Gator Perforator
Hydro-mechanical perforating system.

APPLICATIONS
- P&A operations
- Remediation of annulus cement to remove micro-annuli, channeling
- Trapped Gas behind casing

BENEFITS
- Explosive Free Solution
- Easily transported
- Limitless cuts
- Depth penetration control
- Reduce Rig time compared with explosive perforations

FEATURES
- On-demand cuts
- Deployed on coil tubing or jointed pipe
- Compatible – can be run with Packers and Bridge Plugs
- Allows Single and dual casing mechanical perforations

Mechanical cutting or perforating of casing slots
The Gator Perforator is a hydro-mechanical perforator or casing cutter that is an alternative to conventional perforating guns in plug and abandonment (P&A) operations. Its function is to mechanically cut or perforate slots in the casing to provide a flow path to the formation or the B-Annulus. The tool can cut through single and dual casing configurations and be deployed on coil tubing or drill pipe.

There are two types of Gator Perforator available:
- The Pressure Perforating Tool (PPT): Standard cutting tool built-in with four blades and provides a scallop shape cut.
- The Deep Penetrator Tool (DPT): Designed for perforating dual strings of casings or multiple strings if required.

Activation
The Gator’s three major components are the cutter sub, which encloses the blade cutting assembly. The piston chambers convert the hydraulic force into axial force for cutter deployment, and the dump sub gives a surface indication of the cut’s completion.
## Gator Perforator (PPT)

<table>
<thead>
<tr>
<th>Tool Series</th>
<th>265 PPT</th>
<th>375 PPT</th>
<th>450 PPT</th>
<th>600 PPT</th>
<th>825 PPT</th>
<th>925 PPT</th>
<th>1200 PPT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body OD, in.</td>
<td>2.65</td>
<td>3.75</td>
<td>4.50</td>
<td>6.0</td>
<td>8.25</td>
<td>9.25</td>
<td>12.0</td>
</tr>
<tr>
<td>Casing Size, in.</td>
<td>3.50</td>
<td>4.5</td>
<td>5.5</td>
<td>7.0</td>
<td>9.625</td>
<td>10.75 – 11.75</td>
<td>13.375 – 16.0</td>
</tr>
<tr>
<td>Body Connections, in.</td>
<td>Box Up x Pin Down</td>
<td>1.90 EUE</td>
<td>2⅞ EUE</td>
<td>2⅞ EUE</td>
<td>3 ½ EUE</td>
<td>4⅞ (NC50)</td>
<td>4⅞ (NC50)</td>
</tr>
<tr>
<td>Joint Strength, lbs</td>
<td>233,311</td>
<td>294,785</td>
<td>269,536</td>
<td>626,705</td>
<td>1,030,165</td>
<td>1,030,165</td>
<td>2,704,973</td>
</tr>
<tr>
<td>Overall Length, in.</td>
<td>29.2*</td>
<td>37*</td>
<td>45.23*</td>
<td>58.70*</td>
<td>107.375*</td>
<td>107.375*</td>
<td>105.75*</td>
</tr>
<tr>
<td>Weight, lbs</td>
<td>32*</td>
<td>77*</td>
<td>114*</td>
<td>278*</td>
<td>776*</td>
<td>798*</td>
<td>2,215*</td>
</tr>
<tr>
<td>Tensile Yield Limit, lbf</td>
<td>149,260</td>
<td>187,449</td>
<td>304,324</td>
<td>514,838</td>
<td>946,547</td>
<td>946,547</td>
<td>1,697,602</td>
</tr>
<tr>
<td>Torsional Capacity, ft/lb</td>
<td>2,483</td>
<td>13,113</td>
<td>8,274</td>
<td>19,939</td>
<td>29,010</td>
<td>29,010</td>
<td>85,781</td>
</tr>
<tr>
<td>Make Up Torque, ft/lb</td>
<td>2,333</td>
<td>2,948</td>
<td>2,695</td>
<td>6,267</td>
<td>25,444</td>
<td>25,444</td>
<td>87,925</td>
</tr>
</tbody>
</table>

* varies on number of pistons

## Gator Perforator (DPT)

<table>
<thead>
<tr>
<th>Tool Series</th>
<th>275 DPT</th>
<th>600 DPT</th>
<th>825 DPT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body OD, in.</td>
<td>2.75</td>
<td>6.0</td>
<td>8.25</td>
</tr>
<tr>
<td>Casing Size, in.</td>
<td>3.5 to 4.50</td>
<td>7.0 to 9.625</td>
<td>9.625 to 13.375</td>
</tr>
<tr>
<td>Blades Opening Range, in.</td>
<td>6.75</td>
<td>15.50</td>
<td>21.25</td>
</tr>
<tr>
<td>Body Connections, in.</td>
<td>Box Up x Pin Down</td>
<td>1.90 EUE</td>
<td>3⅞ EUE</td>
</tr>
<tr>
<td>Joint Strength, lbs</td>
<td>199,000</td>
<td>664,000</td>
<td>1,404,000</td>
</tr>
<tr>
<td>Overall Length, in.</td>
<td>40*</td>
<td>84.5*</td>
<td>114.4*</td>
</tr>
<tr>
<td>Weight, lbs</td>
<td>51*</td>
<td>426*</td>
<td>1152*</td>
</tr>
<tr>
<td>Tensile Yield Limit, lbf</td>
<td>122,000</td>
<td>708,000</td>
<td>16,868,000</td>
</tr>
<tr>
<td>Torsional Capacity, ft/lb</td>
<td>4500</td>
<td>48,500</td>
<td>56,000</td>
</tr>
<tr>
<td>Recommended Make Up Torque, ft/lb</td>
<td>1,900</td>
<td>6,600</td>
<td>33,000</td>
</tr>
</tbody>
</table>

* varies on number of pistons

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