

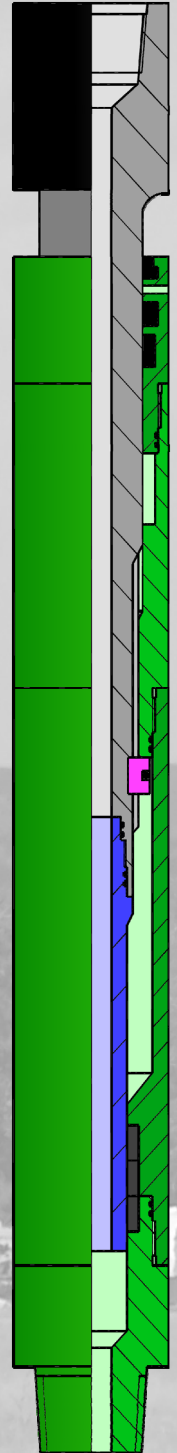


# Model SH Hydraulic Shock Subs

The Toro Model SH Shock Subs are designed to provide maximum protection against BHA vibrational damage while keeping the drill bit firmly on the bottom. Toro shock subs are engineered to reduce severe vibrations caused by hard formation drilling. By eliminating drill string bounce, the Toro Shock Sub helps to reduce drill string connection fatigue and prolong drill string life.

The Toro Model SH Shock Subs are a hydraulic design for maximum flexibility. The Toro Shock Sub features a spline assembly encased by a hydraulic piston and reservoir. The SH shock subs are fully sealed preventing the drilling fluid from contacting the internal mechanical components.

Shock Sub Model	Shock Sub Type	OD (in)	ID (in)	Length (ft)	Weight (lbs)	Standard Connection	Maximum Compression Load (lbs)	Maximum Pull to Yield (lbs)
SH-475	Hydraulic	4 3/4	1 1/2	13.0	617	3-1/2 IF NC 38	59,574	224,809
SH-625	Hydraulic	6 1/4	1 3/4	13.5	882	4 IF NC 46	77,109	337,213
SH-650	Hydraulic	6 1/2	1 3/4	13.5	1,058	4 IF NC 46	77,109	337,213
SH-700	Hydraulic	7.0	2 1/4	12.5	1,235	4-1/2 IF NC 50	88,125	337,213
SH-800	Hydraulic	8.0	2 1/2	13.5	1,631	6-5/8 REG	110,156	449,618
SH-900	Hydraulic	9.0	2 3/4	12.5	2,161	7-5/8 REG	121,397	449,618
SH-950	Hydraulic	9 1/2	2 3/4	12.5	2,425	7-5/8 REG	121,397	449,618



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