



# Mud Motors for HDD

# Typical HDD Motor Setup



# History

- Mud motors began in Soviet Union
- Migrated to International Oilfield
- Adapted to HDD Industry
- Have been used in HDD since the beginning.



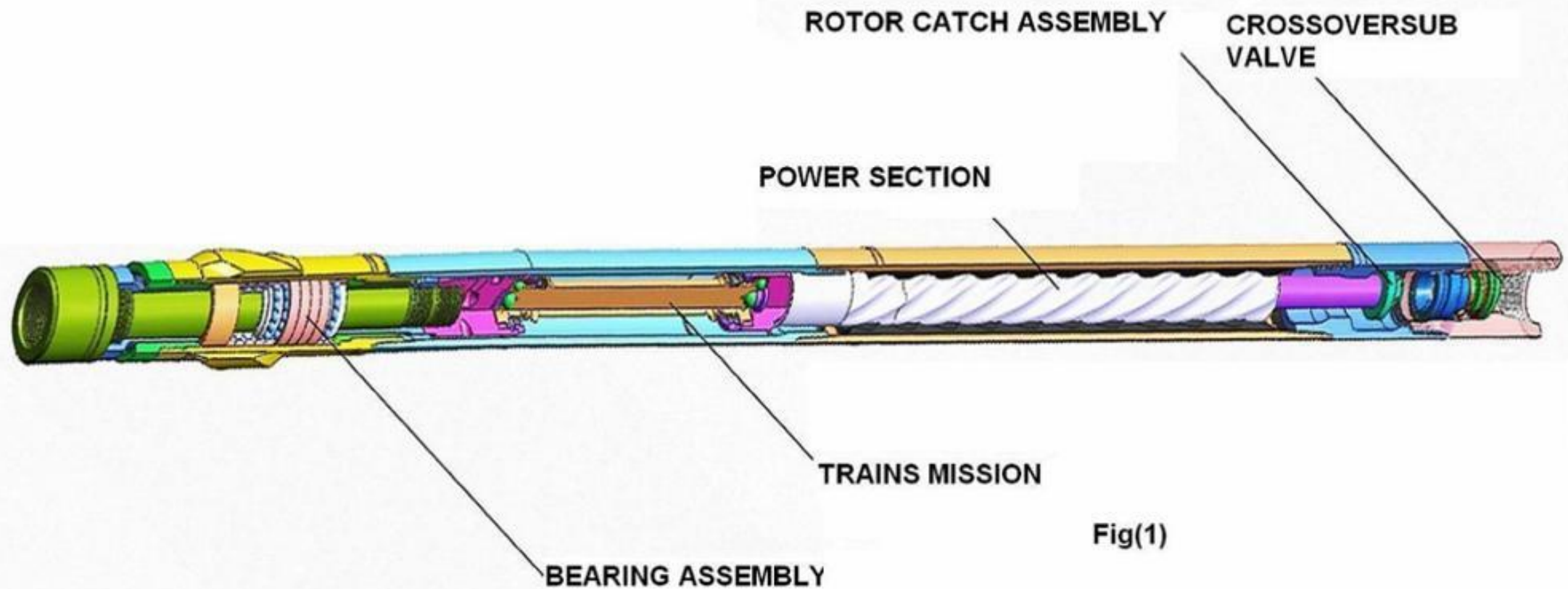


# Why use a Mud Motor?

- Ease of use
- Typically use existing equipment
- Drill virtually any rock
- Makes any drill a rock drill



# Mud Motor Components



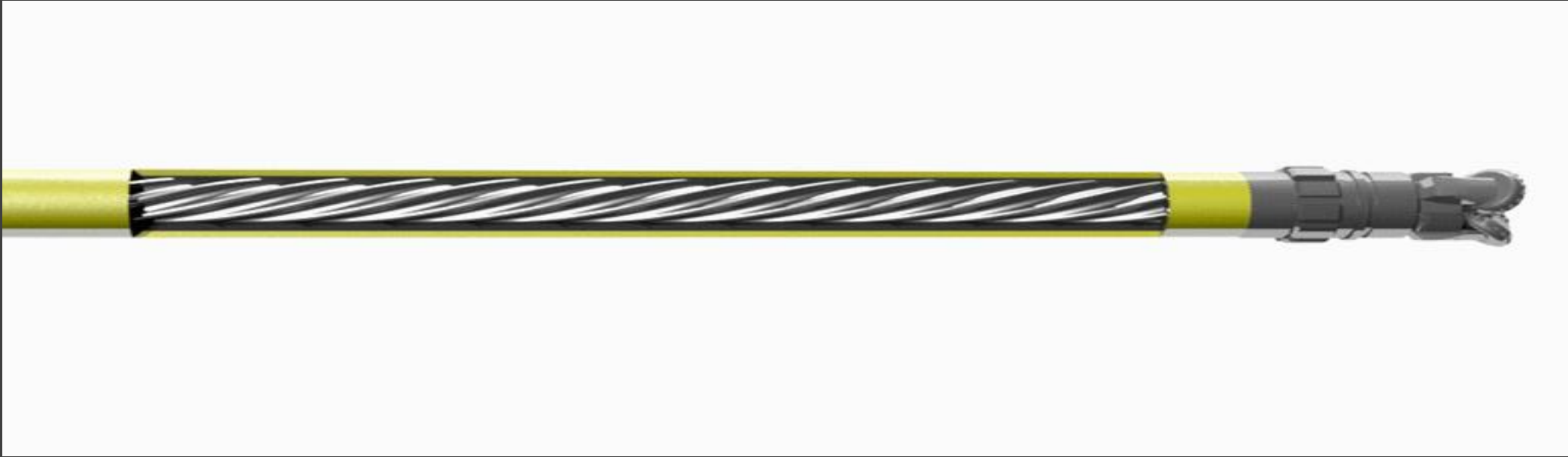


# Features of HDD Mud Motors

- Does not require high PSI
- Typically low flow
- High Torque
- The shorter the better



# How it Operates



- Mud flows over the vanes thus rotating the bit
- Typically 2 degree bend to allow steering

# Service

- Typically after each job or 100 hours service the motor
- 500 hours typically total rebuild
- Next generation motors use drilling mud as the lubricant for bearings
- These motors go 250-500 hours before needing service







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Q & A