



**ADVANCED
PROCESS SOLUTIONS.
ENGINEERED TO PERFORM.**



EKAS PROCESS Equipment OPC pvt ltd

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ABOUT EKAS

We provide a wide range of services to meet even the most daring requirements.

EKAS PROCESS EQUIPMENT (OPC) Pvt. Ltd. is an ISO 9001:2015 certified machinery manufacturer, exporter, and specialized service provider catering to high-demand process industries across India and global markets. Built on a foundation of technology, innovation, and human expertise, EKAS delivers high-performance equipment and turnkey engineering solutions designed to meet the most challenging industrial requirements.

Core Strengths & Operational Philosophy

Turnkey Capability: From conceptual layout and equipment design to fabrication guidance, procurement, and project commissioning, EKAS covers the complete lifecycle of process plant engineering.

Technology-Driven Innovation: Integrates smart engineering principles to optimize machine performance, improve energy efficiency, and lower overall operational costs.

Proven Expertise: Backed by a multidisciplinary team of experienced consultants, design engineers, commercial managers, and document controllers supported by manufacturing capabilities in Mumbai.

Client-Centric Approach: Focuses on custom-engineered solutions tailored to exact process parameters, ensuring guaranteed satisfaction, high safety standards, and long-term sustainability.

INDUSTRIES WE SERVE

We provide our engineering consultancy services to the following industries:



PAINT



ADHESIVE



INK



CHEMICAL & SPECIALTY CHEMICAL



PHARMACEUTICAL



FOOD & BEVERAGES

We have a dedicated workforce comprising well-experienced consultants, design engineers, commercial managers, document controllers, survey engineers, and other personnel and dedicated facilities at our Third Party Manufacturing in Mumbai. Our rich experience and knowledge and skill in the process make us most preferred choice of project who believe in acquiring Innovative solutions.

Vision:

To establish EKAS PROCESS EQUIPMENT as the most preferred global partner for project owners and plant managers by delivering smarter engineering solutions for a better tomorrow.

Mission:

To drive industrial growth through innovative engineering ideas, prolific project management, and technology-driven equipment that guarantees complete customer satisfaction.

Why Choose Us?

ISO 9001:2015 Certified Quality: Adherence to strict international quality standards in manufacturing, design, and execution.

End-to-End Solutions: Comprehensive capabilities ranging from initial site surveys and project planning to fabrication guidance and final documentation.

Dedicated Expertise:

Skilled workforce including experienced consultants, design engineers, commercial managers, and document controllers. **Robust Infrastructure:** Fully equipped third-party manufacturing facilities located in Mumbai.

Innovative Engineering:

Smart process designs, precise formulations, and modern management techniques aimed at maximizing project profitability and sustainability.

Engineering Consultancy Services

EKAS provides specialized consultancy services for setting up new factories and scaling process operations:

Project Management:

Site surveys, project planning, resource scheduling, and budgeting. **Engineering & Design:** Process design, equipment drafting, formulations, and fabrication supervision.

Supply Chain Support:

Complete procurement, warehouse management, and project documentation.



Butterfly Mixer/ High Speed Dissolve/ High Speed Mixer

Product Description

It is high efficiency mixing equipment. The mixing device is three leaf butterfly blade, Vacuumed during mixing process to improve quality.

Product Characteristics:

Adopt hydraulic cylinder as lifting actuators. Control the mixer up, stop and down through controlling the valve, simply operation and high stability.

Various impellers are optional based on processing requirements to optimize the mixing result.

Different clamping type (Belt Clamping, Manual Rotation, Pneumatic Clamping) are optional for fixing the mixing tank to prevent any possible accident due to tank displacement.



Technical Specification

Type/Parameter	Blade speed (rpm)	Motor power (Kw)	Blade diameter (mm)	Lift height (mm)	Pump motor (Kw)	Tank diameter × height (mm)
BM-600	4~11	0~130	580	700	0.75	600×500
BM-900	4~15	0~130	880	900	0.75	900×750
BM-1000	5.5~18.5	0~130	980	1000	0.75	1000×750
BM-1200	5.5~30	0~130	1120	1200	1.5	1200×1000



High-Shearing Emulsifier

Product Description:

Using electric hydraulic lift. Brief operation, swift lifting. Could match with pulling cylinders & their fixtures.

Suited for medium and large sized production.

Technical Specification

Type	Driving Power (kW)	Handling Ability (L)	Speed (rpm)	A (mm)	B (mm)
FSY7.5	7.5	500	900	1450	1200
FSY11	11	1000	2900	1850	1400
FSY15	15	1500	2900	2050	1450
FSY18.5	18.5	2000	1440	2250	1600
FSY22>	22	2500	1440	2400	1700
FSY37>	37	4000	1440	2600	1900
FSY55>	37	8000	980	3050	2100

Dispering Reactor & Tinting Reactor

Applicable for concocting finished products or mixing different phases of materials in coating, dyes, pigments, printing inks, pesticide and paper-making industries, etc. It can be fitted with many kinds of mixers, which are suitable for different working conditions.

As per different requirements, the kettle is able to be made into many types such as vacuum type, normal-pressure type, pressure-proof type, cooling type, heating type and so on.

Various blades as paddle, frame and anchor with low-speed running can be chosen. Also the kettle, normally with single layer structure can be made into normal -pressure type, pressure- proof type, etc.



Technical Specification

Type/Parameter	Diameter (mm)	Height of Kettle (mm)		Dispersing Kettle		Paint Mixing Kettle	
		Dispersing Kettle	Paint Mixing Kettle	Power (kW)	Speed (rpm)	Power (kW)	Speed (rpm)
500L	500L	1000	1060	11.0	001450	11	112
1000L	1000L	1250	1400	15.0	001450	2.2	112
2000L	2000L	1540	1575	30.0	001450	4.0	112
3000L	3000L	1880	1750	37.0	001450	5.5	88
4000L	4000L	2180	2125	45.0	001450	7.5	88
5000L	5000L	2235	2125	55.0	001450	11.0	88
6000L	6000L	2360	2475	75.0	001450	11.0	88
8000L	8000L	2720	2725	90.0	001000	15.0	88
10000L	10000L	2820	3050	110.0	001000	18.5	65



PLANETARY MIXERS / DISCHARGE PRESS EXTRUDER

Planetary Mixer

Product Description:
The stirring paddle in the kettle rotates while revolution, which make material flow around, so it can realize mixing (compounding) effect in short time.

Product Characteristics:
There are various blades as frame, paddle and twist of dough frame for low speed blade can be chosen.
Vacuum design ensure material work under sealed environment.
Heating means of kettle can be electrical heating, steam heating, hot water or oil circulation heating, intelligent temperature director can control temperature precisely.



Technical Specification

Parameter/Type		FXJ-02L	FXJ-05L	FXJ-100L	FXJ-200L	FXJ-500L	FXJ-1000L
Bowlsize (Dia.×Dep)		80/120×150	240/288×180	600×460/500	720/750×650	1000×380	1250×1000
Capacity(L)	Full volume	3/3.8	8/11.7	130/140	265/287	650	1227
	Working volume	2	5	100	200	500	1000
Power (Kw)		0.37~0.75	0.55~1.5	4~11	7.5~15	15~37	30~55
Agitating speed on own axis (rpm)		0~100	0~100	0~100	0~80	0~60	0~50
Orbital/scraping speed (rpm)		0~60	0~60	0~60	0~50	0~40	0~30
Raising/lowering stroke (mm)		220	270	560	750	930	1100
Vacuum (Mpa)		-0.098~-0.08			-0.098~-0.08		

TWIN/MULTI SHAFT MIXER

Double Shaft / Triple Shaft Mixer

Product Description:
Simple operation by controlling the mixer up, stop and down.

Product Characteristics:
The hydraulic lift and swing mechanism available for usage of single or multiple tanks.
Vacuum dispersing or mixing is available on request.
Available in fixed speed or frequency inverter driven variable speed.
Built with tested and proven quality parts and components.
ATEX compliance to II 2GD c IIB T3 is available on request.



Technical Specification

Parameter / Type	DSM-600	DSM-900	DSM-1000	DSM-1200
Tank capacity (L)	150	500	600	900
High speed power (kw)	7.5	18.5	22	30
Low speed power (kw)	4	7.5	11	11
High speed blade diameter (mm)	200	250	280	330
Low speed shaft Mixing device diameter (mm)	570	860	960	1160
High speed shaft (rpm)	1500	1500	1500	1500
Low speed shaft (rpm)	90	60	120	120
Max.range of up & down (mm)	700	950	1000	1100
L×W×H (mm)	1750×1250×2350	2420×1400×3106	2800×1700×3250	2800×1700×3250





Double planetary mixer

Product Description:

There are various blades as frame, paddle and twist of dough frame for low speed blade can be chosen.

Product Characteristics:

The stirring paddle in the kettle rotates while revolution, which make material flow around, so it can realize mixing (compounding) effect in short time.
The additional one or two high-speed disperser in the kettle rotate while revolution, which make the material be strongly cut and mixed, the effect is severalfold than ordinary mixer.
Vacuum design ensure material work under sealed environment.
Heating means of kettle can be electrical heating, steam heating, hot water or oil circulation heating, intelligent temperature director can control temperature precisely.

Technical Specification

Parameter/Type		FXJ-02L	FXJ-05L	FXJ-100L	FXJ-200L	FXJ-500L	FXJ-1000L
Bowlsize (Dia.xDep)		180/120x150	240/288x180	600x460/500	720/750x650	1000x380	1250x1000
Capacity(L)	Full volume	3/3.8	8/11.7	130/140	265/287	650	1227
	Working volume	2	5	100	200	500	1000
Power (Kw)		0.37~0.75	0.55~1.5	4~11	7.5~15	15~37	30~55
Agitating speed on own axis (rpm)		0~100	0~100	0~100	0~80	0~60	0~50
Orbital/scraping speed (rpm)		0~60	0~60	0~60	0~50	0~40	0~30
Raising/lowering stroke (mm)		220	270	560	750	930	1100
Vacuum (Mpa)		-0.098~-0.08			-0.098~-0.08		

Tank

Product Description:

Ekas Tank SS304 and SS316L Stainless Steel Tank Reactor Vessel or tank mounted with mixers
Chemical mixing reactors/reaction vessel/ Reaction kettle.

Main Features:

SUS 304 or 316L stainless steel for anti-wear.
Single-layer or double-layer tank optional for different usage.
The reaction tank is fully manufactured according to the production flowchart.
Double layer equipped with inlet and outlet hose for cooling or steam heating functions.
Equipped with heavy-duty rollers, brake function rollers ensure safety while standing by.



Side Entry & Top Entry Agitator

Side Entry Agitators

Mounting: Installed horizontally on lower tank sidewalls; features shorter shafts and lower initial costs.
Flow: Creates a horizontal directional stream that sweeps across the tank floor.
Best Uses: Large-volume storage tanks, crude oil blending to prevent bottom sludge, and low-viscosity mixing.

Technical Specification

Type	Driving Power(Kw)	Handling Ability(L)	Speed (rpm)	A (mm)	B (mm)	C (mm)
HSE1.1	1.1	100	2900	1150	680	700
HSE4.0	4	200	2900	1250	680	700
HSE7.5	7.5	500	2900	1900	1100	800
HSE11	11	1000	2900	2200	1300	900
HSE15	15	1500	2900	2600	1600	1000



Top Entry Agitators

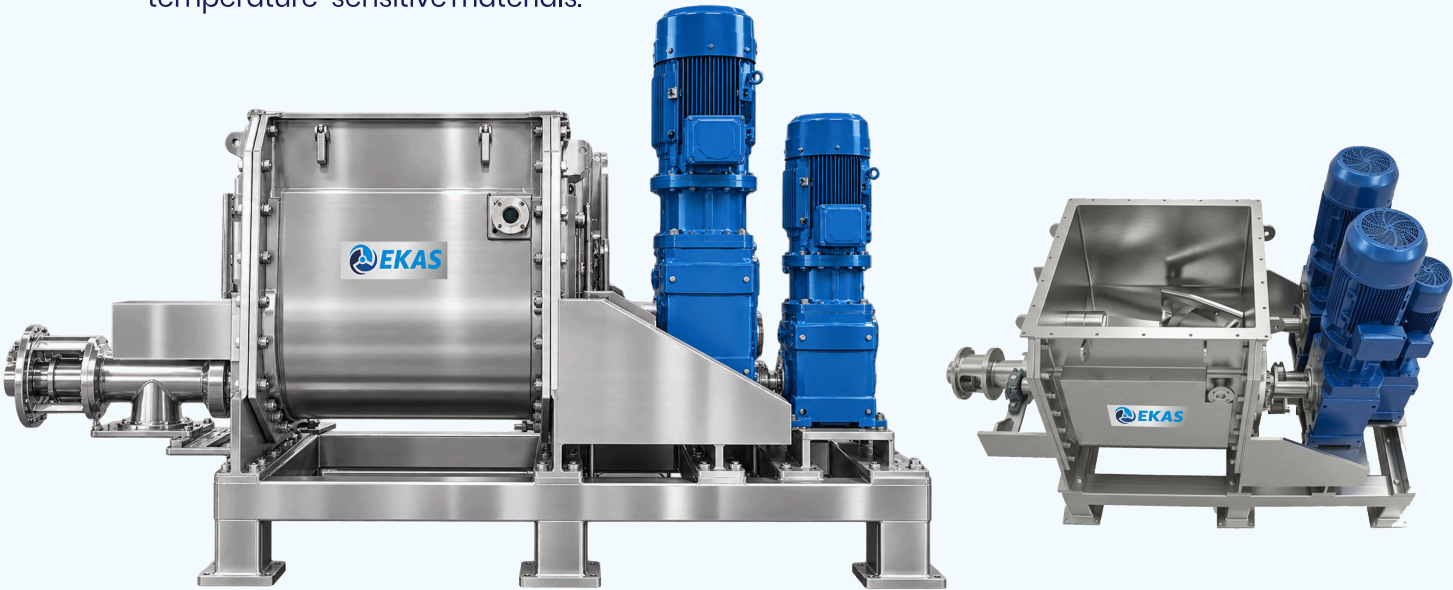
Mounting: Installed vertically on top of the vessel, centering the impeller.Flow: Generates powerful top-to-bottom symmetrical axial pumping, eliminating dead zones.Best Uses: Chemical reactors, solid-liquid slurries, high-viscosity liquids, and full-depth controlled mixing.



✓ Sigma Mixer

Product Description:

Our Sigma Mixer / Double Arm Kneader is engineered for efficient mixing and kneading of high-viscosity materials across a wide range of industrial applications. Featuring dual sigma blades rotating at different speeds, it delivers superior mixing, high shear action, and consistent product quality while reducing processing time. Available in capacities from 5L to 1000L (1KL), the mixer offers flexible discharge options, heating/cooling jackets, vacuum operation, variable speed drives, and custom configurations to meet diverse process requirements. Its advanced design improves productivity, enhances operator safety, and simplifies handling of sticky or temperature-sensitive materials.



✓ High-shearing Emulsifier

Using pneumatic or manual hydraulic lift
With mobile casters, mobile and flexible,
casters with brakes
Could match with pulling cylinders and
their fixtures
Brief operation, convenient maintenance
Suited for small sized production



✓ Ribbon mixer

Product Description:

Horizontal ribbon belt mixing machine comprises of U-shape container, transmission parts and spiral belt agitating blades which usually have double or triple layers with outside screw gathering the material from sides to center and inside screw transmitting the material from center to sides to form convection mix.

Ribbon mixing machine has a good result in the mix of viscosity or cohesion powder and of putting liquid and mash material into the powder.

The cylinder cover can be fully open so as to clean and change the device.



Technical Specification

Type		FDL										
Spec(m3)		0.5	1	2	3	4	5	6	8	10	12	15
Working capacity	0.4~0.6											
Power(Kw)		5.5	11	15	18.5	22	30	37	45	55	55	75
Speed(rpm)		66	41	41	33	33	26	26	26	20	20	17
Dimension(mm)	L	1672	1970	2480	2880	3026	3518	3905	4398	4500	4486	5363
	W	1142	1437	1561	1895	1947	1945	1683	1960	2070	2250	2250
	H	1300	1500	1830	2083	2235	2233	2286	3150	2667	2737	3070
Weight(Kg)		955	1400	2500	3300	3600	4620	5300	6800	8902	9520	9950

Technical Specification

Type	Driving Power(kw)	Handling Ability(L)	Speed (rpm)	A (mm)	B (mm)	C (mm)
HSE1.1	1.1	100	2900	1150	680	700
HSE4.0	4	200	2900	1250	680	700
HSE7.5	7.5	500	2900	1900	1100	800
HSE11	11	1000	2900	2200	1300	900
HSE15	15	1500	2900	2600	1600	1000