

TAGRAS Oilfield Services Holding



PRODUCTION AND MAINTENANCE OF SUCKER ROD PUMP DRIVES



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Purpose

The rocker-machine is designed to give a reciprocating motion to the plunger of a sucker-rod pump when pumping liquids from oil wells.

The downhole sucker-rod pump drives are produced of the following types:

TMC PNSh(T) 60-3-2800/80-3-40, TMC PNSh 60-2.1-2500/80-3-40,

TMC SK 60-2,1-2500/8-3,5-4000, TMC SK 100-3,5-56, TMC SK

T120-56,

where:

TMC is a trademark of the manufacturer;

PNSh(T)—sucker-rod pump drive (pedestal-type);

SK—rocker-machine;

60/80/100/120—maximum load on the wellhead rod (kN, NOV);

6.89/9.84/11.48—maximum stroke length of the stuffing-box rod (ft);

1.844/2.065/4.130—output torque rating (lbf ft).

Parameter name	TMS PNShT 60-3-2800	TMS PNShT 80-3-40	TMS PNSh 60-2.1-2500	TMS PNSh 80-3-40	TMS SK 6-2,1-2500	TMS SK 8-3.5-4000			TMS SK 100	TMS SK T120	
Load on the wellhead rod, (lb)	132.28	3.15	132.28	176.37	132.28	176.37			220.46	264.56	
Wellhead rod stroke length, ft.	9.8; 8.2; 6.5; 5.2; 3.9	9.8; 8.2; 6.5; 5.2; 3.9	6.8; 5.9; 4.9; 3.9;2.9	9.8; 8.2; 6.5; 5.2; 3.9	6.8; 5.9; 4.9; 3.9; 2.9	11.4; 9.8; 8.2; 6.8; 5.9			11.4; 9.8; 8.2; 6.8; 5.2; 3.9	9.8; 8.2; 6.8; 5.2; 3.9	
Wellhead rod oscillation frequency range per min. (stepwise control with interchangeable pulleys)	2.2-3.5	2.4-3.4	3-6	5-8	4-6	5-14	3.8-6	5.8-8.1	8.6-12	1,3-6 5,8-8,1 8,6-12	4,3-6 5,8-8,1 8,6-12
Output torque rating, (kN•ft)	20.652	29.502	18.439	29.502	18.439	29.502			41.303	41.303	
Drive overall dimensions (at the horizontal position of the balancer), in., NOV:											
-length	244.1	279.5	317.3	279.5	255.1	332.7			421.3	375.2	
-width	100.9	122.0	105.9	105.9	105.9	105.9			131.9	131.9	
-height	229.9	265.7	214.6	212.0	178.3	244.5			28.9	270.9	
Drive weight, lb, NOV	19.401	28.682	18.827	27.337	19.070	31.306			29.762	29.542	

New technologies of service management



Integrated maintenance of oilfield equipment

- Dimension inspection of metal structures.
- Restoration of damaged areas.
- Determination of the SK equilibrium by the instrument.
- Tightening of all fasteners and threaded connections.
- Inspection and repair of the balancer assembly.
- Inspection and repair of the rod rotator—check its operability.
- Lubrication of bearing assemblies, threaded connections.



Lease with maintenance of oilfield equipment on mutually beneficial terms

- Packing of stuffing-box seals.
- Gearbox oil refilling/change.
- Replacement of worn and failed parts and assemblies.
- SK per-unit repair.
- SK overhaul.
- SK painting.
- Replacement of the V-belt transmission.
- Repair, manufacture, and installation of fencing devices.