

DPU® Tubing Puncher

NON-EXPLOSIVE ELECTRO-MECHANICAL PUNCH SOLUTION

OVERVIEW

The Halliburton Downhole Power Unit (DPU®), Elite Downhole Power Unit (EDPU), and Downhole Power Unit–Intelligent (DPUi) can be set up to run the DPU Tubing Puncher.

- » Non-explosive
- » Works across multiple pipe grades
- » Onboard key performance indicator (KPI) data
- » Conveyance independent on slickline, RELAY™ digital slickline, e-line, Tractor, and coiled-tubing solutions

FEATURES

- » Works in 2⅞-inch, 3½-inch, 4½-inch, and 5½-inch pipe sizes
- » Operates in multiple tubing grades: J-55, L-80, P-110, and 13CR
- » Onboard memory to analyze setting force, motor voltage, motor current, stroke length, and elapsed time to provide a digital signature of the set
- » Perforating force up to 80,000 lbf with the 3.59-inch tool
- » High-temperature, 2.75-inch tool rated to 375°F (190.5°C)
- » RELAY DSL and e-line offer real-time depth correlation and on-command control

BENEFITS

- » Improved health, safety, and environmental (HSE) results with non-explosive devices that do not require the additional logistical handling personnel to move explosives
- » Optional non-dangerous-goods power cell for easy transport
- » Non-pressure-compensated design allows for a hydrostatic boost during barrier sets
- » Short tool design allows for easy rig-up for limited-height scenarios
- » Designed for a slow electro-mechanical set, and the tool is jarring tolerant



DPU® Tubing Puncher Specifications

Tubing Size	2 7/8 in.	2 7/8 in.	3.5 in.	4.5 in.	4.5–5.5 in.	5.5 in.
Tubing Weight	6.5 to 8.7 ppf 9.5 to 10.7 ppf	6.5 to 8.7 ppf 9.5 to 10.7 ppf	7.7 to 12.9 ppf	12.75 ppf	12.75 to 20 ppf	20 ppf
Hole Size	0.375 in.	0.375 in.	0.375 in.	0.56 in.	0.56 in.	0.56 in.
Tool Outside Diameter	2.03 to 2.215 in.	2.03 to 2.215 in.	2.59 to 2.762 in.	3.8 in.	3.8 to 4.62 in.	4.62 in.
DPU Size	DPU & EDPU 1.69 in.	DPUi 1.75 in.	DPU, EDPU & DPUi 2.5 in.	DPU & EDPU 3.59 in.	DPUi 3.375 in.	DPU & EDPU 3.59 in.
Outside Diameter	1.69 in. 41.9 mm	1.75 in. 44.5 mm	2.51 in. 63.8 mm	3.59 in. 91.2 mm	3.375 in. 87.5 mm	3.59 in. 91.2 mm
Setting Force	15,000 lbf 66.7 KN	15,000 lbf 66.7 KN	40,000 lbf* 177.9 KN	60,000 lbf** 266.9 KN	70,000 lbf 311.4 KN	60,000 lbf** 266.9 KN
Stroke Length	9.0 in. 228.6 mm	13.0 in. 412.8 mm	13.0 in.* 412.8 mm	8.75 in. 222.3 mm	13.0 in. 412.8 mm	8.75 in. 222.3 mm
Pressure Rating	15,000 psi 103 MPa	20,000 psi 137.9 MPa	30,000 psi* 206.8 MPa	10,000 psi 69 MPa	30,000 psi 206.8 MPa	10,000 psi 69 MPa
Temperature Rating	302°F 150°C	340°F 171°C	340°F* 171°C	329°F** 160°C	340°F 171°C	329°F** 160°C

* 2.5-inch DPUi, 13-inch stroke with 40,000-lb force, 30,000 psi, and 340°F (171°C)
2.51-inch DPU and EDPU, 9-inch (215.4-mm) stroke, 30,000-lb (133.5-KN) force, 15,000 psi (103 MPa), and 302°F (150°C)

** Temperature rating of 329°F (165°C) with lithium batteries, 250°F (121°C) with alkaline batteries.
Optional 80,000 lbf Force tool available

For more information, contact your local Halliburton representative
or visit us on the web at www.halliburton.com

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