



CONE-MIX

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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**

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Istanbul-TURKIYE



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### Impeller types :

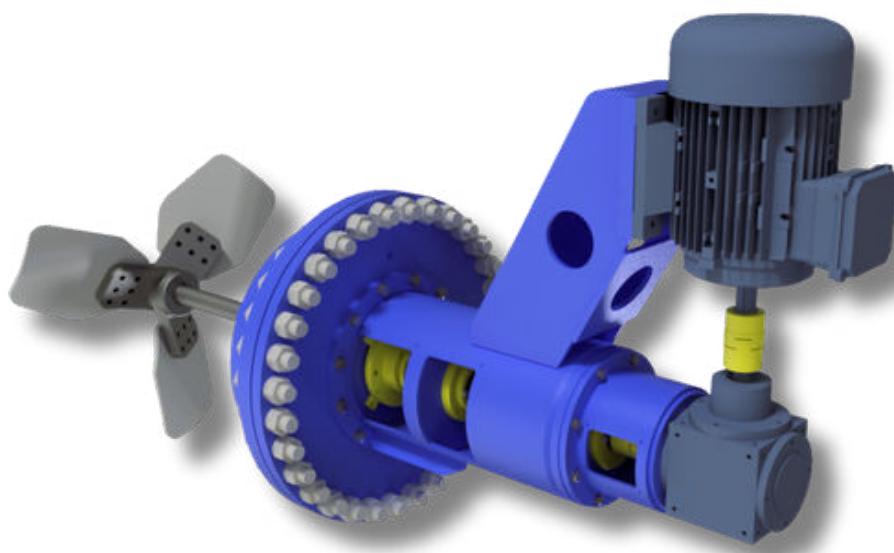
- Paddle
- Pitched Blade
- Hydrofoil

### Slurry types :

- Low viscosity
- Medium viscosity
- High Viscosity

### Applications :

- Gas Hold up
- Dispersion
- Suspension



Absorbers : Side Entry Agitator

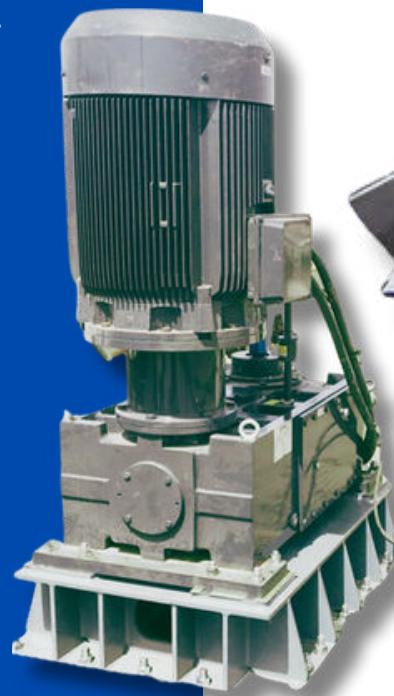


Storage Tank Agitators

## 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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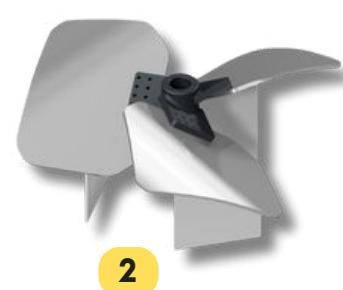
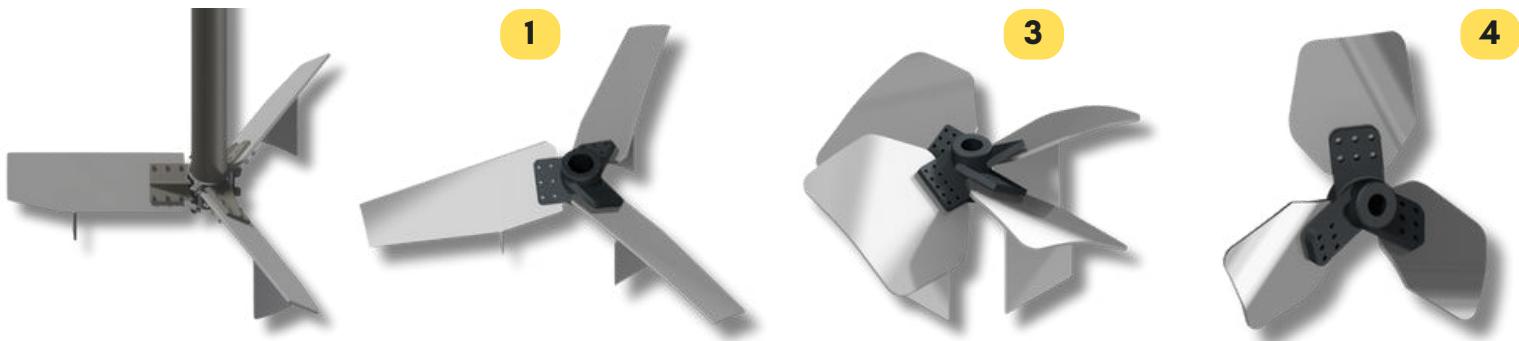
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#### Pitch Blade Impeller :

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

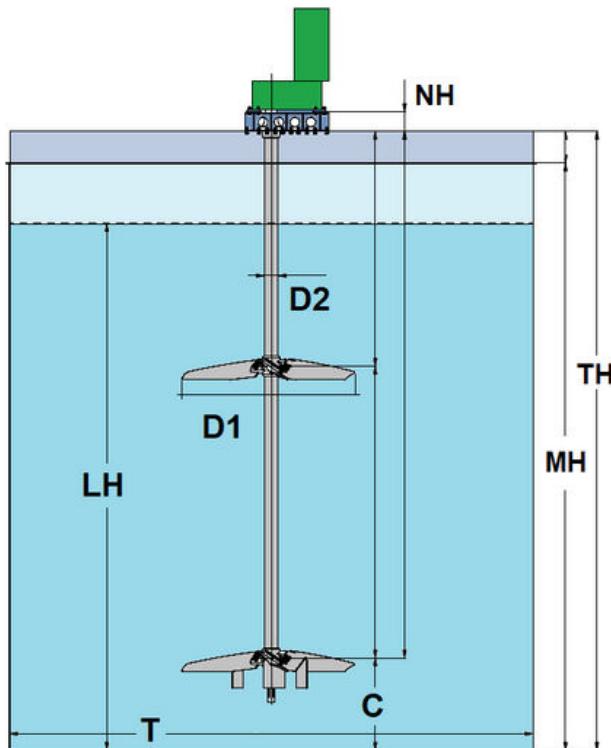
#### Hydrofoil impeller-3 :

Wide Blade  
Medium to High Viscosity  
Axial Flow  
Solid Suspension  
High Gas Dispersion  
Mass Transfer  
Low Shear

#### Hydrofoil impeller-4 :

Low Viscosity  
Axial Flow  
Solid Suspension  
Medium Gas Dispersion  
Dispersion  
Low Shear

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### ► 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.

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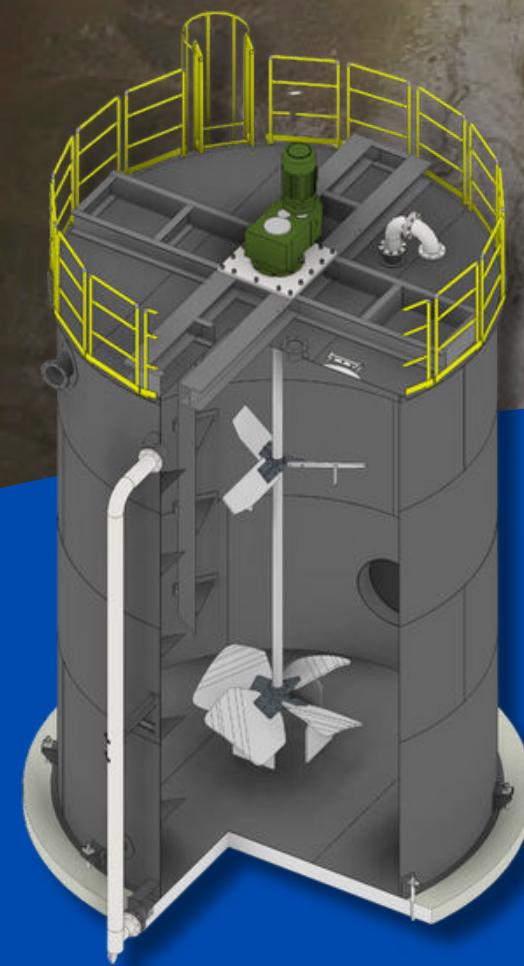
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## LEACH TANK AGITATORS

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, blending, 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)

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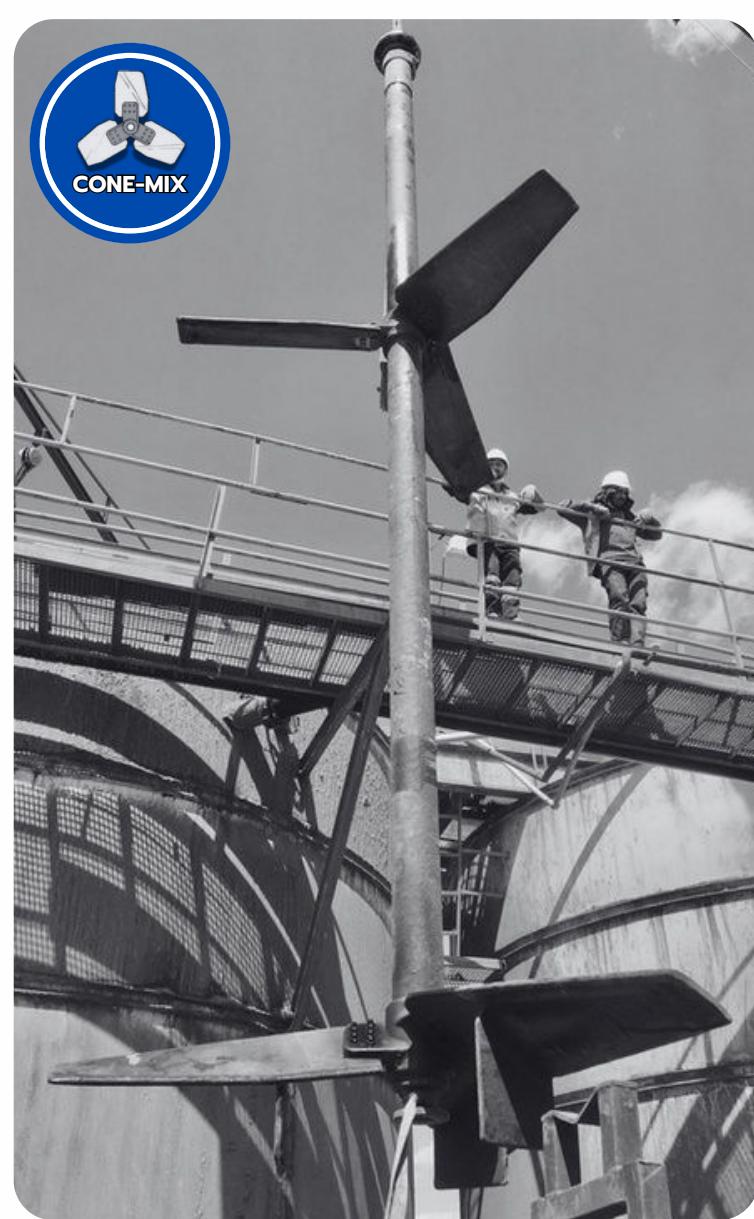
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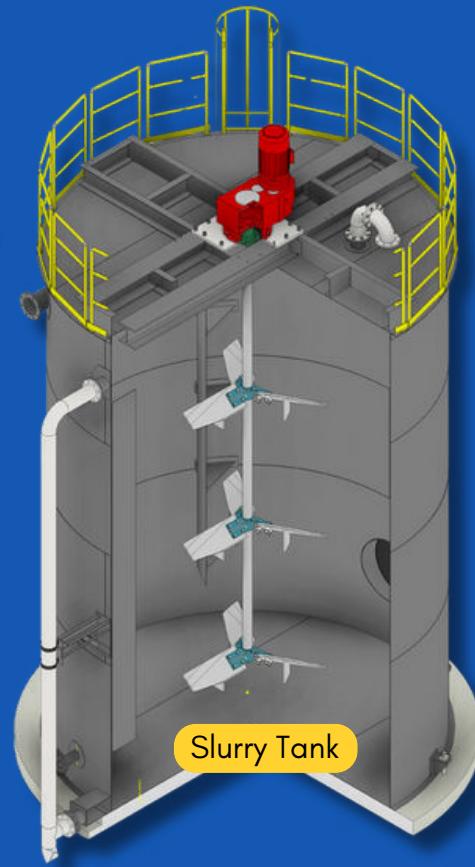
## AAC SAND SLURRY AGITATORS

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



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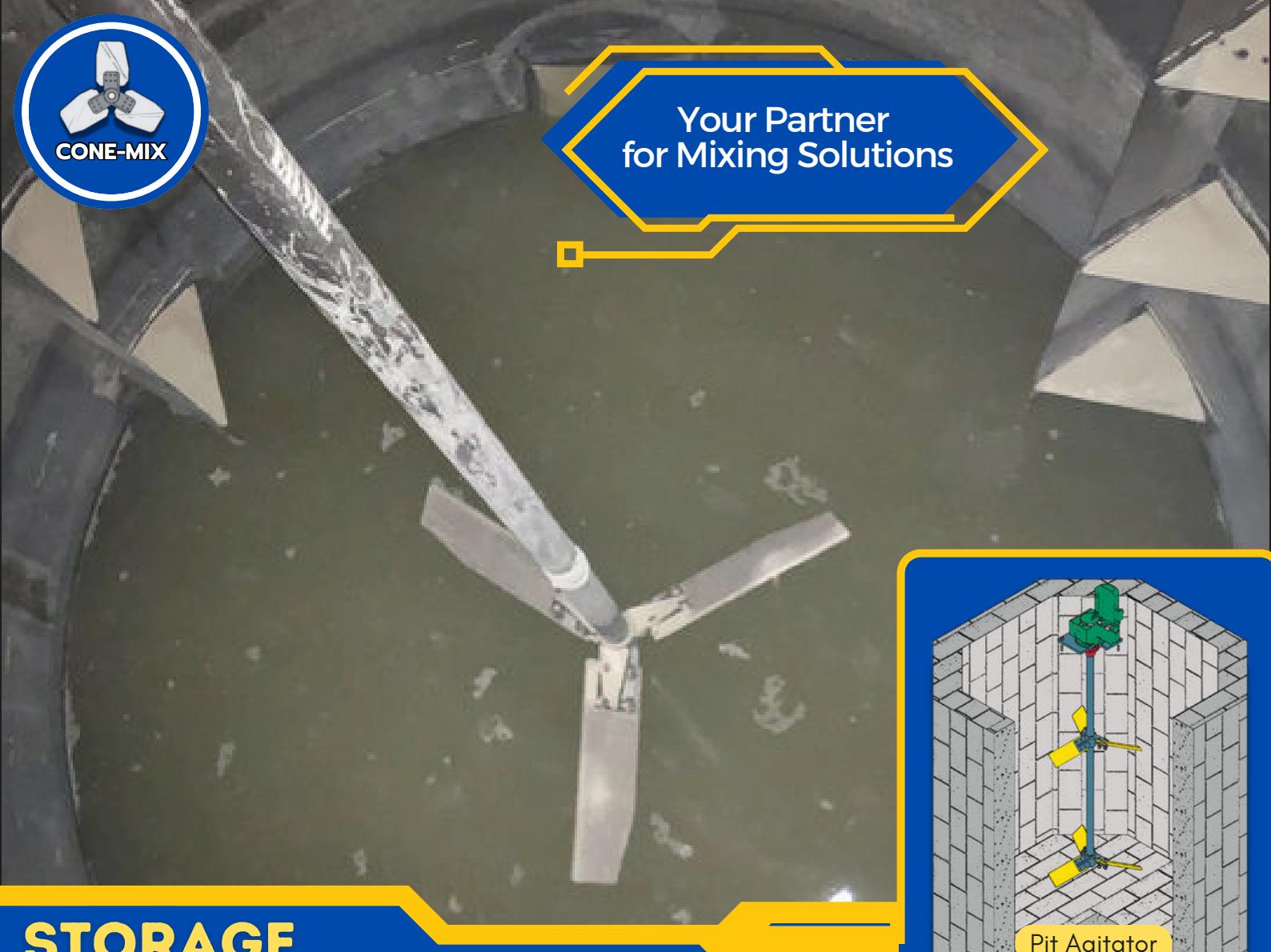
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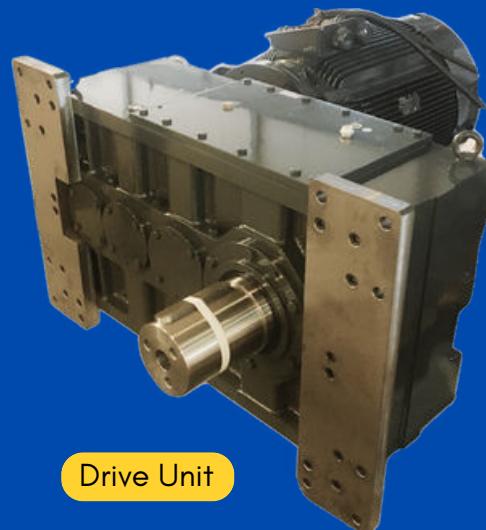
## STORAGE TANK AGITATORS

For FGD process storage tank agitator types are mostly gypsum, limestone slurry storage and cyclone feed tanks.

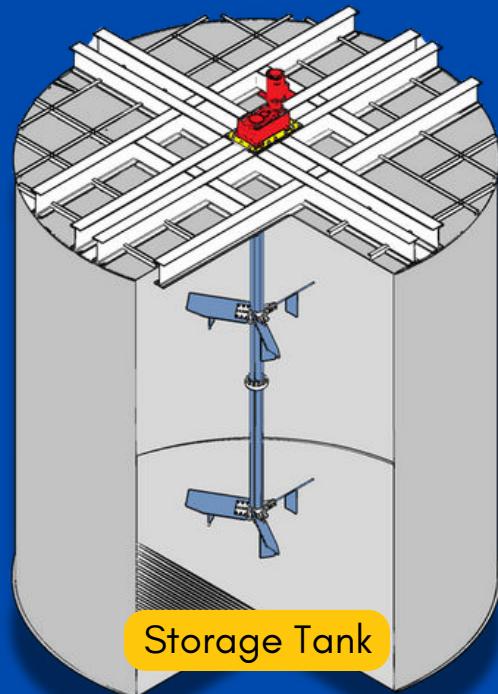
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### Industries We Serve :

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



Drive Unit



Storage Tank

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<b>MIXING DUTY :</b>	Solid-Liquid Suspension	Liquid-Liquid Dispersion	Gas-Liquid Dispersion	
	Blending and Homogeneity	Heat Transfer	Mixing Solids	
<b>MIXER POSITION :</b>	Top Entry	Side Entry	Bottom Entry	
<b>TANK PROPERTIES :</b>	Cylindrical	Rectangular		
	Overflow Disch.	Disch. By pump		
	Open Top	Closed Top		
	Flat Bottom	Concave Bottom		
	Batch Type	Continous Flow		
<b>TANK DIMENSIONS :</b>		<b>AGITATOR :</b>		
Tank Diameter :	mm	<b>MOTOR INFORMATION :</b>		
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	
<b>SLURRY PROPERTIES :</b>		Space Heater :	-	
Slurry Density :	kg/m3	Cable Gland :	-	
Viscosity :	cP	<b>GEARBOX INFORMATION :</b>		
Solids by weight :	%	Output Speed :	rpm	
Particle Size :	microns	Ratio :	-	
pH Value :	-	Manufacturer :	-	
Chemicals if there is any :	-	Oil Cooling System :	-	
<b>PROCESS DATA :</b>		Oil Breather :	-	
Operating Pressure :	bar	<b>MOUNTING PLATE / MOUNTING FRAME :</b>		
Operating Temp. Min - Max :	°C	Dimensions :		
Ambient Temp. Min - Max :	°C	Material :		
<b>TANK DIMENSIONS :</b>		<b>SHAFT :</b>		
Center Opening at top :	mm	Diameter :		
Manhole size at top and wall :	mm	Length :		
<b>MIXING INTENSITY :</b>		<b>Qty of Shaft Segments :</b>		
Little surface motion, no splash	1	Mild Blending	Material and Coating :	
Most storage applications	2		Seal information	
Occasional wave, little splash Off bottom suspension	3	Medium Intensity Mixing	<b>IMPELLER :</b>	
	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 :	

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