



# Model M Mechanical Drilling Jars

The Toro Model M 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 jar is a mechanically operated single unit designed to deliver a heavy upward or downward jarring action.

The single unit design makes 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 M Drilling Jar Features:

- Up and Down Jarring in One Unit
- Fully Mechanical Release Up
- Fully Mechanical Release Down
- Simple and Reliable Design
- Suitable for High Temp Applications
- No Safety Clamps Required
- No Special Handling Required

Drilling Jar Model	M-625	M-650	M-700	M-800	
Drilling Jar Type	Full Mechanical	Full Mechanical	Full Mechanical	Full Mechanical	
OD (in)	6 1/4	6 1/2	7.0	8.0	
ID (in)	2 1/4	2 1/4	2 1/4	2 3/4	
Length (ft)	34.2	34.2	33.4	34.0	
Weight (lbs)	2,535	2,734	2,976	3,924	
Standard Connections	4-1/2 IF NC 50	4-1/2 IF NC 50	4-1/2 IF NC 50	6-5/8 REG	
Total Stroke	Up (in)	5.6	5.6	5.9	5.7
	Down (in)	6.8	6.8	6.6	7.0
Max. Release Load ( $\pm 15\%$ )	Up (lbs)	139,382	139,382	141,630	179,847
	Down (lbs)	80,931	80,931	80,931	101,164
Max. Pull Load (lbs)	494,580	494,580	494,580	562,022	
Max. Torsional Load (lbs-ft)	11,063	11,063	11,063	14,751	



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Note: Drilling jar specifications are derived from theoretical, calculated, and/or controlled testing environment. Actual performance may vary.