Coring companies have been operating with predominantly the same technology for over 40 years. Corpro identified this and seized the opportunity to develop a pioneering new coring system. This new innovative coring system, utilizing improved materials technology, has set and maintained benchmark standards for coring in the petroleum industry.

The Corpro coring concept has been specifically designed to enable the retrieval of longer, higher quality cores. The new system features four primary benefits:

- faster rates of penetration
- less incidence of core jamming
- increased reliability
- improved core quality

Corpro believes that correct stabilization is one of the most important factors governing a successful coring operation. Without the outer barrel properly stabilized, bending within the well bore is imminent. Corpro researched the positioning of its stabilizers and determined that optimal stabilization could be achieved using core barrels in 20 ft stabilized sections. For high angle and horizontal holes, a stabilizer can be placed midway in the lower section, giving three stabilizers within the bottom 20 ft.

Advanced Core Barrel Technology

OUTER BARREL
Fully stabilized barrel assembly to reduce buckling and improve core quality

GYRO HEAD
A dual, sealed bearing upper head to deter rotation of the inner barrel

HEAVY DUTY THREADS
Premium double shouldered connections provide industry leading mechanical and hydraulic specifications

THIN SLEEVE SYSTEM (TSS)
The basis of Corpro’s barrel system which incorporates an innovative three-barrel system compared to traditional inner/outer barrel systems. TSS eliminates thermal expansion issues, improves core quality through ease of handling, and provides a platform to enhance core analysis

CORE HEAD
Corpro offers a comprehensive range of core heads, exhibiting features that enhance core quality and drilling performance

LINER SYSTEM
The core is protected by standard, Half Moon or On Ice liners. Half Moon and On Ice liners minimize jamming occurrence and provide immediate access to the core for improved handling and analysis

LOWER BEARING
A trademark of Corpro. The lower bearing provides an additional measure to ensure the inner barrel does not rotate with the outer barrel, thus maintaining the quality of the core
### Core Barrel Range

<table>
<thead>
<tr>
<th>Size</th>
<th>(in)</th>
<th>4(\frac{3}{8}) x 2(\frac{3}{4})</th>
<th>5(\frac{1}{8}) x 3(\frac{1}{8})</th>
<th>7(\frac{1}{8}) x 4</th>
<th>8(\frac{3}{8}) x 5(\frac{1}{8})</th>
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<tbody>
<tr>
<td>Thread Type</td>
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<td>Corpro HD</td>
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<td>Corpro HD</td>
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<tr>
<td>Rec. Hole Size</td>
<td>(in)</td>
<td>5(\frac{3}{8}) - 6(\frac{1}{2})</td>
<td>6(\frac{1}{2}) - 8</td>
<td>8 - 9(\frac{1}{4})</td>
<td>9(\frac{1}{2}) - 11</td>
<td>11 - 12(\frac{1}{2})</td>
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<tr>
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<td>5(\frac{1}{4})</td>
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<tr>
<td>Top Connection</td>
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<td>4(\frac{1}{4}) FH</td>
<td>4(\frac{3}{4}) IF</td>
<td>6(\frac{1}{8}) REG</td>
<td>6(\frac{1}{4}) REG</td>
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<tr>
<td>Outer Tube</td>
<td>(in)</td>
<td>4(\frac{3}{8}) x 3(\frac{1}{8})</td>
<td>5(\frac{1}{8}) x 4(\frac{1}{8})</td>
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<td>8(\frac{3}{8}) x 7</td>
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<td>515000</td>
<td>860000</td>
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<tr>
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<td>9500</td>
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<td>35000</td>
<td>70000</td>
<td>75000</td>
<td>120000</td>
</tr>
</tbody>
</table>

### Benefits

- Transfer of power through core-barrel to core-head without losses due to buckling
- Higher torsion and tensile strengths than any alternative systems in the market place
- Stabilizers positioned at 20ft intervals improve hole gauge and concentricity
- Corpro Tandem and Extended Tandem Assemblies promote increased success in high angled wells