



Downhole Electric Cutting Tool (DECT)

The DECT is the first intelligent pipe severing tool which meets industry demands for high precision and reliable equipment to cleanly cut tubulars, without using dangerous chemicals or explosives.

Description

The DECT can be Wireline or Tractor deployed. Depth correlation is achieved by means of its own integral digital CCL, an additional analogue (shooting type) CCL or by the addition of a spacer sub incorporating a No-Go device.

DECT operation is controlled by means of a notebook PC and surface control panel. Once the tool is positioned on depth anchors are set and the cutting operation is initiated. The rotating cutting head is at the bottom of the tool and both its speed and depth of cut are monitored at surface. Where a precise depth of cut is required the travel of the cutting tip can be limited. Approximate cutting time in 5", 19.5lb/foot drill pipe is 7 minutes.

Features

- Helicopter Transportable – DECT is not classed as Hazardous Goods.
- Simple maintenance – can be redressed at wellsite.
- Pipe cut cleanly allowing it to be easily retrieved.
- Cuts all types of 4-1/2", 5" & 5-1/2" tubing(including 13Cr) and casing.
- Crossovers to various service company connections available.
- Multiple cuts during single run.
- Cuts pipe in horizontal sections.
- Ideal cutter for packer/specialized completion tool release where precise cut required.
- 3.25" Cutting Head can be configured for cuts in 25Cr.



Specification

Temperature rating	300°F	150°C
Pressure rating*	15000psi	103.4MPa
Tool OD	2.75in	70mm
Tool length	14.52ft	4.42m
Tool weight	136.6lbs	62.1kgs
Power supply	650VDC, 1500mA	
Cut point (from bottom of the tool)	3in	76mm
Maximum wall thickness	0.75in	19mm
Anchoring range - 2.75in Head	2.99-4.4in	76-112mm
Minimum pipe ID - 2.75in Head**	2.99in	76mm
Maximum cut - 2.75in Head	5.1in	130mm

The tool can be deployed in a selection of DP in the 3-1/2" – 5-1/2" range (3-1/2", 4", 4-1/2", 5" & 5-1/2").

