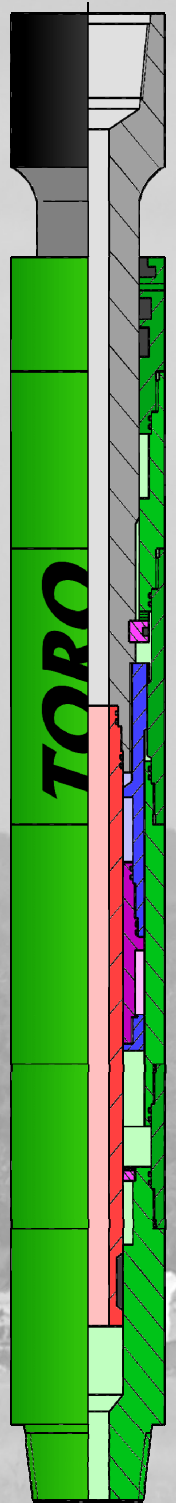


The Toro Model MO Motor Optimizer is a new tool designed to get optimum power and torque from a downhole motor. The Motor Optimizer improves the rate of penetration (ROP) by controlling both the vertical and rotational reactive forces of the motor. The Toro Model MO Motor Optimizer helps to improve drilling performance by maintaining the weight on bit (WOB) on the motor thus keeping the drill bit firmly on bottom. Using a Toro Motor Optimizer will also extend the life of the downhole motor since it helps to prevent the motor from being overworked. The Toro Motor Optimizer is a self actuated hydraulic tool that requires no special handling or field adjustments. The Toro Model MO Motor Optimizer provides the following features:

- Controls Downhole Motor Vertical Reactive Forces
- Controls Downhole Motor Rotational Reactive Torque
- Optimizes the WOB applied to the Downhole Motor
- Optimizes the ROP

Motor Optimizer Model	MO-475	MO-625	MO-650	MO-700	MO-800	MO-900	MO-950
OD (in)	4 3/4	6 1/4	6 1/2	7.0	8.0	9.0	9 1/2
ID (in)	1 1/2	1 3/4	1 3/4	2 1/4	2 1/2	2 3/4	2 3/4
Length (ft)	14.7	16.9	16.9	18.4	18.1	17.9	17.9
Weight (lbs)	705	1,213	1,323	1,543	2,205	2,866	3,307
Standard Connection	3-1/2 IF NC 38	4 IF NC 46	4-1/2 IF NC 50	4-1/2 IF NC 50	6-5/8 REG	7-5/8 REG	7-5/8 REG
Maximum WOB Load (lb)	44,962	76,435	76,435	89,924	107,908	121,397	121,397
Maximum Torque Load (ft-lb)	7,376	11,063	11,063	11,063	14,751	14,751	14,751
Maximum Pull to Yield (lb)	224,809	337,213	337,213	337,213	440,626	440,626	440,626



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