TAGRAS Oilfield Services Holding





TMC-POWER MAN®

Pneumohydraulic drive of a sucker rod pump with a load on a polished rod from 30 to 140 kN





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New technologies for oil production

Application

Pneumohydraulic drive "TMC-POWER MAN[®]" is designed to reciprocate a plunger of a downhole pump when pumping liquid from the oil wells.

The advantages compared to the conventional drives

- Many times less metal consumption and mass compared to other downhole sucker rod pump drives up to 70%
- Reducing the terms of the installation, dismantling and commissioning works up to 60%.
- Continuously variable reciprocating speed and stroke length of the pump plunger without stopping the drive, performed by one operator within 5 minutes.
- Pump plunger retention in the upper position (increase in the pump fill rate).
- Presence of reciprocation function (withdrawal of the well from jamming).
- Reduction of energy consumption up to 30%.
- Remote control of the hydraulic drive and automatic maintaining of operating modes
- Hydraulic drive is configured to maximize well flow rate and to optimize specific power consumption and dynamic level
- Reduces equipment wear and increases mean time between repairs (MTBR) of a well

- Well development after drilling and major repairs.
- Quick selection of optimal parameters of well operation during the development period.
- Operation at wells fitted with single-lift units of dual completion.
- Investigation of a well's water cut thanks to the possibility
 of quick changing the parameters of a downhole pump's plunger
 operation when switching from one formation to another
 (performed within 5 minutes by one operator).
- Operation of a periodically working idle well stock
 Possibility to operate a downhole pump in wide ranges, the minimum stroke length is 0.25 m.
- Rehabilitation of wells where the risk of hanging and jamming of the rod strings exists.

Additional equipment (upon Customer's request)

- · Rod rotor.
- Special shelter (booth) for the hydraulic station in explosion-proof and vandal-proof design.
- Remote control function with the possibility of changing parameters, remote monitoring and online control of the hydraulic drive operation from the operator's console

Field of application

