



FOCUS ON EMERGING TECHNOLOGY

HIGH EFFICIENCY SIDE AGITATOR

Technology Description

Side entry agitators are commonly used in the paper industry in stock blending and mixing tanks. Most of them employ “marine” type impellers. These are basically boat propellers, with the pitch and diameter selected for the specific application.

High efficiency units are custom-built based on the material being mixed and the size and geometry of the tank. This maximizes mixing while minimizing required motor power compared to all-purpose impeller designs. To install, only the impeller blades and hub are replaced, and the shaft, gearbox, and motor are typically reused.

The motors on typical stock tank agitators range from 10 – 200 Horsepower.

Benefits

1. Improved efficiency of the mixing process.
2. Simple equipment replacement and less downtimes as only the impeller blades and hub need to be replaced.

Customer Type

Paper manufacturing.

Applications

Stock blending and mixing tanks with motors ranging from 10 – 200 Horsepower.

Market Sectors

Industrial.

Potential Energy Savings

Approximately 20% electrical savings.

Potential Payback Range

Two to three years pre-incentive.

Incentives Available

Download and complete the [Custom Project Incentive Guide](#) [PDF]. [Find an Energy Advisor](#) to get started.