

Application Bulletin

Oil & Gas

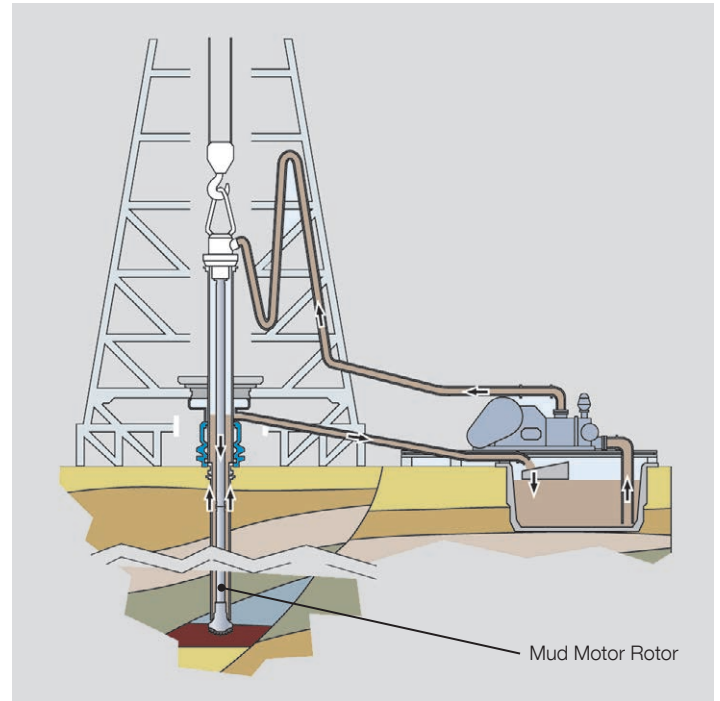
Down Hole Tools – Mud Motor Rotor

Mud motors are critical to directional drilling operations. The mud motor rotor is exposed to abrasion, slurry erosion and corrosion, especially when the drill mud is brackish, acidic or alkaline. Failure of the mud motor rotor results in an expensive and time-consuming drillstring trip for replacement.

The Oerlikon Metco Solution

Increase mud motor rotor reliability using abrasion-, erosion- and corrosion-resistant Oerlikon Metco carbide materials, tailored to the environment, applied using Oerlikon Metco HVOF thermal spray application equipment.

- Avoid costly and time-consuming drillstring trips
- Increases mud motor rotor service life up to 10 times longer
- More wear- and corrosion-resistant than hard chromium plating
- Tailored material choices depending on the chemistry of the mud



Recommended Oerlikon Metco Products

Woka 3702	WC 20Cr ₃ C ₂ 7Ni material for brackish, acidic or alkaline environments
Woka 3652	WC 10Co 4Cr material for highly acidic or alkaline environments
WokaJet/WokaStar	HVOF liquid fuel thermal spray application systems

More Information

DSMTS-0059
DSMTS-0025
HVOF Solutions

Information is subject to change without prior notice.