



## PropCUT™

### Single Trip Punch and Cut System

#### Applications

- Well Abandonment
- Tubing and Casing Recovery
- Drill-pipe/collar cutting
- Annulus access for circulation
- Precision punch and cut of internal packer mandrels

#### Benefits

- Independent control of punch and cut utilising select fire switches
- 360° precision cut with a clean edge, zero flare and no debris
- No requirement to dress the top of the fish
- Adjustable aperture gap size selectively controls system power
- Compatible with all radio safe industry standard firing systems
- Severs the target tubular with no damage to host casing strings
- Can operate with a pressure differential between bore and annulus

The SPEX PropCUT™ system is a single trip, selective fire, punch and cut system. With complete modularity the tool string can be configured to multi-punch, multi-cut or punch and cut.

The PropCUT™ system provides a trip saving solution in a variety of applications and can also be utilised as a contingency back-up cutter.

#### Overcome Industry Challenges

The SPEX solid propellant PropCUT™ system overcomes issues such as the presence of Calcium Bromide in the completion, or leaving debris down-hole, and the challenges presented with tubing in compression. Unlike shaped charge and other detonating explosive technologies, SPEX's solid propellant technology deflagrates and does not create a shockwave.

#### Engineered Propellant Technology

Securely packaged within PropCUT™ is the SPEX propellant technology, a high precision factory cast propellant assembly which is optimised to contain the minimum necessary propellant to punch and sever a specific tubular target.

#### Full Customisation

PropCUT™ can be configured to cut or punch a single string to ensure that when deployed in multiple casing strings the risk of damage to external casing is eliminated. PropCUT™ can be tailored to punch one or more holes and additionally makes larger diameter holes than traditional perforating charges thus providing unrestricted flow areas.

#### Regulatory Compliance

The PropCUT™ propellant and system are both tested and approved to National and International requirements and laws.

#### Eliminate Additional Trips

Utilising a hybrid BHA system allows a punch to be completed, independent of activation of the propellant cutter. Following deployment of PropCUT™ the severed target edge is smooth and without any flaring, allowing easy access for overshots and fishing tools. The advantage of the system being deployed in a single trip, unlike other punch and cutting technologies, results in significantly reduced time and costs.

#### On Command 'RF safe' Initiation

On command, the propellant assembly ignites, and hot exhaust gases exit the tool at high speed, rapidly ablating and removing material from the target until full severance and/or the punch is achieved.

An electrical crossover connects PropCUT™ to wireline weight bars and the casing collar locator tool to ensure accurate positioning before each initiation. The system utilises industry standard 'RF safe' igniters which provide reliable and safe initiation without the need for radio silence. By incorporating industry proven select fire switches, multiple initiators can be independently addressed and controlled from surface to selectively punch and cut.

Visit [www.spex-innovation.com](http://www.spex-innovation.com) to find out more about SPEX and its products and services.

SIZE	TUBULAR OD	WEIGHT (ppf.)
1-11/16"	2-3/8"	4.7
1-15/16"	2-7/8"	6.5
2-3/8"	3-1/2"	9.2
2-1/2"	3-1/2", 4-1/2"	9.2-15.1
3-1/8"	4-1/2", 5"	11.6-18
3-3/8"	4-1/2", 5"	11.6-18
3-7/8"	5-1/2"	17-23
4-1/8"	5-1/2"	17-23

\*All systems 400°F and 10,000 psi. Other sizes available on request

