

Description

Owen's Spiral Shogun, when combined with the new Shogun N.T. Charge, possesses the three most important features of an ideal perforator - Ideal Phasing, Deep Penetration, and High Shot Density. The Spiral Shogun is designed for through tubing applications in which standard threaded or bolted guns do not provide sufficient performance. This system is designed to be run out the end of tubing and into the casing to be perforated. The performance of the system is optimized when the casing is fully supported. This system is not designed for perforating tubing, if the Spiral Shogun is detonated inside the tubing, the tubing may burst.

Benefits / Capabilities

- 6 spf in 1-11/16" & 2-1/8" versions
- N.T. Shogun charge shoots 40% better than standard Shogun DP charge
- 40° & 60° Spiral phasing available

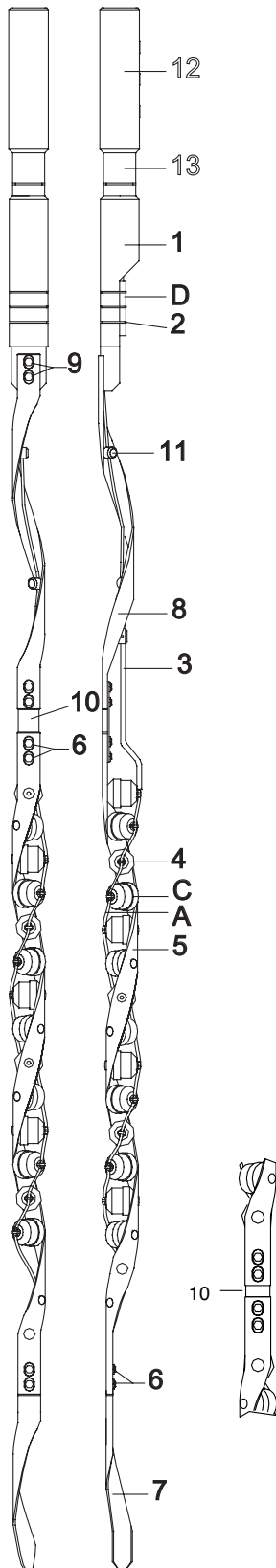
Specifications

O.D.	1-11/16"	2-1/8"	2-1/2"
Min. Restriction	1-25/32"	2-3/16"	2-19/32"
Pressure Rating	See Table		
Temperature*	310°F RDX / 375°F HMX		

* HNS/Nona Charge Capable of 450°F available

GUN SIZE	TUBING SIZE	MIN RECOMMENDED CASING SIZE
1-11/16"	2-3/8"	4-1/2"
2-1/8"	2-7/8"	5-1/2"
2-1/2"	3-1/2"	7"

PART NO.	CHARGE DESCRIPTION	PRESSURE RATING PSI (MPa)	CONVEYANCE METHOD
STP-1687-401NTX	Charge, 1-11/16" HMX, Shogun NT, DP	20,000 psi (138 Mpa)	Spiral / Flat Strip
STP-1687-401NT	Charge, 1-11/16" HMX, Shogun NT, DP		
STP-1687-401NB	Charge, 1-11/16" HMX, Shogun NT, BH		
STP-1687-301E	Charge, 1-11/16" RDX, Shogun II DP	15,000 psi (103 Mpa)	Flat Strip
STP-1687-301BE	Charge, 1-11/16" RDX, Shogun II BH		
STP-2125-401NTX	Charge, 2-1/8" HMX, Shogun NTX, DP	20,000 psi (138 Mpa)	Spiral / Flat Strip
STP-2125-401NT	Charge, 2-1/8" HMX, Shogun NT, DP		
STP-2125-401NB	Charge, 2-1/8" HMX, Shogun NT, BH		
STP-2125-301E	Charge, 2-1/8" RDX, Shogun II DP	15,000 psi (103 Mpa)	Flat Strip
STP-2125-301BE	Charge, 2-1/8" RDX, Shogun II BH		
STP-2500-401NT	Charge, 2-1/2" HMX, Spiral Shogun NT, SDP	20,000 psi (138 Mpa)	Spiral / Flat Strip
STP-2500-401NTXII	Charge, 2-1/2" HMX, Spiral Shogun NTXII, SDP		



ITEM	PART NO.	DESCRIPTION
1	STP-1687-284	1-11/16" O.D., Firing Head, Spiral Shogun
	STP-2125-284	2-1/8" O.D., Firing Head, Spiral Shogun
	STP-2500-284	2-1/2" O.D., Firing Head, Spiral Shogun
2	PUR-6000-005	Seizing Cord
	SWG-0000-004	Seizing Wire
3	STP-1687-209	1-11/16" Det Cord Protector Sleeve Assy. (w/ Retainer)
	STP-2125-209	2-1/8" & 2-1/2" Det Cord Protector Sleeve Assy. (w/ Retainer)
4	STP-2125-116	Det Cord Charge Clip, all sizes, included w/charge
5	STP-1687-236HS	Strip, 1-11/16" Shogun, 60°/360°, 4 shots/ft, 10' HS
	STP-1687-232HS	Strip, 1-11/16" Shogun, 40°/360°, 6 shots/ft, 10' HS
	STP-2125-236HS	Strip, 2-1/8" Shogun, 60°/360°, 4 shots/ft, 10' HS
	STP-2125-232HS	Strip, 2-1/8" Shogun, 40°/360°, 6 shots/ft, 10' HS
	STP-2500-232HS	Strip, 2-1/2" Shogun, 60°/360°, 4 shots/ft, 10' S
6	STP-1687-084	3/8"-16 x 3/4" Bolt and Nut Set
7	STP-1687-288	Guide Nose, 1-11/16" Spiral Shogun
	STP-2125-288	Guide Nose, 2-1/8" Spiral Shogun
	STP-2500-288	Guide Nose, 2-1/2" Spiral Shogun
	STP-1687-172	Heavy Guide Nose, 1-11/16" Spiral Shogun
	STP-2125-172	Heavy Guide Nose, 2-1/8" Spiral Shogun
	STP-2500-172	Heavy Guide Nose, 2-1/2" Spiral Shogun
8	STP-1687-229	2' Top Blank / Stiffener, 1-11/16" Spiral Shogun
	STP-2125-229	2' Top Blank / Stiffener, 2-1/8" Spiral Shogun
	STP-2500-229	2' Top Blank / Stiffener, 2-1/2" Spiral Shogun
9	STP-1687-013	3/8"-16 x 1" Bolt and Nut Set - For 1-11/16" & 2-1/8" Top Sub
	STP-1687-036	3/8"-16 x 1-1/4" Bolt and Nut Set - For 2-1/2" Top Sub
10	STP-1687-185	Tandem, 1-11/16" Spiral Shogun
	STP-2125-185	Tandem, 2-1/8" Spiral Shogun
	STP-2500-185	Tandem, 2-1/2" Spiral Shogun
11	STP-1687-208	1-11/16" Det. Cord Retainer - for blank intervals on strip
	STP-2125-208	2-1/8" & 2-1/2" Det. Cord Retainer - for blank intervals on strip
12	AES-AS60030	Magnetic Decentralizer, For 1-11/16" Spiral Shogun
	AES-AS90045-218	Magnetic Decentralizer, For 2-1/8" Spiral Shogun
	AES-AS90045-2-12	Magnetic Decentralizer, For 2-1/2" Spiral Shogun
13	AES-AS50029	Adapter Cablehead to expendable
A	A578010	Detonating Cord, 80 gr., RDX LS
	A571010	Detonating Cord, 80 gr., HMX
	A576010	Detonating Cord, 80 gr., HMX Teflon
C	STP-1687-401NTX	Charge, 1-11/16" Spiral Shogun NTX, HMX, SDP
	STP-1687-401NT	Charge, 1-11/16" Spiral Shogun NT, HMX, SDP
	STP-1687-401NB	Charge, 1-11/16" Spiral Shogun NT, HMX, BH
	STP-2125-401NTX	Charge, 2-1/8" Spiral Shogun NTX, HMX, SDP
	STP-2125-401NT	Charge, 2-1/8" Spiral Shogun NT, HMX, SDP
	STP-2125-401NB	Charge, 2-1/8" Spiral Shogun NT, HMX, BH
	STP-2500-401NT	Charge, 2-1/2" Spiral Shogun NT, HMX, SDP
	STP-2500-401NTXII	Charge, 2-1/2" Spiral Shogun NTXII, HMX, SDP
D	DET-3050-001	Uni-Det
--	STP-1687-162	Alignment Tool Kit for NT Charge
--	STP-1687-164	Shogun Tightening Tool 1-11/16"
	STP-2125-164	Shogun Tightening Tool 2-1/8"
	STP-2500-164	Shogun Tightening Tool 2-1/2"
--	MAN-STP1-001	Manual, Spiral Shogun System