• Guides casing past challenging deviations
• Strong, flexible and drillable

WWT FLX Specifications

<table>
<thead>
<tr>
<th>WWT FLX Model</th>
<th>450</th>
<th>500</th>
<th>550</th>
<th>700</th>
<th>758</th>
<th>958</th>
<th>1175</th>
<th>1358</th>
<th>1400</th>
<th>1600</th>
<th>1800</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tube Size</td>
<td>5.00</td>
<td>5.00</td>
<td>5.50</td>
<td>7.00</td>
<td>7.63</td>
<td>9.63</td>
<td>11.75</td>
<td>14.00</td>
<td>14.00</td>
<td>16.00</td>
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<tr>
<td>Length</td>
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<td>8.00</td>
<td>10.00</td>
<td>10.00</td>
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<td>12.00</td>
<td>12.00</td>
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<tr>
<td>Rated Compression (lbf)</td>
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<td>30,000</td>
<td>30,000</td>
<td>60,000</td>
<td>60,000</td>
<td>100,000</td>
<td>120,000</td>
<td>120,000</td>
<td>120,000</td>
<td>150,000</td>
<td>150,000</td>
</tr>
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</table>

Note: Other sizes available upon request. Maximum temperature 220°F to 300°F. Length may vary depending on configuration. Lengths listed do not include casing connection. Specifications subject to change.

Features and Benefits

• Guides casing past doglegs, ledges and soft formations.
• Strong composite body is 10 times more flexible than steel casing.
• Casing can be rotated with WWT FlexShoe installed.
• Casing is cemented through the tool and easily drilled out.
• Patent-pending design enables low-stress transition from rigid casing to flexible shoe.
• Compatible with floats and other casing running equipment, including premium connections.
• Main structural components have been tested to 1.5 times the rated compressive load.
• Ideal for deepwater operations, extended reach drilling and horizontal wells.
• Torque and drag modeling and technical support 24/7.

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WWT FlexShoe

- Why?
  - Side forces are concentrated on the lead of the end of the casing while RIH, which increases the risk of hang-ups, having to work pipe, or getting stuck.

- When?
  - Running casing through build, tangent, lateral, drop, higher dog-legs, side tracks, faults, soft formations, or ledges.
  - Deepwater wells with inclinations greater then 30 deg.
  - Previous history of tight spots, washing down, having to rotate, or not reaching planned depth.

- The WWT FlexShoe reduces the force required at the lead end of the casing/liner to traverse difficult zones to reach planned depth quickly and cost effectively.
WWT FlexShoe Configuration

- Various FlexShoe Nose Configurations:
  - Polyurethane nose – all wells under 230° F
  - Polyurethane reamer nose
  - Cement nose – wells up to 300+ ° F
  - Cement reamer nose