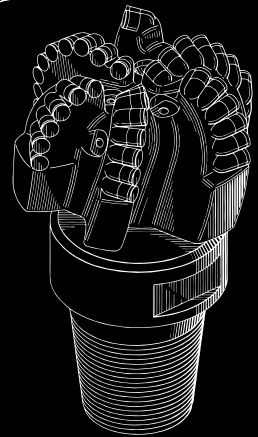


## MES

Middle East Supplies FZC



## Repair of PDC drill bits



[www.napescogroup.com](http://www.napescogroup.com)  
[www.mes-uae.com](http://www.mes-uae.com)





## Repair of PDC drill bits



### Who we are

- ✓ **Napesco Egypt and Middle East Supplies Dubai started a cooperation to repair PDC bits.**  
**Both companies are well experienced in the oil and gas industry and brought this new service into Egypt.**
- ✓ **Many operators and drilling companies stock the used and old bits.**  
**High cost for transport and export formalities make it not economical to return these bits to its country of origin for inspection and eventually repair. Napesco Egypt and Middle East Supplies Dubai provides an excellent bit repair service.**
- ✓ **The shop is equipped with the best local and western equipment for the repair process. Cutters from world leading cutter suppliers are used, and our experienced staff is well trained in the U.S.**





## Repair of PDC drill bits

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### Our people

- ✓ Our high qualified specialists completed training in major PDC Drill Bit Company in the USA.
- ✓ Our shop is equipped with high quality local and Western equipment and is able to provide an excellent repair job.
- ✓ We offer tailored solutions with the use of cutters from 2 world leading cutter suppliers





# Repair of PDC drill bits

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## Repair service

- ✓ Bit inspection
- ✓ Matrix and Steel body bit repairs
- ✓ Matrix repair
- ✓ Gauge repair
- ✓ Cutter replacement
- ✓ Cutter rotation
- ✓ Hardfacing





# Repair of PDC drill bits



## Repair process

### ✓ Washing machine

After collection of the bit the process of inspection and repair will start.

Mud and grease will be removed in a special designed washing machine with a mix of water and detergent at high temperature.



### ✓ Blaster

For the next step in the cleaning process a blaster is used. Small particles at high air pressure are used to remove the last dirt.

All dirt for the cleaning process is collected, treated for re-use or collected by specialized companies.







# Repair of PDC drill bits

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## Repair process

### ✓ Inspection

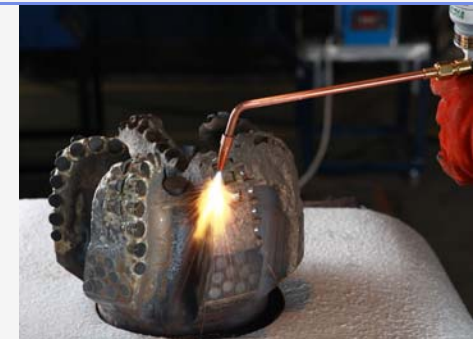
Now the bit is ready for inspection. A detailed inspection report will be made for each item of the bit. The customer will receive an inspection report and a repair quotation.

We offer different cutter types for the different drilling applications and bit types. Interaction from the customer for cutter requirements is very important in this stage. The bit will be repaired to fit the application.



### ✓ Brazing

After the agreement for repair, the repair process will start. Damaged cutters will be removed and replaced by new ones. Also bit bodies will be repaired and hardfacing will be applied during this process. After the brazing process the bit will be cooled prior to the next process.





# Repair of PDC drill bits



## Repair process

### ✓ Grinding

This is the last process of repair. The bit will be grinded to remove any particles that be may be left on the bit after the brazing process.



### ✓ Final inspection

After the completion of the repair process a final quality control will be done.





# Repair of PDC drill bits

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## Repair process

### ✓ Painting and packing

As a last stage before the bit leaves the shop, the bit will be painted and packed. Also transport back and forth to the drilling location or customer warehouse can be part of the service.







# Repair of PDC drill bits

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## Our benefits

**By choosing our company for repair your PDC drilling bits, you gain following benefits:**

- ✓ **Attractive price ( approx. 30% of the price of new bit)**
- ✓ **Decreasing transportation costs**
- ✓ **Lack of export and import customs formalities and duties**
- ✓ **Excellent service**
- ✓ **Local content**



## Repair of PDC drill bits

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## Why to work with us?

- ✓ Qualified personnel
- ✓ Qualified equipment
- ✓ Quality product
- ✓ Excellent service
- ✓ Flexibility in pricing
- ✓ Flexibility in cutter replacement
- ✓ Attractive pricing





## Repair of PDC drill bits

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Thank you

