

## Application Bulletin

### Oil & Gas

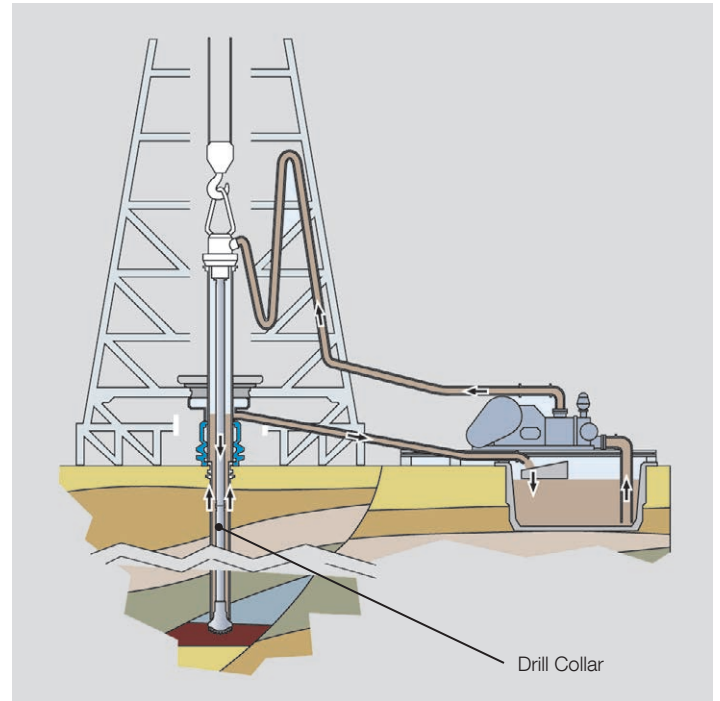
### Down Hole Tools – Drill Collar

**As an essential component of a oil rig drillstring, the drill collar adds weight to the bit so as to effectively break rock. Usually comprised of steel or carbon steel, drill collars are subject to abrasion and slurry erosion that limits their down hole life and increase project maintenance costs.**

#### The Oerlikon Metco Solution

Protect drill collars using wear- and abrasion-resistant Oerlikon Metco carbide materials applied by laser cladding, PTA or MIG welding processes.

- Extend drill collar service life
- Reduce replacement costs
- Increase drilling uptime



#### Recommended Oerlikon Metco Products

MetcoClad 52052	For laser cladding with low quench porosity and high hardness
MetcoClad 52001	High hardness carbide for blending with your laser cladding matrix alloy
PlasmaDur 51142	High hardness, macrocrystalline carbide blend material for PTA welding
WokaDur NiE-TM	For high hardness and abrasion resistance using MIG welding
WokaDur NiE-Tube	For good hardness and high abrasion resistance using MIG welding

#### More Information

DSMW-0014
DSMW-0015
DSMW-0001
DSMW-0021
DSMW-0021

Information is subject to change without prior notice.