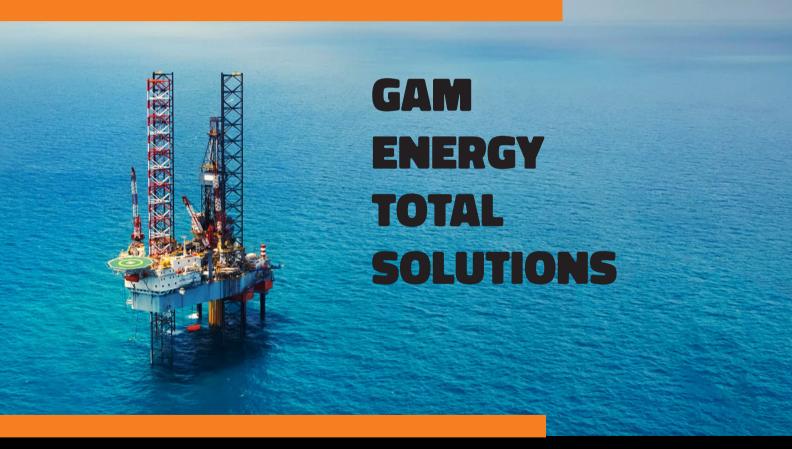
Bit Repair Service







Bit

Bit Repair

Consultancy

Procurement

Drilling Services

Intelligent Pigging

Cementing Additives

Pipe Descaling Tools

Drilling Rig Inspection

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Tith declining oil prices, operators are becoming more cost conscious. In GETS, we have decided to help our customers achieve significant savings on their drilling costs by introducing the service of overhauling and refurbishing PDC drill bits.

Following rigorous care and inspections, we restore your used bits to their original status and guarantee comparable performance to that of the brand-new bit at a fraction of the cost.



Bit Repair Service

International Partner

ith our competent partner with a solid background in bit repairing, we will assure our clients with a high-quality repaired bit which are ready to perform as nearly close to a new bit!

Or partner has been approved by one of the biggest international oil and gas companies (Chevron) to repair their bits.

We can repair as many as 200 bits per year.









Repair process starts by washing to facilitate inspection. Mud and grease will be removed in a special designed washing machine with a mix of water and detergent at high temperature





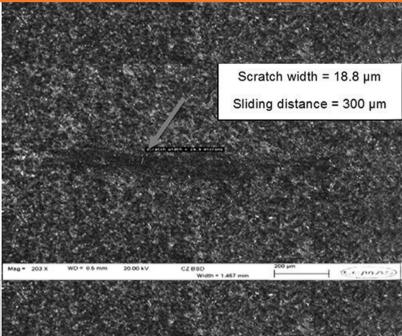


The next step of the cleaning process is blasting. Small particles using high air pressure remove the remaining dirt. All dirt for the cleaning process is collected, treated for re-use, or removed by specialized companies.









ne of the most important stages in Bit Repair Service is to identify which bit is "Repairable". In this stage, inspections will make sure that none of the bits are having any micro cracks that can lead to a failure in drilling. For this, we would run below inspections:

- cutting structure (cutter pockets can be recovered),
- blades hard facing,
- gauge cutters and gauge hard facing,
- go-gauge inspection,
- nozzles thread inspection,
- shank bit breaker slot inspection,
- pin thread inspection (pin can be replaced).

 Detailed inspection report listing every item of the bit will be generated and sent to client.







In this stage, we use selected cutters to replace old and worn cutters. The client has the option to use Premium, Premium Plus, or Standard cutters based on their requirements and application needs. Also, if there is any more modification needed to be applied on bits, it will be done. The procedure includes planning, components selection, and order from the warehouse.







n this stage we will perform following steps and procedures:

- Pre-heat PDC bit body
- removing all damaged cutters and cooling PDC bit body
- cleaning the cutters pockets and Installing the graphite inserts
- Pre-heat PDC bit body and Hard facing repair process
- Cooling PDC bit body
- Cleaning bit from graphite Checking all slots
- Sand Blasting and Cleaning the cutter pockets
- Heating PDC bit body and brazing cutters
- Cooling PDC bit body
- Washing the bit and Cleaning the nozzles thread
- Install nozzle sleeve and Nozzle o-ring

We supervise each step to make sure that the bit is being refurbished to its very new conditions.







B it bodies are repaired and hard facing is applied during this stage. After the brazing, the bit is cooled before the next stage. This is step is mainly dealing with the body of the bit.







This is the last process of repair.

The bit will be ground to remove any particles that be may be left on the bit after the brazing process.







In this phase, the bit will go through inspection to make sure that no crack or harm has been induced during the rough stage of repairing.

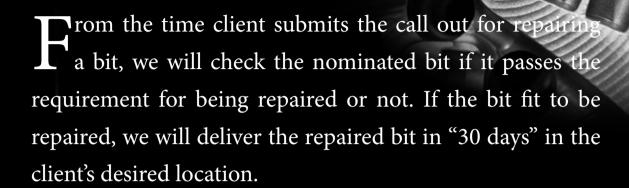
Many clients rather have their inspector execute this part. We at GETS are ready to arrange any necessary inspection required by our clients.

In this stage we will perform the following steps and procedures:

- Bit size inspection with caliper
- Marking (Stamping)
- Painting the bit
- Greasing the thread
- Install the protectors
- Packing
- Final inspections (checking bit drawings, PO, documents, complete post-job checklist).







Bit Repair

Guarantee



process in repairing bit, the repaired bit would be ready for operation. The result shows that the performance of repaired bit is the same to new bit. That is why we guarantee that our repaired bit will have 80% of the performance of new bit in "equal conditions".



Thanks for your Attention





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