



# TOP DRIVE CEMENT HEAD

## CASING APPLICATION

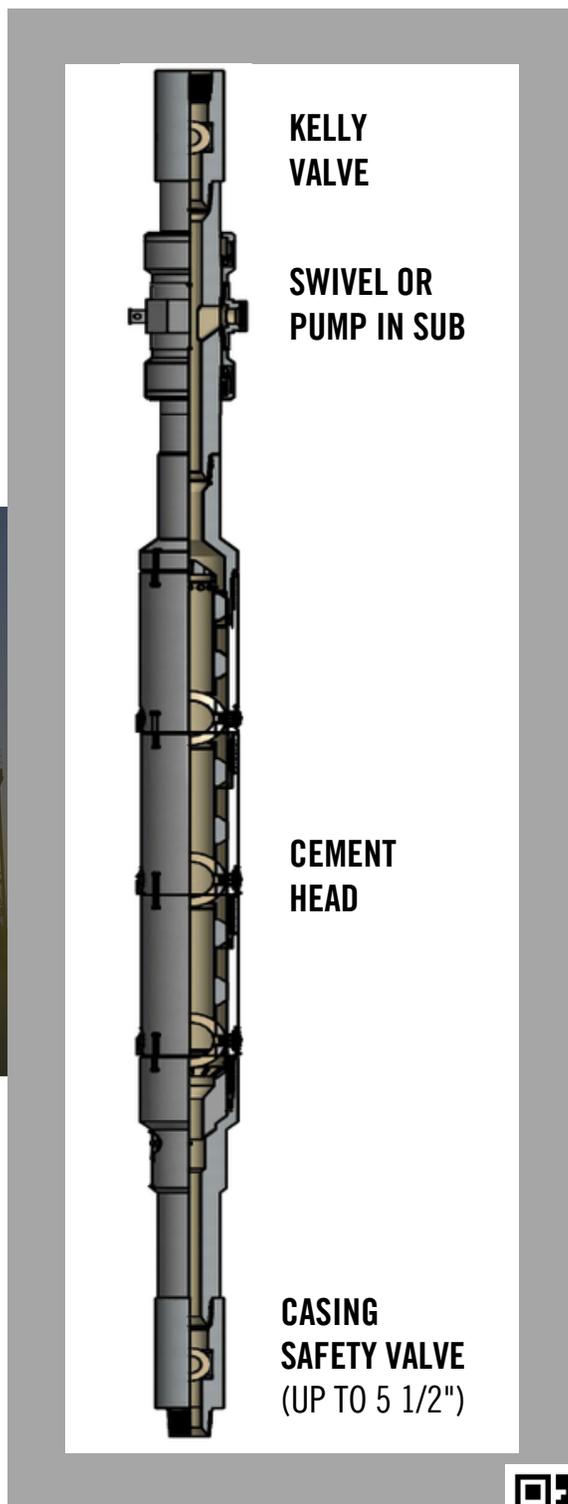
GSI's RCH Top Drive Cement Head is designed to drop plugs, darts or balls of any type or length for circulating or cementing operations. The RCH system has been designed in a modular fashion and can be configured with a swivel, pump in sub or as a stand alone head for any particular operation.

The RCH has undergone extensive finite element analysis (FEA) to validate the listed specifications for each size.

GSI has a proven track record with over 3500 runs worldwide.

## FEATURES, ADVANTAGES, & BENEFITS

- Remote capability – Limited personnel in derrick
- Manual operation w/ standard kelly valve wrench –Backup to Wireless
- ¼ turn to launch for immediate release
- Simultaneous reciprocation and rotation
- Modular design allows any number of objects to be launched
- Can be loaded or re-loaded on location
- Capable of multiple runs with one head



CAPABILITY	RCH-10	RCH-13 (4 1/2" - 7 5/8")	RCH-15 (8 5/8" - 9 7/8")
Tool OD	10"	13"	15"
Tool Joint ID - Top	2.75"	3.06"	3.06"
Working Load Limit - Tool Only	1,218,000 lbs	2,298,000 lbs	1,700,000 lbs
Maximum Working PSI	10,000 psi	10,000 psi	7,500 psi
Maximum Torque - Tool Only	54,000 ft. lbs	89,000 ft. lbs	89,000 ft. lbs
Drill Pipe Connection - Top	4 1/2" IF	6 5/8" FH	6 5/8" FH
DP/Casing Connection - Bottom	GBCD	GBCD	GBCD
<b>Note - Tensile &amp; Torque</b>	LIMITED BY CASING CONNECTION		

