

RAZOR CUT

NO EXPLOSIVES, NO LITHIUM, NO DEBRIS, NO SWELL

INTRODUCTION

RAZORCUT is a non-explosive, non-lithium downhole tubular cutting tool which can be run on slickline (mechanical or real time / digital), electric line, coiled tubing, sucker rod or work string.

RAZORCUT delivers a non-flaring, zero debris cut in tension or compression. For CUT confirmation the tool records an electronic signature and also contains a mechanical telltale ensuring that downhole parameters are available to determine the success of the job. Potentially the most significant aspect of the tool is that the cut can be delivered via mechanical or real time slickline, offering customers a cost-effective alternative to other electric line cutting tools currently available in the marketplace.

The RAZORCUT tool has a unique rotating cutting assembly which delivers a debris-free, smooth, bevelled and precise non flaring cut in the target pipe which can easily be fished without the need to dress the pipe before engaging with the overshot.

RAZORCUT is an electro-hydraulic downhole tool and utilises a disposable alkaline battery pack for power requirements which delivers a single cut per pack.

The alkaline pack is easy to handle, easy to transport, recyclable and wellsite safe.



FEATURES & BENEFITS

- No Explosive, No Lithium, No Chemicals, No Thermites, No Gases which improves safety, handling, and logistics
- Rugged, reliable, and efficient tubular cutting tool
- Designed to prevent damage to outer strings
- Cuts in tension or compression
- No debris, No swarf, No Swell created
- Contains a safety shear out mechanism.
- Is anchored to prevent being blown up hole during cut.
- Eliminates the need for dressing pipe before fishing
- Short, light weight design aids in mobilisation via aircraft
- Ideal for operations with limited rig up height i.e. rig-less operations
- Cost-effective solution when compared to rival cutting methods
- Tool can be activated in real time or memory mode
- Tool electronics are changed each run ensuring quality and reliability
- High temperature tool qualified to 437°F for 6 hours

SPECIFICATIONS

RAZORCUT Specifications for 3.500" to 5.000" Casing

Tubing Size	3.500"	4.500"	5.000"
Tool Length	8.24 feet	8.05 feet	8.05 feet
Max Tool OD	2.720"	3.600"	3.800"
Tool Weight (lbs)	113.3 lbs	189.6 lbs	212.4 lbs
Max Operating Pressure	15,000 psi	15,000 psi	15,000 psi
Max Temp – Standard Tool	250°F for 8 hours / 275°F for 6 hours		
Max Temp – RAZORHEAT Tool	392°F for 12 hours / 437°F for 6 hours		
Tubing Weight	Up to 9.3 lb/ft	Up to 15.1 lb/ft	Up to 20.3 lb/ft
Cutting Head OD	2.720"	3.600"	3.800"
Number of Cuts Per Run	1	1	1
Cut Time (minutes)	+/- 40	+/- 40	+/- 40
Debris Per Cut	None	None	None
Pipe Swell	None	None	None
Cut Verification	Yes	Yes	Yes

SPECIFICATIONS

RAZORCUT Specifications for 5.500" to 7.000" Casing

Tubing Size	5.500"	7.000"
Tool Length	8.05 feet	8.05 feet
Max Tool OD	4.250"	5.720"
Tool Weight (lbs)	228.9 lbs	301.5 lbs
Max Operating Pressure	15,000 psi	15,000 psi
Max Temp – Standard Tool	250°F for 8 hours / 275°F for 6 hours	
Max Temp – RAZORHEAT Tool	TBA	
Tubing Weight	Up to 23.0 lb/ft	Up to 32.0 lb/ft
Cutting Head OD	4.250"	5.730"
Number of Cuts Per Run	1	1
Cut Time (minutes)	+/- 50	+/- 50
Debris Per Cut	None	None
Pipe Swell	None	None
Cut Verification	Yes	Yes

APPLICATIONS INCLUDE

- ⌚ TUBING CUTTING ⌚ CUTTING PACKER MANDRELS
- ⌚ CASING CUTTING ⌚ SLICKLINE MECHANICAL PIPE CUTTING

- ⌚ 7" RAZORCUT commercialising in Q4 2024
- ⌚ 2^{7/8}" RAZORCUT in development
- ⌚ Tested for 30,000lbs Compression

