

DOWN TO EARTH

MUD ROTORS

Corrosion and wear can lead to expensive downtime in oil & gas exploration, where equipment is in continual use. Mud rotors operate at the bottom of drilling wells, thus, the removal and replacement of worn rotors is particularly time consuming and costly. Following processing by Bodycote, the life of mud rotors is improved significantly.



The rotors begin life as pieces of steel bar.

B A thermochemically formed ceramic surface treatment is applied resulting in a super-hard, corrosion resistant layer which protects the steel and gives superior wear resistance.



The steel is then machined into the rotor shape required for down-hole drilling.

Photo courtesy of Weingartner www.weingartner.com



B The rotor must be finish polished using diamond tools due to the extreme hardness of the ceramic treatment.

BODYCOTE COMPONENT JOURNEYS

This is just one example of how Bodycote brings together the huge wealth of knowledge and expertise from across the Group to provide the vital engineering services our customers need.

For more component journeys visit www.bodycote.com

B The Bodycote 'B' next to a component journey stage shows where Bodycote's vital services have been applied.



End application – oil drilling service.