



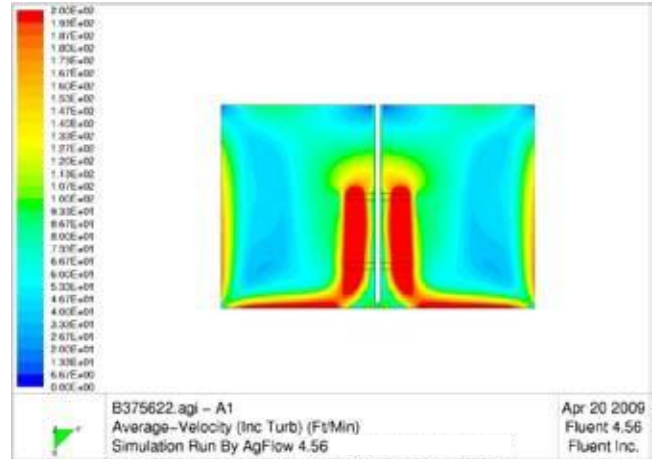
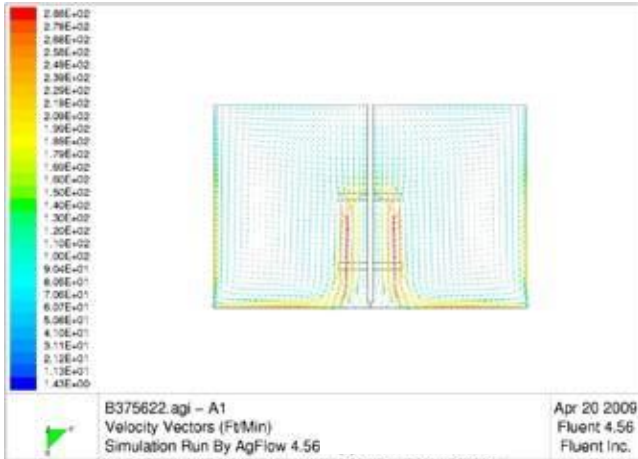
**SCM-AGITATOR  
HELH**

Scomi Equipment Inc offers a new comprehensive range of mud agitators for oilfield applications. These high efficiency, low horsepower (HELH) Scomi Equipment Inc agitators are specifically designed and engineered for mixing oilfield viscous fluids for deep tank applications in excess of 30 feet utilizing a single agitator.

Standard oilfield agitator in the market is a commercial gear box used in many applications, which includes oilfield horizontal and vertical agitators. However, the Scomi Equipment Inc agitator is a mixer gear box designed to handle long overhung shaft loads.

Comparison between a commercial oilfield gear box agitator and Scomi Equipment Inc Agitator HELH mixer gear box agitator:

Description	Commercial Oilfield Gear Box Agitator	Scomi Equipment Inc HELH Mixer Gear Box Agitator
<b>Total Units</b>	56	20
<b>Total HP</b>	450	220
<b>Total kW</b>	336	164
<b>Total Wt. (lbs)</b>	50,896	32,014
<b>Benefits</b>	<ul style="list-style-type: none"> <li>• High HP and running costs</li> <li>• More agitators required to do the same task</li> <li>• High overall weight</li> <li>• Utilizes standard reduction drive not designed for agitation / mixer</li> <li>• Increased amount of shaft movement reducing efficiency and increasing maintenance costs through bearing failure, gear wear, seal leaks and reduced gearbox life</li> <li>• Increased installation costs due to increase in number of agitators</li> </ul>	<ul style="list-style-type: none"> <li>• Lower HP requirement and running costs</li> <li>• High efficiency impeller design</li> <li>• Smaller footprint and reduced weight</li> <li>• Gear box specifically engineered for agitators</li> <li>• Internal weir / dam to eliminate risk of leaks into mud pits, if seal breaks</li> <li>• Structure of agitator engineered to reduce shaft movement, therefore improving efficiency, reducing maintenance costs and increasing gear box life</li> <li>• Lower installation costs due to less number of agitators</li> <li>• Less electrical cable</li> <li>• Reduced number of starters required</li> <li>• Reduced number of electrical panels required</li> <li>• Reduced space in MCC</li> </ul>

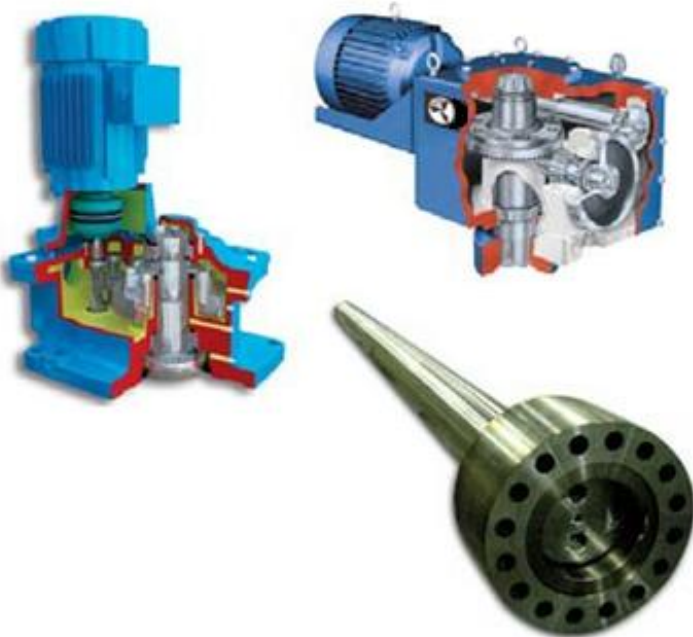


**SHAFT DESIGN**

Shafting is straightened to tight tolerances for long seal life and smooth operation – less than 0.003 inches total run out per foot of shaft length (0.25 mm per meter).

**TYPES OF SHAFTS**

Shafting is supplied in a single piece design or in rigidly coupled sections for easy installation.



**IMPELLER TECHNOLOGY**

Impeller designs are the result of over five decades of research and applied application experience. The HE-3 impeller typically used in oilfield applications is fabricated from heavier material than normally used by other manufacturers; features an axial flow impeller; extremely efficient design for greater fluid motion at reduced energy consumption; and an ideal design for increased solids suspension.



**Typical Oilfield Impeller**



**HE-3 Impeller**