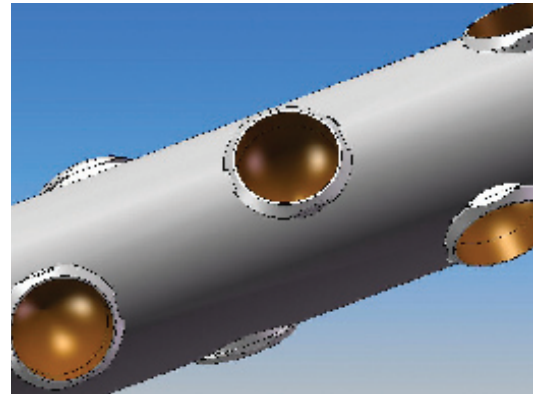


The LRI HOG™ (Heavy Oil Gun) System

The LRI HOG System was created to offer the best in charge performance for Heavy Oil, with the added benefit of:

1. **Flexibility:** Available in BH or salt and pepper configurations. Scalloped or unscalloped carriers.
2. **Ease of Loading:** The patented twistlock charge case reduces time required to load these high-density guns.
3. **Low Debris:** The liners in the BH charges selected for the LRI HOG system, effectively disperse into very small fragments, not carrots, as most BH charges create. The absence of charge tube bend tabs on the twistlock products means that there are no broken bend tabs to enter the wellbore.

Result: Benefits the energy producer, by reducing the lifetime cost of the well. Less non-productive downtime, and less cost due to maintenance and repair of PC pumps.



The LRI HOG (Heavy Oil Gun) System

RDX explosives, at 20, 26 or 39 spm. For 127mm guns, in fluid, in 177.8mm casing.

Brand	Explosive Load	Charge Descriptor	Charge Part Number	EHD (in.)	TTP (in.)	Normalized (to 5000psi)	Data	Twistlock	Low Debris
LRI	23	GH-HOG™	X2314GH	0.55	26.10	27.80	API RP43		•
LRI	28	SBH	X2814SBH	0.97	8.59	9.19	API RP43	•	•
LRI	32	SBH-HOG™	X3214SBH	1.00	8.14	8.90	API RP43		•
JRC	32	SBH	101307494	0.90	6.00		QC	•	•

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