16–20-in. Drill Tech®
Casing Scraper

ROTATIONAL SCRAPER FOR DRILLING AND
CLEANOUT OPERATIONS

OVERVIEW
The 16–20-in. CleanWell® Drill Tech® casing scraper is designed to mechanically assist in cleaning wellbore casings by scouring and removing mud film and other restrictive material from the inner casing wall diameters.

Like the standard Drill Tech casing scraper, the enhanced 16–20-in. tool is classified as a rotational scraper – meaning the components rotate with the rotation of the workstring. A rotational system is required to address debris and restrictions such as casing ovality that may be encountered in downhole environments.

The tool can be run at any point in the workstring, including directly above the drill bit. The eight-blade stabilizers provide a tight fit for centralization, while allowing significant total flow area (TFA) past the tool. The angle of the blades ensures 360-degree coverage, while providing a path for debris to continue past the tool.

The tool performs all the functions of the standard Drill Tech casing scraper, including its standard single-trip displacement applications in combination with other wellbore cleaning tools.

Additional applications include:
» Unfiltered displacements prior to running a tieback liner
» Plug and abandon (P&A) operations

FEATURES
» Robust, rotational cleaning
» Greater than 360-degree casing coverage
» Casing friendly blade design - eliminates casing wear concerns
» Integral mandrel
» Smooth inner bore
» No internal connections or upsets
» Big bore design (large IDs)
» Maximum radial total flow area (TFA)
» Fixed, spring-loaded 25-degree blades
  » Independent finger action
» 4145 or 4430 material construction
» No external bolts or fasteners
### 16–20-in. Drill Tech® Casing Scraper Technical Specifications

<table>
<thead>
<tr>
<th>Casing Size (in)</th>
<th>Casing Weight (PPF)</th>
<th>Stabilizer Size (in)</th>
<th>Maximum Blade Extension (in)</th>
<th>TFA Past Tool (in²)</th>
<th>Maximum Trip Speed (ft/min)</th>
<th>Max Rotating Speed in Tension (RPM)</th>
<th>Max Rotating Speed in Compression (RPM)</th>
<th>Max Compression While Rotating (klbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>128 - 146</td>
<td>13.95</td>
<td>14.94</td>
<td>18.34</td>
<td>200</td>
<td>120</td>
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<td>50</td>
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<tr>
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<td>65 - 109</td>
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<td>24.10</td>
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<td>120</td>
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<tr>
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<td>94 - 128</td>
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<td>106.5 - 169</td>
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<td>59.05</td>
<td>200</td>
<td>120</td>
<td>90</td>
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