

Well Intervention

APPLICATIONS

- Well abandonment and P&A operations
- Tubing and casing recovery; cutting drill pipe
- Severing control lines and cables during recovery operations
- Cutting plug and packer mandrels

FEATURES

- 360° precision cut with no flare or detonation shock
- Minimal debris; tool remains intact post-operation
- Compatible with RF-safe and addressable igniters
- Cuts in compression or tension; supports single-trip workflows

BENEFITS

- Reduces shock-induced tool failures and electronic risk
- Minimizes trips and rig/vessel time for greater efficiency
- Eliminates fish dressing with clean, controlled severance
- Enables plug-punch-cut operations in one run

OPERATING ENVELOPE
(Typical)

- Collapse rating: up to 10,000 psi (tool dependent)
- Temperature: up to 350°F / 177°C (configuration and tool size dependent)
- Conveyance: wireline, slickline, tractor, and tubing

Propellant tubing cutter

Overview

Operators and intervention teams often rely on high-explosive jet cutters or chemical cutters to sever downhole tubulars—methods that can introduce shock loading, leave debris, and require multiple runs for punch and cut operations. These limitations increase risk to sensitive electronics, raise higher non-productive time (NPT), and complicate compliance and logistics.

The Halliburton Propellant tubing cutter offers a safer, more efficient alternative. Using a solid-propellant, non-detonating (deflagrating) reaction, the tool focuses combustion gases radially to ablate the tubular and deliver a clean, 360° circumferential cut. This shock-free operation minimizes impact on adjacent tools and electronics, supports select-fire workflows, and enables plug-punch-cut operations in a single run.

Designed for compatibility with e-line and tubing-conveyed systems, the Propellant tubing cutter integrates with RF-safe and addressable electronic ignition systems, pressure-actuated firing heads, and standard wireline hardware. It performs reliably in challenging environments—up to 10,000 psi and 350°F (configuration dependent)—and aligns with best practices for plug and abandonment (P&A) and pipe recovery.

Classified as 1.4C (Cartridges, oil well; UN0278), the tool meets regulatory requirements for safe transport, storage, and handling. Its precision cutting capability, minimal debris profile, and single-trip combinability improve operational efficiency, reduce rig and vessel time, and enhance safety across wellsite operations.



Propellant tubing cutter

Propellant tubing cutter specifications

PROPELLANT CUTTER DESCRIPTION	TOOL OD (IN.)	GRADE	NOM WEIGHT (LB/FT)	WALL (IN.)
1.000	1.500	L80 – S135	1.623	.109
1.312	1.750	L80 – S135	1.638 – 2.175	.095 – .125
1.688	2.375	L80 – S135	4.600 – 5.800	.190 – .254
	2.875	L80 – S135	6.400 – 10.100	.217 – .390
1.938	2.875	L80 – S135	6.400 – 8.600	.217 – .308
	3.500	L80 – S135	9.200 – 10.200	.254 – .289
2.375	3.500	L80 – S135	9.200 – 10.200	.254 – .289
	4.000	L80 – S135	11.000 – 16.100	.286 – .430
2.500	4.000	L80 – S135	11.000 – 16.100	.286 – .430
3.125	4.500	L80 – S135	11.600 – 15.100	.250 – .337
3.375	4.500	L80 – S135	11.600	.250
	5.000	L80 – S135	15.000 – 18.000	.296 – .362
3.875	5.500	L80 – S135	15.100 – 23.000	.275 – .415

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