Halliburton's Downhole Power Unit (DPU\textsuperscript{*}) tool provides unsurpassed reliability and quality assurance in setting wellbore devices such as plugs, packers, retainers, and numerous other downhole devices. The DPU tool is a battery-powered, rig-safe, nonexplosive electromechanical tool that is expanding well-intervention capabilities. By generating a slow, precisely controlled linear force, the DPU tool optimizes settings, and ensures maximum performance of a well completion even in the most high-risk environments. With the Advanced Measurement System (AMS) for accurate depth control, the slickline-conveyed DPU tool has performed reliable and flexible well-intervention solutions beyond conventional methods.

The subsurface device (plug, packer, straddle, etc.) is attached to the DPU tool, which can be deployed on slickline, coiled tubing, or wireline tractor. The stroke length, setting force, and rate at which the force is applied during the setting operation are recorded in memory for later playback and quality-assurance purposes. The slow, controlled setting sequence maximizes sealing and anchoring of the wellbore device. When the designated setting force is achieved, the DPU tool separates from the subsurface device and is then retrieved from the wellbore.

The DPU tool’s motion control and high linear force provides an alternative to electric-line, jointed-pipe, and coiled-tubing well interventions. At the wellsite, the tool can be easily adapted to set or retrieve devices based on intervention requirements.

**Benefits**
- Improved safety and reliability through nonexplosive operation
- Eliminates logistical handling of explosives
- Improved reliability through slow, controlled setting of downhole device
- No jar required
- Compact heli-lift compliant for portable and rig-less operations
- Intervention versatility with dual setting and retrieving capability
- Cost-effective solution in comparison to other deployment methods
- Conveyance flexibility with solutions on slickline, electric line, coiled tubing, and wireline tractors

**Features**
- Proprietary technology provides the ability to communicate real-time to DPU tool from surface
- Built-in memory to analyze setting force, stroke length, and displacement rate for quality assurance and tool performance
- Setting capability for multiple tubing/casing interventions with force up to 60,000 lbf (267 MN) and 375°F (191°C)
- Slow, controlled setting sequence allows sealing elements and anchoring devices to conform to wellbore
- Robust hardware and electronics capable of withstanding high-impact loads encountered during well-intervention operations
- Can be integrated with tractor-conveyance system for high-angle applications
Applications

The DPU tool provides numerous cost-effective solutions for today's operational requirements, including completion and workover activities, deepwater subsea interventions, and plug and abandonment operations. Some of the applications for the DPU include:

- Setting/pulling retrievable bridge plugs
- Setting permanent bridge plugs
- Setting cement retainers
- Activating dump bailers
- Setting production packers
- Punching holes in tubing or casing
- Running straddles
- Pulling subsea crown plugs
- Running tubing/casing patches
- Running high-expansion hangers

Downhole Power Unit (DPU®) Specifications

<table>
<thead>
<tr>
<th>Tool</th>
<th>OD</th>
<th>Pressure Rating</th>
<th>Temperature Rating</th>
<th>Set/Retrieve Force</th>
<th>Stroke Length</th>
<th>Length</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPU 1.69</td>
<td>1.69 in. (42.9 mm)</td>
<td>15,000 psi (103 MPa)</td>
<td>300°F (149°C)</td>
<td>15,000 lbf (66.7 kN)</td>
<td>9.0 in. (22.9 cm)</td>
<td>46.94 in. (119.23 cm)</td>
<td>29.5 lb (13.4 kg)</td>
</tr>
<tr>
<td>DPU 2.5</td>
<td>2.50 in. (63.5 mm)</td>
<td>15,000 psi (103 MPa)</td>
<td>300°F (149°C)</td>
<td>30,000 lbf (133.5 kN)</td>
<td>8.5 in. (21.6 cm)</td>
<td>56.14 in. (142.60 cm)</td>
<td>69.8 lb (31.7 kg)</td>
</tr>
<tr>
<td>DPU 2.75**</td>
<td>2.75 in. (69.9 mm)</td>
<td>15,000 psi (103 MPa)</td>
<td>375°F (191°C)</td>
<td>40,000 lbf (177.9 kN)</td>
<td>9.0 in. (22.9 cm)</td>
<td>89.00 in. (226.06 cm)</td>
<td>120.0 lb (54.4 kg)</td>
</tr>
<tr>
<td>DPU 3.59*</td>
<td>3.59 in. (91.2 mm)</td>
<td>10,000 psi (69 MPa)</td>
<td>250°F (121°C)</td>
<td>60,000 lbf (266.9 kN)</td>
<td>36.0 in. (91.4 cm)</td>
<td>160.00 in. (406.40 cm)</td>
<td>308.5 lb (139.9 kg)</td>
</tr>
<tr>
<td>DPU 3.59*</td>
<td>3.59 in. (91.2 mm)</td>
<td>10,000 psi (69 MPa)</td>
<td>250°F (121°C)</td>
<td>60,000 lbf (266.9 kN)</td>
<td>8.75 in. (22.2 cm)</td>
<td>92.05 in. (233.81 cm)</td>
<td>200.0 lb (90.7 kg)</td>
</tr>
<tr>
<td>DPU 3.66*</td>
<td>3.66 in. (93.0 mm)</td>
<td>10,000 psi (69 MPa)</td>
<td>250°F (121°C)</td>
<td>60,000 lbf (266.9 kN)</td>
<td>8.75 in. (22.2 cm)</td>
<td>86.55 in. (219.84 cm)</td>
<td>201.2 lb (91.3 kg)</td>
</tr>
</tbody>
</table>

* Temperature rating of 329°F (165°C) with lithium batteries
** Optional features w/external flask

For more information on our Downhole Power Unit (DPU), contact your local Halliburton Wireline and Perforating Services representative or visit us on the web at www.halliburton.com/wireline