

## Downhole Electric Cutting Tool (DECT001)



The DECT is the first intelligent pipe severing tool that meets industry demands for reliable, high precision 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 the surface. Where a precise depth of cut is required, the travel of the cutting tip can be limited.

Approximate cutting time in 5 in., 19.5 lb/ft drill pipe is seven 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" and 5 1/2" tubing (including 13 Cr) and casing
- Crossovers to various service company connections available
- Multiple cuts during single run
- Cuts pipe in horizontal sections
- Ideal cutter for packer/specialised completion tool release where precise cut is required
- 3 1/4" Cutting head can be configured for cuts in 25 Cr

### Options

- DECT002—cutter for 7-inch pipe.
- DECT200—high temperature cutter (run on hept cable).



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Specifications		
Temperature rating	300°F	150°C
Pressure rating**	15,000 psi	103.4 MPa
Tool OD	2.75 in.	70 mm
Tool length	14.52 ft	4.42 m
Tool weight	136.6 lb	62.1 kg
Power supply	650V DC, 1500 mA	
Cut point (from bottom of the tool)	3 in.	76 mm
Maximum wall thickness	0.75 in.	19 mm
Anchoring range-2.75 in. Head	2.99-4.4 in.	76-112 mm
Minimum pipe ID-2.75 in. Head***	2.99 in.	76 mm
Maximum cut-2.75 in. Head	5.1 in.	130 mm
Anchoring range-3.25 in. Head	3.476-5 in.	89-127 mm
Minimum pipe ID-3.25 in. Head	3.5 in.	89 mm
Maximum cut-3.25 in. Head	6.1 in.	155 mm
** 20,000 psi option: increases electronic housing OD to 2.5" (64 mm).		
*** Deployment in 3 1/2" tubing should be considered on a case by case basis.		

## Drill Pipe Cuts

- 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" and 5 1/2").

Extended cutter blade



Cut section of casing

