



Model HM Hydro-Mechanical Drilling Jars

The Toro Model HM Hydro-Mechanical Drilling Jar has been specifically engineered to withstand the rugged abuse of demanding applications. It is a versatile tool utilizing a field proven design for the utmost reliability. The Model HM Drilling Jar consists of single unit for both up and down jarring action.

Up jarring is actuated hydraulically and is designed to deliver a delayed jar action while downward jarring is mechanically actuated designed to deliver an instant jar action.

The Toro Model HM Hydro-Mechanical Drilling Jar is a single unit design making it easy to transport and handle at the rig location. All internal components are sealed in an oil bath to keep wear at a minimum and to prevent well fluid contamination.

Toro Model HM Drilling Jar Features:

- Up and Down Jarring in One Unit
- Mechanical Release Down
- Fully Hydraulic Release Up
- Hydraulic Delay when Jarring Up
- Simple and Reliable Design
- No Safety Clamps Required
- No Special Handling Required

Drilling Jar Model	HM-475	HM-650	HM-675	HM-800	HM-900	
Drilling Jar Type	Hydraulic Mechanical	Hydraulic Mechanical	Hydraulic Mechanical	Hydraulic Mechanical	Hydraulic Mechanical	
OD (in)	4 3/4	6 1/2	6 3/4	8.0	9.0	
ID (in)	2.0	2 1/4	2 1/4	2 3/4	3.0	
Length (ft)	14.8	17.0	17.0	18.9	20.1	
Weight (lbs)	631	1,407	1,764	2,511	3,532	
Standard Connections	3-1/2 IF NC 38	4-1/2 IF NC 50	4-1/2 IF NC 50	6-5/8 REG	7-5/8 REG	
Total Stroke	Up (in)	9.0	8.8	8.8	9.5	12.0
	Down (in)	5.9	5.9	5.9	6.9	6.2
Max. Release Load (± 15%)	Up (lbs)	85,120	161,280	161,280	244,160	212,800
	Down (lbs)	56,202	112,404	112,404	134,885	146,126
Max. Pull Load (lbs)	314,733	494,580	494,580	809,312	944,198	
Max. Torsional Load (lbs-ft)	9,588	11,063	11,063	14,751	16,226	



Toro Downhole Tools
 16626 FM 2920
 Tomball, TX 77377 USA
 Toll Free: 1-888-662-TORO
 Tel: (+1) 281-580-8676
www.torotools.com