

D-Trig

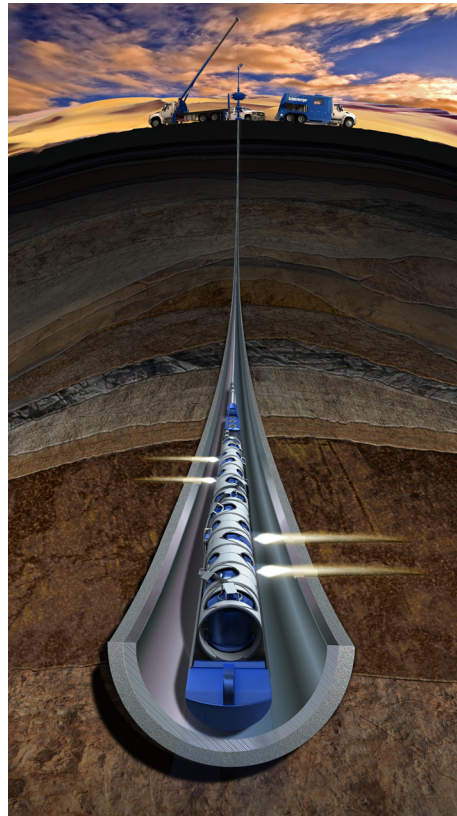
Digital activation device

APPLICATIONS

- Tubing punchers or jet cutters
- Explosive setting tools
- Hollow carrier or exposed guns

ADVANTAGES

- Fully API-RP67 compliant
- Multiple, redundant fail-safe systems, including
 - Safety sub with pressure switch isolates the explosive device at ambient pressure
 - Safety fuse isolates power battery on command or automatically by fail-safe criteria
 - Secure2* electronic detonator, one of the safest initiators in the industry
- Validation and depth accuracy provided by real-time correlation
- Command and control explosive action only when ready
- Active control of safety fuse to render the gun safe in the event of misrun
- Correlate and perforate in one run; no depth corrections or memory data to shift
- Real-time confirmation and validation of explosive event with downhole sensor data



D-Trig device.

The D-Trig* digital activation device allows you to punch and cut tubular goods, perforate for production with hollow carrier or exposed guns, set plugs and packers with explosive setting tools—all with surface-control. Fully compliant with API-RP67 standards, the D-Trig device is engineered to ensure maximum safety and control when perforating with LIVE* digital slickline services.

Safety features of the D-Trig device include

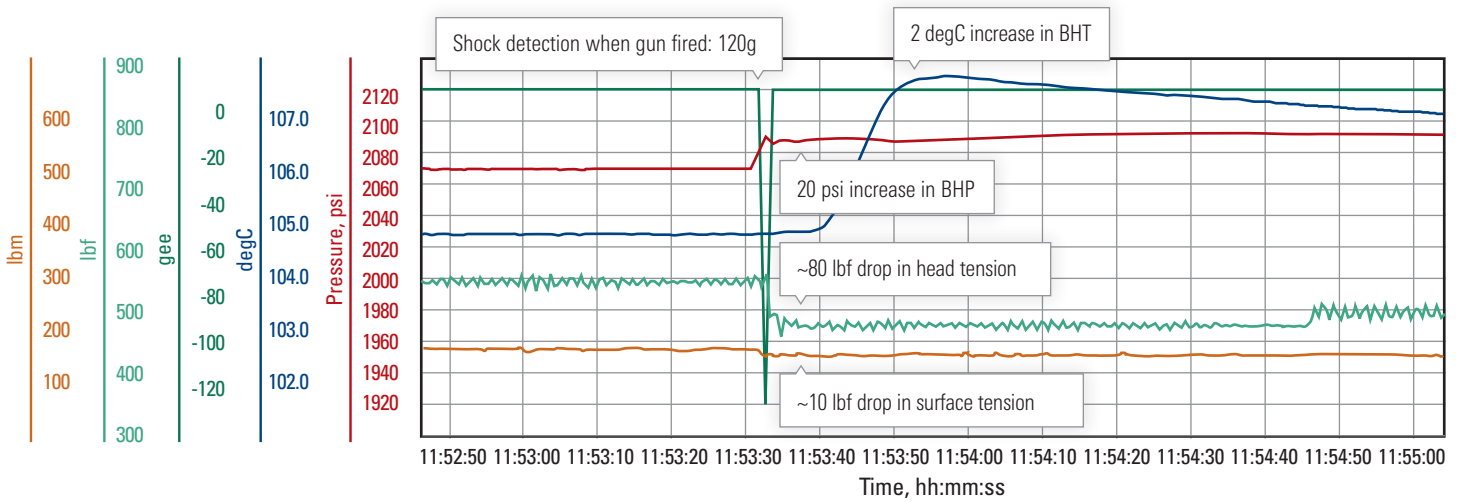
- utilizing the Secure2 detonator which has no primary explosives and requires a unique high voltage pulse to initiate
- standard operating procedures written to API RP67 standard
- dual microprocessors to evaluate and compare surface commands before any action can be initiated
- a pressure switch isolates the explosive device from the D-Trig device at ambient pressure
- a safety fuse isolates the shooting battery on operator command or automatically according to any of 3 safety criteria: 4 hr fail-safe telemetry timeout, low battery voltage, or microprocessor clock error
- the ability to disarm a device electrically prior to pulling out of hole in the event of a suspected misfire
- downhole instrumentation using shock detection ensures firing event recognition, eliminating pulling to the surface with a suspected live gun.

A gamma ray-casing collar locator provides real-time downhole correlation to reference log or completion tubing tally. The ruggedized pressure-temperature tool aids management of perforation underbalance and records after-shoot validation of the explosive event—U-tube effect for punch, temperature indication of flow, pressure build-up, or pressure integrity following plug set. The integrated shock sensor records gun shock upon firing, providing an independent confirmation of operation success.

D-Trig

D-Trig Specification

	Imperial	Metric	
Equipment Specifications	Tool OD	1 ¹¹ / ₁₆ in	43 mm
	Makeup length	66.8 in	1697 mm
	Weight	24 lbm	11 kg
	Material	NACE compliant	
	Top thread	1 ³³ / ₆₄ in – 12-stub ACME female	
	Bottom connection	Schlumberger 1 ¹¹ / ₁₆ in Monopin box connects to all standard Schlumberger gun systems Crossovers available for most third party gun systems	
	Power supply	Lithium battery, 14.2 V – Provides shoot power, lithium battery, 3.6 V – electronics	
Operational Specifications	Run capacity	Fire single device per run – Cutter, puncher or gun length limited by rig-up restrictions	
	Initiator	Secure2 detonator for hollow carrier or exposed, or explosive setting tool applications	
	Temperature rating	302 degF	150 degC
	Pressure rating	15,000 psi	
	Fluids	Standard fluids and H ₂ S service	



LIVE services log plot showing confirmation of perforation gun firing.

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