

SPEX Split Shot[®] Tools

SPEX Offshore (UK) Ltd offers a complete range of **Split Shot[®] Tools** which are suitable for splitting and parting a wide range of tubing and casing. This tool is ideal in situations where restrictions prevent the use of conventional methods.

Principles of Operation

The Split Shot Tool is based on a shaped charge, housed inside a rugged, drillable aluminium carrier tube. The charge is run into the well and positioned across a tubing or casing coupling. The charge is designed to cut through the coupling longitudinally, thereby releasing the stored energy in the connection and allowing the upper section of pipe to be recovered. The Split Shot can be used for a wide variety of pipe sizes that utilise non-forged coupling connections. Selection is based on tubing coupling size. SPEX provides two sizes of tool for virtually all tubing and casing requirements. The tool can be used when severe restrictions to the I.D. prevent the use of conventional tools. The tool does not cause excessive deformation of the pipe, thereby simplifying the recovery operation and enhancing the remaining work programme. The complete Split Shot tool assembly including all explosive components and 'RF-safe' detonators can be flown on a passenger helicopter without restriction.

The tool utilises a shaped charge assembly to cut through the wall and coupling of the target tubing or casing. The linear shaped charge is manufactured to an extremely high specification and provides highly reliable penetration and performance. The linear charge is housed inside a carrier tube that provides the atmospheric chamber required for optimum charge functioning. The charge is initiated by means of a RF-safe detonator. Due to the precise cutting nature of the Split Shot it is critical that the tool is positioned against the wall of the tubular. This is required to ensure full penetration through the coupling. Integral in-line magnetic top and bottom subs provide full tool decentralisation. The tool is primarily designed for electric wireline deployment, as accurate depth control is required utilising a Casing Collar Locator to ensure the tool is positioned across the tubing connection.



The Split Shot is suitable for a wide range of target tubulars. The following selection table is designed to allow quick selection of the correct Split Shot cutter.

Equipment Specification

Tool OD	1-3/8"		1-3/8"		2"			2"		
Housing Material	Aluminium									
Tool Length	18"	24"	18"	24"	18"	24"	48"	18"	24"	48"
Explosive Load	600 grain/ft		900 grain/ft		1,200 grain/ft			2,000 grain/ft		
Tubing/Casing Applications	2.375" to 2.875"		2.875" to 4.5"		3.5" to 7"			5.5" to 16"		
Max pressure	psi		psi		psi			psi		
Up to 200 °F	14,000		14,000		11,700			11,700		
200 °F to 325 °F	13,250		13,250		11,000			11,000		
325 °F to 400 °F	11,800		11,800		9,850			9,850		

Pressure Ratings are based on 1 hour exposure.

The Split Shot® is a registered trademark of Owen Oil Tools

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