



SOLUTION PARTNER FOR MIXING APPLICATIONS



CONE-MIX

GENERAL AGITATOR BROCHURE

- FGD POWER PLANT PLANTS
- MINING PLANTS
- AUTOCLAVED AERATED CONCRETE PLANTS
- RAW MATERIAL PLANTS
- PAPER PULP PLANTS
- WASTE WATER PLANTS
- PETRO CHEMICAL PLANTS

IMPELLER TYPES

Pitch Blade Turbine
Narrow Blade Hydrofoils
Wide Blade Hydrofoils
Rushton Turbine
Propellers
Special Impellers

**Your Partner
for Mixing Solutions**

↓ READ MORE ↓

Contact us for further information

Istanbul-TURKIYE



E-mail : info@centercone.com
E-mail : sales-mx@centercone.com
<http://centercone.com/cone-mix>



Sales Office : +90-216-583-09-31
Sales Mobile - 1 : +90-535-566-48-00
Sales Mobile - 2 : +90-544-762-48-09



Impeller types :

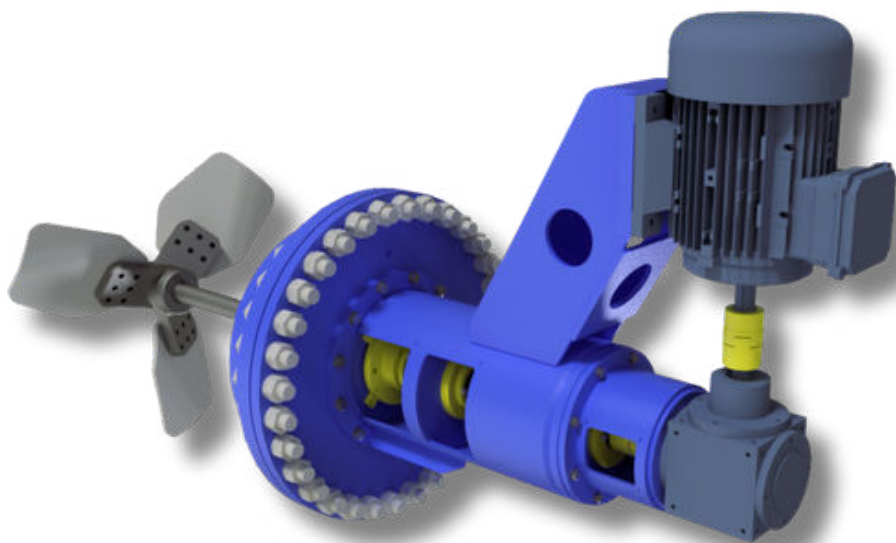
- Paddle
- Pitched Blade
- Hydrofoil

Slurry types :

Low viscosity
Medium viscosity
High Viscosity

Applications :

Gas Hold up
Dispersion
Suspension



Absorbers : Side Entry Agitator

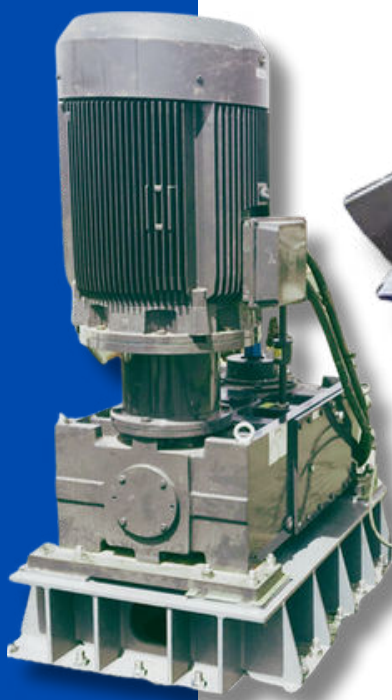


Storage Tank Agitators

FGD AGITATORS :

- Absorber Agitators (Side Entry)
- External Tank Agitators
- Gypsum Slurry Tank Agitators
- Lime Slurry Tank Agitators
- Emergency Tank Agitators
- Storage Tank Agitators
- Pit Sump Agitators

Our comprehensive mixing solutions for FGD systems, offer the perfect blend of quality, reliability, and affordability, tailored to meet your project's unique requirements.



External Tank Agitator

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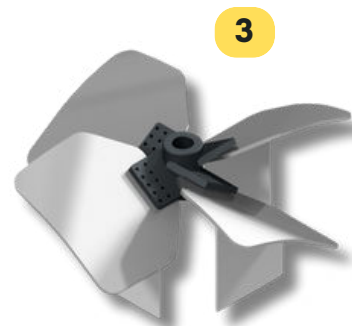
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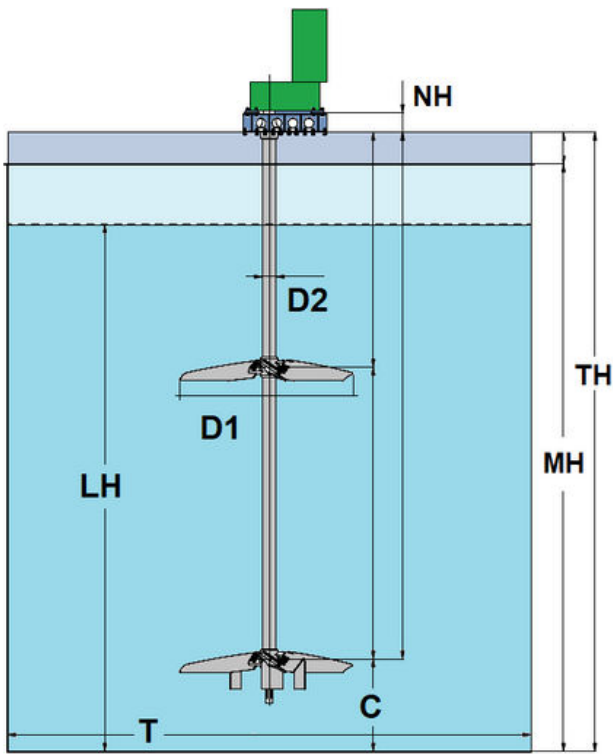
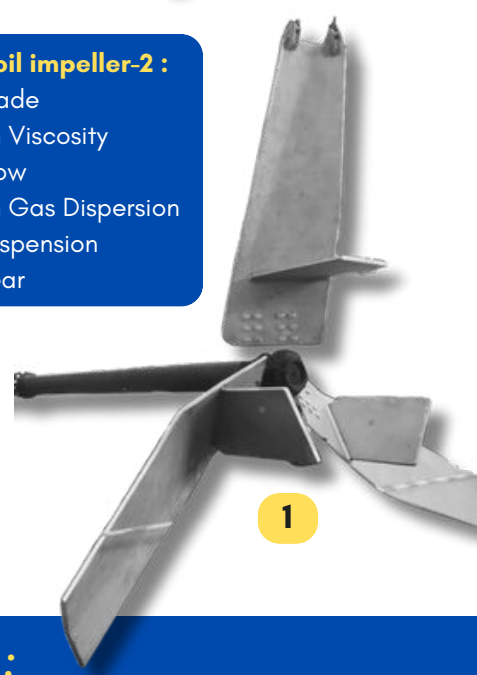
Pitch Blade Impeller :
 Medium to High Viscosity
 Radial - Axial Flow
 Solid Suspension
 Liquid-Liquid Dispersion
 General Blending
 Medium Shear

Hydrofoil impeller-1 :
 Narrow Blade
 Low viscosity
 Axial Flow
 Low Gas Dispersion
 Solid suspension
 Low shear

Hydrofoil impeller-2 :
 Wide Blade
 Medium Viscosity
 Axial Flow
 Medium Gas Dispersion
 Solid suspension
 Low shear

Hydrofoil impeller-3 :
 Wide Blade
 Medium to High Viscosity
 Axial Flow
 Solid Suspension
 High Gas Dispersion
 Mass Transfer
 Low Shear

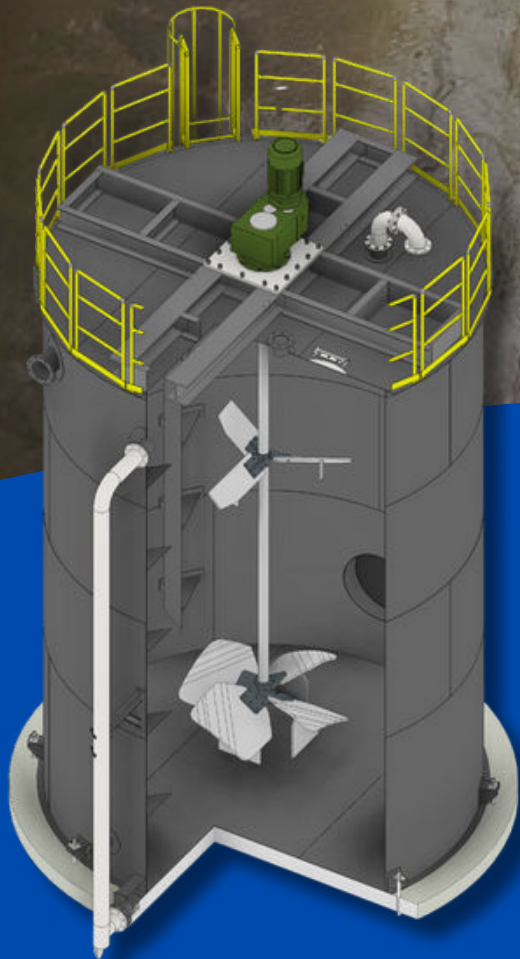
Hydrofoil impeller-4 :
 Low Liscosity
 Axial Flow
 Solid Suspension
 Medium Gas Dispersion
 Low Shear



► **Design Feature :**

IMPELLER TYPES :

The hydrofoil impeller is specifically designed for the requirements of flue gas desulfurization process. There are 3 types of impellers used in FGD plants which are narrow and wide blade hydrofoil impellers and Pitch blade impellers. Low viscosity and Pitch blade impellers are mostly used inside storage tanks and pit area sumps. The optimum impeller design removes the formation of eddy currents on the trailing surface of the impeller blade. This design reduces erosion and increases impeller life. The impeller generates a strong, pumping across the swept diameter that ensures proper gas dispersion, oxidation and solid suspension. Hydrofoil impellers have various types for slurries which have different viscosity. From low to high viscosity applications the blade area and shear increases.



LEACH TANK AGITATORS

For mining industry CIP-CIL leach tanks, detox tanks, several type of oxidation tanks, flocculant and coagulant preparation tanks agitators are available. Whether the process is solid suspension, belinding, gas dispersion, or mass transfer the unique impeller design handles the task. We also offer replacement of any low performance agitators with supplying complete new product or replacing the drive unit or impellers.

Mining Plant Mixers :

- CIP-CIL Leach Tank Agitators
- Detox Tank Agitators
- Bioleach Tank Agitators

- Oxidation Tank Agitators
- Conditioner Tank Agitators
- Storage Tank Agitators
- Pit Agitators (Area Sump)

Contact us for further information

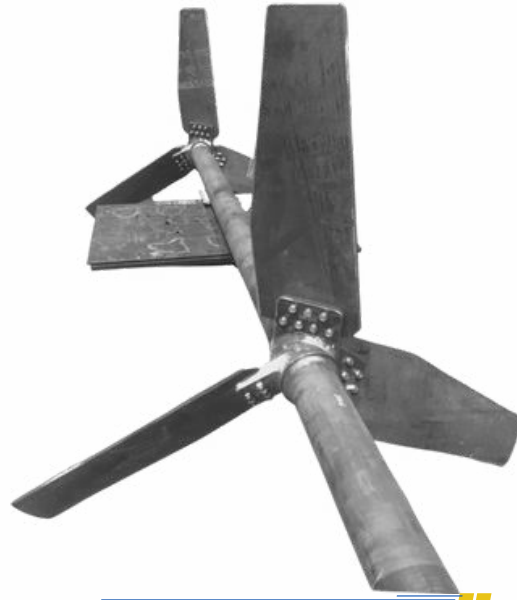
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Drive Unit



Pit Agitator



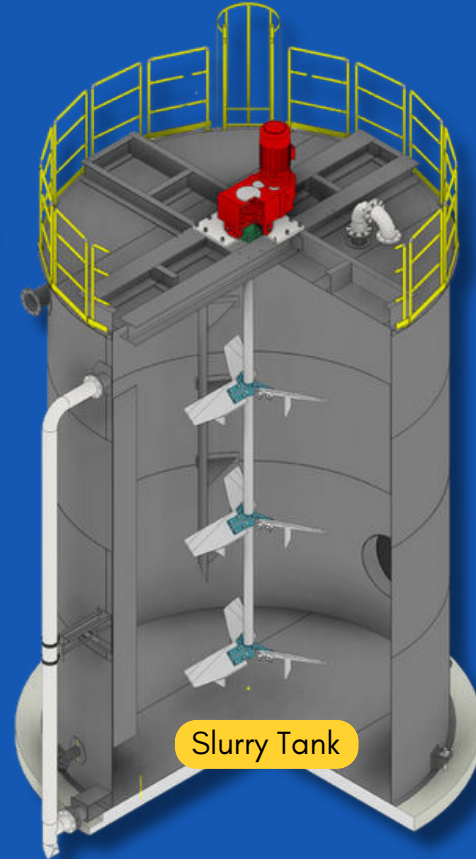
Drive Unit

AAC SAND SLURRY AGITATORS

For Aerated Air Concrete industry we supply sand slurry agitators. After grinding process the sand slurry which the particle size is around 90 microns and have 65% to 75% solid ratio by weight with a temperature around 40 to 70 degrees. These mixers keep the sand slurry homogeneously agitated even under high densities and max solid to water ratio.

AAC Plant Mixers

- Sand Slurry Tank Agitator
- Area Sump Pit Agitator
- Recycled Slurry Pit Agitator



Slurry Tank

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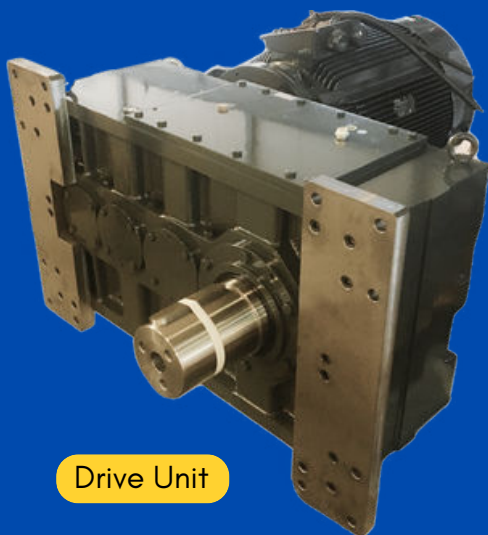
Your Partner
for Mixing Solutions

STORAGE TANK AGITATORS

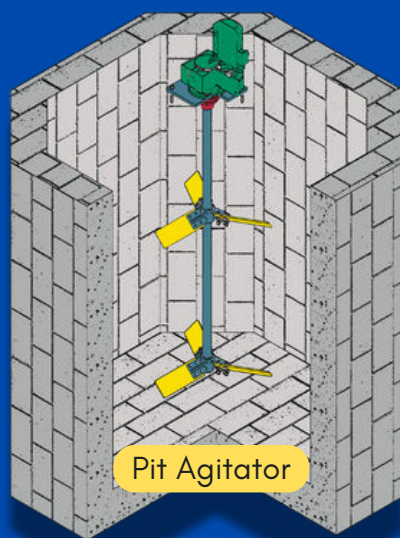
For FGD process storage tank agitator types are mostly gypsum, limestone slurry storage and cyclone feed tanks.
For mining industry CIP-CIL leach tanks, detox tanks, oxidation tanks, flocculant and coagulant preparation tanks agitators are available.

Industries We Serve :

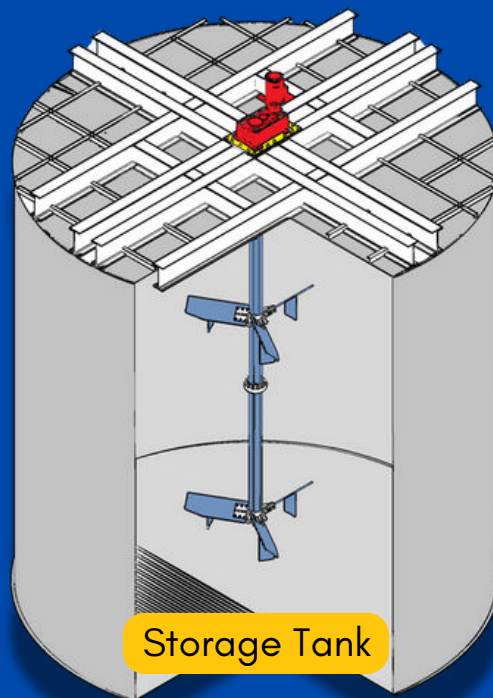
- Mining Industry
- Raw material industry
 - FGD Power Plants
 - Waste water Plants
 - Paper Pulp Plants
- Petrochemical Industry



Drive Unit



Pit Agitator



Storage Tank

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MIXING DUTY :		Solid-Liquid Suspension		Liquid-Liquid Dispersion		Gas-Liquid Dispersion
		Blending and Homogeneity		Heat Transfer		Mixing Solids
MIXER POSITION :		Top Entry		Side Entry		Bottom Entry
TANK PROPERTIES :		Cylindrical		Rectangular		
		Overflow Disch.		Disch. By pump		
		Open Top		Closed Top		
		Flat Bottom		Concave Bottom		
		Batch Type		Continuous Flow		
TANK DIMENSIONS :			AGITATOR :			
Tank Diameter :	mm		MOTOR INFORMATION :			
Tank Height :	mm		Voltage - Frequency :	V-Hz		
Nozzle Length :	mm		Power :	kW		
Baffle quantity :	pcs		Speed :	rpm		
Operation Liquid Level :	mm		Motor Starter :	-		
Operation Max. Liquid Level :	mm		Mounting Position :	-		
Operation Min. Liquid Level :	mm		Protection Class :	IP		
SLURRY PROPERTIES :			Space Heater :	-		
Slurry Density :	kg/m3		Cable Gland :	-		
Viscosity :	cP		GEARBOX INFORMATION :			
Solids by weight :	%		Output Speed :	rpm		
Particle Size :	microns		Ratio :	-		
pH Value :	-		Manufacturer :	-		
Chemicals if there is any :	-		Oil Cooling System :	-		
PROCESS DATA :			Oil Breather :	-		
Operating Pressure :	bar		MOUNTING PLATE / MOUNTING FRAME :			
Operating Temp. Min - Max :	°C		Dimensions :			
Ambient Temp. Min - Max :	°C		Material :			
TANK DIMENSIONS :			SHAFT :			
Center Opening at top :	mm		Diameter :			
Manhole size at top and wall :	mm		Length :			
MIXING INTENSITY :			Qty of Shaft Segments :			
Little surface motion, no splash Most storage applications	1	Mild Blending	Material and Coating :			
	2		Seal information			
Occasional wave, little splash Off bottom suspension	3	Medium Intensity Mixing	IMPELLER :			
	4		Impeller Type :			
	5		Diameter :			
Some splash with boiling action Occasional Vortex	6	High Intensity Mixing	Impeller row qty :			
	7		Impellers qty for 1 row :			
	8		Material and coating :			
Splashing and Large Wave Erratic Vortexing	9	Violent Agitation	Impeller Balancing :			
	10		Min. Manhole Diameter :			