

# Rotomud 1000 series agitators

Product code: CJ01

## Features and Benefits:

### State-of-the-art impeller design

for best possible energy transmission and efficiency

### Advanced CFD analysis

for optimal agitator sizing and tank design

### SEW drive unit and gear box

field proven technology with extensive offshore track record

**STEP Offshore's RotoMud series agitators are designed to achieve the best possible mud tank agitation, with minimal energy consumption and maximum reliability.**

Agitators are a key component in all drilling equipment installations. Keeping the drilling mud constantly agitated prevents settling of solids, and is a very important factor in order to maintain proper mud parameters in the drilling process.

By optimizing the agitator design, through the use of advanced Computational Fluid Dynamics (CFD) simulations during the impeller design, STEP Offshore has achieved significant efficiency improvements compared to existing solutions in the market place. The advanced design process can also be utilized to size and position agitators, not by rule of thumb, but by actually simulating the agitation in the tank design.

The efficient design is achieved by selecting the best combinations for impeller pitch, twist, width and diameter, with a contour shape that minimizes turbulence. The impeller accelerates the fluid evenly over the entire blade, optimizing energy transmission and efficiency.

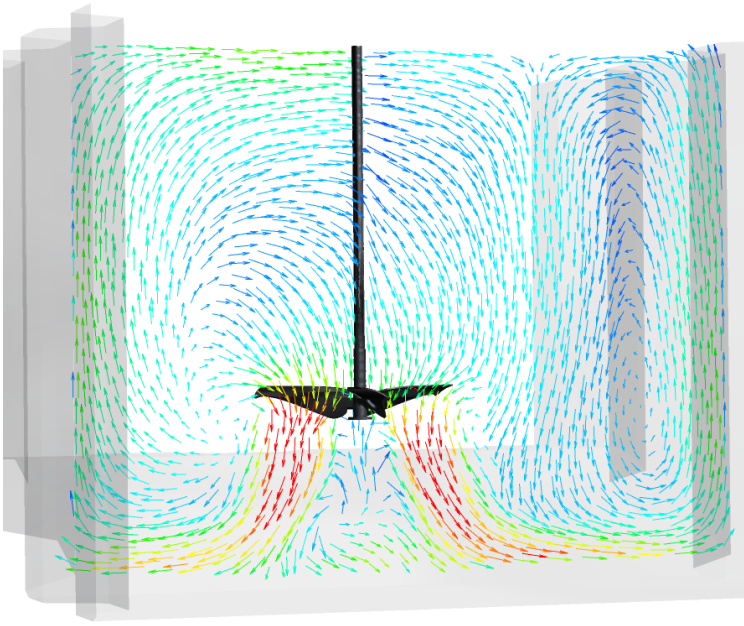
The gear boxes and motors utilized in the RotoMud series agitators are extensively field proven in the onshore and offshore industry. They can be supplied in a variety of voltages, with the required certifications and several options, such as heaters and bottom stabilizers.

For a typical deep water drilling vessel, the annual savings from the reduced power consumption can typically reach USD 100 000. And the rig weight can be reduced by around 3 000 lbs / 1 500 kg.

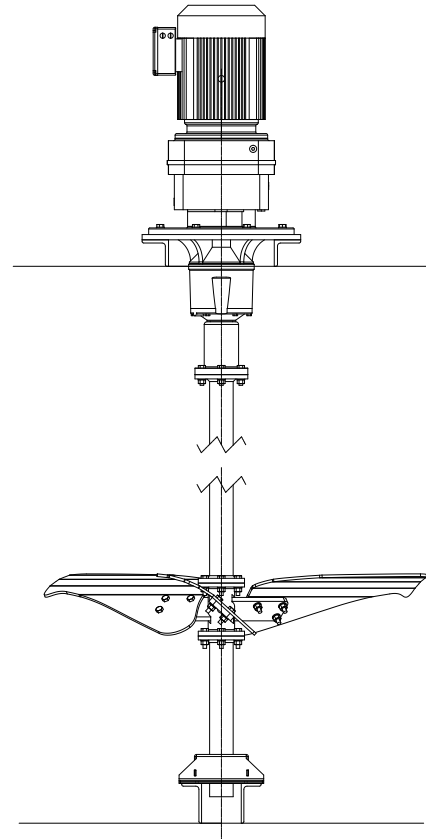
The improved energy efficiency, combined with market leading reliability and HSE focus, makes the RotoMud series agitators the best choice for all mud agitation applications.



## Technical Specifications



Sample graph showing terminal velocity calculated using state-of-the-art CFD calculations.



Design data (standard unit)				
Capacity	3,5-37 [4.7-50]	kW [hp]	Area classification	Zone 2
Unit weight	TBA		Impeller dia.	800-2000 [31-79] mm [In]
Design temp.	-10/+50 [14/122]	°C [°F]		
Utility requirements:				
Agitator motor	3,5-37 [4.7-50]	kW [hp]		
Options:				
Increased shaft length		Dual impellers		
Advanced CFD analysis		Bottom stabilizer		
Hazardous area zone 1 certification				
Documentation:				
Description	Reference	Included	Note	
User Manual	Based on NS 5820	Yes	Two (2) Sets	
MRB	NS 5820	Yes	Retained Document	
Certificates / Statements	NS 5820	Yes	As applicable	
Notes:				
STEP Offshore can supply installation supervision, commissioning and training on a separate contract.				
Documents/ Drawings issued to customer are delivered as STEP Offshore standard and will not be subject for comments.				
Contents of this product flyer can be changed without prior notice.				
Drawings and technical data should not be used for construction purposes.				
Please contact your local STEP Offshore office for further information or to receive a quotation.				

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