

Metso:Outotec

# OKTOP Agitator Unit Upgrade

## Benefits

- Increased productivity
- Improved process control
- Reduced maintenance
- Decreased invested capital costs
- Extended equipment lifetime
- Improved safety
- Improved end product quality

Services | Modernizations | Hydrometallurgy



Metso Outotec has decades of experience supplying mixed tanks, such as reactors for hydrometallurgical applications and conditioners for flotation. At the heart of all mixed tanks is the agitator, which provides critical functions, such as solid suspension and gas dispersion. The Metso Outotec OKTOP Agitator Unit Upgrade is designed to solve problems caused by inefficient agitating.

Inefficient agitating can cause significant production losses and unplanned stoppages while causing excessive energy consumption and maintenance problems. Sanding inside the tank is just one example of a problem that can cause considerable financial losses.

To solve these problems, Metso Outotec investigates if the existing equipment on site can be upgraded to the latest Metso Outotec OKTOP reactor technology and an Metso Outotec OKTOP Agitator Unit.



Efficient agitation with Metso Outotec OKTOP technology

**Standardized approach**

Metso Outotec’s professionals carry out both the pre-study and the research work to find the optimal solution for the customer’s challenge. In some cases, testing is done at the Metso Outotec Research Center in order to find the best solution and the optimized Metso Outotec OKTOP Agitator product. Our Computational Fluid Dynamics (CFD) studies offer a fast and reliable method of proving the Metso Outotec OKTOP Agitator design and the most difficult cases can be tested with physical experiments. The material selection together with Finite Element Method (FEM) analysis can be carried out by Metso Outotec engineers to ensure that existing structures can be used with OKTOP solutions.

Metso Outotec standardized approach guarantees a fast response and easy delivery with minimum downtime.

**Benefits of Metso Outotec OKTOP Reactor technology**

The Metso Outotec OKTOP Agitator Unit Upgrade increases productivity significantly by ensuring continuous production and minimized maintenance thanks to its durable construction. The proven design of the Metso Outotec OKTOP Agitator Unit ensures high mixing performance and good life cycle value. Studies show that upgrading the existing reactor with the Metso Outotec OKTOP Agitator Unit requires a 50% smaller investment compared to buying a new reactor, depending on the scope. Only the parts necessary for achieving the required operational level are upgraded with Metso Outotec reactor technology. This approach decreases the required capital costs and extends the lifetime of the existing equipment.

**Scope of delivery**

The standard scope of delivery consists of the Metso Outotec OKTOP Agitator unit including agitator, gear and motor. Depending on the existing equipment and customer needs, the delivery can also include agitator support structures and selected options. Each delivery is designed to meet the customer's specific needs.

In addition to the pre-study, the Metso Outotec OKTOP Agitator Unit Upgrade can also include on site services such as start-up, commissioning and supervisory services. Metso Outotec has an extensive service offering, including maintenance inspections, to ensure the maximum availability of the existing equipment