

MONOMIX

STIRRING SYSTEM

I-Tech removable mixer for IBC storage containers that can guarantee the correct homogenization of the liquid and can prevent sedimentation.

Ideal solution for water-based and solvent-based products with different density or viscosity.

It can be supplied both in pneumatic and electric version and can be customized with any type of impeller.

i-Tech
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I-TECH provides different types of industrial agitators with different power and speed for many different applications and specifically designed for plastic (IBC) containers.

The MONOMIX can be provided with:

- A pneumatic or electric morgear group
- A stirrer shaft
- A Leak recovering cup
- A special impeller
- The supporting framework adaptable to different IBC structures
- An electrical panel that can manage up to 6 mixers and can control start/stop timing for each single mixer
- Variable height cover
- Maximum level sensor
- Quick hooks to stick on the IBCs
- 2 filling input







Motor Group	Pneumatic Motor	Standard			Motor Power 1,1 Kw / 1,47 Hp	4 bar = 1240 rpm
						6 bar = 1730 rpm
						8 bar = 2120 rpm
	Pneumatic Motor + Gearbox including leak recovering cup	Standard			Motor Power 1,1 Kw / 1,47 Hp	4 bar = 135 rpm
						6 bar = 160 rpm
						8 bar = 210 rpm
	Electric Motor	Standard			400V 50Hz-0,37 Kw 4P	1400 rpm
					220V 50Hz-0,37Kw 4P	1380 rpm
	Electric Motor + Gearbox including leak recovering cup	Standard			400V 50Hz-0,37 Kw 4P	140 rpm
					220V 50Hz-0,37Kw 4P	138 rpm

Frame Accessories	Forklift Frame	Standard		
	Quick toggle clamps	Optional		
	2 x inlet clamp maximum level sensor auto-adjustable cover	Optional		

I-TECH always guarantees a safe usage, thanks to a system specially designed for the safety of every user and for an easy application onto the IBC tank and usage.

For this reason I-TECH can provide the ATEX version to ensure safety in explosive environments.



Impeller	I-TECH umbrella im- peller (Folding) open \varnothing 280 mm close \varnothing 140 mm	Optional		
	I-TECH marine impeller \varnothing 200 mm	Optional		


Pitch Blade Turbines



CONSTANT ANGLE OF ATTACK

N_p 0.9 - 1.6	SHEAR	Med
N_o 0.7 - 0.9	FLOW	Med
	VISCOSITY	Med
	MIXING INTENSITY	High

Marine-Type Propellers



VARIABLE ANGLE OF ATTACK

N_p 0.3 - 0.9	SHEAR	Med
N_o 0.5 - 0.7	FLOW	Med
	VISCOSITY	Low - Med
	MIXING INTENSITY	Med - High


Low / Mid Solidity Hydrofoils



VARIABLE ANGLE OF ATTACK

N_p 0.3 - 0.6	SHEAR	Low
N_o 0.6 - 0.7	FLOW	High
	VISCOSITY	Low - Med
	MIXING INTENSITY	High
		Off-Bottom

Radial Flow Turbines



CONSTANT ANGLE OF ATTACK

N_p 2.5 - 4.8	SHEAR	High
N_o 1.0 - 1.2	FLOW	Low - Med
	VISCOSITY	Med - High
	MIXING INTENSITY	Low

The MONOMIX mixing system is an efficient and useful solution for those products that need to be mixed and agitated before, during or after the usage.

This mixers can be the ideal solution to drastically reduce the cleaning or transfer time.

Suitable for low and medium viscosity liquid the MONOMIX can mix, homogenize and dissolve substances inside industrial containers.




		No-load speed	
		Direct	Gear 1/10
Pneumatic Motor	Motor Power 1,1 Kw / 1,47 Hp	4 bar = 1240 rpm	4 bar = 135 rpm
		6 bar = 1730 rpm	6 bar = 160 rpm
		8 bar = 2120 rpm	8 bar = 210 rpm

		speed	
		Direct	Gear 1/10
Electric Motor	400V 50Hz- 0,37 Kw 4P	1400 rpm	140 rpm
	220V 50Hz - 0,37Kw 4P	1380 rpm	138 rpm

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