

# Mixers & Agitators

In line with our focus to provide most sustainable solutions for process and effluent applications, KISHOR *XERON* series of mixers and agitators are specially designed for efficient and reliable performance. The mixers and agitators are fitted with IP68 electric submersible motor, with option for Variable Frequency Drive (VFD) compatible design.

### User Industries :

- Environmental & Wastewater Treatment
- Bio-gas plants
- Paint shops
- Chemical plants
- Iron & steel plants
- Paper & pulp plants

#### **Applications :**

- Sewage treatment plants
- \* Activated sludge treatment
- \* Bio-reactor

Installations :

- \* Grit chamber mixing
- Paper pulp chests

#### Designed for :

- Turbulent flow mixing
- Flash mixing
- Circulating
- Liquids with high solid contents
- Loosening of sedimentary deposits
- Homogenization of sludge

# Versions :

- ★ KISHOR XERON D is a direct drive version, normally used for small ponds or tanks with difficult, complicated geometry. Due to small propeller diameter, it can also be mounted in a shallow tank. It is ideal for turbulent, strong mixing as well as for loosening sediments.
- ★ KISHOR XERON G is a geared drive version for reduced speed, normally used for large ponds or tanks. It is effective in gentle mixing and circulation of waste water in ponds, tanks, channels, oxidation ditches, especially the longer ones.

The **D** version can be installed on a *Flexibase* (SF) or with *Rotocoupling* (SR). The **G** version can be installed with *Pentocoupling* (SP) only.

The <b>G</b> version can be installed with <b>Periocoupling (SP)</b> only.																
XERON D		Motor rating			Dia	Thrust	mist.		XERON G		Motor rating		Dia	Thrust	Inst. Options	
		hp	rpm	poles	mm	N	Options		712710		hp	rpm	mm	N	Options	
XERON D	022B	0BL	0.5	960	6	220	138	SF / SR	,	XERON G	110B 03M	3	52	1100	1100	SP
XERON D	022B	0CM	0.7	1400	4	220	145	SF / SR							4500	
XERON D	026C	0DU	1	740	8	260	163	SF / SR	,	XERON G	110B 04M	4	63	1100	1500	SP
XERON D	026C	02L	2	960	6	260	290	SF / SR		XERON G	110B 05M	5	85	1100	2600	SP
XERON D	032C	03U	3	740	8	320	582	SR		XERON G	140B 04M	4	43	1400	1740	SP
XERON D	032C	05L	5	960	6	320	609	SR			1100 01111		10			51
XERON D	040C	02U	2	740	8	400	600	SR	<b>&gt;</b>	XERON G	140B 05M	5	52	1400	2950	SP
XERON D	040C	03U	3	740	8	400	800	SR	)	XERON G	180B 04M	4	34	1800	2320	SP
XERON D	040C	04U	4	740	8	400	920	SR								
XERON D	040C	05L	5	960	6	400	1200	SR	)	XERON G	180B 05M	5	43	1800	3200	SP
XERON D	062C	05W	5	480	12	620	1400	SR	,	XERON G	250B 04M	4	34	2500	2500	SP
XERON D	062C	07W	7.5	480	12	620	1800	SR		XERON G	250B 05M	5	43	2500	3080	SP
XERON D	062C	10W	10	480	12	620	2600	SR	/	AERON G	2006 00101	5	43	2500	3080	38
XERON D	062C	15W	15	480	12	620	3300	SR	)	XERON G	250B 10M	10	52	2500	3940	SP

- Wastewater treatment & Zero Liquid Discharge (ZLD) plants
  - \* Equalizing reservoir
  - \* Chlorination basins
- Agriculture & water supply.



# Standard Performance Data :

- Temperature : max. 40 °C
- Viscosity of the liquid : max 20 cSt
- Sp. Gravity : upto 1.15
- Max solid content in the liquid 10% by weight
- Electric supply : 415 V, 50 Hz, 3 phase.
- Motor : 'F' class insulation, IP 68 protection, designed for continuous operation
- Cable : 10 m
- VFD compatible design (Optional)

### **Standard Materials :**

- Dome : Stainless steel (Only for XERON D)
- Impeller: Stainless steel (Only for XERON G)
- Shaft : SS 410 / SS 420
- \* other materials available on request for the above

## Unique Product Benefits :

- Swept back blades
- Optimum mixing & highly efficient
- Submersible installation
- Less overhang shaft design
- Cost effective installation and maintenance
- Quick removal and installation in the tank
- Installation flexibility
- Three degrees of freedom (SR Installation)
- No dead pocket formation in the tank
- Low capital cost

## Standard Design Features :

- Laser cut, smooth and accurate vanes
- Dome for high mixing efficiency for XERON D version
- Designed upto 20 m tank depth for XERON D version
- Watertight cable entry
- Specially designed anti-wrinkling cable gland
- Two independent, bi-directional mechanical seals
- Heavy duty bearings, grease sealed for life
- Space saving compact installations with options for mounting
- Safe & stable lifting system options
- Inbuilt thermistors & seal leakage sensors (above 2 hp)
- Enhanced fiber reinforced polyurethane blades for XERON G version
- Robust helical gearbox for XERON G version
- : Self-cleaning, ideal for liquid with fibrous material
- : Power saving, higher thrust at low horsepower
- : Silent operation
- : No shaft deflection, prolonged seal & bearing life
- : User friendly design
- : Easy to install, no downtime, no need to drain the tank
- : Can fit any tank size & shape
- : Adjustable to user's requirements
- : Uniform mixing
- : Saving of civil costs

# Flexibase (SF) Mounting

- Predetermined fixed height from tank bottom
- Freedom to swing horizontally or vertically, while remaining inside liquid

## Rotocoupling (SR) Mounting

- Freedom to adjust height from tank bottom
  Freedom to swing horizontally or vertically,
- while remaining inside liquid
- Quick & easy removal in case of problem

## Pentocoupling (SP) Mounting

- While remaining inside liquid, height adjustment is possible
- Quick & easy removal in case of problem



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