

SOLUTION PROVIDER ENTERPRISE PARTNER

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**FARFLY**  
法孚莱科技

# COATING PRODUCTION EQUIPMENT SOLUTIONS

**FARFLY**  
法孚莱科技



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中国 · 上海  
SHANGHAI, CHINA

# INNOVATION FARFLY

**FARFLY**  
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SHANGHAI FARFLY ENERGY TECHNOLOGY CO.,LTD.  
JIANGSU FARFLY INDUSTRIAL INTELLIGENT EQUIPMENT CO.,LTD.

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SHANGHAI FARFLY ENERGY TECHNOLOGY CO., LTD.



Farfly was founded in 2003 and headquartered in Hongqiao International Business District, with a registered capital of 37.92 million RMB.

The total area of the production base is 65,000 square meters, located in Wuxi Gushan Industrial Park and Nantong Xiayuan Industrial Park, focusing on the research, development and manufacturing of chemical machinery and equipment. Farfly's main products include mixing equipment, dispersion equipment, high shear emulsification equipment, wet grinding equipment, powder mixing equipment, filling equipment and various reactors. With deep expertise and technology, we can provide one-stop solutions according to the specific needs of customers, including the overall design, integration, installation and commissioning of production lines in related fields.

Over the past 20 years, Farfly has spread its footprints to more than 100 countries and regions around the world, and its products have been steadily ranked among the industry leaders in terms of export volume, which fully proves our global competitiveness. We always adhere to the purpose of "quality first, customer satisfaction", continue to carry forward the craftsman spirit of excellence, committed to casting high-quality products, and strive to build a national brand with international influence.



## SOLUTION PROVIDER ENTERPRISE PARTNER

**2003** | **37.92million** | **65000square metres**  
Founded in | Registered capital | Production base



INNOVATION  
FARFLY

创新致远



### ◎ WHOLE SOLUTION DESIGN TO MEET CUSTOMER'S DEMAND

FARFLY's professional design team is always committed to working closely with customers, jointly exploring and evaluating the process, and selecting advanced, reliable, and economical process technologies. It has become an excellent tradition of FARFLY to collaborate with users to develop innovative and cost-effective processes and processing equipment.

### ◎ SMOOTH AND IMPROVED SERVICE SYSTEM

Our service process starts with a thorough understanding of the customer's process requirements, extends to the meticulous design of the overall solution, and then to the selection of product configurations, as well as providing comprehensive after-sales technical support. We are committed to providing customers with optimized solutions, a complete product line, and convenient and efficient logistics services. Ensure smooth execution of the overall processing flow. Through these meticulous and thoughtful services, we have established long-term and stable partnerships with our clients.

### ◎ EXCELLENT MANUFACTURING PROCESS

Our pursuit of quality runs through the entire production process, from carefully selected raw materials to the presentation of the final product, each step undergoes strict optimization and fine polishing. Our focus on details and pursuit of perfection are unremitting, reflecting our spirit of continuous effort.

### ◎ STRICT TEST PROCEDURE

Before leaving the factory, every product must go through a series of strict quality inspection processes to ensure that every product delivered to customers not only meets the standards, but also provides customers with value experiences that exceed expectations.

# SIX LEADING ADVANTAGES



- Owned kinds of innovating processing devices ,ensure parts to be stable in later procedure.
- Internal implementation of front-end-of line serve for back end-of line system ,ensure strict management and examination for each step.
- Specialized purchase team ,long-term stabilization of quality suppliers, ensure quality of raw material and reliable performance.
- Well experienced design group ,being capable of designing for whole paint factory and production line turn-key project as per request of customers.
- Beyond customers's anticipation of pre sale ,sale and after-sales service.
- FARFLY equipment offers the best cost-performance ratio in the industry.



OWN FACTORY

INDEPENDENT DESIGN

CUSTOMIZED SERVICE

GLOBAL SHIPPING

**FARFLY**  
法孚莱科技

QUALITY CREATES BRAND,  
SERVICE MAKES THE FUTURE.



# DEVELOPMENT PATH

FAITH MAKES DREAMS SAIL.  
OVER 20 YEARS LIVE UP TO YOUR TRUST.  
OVER 20 YEARS FORWARD TEMPER,  
UNITED HEART CASTS REFULGENCE.



**2003年**  
In 2003, Company was established. A thousand mile journey begins with the first step.

In 2004, self-development basket mill obtained country patent.  
In 2005, 20L high efficiency corn sand mill was invented for solvent ink.

In 2009, the sales services office was founded in the South America area.

In 2006, the sales services office was founded in the Middle East area.

In 2010, pass through the ISO9001 Quality system certificate.

In 2007, the 250kw large power disperser success using by Middle East customer.

In 2008, the ceramic sand mill for jet ink was developed and came into use successful.

In 2009, the sales services office was founded in the South America area.

LEADING BRAND OF COATING PRODUCTION EQUIPMENT | INNOVATION FARFLY

THE PAGE NUMBER 08/09

**2010年**  
In 2010, pass through the ISO9001 Quality system certificate.  
In 2011, the main products got the CE certification suit for EU market standard, and this year FARFLY was honored one of the ten most popular brands in the coating Industry.

In 2012, first SC product line was designed and installed successfully in domestic and been the member of China coating industrial association.

In 2013, the sales services office was founded in the South America area.

**2012年**  
In 2012, first SC product line was designed and installed successfully in domestic and been the member of China coating industrial association.

In 2013, the sales services office was founded in the South America area.

In 2014, the main products got the CE certification suit for EU market standard, and this year FARFLY was honored one of the ten most popular brands in the coating Industry.

In 2015, the sales services office was founded in the South America area.

**2018年**  
In 2018, Completion of a new plant in Jiangsu with an annual output of 1,500 units.

In 2016, FARFLY independently design and build the lacquer Project of Akzo Nobel Decorative Coatings (Langfang) LTD.used into producing successfully.

In 2017, the main products got the CE certification suit for EU market standard, and this year FARFLY was honored one of the ten most popular brands in the coating Industry.

In 2018, the sales services office was founded in the South America area.

**2019年**  
In 2019, Successfully declared a national high-tech enterprise.

In 2018, Henan Hansi Crop: 5 SC production lines were used into production; Guangdong Zhongxun Agriscience(Xiangxi plant,Hubei plant,Sichuan plant):6 SC production lines were used into production; Shandong Biao: 4 SC production lines were used into production.

In 2019, the main products got the CE certification suit for EU market standard, and this year FARFLY was honored one of the ten most popular brands in the coating Industry.

In 2019, the sales services office was founded in the South America area.

**2020年**

In 2020, Annual sales amount exceed 100 million.

Successfully delivered the whole plant equipment to V.ABC paint manufacturing (Jiangxi) Co. Ltd with mature design for years collection experience.

Successful delivery of furniture paint head enterprise-Zhanchen Coating Puyang factory , marking the leading position of furniture paint industry equipment.

Zhejiang Yuehong Company's high-performance membrane material and thermal paper product whole plant production equipment marking a new milestone on new materials industry.

In 2020, the sales services office was founded in the South America area.

**2022年**

In 2022,Successfully developed fan-type energy-saving paddles, which reduced the power of the stirring tank by more than 70%. Successfully signed two tens of millions of contracts with Anhui Damus and Nantong Meigao Micro-spheres.

The Shuangta panit Co.,Ltd--- a wholly-owned subsidiary of Xiangjiang Group, was successfully delivered, shows the quality of benchmarking in anti-corrosion industry.

Become a high-tech enterprise.

In 2022, the sales services office was founded in the South America area.

**2023年**

Rated as a member of the China national Coatings Industry Association.

Rated as a technology-based small and medium-sized enterprise.

Rated as a private technology enterprise in Jiangsu Province.

Rated as a specialized, refined and innovative small and medium-sized enterprise.

Successfully signed contracts with Shandong Dewei Coatings, Chongqing Tuoyu Coatings and Anhui Footprint New Materials, further enriching the experience accumulation in new factory projects in the coatings industry.

In 2023, the sales services office was founded in the South America area.

**IN2025  
INNOVATION FARFLY**

In 2024, we invested in building a new factory with an area of 40,000 square meters in Nantong, Jiangsu.

Rated as Wuxi City's recognized enterprise technology center.

Rated as a high-efficiency and low-energy consumption ultra-fine grinding equipment engineering technology research center.

Successfully signed cooperation agreements with Jiangsu Fangmaoshan, Changzhou Weston, Changzhou Huaxing, Chongqing Huahui, Bauhinia and other companies to further enhance Farfly's influence and market competitiveness in the coatings industry.

In 2025, the sales services office was founded in the South America area.

IN 2025, INNOVATION FARFLY

IN 2025, INNOVATION FARFLY

# MAIN CUSTOMERS

**FARFLY**  
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For more than two decades, we at FARFLY have weathered the storms with you, walking side by side. With the craftsmanship spirit of constantly striving for perfection, we have gained widespread recognition. Your care and trust have inspired us to keep surpassing ourselves. And countless renowned partners have joined hands with us to paint the magnificent blueprint of FARFLY.



# PRODUCTS OVERVIEW



## FWE HORIZONTAL SAND MILL

### PRINCIPLE »

It's a wet process milling equipment which can produce continuously, its working principle is the power delivered from high-speed rotor to milling medium and liquid product, through mutual colliding and laminating, ultrafine size can be achieved.

### CHARACTERISTICS »

- Adopts double mechanical seal, lubricating liquid dissolves with product, safety and reliability.
- Multiple material can be chosen for dispersing disc, catering to customer requirements for product color difference.
- Barrel is convenient to be disassembled, easy to clean and for different color products.



Type/Parameter	Motor power	Barrel capacity	Pump flux	Cooling water	Production capacity	Milling medium	Overall size
	(Kw)	(L)	(L/min)	(m³/h)	(Kg/h)	(mm)	(mm)
FWE-5	7.5	5	2~12	0.8~1	20~100	0.8~2.0	1080×760×1300
FWE-20	18.5	20	2~12	1~1.5	30~300	0.8~2.0	1450×885×1650
FWE-30	22	30	2~12	1~1.5	50~600	0.8~2.0	1620×930×1700
FWE-50	30	50	3~18	2~2.5	100~1000	0.8~2.0	1780×930×1780
FWE-60	37	60	3~18	2~2.5	100~1200	0.8~2.0	1900×1000×1850
FWE-100	55	100	3~18	2~2.5	100~1500	0.8~2.0	2390×1530×1950



## FSP HIGH FLUX SAND MILL

### CHARACTERISTICS »»

- High flux—technology imported from Germany: static centrifugal discharging devices, large discharge area with high output.
- Double mechanical seal, lubricating liquid dissolves with material, safe and reliable.
- Grinding area is made of special anti-wearing alloy ensuring long service life.
- Cooling efficiency: segmented double helix waterway which is more advantageous to the energy exchange. Cooling efficiency is 2 times better than ordinary types.
- Intelligent double mechanical seals: German mechanical seal technology, imported-fluorine sealing rings can resist different solvents.
- Grinding efficiency: increased to more than 30% compared with regular models, the combination of the disperser can rapidly improve dispersion efficiency. The grinding medium can be superfine size to be more efficient.



Type/Parameter	Motor power	Barrel capacity	Pump flux	Cooling water	Production capacity	Milling medium	Overall size
	(Kw)	(L)	(L/min)	(m³/h)	(Kg/h)	(mm)	(mm)
FSP-30	22	30	2~17	1.5~2	80~600	0.4~2.0	1620×930×1610
FSP-50	30	50	3~22	2~2.5	100~800	0.4~2.0	1780×930×1780
FSP-60	37	60	3~22	2~2.5	100~1000	0.4~2.0	2000×1030×1670
FSP-100	55	100	5~40	2.5~3	200~1500	0.4~2.0	2100×1170×1930
FSP-150	90	150	5~50	3~4.5	300~2000	0.4~2.0	2685×1545×2075
FSP-200	110	200	8~60	4~5.5	500~2500	0.4~2.0	2850×2380×1400



## FZS HORIZONTAL SAND MILL

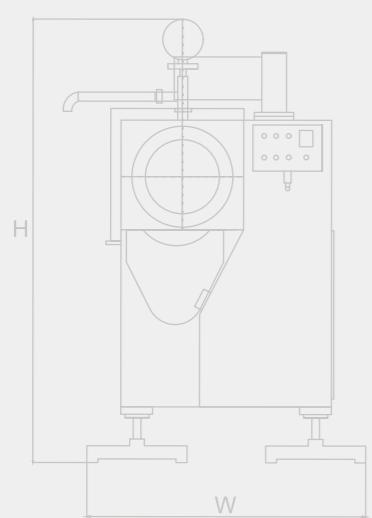
### CHARACTERISTICS »»

- The energy-intensive design principle is fully applied, so that as soon as the material enters, it will receive high-density kinetic energy.
- Use of highly wear-resistant alloy cylinder, in order to achieve high quality products.
- Double mechanical seal, lubricating liquid dissolves with material, safe and reliable.
- Cylinder and axis dual cooling system, Strong cooling effect.

### APPLICATION AREA »»

Offset printing, fluorescent, UV, uneven printing ink, concentrated color paste and other high viscosity coatings.

Type/Parameter	Motor power	Barrel capacity	Pump flux	Cooling water	Production capacity	Milling medium	Overall size
	(Kw)	(L)	(L/min)	(m³/h)	(Kg/h)	(mm)	(mm)
FZS-5	18.5	5	2~12	1~1.5	30~300	0.8~1.8	1400×850×1700
FZS-25	30	25	2~12	1.5~2	80~600	0.8~1.8	1510×930×1780



## FTBS HORIZONTAL SAND MILL

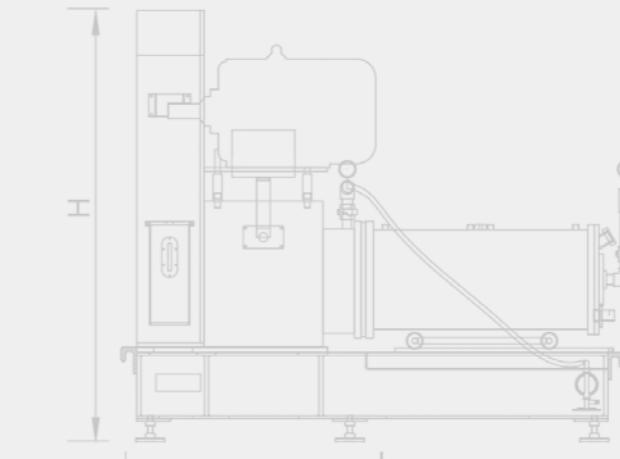


### CHARACTERISTICS »

- Stable structure, compact design, convenient operation.
- More convenient cleaning, color changing and mill bead replacing.
- No residue design solves better discharge and residual materials problems.
- Carbide grinding rods, with rational distribution, can achieve high grinding efficiency.
- Double cooling of inner rotor and outer jacket ensures effect of material cooling.
- Better lining of wear-resistant alloy, without pollution of materials.
- Less grinding media wear, low running costs.



Type/Parameter	Motor power	Barrel capacity	Pump flux	Cooling water	Production capacity	Milling medium	Overall size
	(Kw)	(L)	(L/min)	(m³/h)	(Kg/h)	(mm)	(mm)
FTBS-2	5.5	2	2~12	0.5~1	20~100	0.8~2.0	1300×1100×1000
FTBS-20	22	20	2~12	1.5~2	100~500	0.8~2.0	2100×1200×2000
FTBS-30	30	30	2~12	1.5~2	100~600	0.8~2.0	2200×1300×2100
FTBS-50	45	50	3~18	2~2.5	100~1000	0.8~2.0	2500×1400×2200



## FDS HIGH EFFICIENCY SUPER FINENESS SAND MILL



### CHARACTERISTICS »

- New design of pin-type grinding components, high grinding efficiency, high output, and low energy consumption.
- With smaller length/diameter ratio and higher energy density.
- Using high flux static centrifugal separation sieve, large discharging area, grinding medium no contact with the sieve, no abrasion, with longer service life.
- Grinding barrel and grinding rotor adopt forced cooling system, with lower discharging temperature and no influence on sensitive materials.
- Using top high quality wear-resisting alloy steel, reduce pollution to products. Different materials are optional as per different products, such as stainless steel, high polymer materials, ceramics, etc.



### APPLICATION AREA »

Digital printing ink, solvent ink, water-based ink, automobile paint, industrial coating, pigments, color paste, and nanometer materials.

Type/Parameter	Motor power	Barrel capacity	Pump flux	Cooling water	Production capacity	Milling medium	Overall size
	(Kw)	(L)	(L/min)	(m³/h)	(Kg/h)	(mm)	(mm)
FDS-5	11	5	2~12	1.5~2	50~400	0.4~2.0	1280×830×1450
FDS-10	18.5	10	2~17	2~2.5	100~600	0.4~2.0	1280×830×1500
FDS-20	30	20	3~18	2~2.5	100~900	0.4~2.0	1450×935×1600
FDS-30	45	30	3~18	2~2.5	100~1200	0.4~2.0	1600×1100×1650
FDS-60	75	60	3~18	3~3.5	200~2000	0.4~2.0	2200×1600×2200

# FMS NANO SAND MILL



## CONTROL PANEL »»

The equipment adopts new HMI-PLC (human-machine interface) technology. Through PLC programming, the equipment operation and operating parameters can be monitored and stored in real-time, making it easy to trace the production parameters of each batch of products. And can provide intelligent reminders for maintenance. The control system can be connected to the network. The influential network capabilities of the equipment mean that equipment operations and operating parameters can be monitored from any corner of the world.

## GRINDING PROCESS »»

The equipment's unique hedging double-helix medium control technology can obtain highly narrow particle size distribution during the dispersion process from submicron to nano-level. This equipment proposes an innovative new concept of dispersion grinding: transferring maximum energy to the grinding media with a low filling rate and concentrated distribution. This unique grinding system can transmit shear force, friction force, and collision pressure between beads far better than traditional sand mills.

## GRINDING BEADS CONTROL»»

The high linear speed grinding beads move in a short stroke and continue to circulate, which creates an opposing double helix motion in and around the grinding component. This effect precisely guides the movement of the grinding beads within the grinding chamber. At the same time, the preliminary separation of grinding bead materials also occurs at this stage. Through unique design, the centrifugal force separation effect is increased as much as possible, and the grinding media and products are also separated.

## APPLICATION SCOPE »»

This grinding machine can be widely used in various industries, including paint, ink, agrochemical products, medicine, food, pigments, resins, magnetic coatings, ceramics, minerals, general chemical products, cosmetics etc.

Model	Motor Power	cylinder volume	Media volume	Pump flow	Foot size	weight
	(Kw)	(L)	(L)	(L/hr)	(cm)	(kg)
FMS/FDMS0.5	4	0.5	0.25	0-25	40 x 60	100
FMS/FDMS5	11	5	2.5	0-250	80 x 110	550
FMS/FDMS20	37	20	10	0-1000	90 x 130	1150
FMS/FDMS50	75	50	25	0-2500	100 x 150	1550

# FDMS NANO SAND MILL

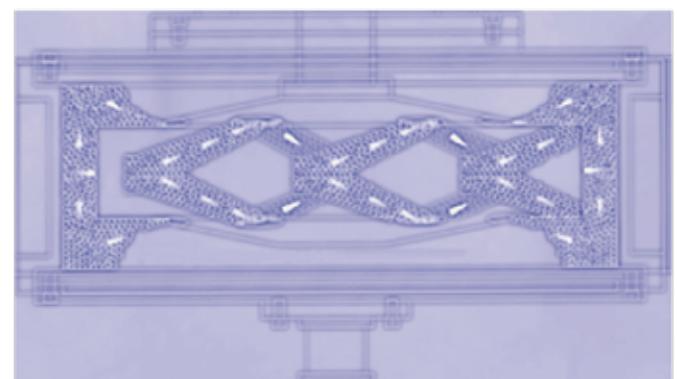
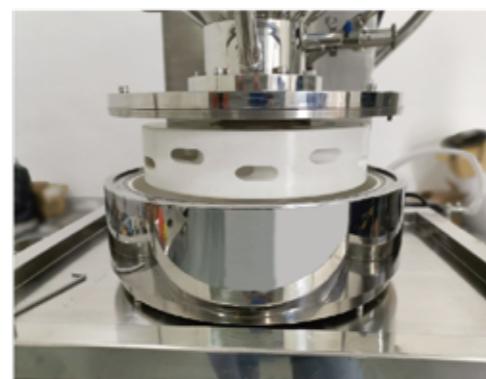


## ADVANCED COOLING »»

This equipment has three independent cooling systems. It is recommended to use a chiller to provide cooling water to ensure that the product is grinding in a lower temperature range.

## VERY NARROW PARTICLE SIZE DISTRIBUTION »»

This equipment recommends the use of a single-diameter grinding media. The passing trajectory of the product during grinding is controllable, and the running trajectory of the grinding media is controllable. Therefore, the particle size distribution range of the grinding product can reach the narrowest distribution curve, which greatly improves the grinding fineness. Uniformity. This equipment can use the finest grinding media of 0.1mm, which can achieve the minimum grinding fineness of the product while ensuring high grinding efficiency, and meet the sub-micron and nano-level grinding production requirements of the product.



GRIND TO  
NANO-LEVEL





## FRS SAND MILL

### APPLICATION AREA »»

It suits for high viscosity inks grinding. Like Offset printing inks, screen printing inks, concentrated inks, gravure inks, UV ink, Printing inks.

### CHARACTERISTICS »»

- Strong versatility, easy operation, PLC used for control, analogous drawing and touch screen are available (optional).
- Conic grinding and mixing tank provides the best grinding effect.
- Self-cleaning, high-precision separating ring and grinding media of 0.8~2.5mm are acceptable
- Small processing area and closed grinding ensures the least pollution.
- Grinding area made of special wear-resistant alloy material ensures long service life.
- All imported high-precision bearings and double-acting mechanical sealing ensure service life and stability of equipment.
- Internal circulatory cooling/heating integrated system suits temperature-sensitive materials.

Type/Parameter	Motor power	Barrel capacity	Pump flux	Cooling water	Production capacity	Milling medium
	(Kw)	(L)	(L/min)	(m³/h)	(Kg/h)	(mm)
FRS-80	22/37	9	2~12	1~1.5	50~200	0.8~2.0
FRS-120	37/45	13	2~12	1.5~2	100~300	0.8~2.5
FRS-180	45/55	15	2~12	1.5~2	150~500	0.8~2.5
FRS-280	55/75	20	2~12	1.5~2	250~800	1.6~2.5

## FB VERTICAL SAND MILL

### APPLICATION AREA »»

Applicable for grinding and dispersing of liquid and solid materials under close status in paint, dye, pigment, printing ink, pesticide and papermaking industries.



Type/Parameter	Barrel capacity	Motor power	Speed	Pump flux	Material viscosity	Production capacity	Weight
	(L)	(Kw)	(rpm)	(L/min)	(Pa·s)	(Kg/h)	(Kg)
FB20	20	15	1320	2-12	≤5	150-400	1000
FB40	40	22	1020	2-12	≤5	300-700	1500
FB80	80	30	830	3-18	≤5	500-1200	2000

## FK VERTICAL SAND MILL

### APPLICATION AREA »»

Applicable for grinding and dispersing of liquid and solid materials under non-closed state in paint, dye, pigment, printing ink, pesticide and papermaking industries.



Type/Parameter	Barrel capacity	Motor power	Speed	Pump flux	Material viscosity	Production capacity	Weight
	(L)	(Kw)	(rpm)	(L/min)	(Pa·s)	(Kg/h)	(Kg)
FK10	10	5.5	1440	2-8	≤5	80-200	550
FK20	20	11	1320	2-12	≤5	150-400	1000
FK40	40	18.5	1020	2-12	≤5	300-700	1500
FK80	80	30	830	3-18	≤5	500-1200	2000



## FTM BASKET MILL

### PRINCIPLE »»

The milling basket, containing the grinding bead is lowered into the mill base, the fast circulation of the mill base within the milling basket is generated by the dispersing disc and integrated pump wheel, and a very narrow particle size distribution can be achieved very quickly.



### CHARACTERISTICS »»

- Suit for producing small batch product and middle test. Dispersing and grinding are finished in one machine and one container, no need extra pumps, piping, valves etc.
- Easy cleaning, no residues, convenient product replacement.
- Little grinding media required. Excellent grinding efficiency and effect.
- Double-walled container for cooling and heating.
- Modular design of parts make it much more convenient to disassemble, maintain and overhaul, almost no need of professional maintainer.

Type/Parameter	Voltage	Power	Speed	Handling capacity	Basket capacity	Lifting height	Milling medium	Overall size
	(V)	(Kw)	(rpm)	(L)	(L)	(mm)	(mm)	(mm)
FTM-50	~380	2.2	0-1450	25-50	2	600	2.0-2.4	1650X750X1150
FTM-100	~380	4	0-1450	40-90	2	650	2.0-2.4	1700X750X1200
FTM-200	~380	7.5	0-1450	100-200	4	700	2.0-2.4	1900X900X1500
FTM-250	~380	11	0-1450	150-350	5	750	2.0-2.4	2050X1050X1700
FTM-350	~380	15	0-1450	150-350	5	750	2.0-2.4	2050X1050X1700
FTM-500	~380	18.5	0-1450	200-500	13	1000	2.0-2.4	2450X1150X2050
FTM-1000	~380	22	0-1450	200-500	18	1000	2.0-2.4	2450X1150X2050
FTM-1500	~380	37	0-1200	500-900	24.5	1200	2.0-2.4	3000X1200X2230
FTM-2000	~380	55	0-1000	800-1500	65	1500	2.0-2.4	3350X1200X2450



## FDG DISPERSING MACHINE

### APPLICATION AREA »»

The series of FDG high speed mixers are suitable for producing paint, ink, coating, dyestuff, paper making and so on in chemical industry. The mixers are used for wet dispersing and mixing liquid-solid material. This machine uses frequency conversion speed regulation, hydraulic elevating, working steadily, use and maintenance expediently.



Type/Parameter	Power	Speed	Disc diameter	Lifting height	Pump power	Handling capacity	Weight	Overall size
								(mm)
FDG2.2	2.2	0~1450	150	600	0.55	50~100	120	1320 X 550 X 1380
FDG4/5.5	4/5.5	0~1450	200	900	0.55	100~200	400	1320 X 550 X 1550
FDG7.5/11/15	7.5/11/15	0~1450	250/300/300	1000	0.75	400~600	800	1700 X 600 X 1750
FDG18.5/22/30	18.5/22/30	0~1450	330	1200	1.5	600~1200	1500	2215 X 800 X 2100
FDG37/45	37/45	0~1200	400/450	1200	1.5	1200~2000	2000	2320 X 800 X 2100
FDG55	55	0~1200	500	1200	2.2	1500~2500	2500	2320 X 800 X 2100
FDG75/90	75/90					May be designed according to customer demand		
FDG110/132	110/132					May be designed according to customer demand		
FDG160	160					May be designed according to customer demand		

## FDH HIGH SPEED DOUBLE SHAFT DISPERSER



### PRINCIPLE »»

The dual shaft disperser is suitable for mixing and dispersing two or more kinds of liquid and powder materials. Double impellers disperse the solid-liquid phase in the same time, effectively reducing the material following-up phenomenon and improving the dispersing result and quality.

Type/Parameter	Motor Power	Speed	Lift height	Tank capacity
	(Kw)	(rpm)	(mm)	(L)
FDH11	11	0~1200	900	500
FDH30	30	0~1200	1200	1000
FDH45	45	0~1200	1400	2000
FDH75	75	0~1200	1600	3000

## FDT CONCENTRIC DOUBLE SHAFT AGITATOR



### PRINCIPLE »»

Suitable to stir and mix the high viscosity materials in coating and printing ink industries. The frame stirring device makes the material mixed and prevents it from sticking on the walls. The high speed disperser makes the materials be mixed and dissolved adequately and the product can reach the requirement in short time.

Type/Parameter	Mixer motor	Mixer speed	Dissolver motor	Dissolver speed	Lift height	Tank capacity	Overall size
	(Kw)	(rpm)	(Kw)	(rpm)	(mm)	(L)	(mm)
FDT-200	4	34	11	0-1450	800	200	2150X850X2500
FDT-500	7.5	34	22	0-1450	1000	500	2500X1500X2900
FDT-1000	22	28	37	0-1200	1100	1000	3200X1700X3200
FDT-1500	22	25	55	0-1200	1500	1000	3300X1700X3370

## FDZ VACUUM DISPERSING MACHINE



### PRINCIPLE »»

Suitable for materials which easily producing bubbles and volatile solvents. Materials will be dispersed in vacuum tanks, thus to reduce the volatilization of bubbles and solvents, accelerate the deaeration of materials, and improve the dispersion fineness. With the advantage of simple structure, high vacuum, convenient to operate and wide application range.

Type/Parameter	Motor Power	Speed	Tank	Lift height	Vacuum	Disc diameter
	(Kw)	(rpm)	(L)	(mm)	(MPa)	(mm)
FDZ200	7.5	100-1400	200	900	≤-0.07	200
FDZ400	15	100-1400	400	900	≤-0.07	300
FDZ600	22	100-1400	600	1200	≤-0.07	350
FDZ1000	30	100-1400	1000	1200	≤-0.07	400

## FDL DOUBLE SHAFT MIXER



### PRINCIPLE »»

High efficiency mixing equipment applicable for high viscosity material, to make material dispersing, dissolving and mixing uniform. Especially for coating, ink, pigment, etc...industries.

Type/Parameter	Tank capacity	High speed power	Low speed power	High speed blade diameter	Low speed shaft Mixing device	High speed shaft	Low speed shaft	Max.range of up and down	LxWxH
	(L)	(Kw)	(Kw)	(mm)	(mm)	(rpm)	(rpm)	(mm)	(mm)
FDL-600	150	7.5	5.5	150	570	0-2900	120	700	2000X850X2200
FDL-700	200	11	7.5	180	670	0-1450	120	800	2100X850X2350
FDL-900	500	22	11	250	860	0-1450	120	1000	2500X1500X2900
FDL-1100	800	37	22	330	1060	0-1200	120	1100	2750X1700X3100
FDL-1200	1000	45	30	350	1160	0-1200	120	1200	2850X1700X3370

## FDB BUTTERFLY MIXER

### PRINCIPLE »

FDB series disc mixer is a kind of efficient mixing equipment. The mixer adopts three-blade disc type blades. At the same time, vacuum is drawn in the mixing process, which can effectively improve the product quality. It can automatically rise and fall while stirring to improve production efficiency. It is applicable for high viscosity putty, adhesive and offset ink industry.



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

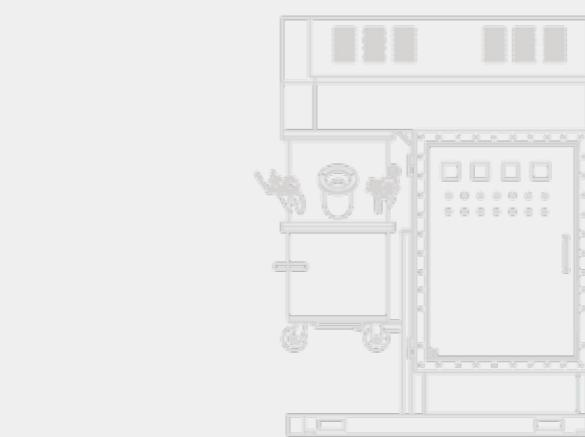
## FYL HYDRAULIC DISCHARGING MACHINE

### PRINCIPLE »

The hydraulic discharging machine match with double planetary driven mixer, double planetary type mixer and multifunction mixer, can realize extrusion, manual filling and transmission of high viscosity material.



Type	Diameter	Power	Max. Pressure	Max. Force
	(mm)	(Kw)	(Mpa)	(T)
FYL50	480	4	0~31	50
FYL100	635	4	0~31	50
FYL500	900	7.5	0~31	100
FYL850	1100	11	0~31	120
FYL1000	1200	11	0~31	120
FYL1500	1300	15	0~31	150



## FXJ PLANETARY MIXER

### CHARACTERISTICS »

- The stirring paddle in the kettle rotates during revolution, which makes the material flow around, so it can realize mixing (compounding) effect in a short amount of time.
- There are various blades such as frame, paddle and dough twisting frame for low speed blades that can be chosen.
- Vacuum design ensures the material is working in a sealed environment.
- The heating method of the kettle body can adopt electric heating, steam heating, hot water or hot oil external circulation, intelligent temperature controller, and precise temperature control.



Double piston



Single piston



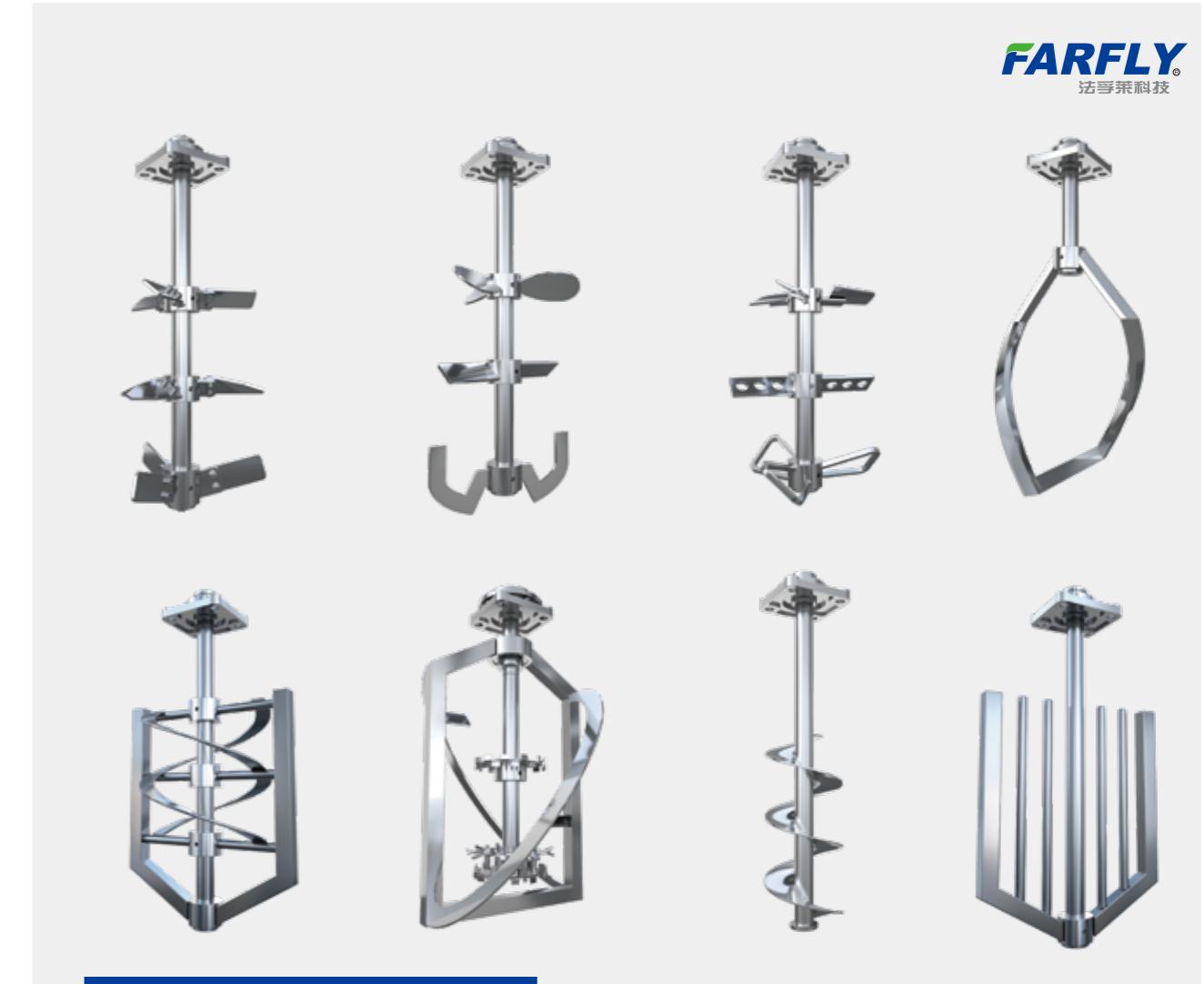
Type/Parameter	Bowlsizes (Dia.×Dep)	Working volume		Power	Agitating speed on own axis	Orbital/scraping speed	Raising/lowering stroke	Vacuum
		Full volume (L)	Working volume (L)					
FXJ-2L	Φ180×120/150	3/3.8	2	0.37~0.75	0~100	0~60	220	-0.098~0.08
FXJ-5L	Φ240/288×180	8/11.7	5	0.55~1.5	0~100	0~60	270	-0.098~0.08
FXJ-100L	Φ600×460/500	130/140	100	4~11	0~100	0~60	560	-0.098~0.08
FXJ-200L	Φ720/750×650	265/287	200	7.5~15	0~80	0~50	750	-0.098~0.08
FXJ-500L	Φ1000×380	650	500	15~37	0~60	0~40	930	-0.098~0.08
FXJ-1000L	Φ1250×1000	1227	1000	30~55	0~50	0~30	1100	-0.098~0.08



## FXDJ DOUBLE PLANETARY MIXER

### PRINCIPLE »»

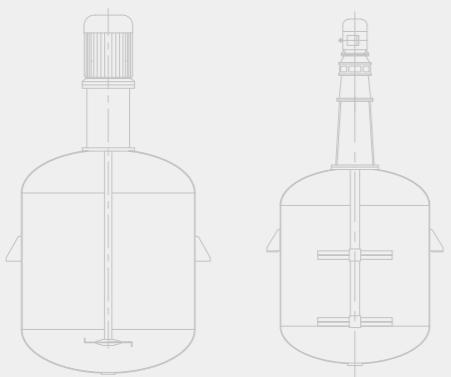
FXDJ double planetary mixer is an advanced equipment used for material dissolution, mixing, kneading and reaction process. It is composed of the reduction motor, the cover, the planetary frame, the mixer, the scraper, the barrel, the double-column hydraulic lifting system, the vacuum system and the frame. It is a new and efficient mixing device developed on the basis of absorbing advanced technologies in domestic and overseas. It is suitable for mixing materials in the chemical, cosmetic, pharmaceutical and other industries.



### CHARACTERISTICS »»

- **Efficient mixing:** There is a scraper on the planetary frame that rotates with the planetary frame, close to the barrel wall and continuously scrapes it, so that there is no retained material on the barrel wall and the mixing effect is improved.
- **Flexible mixing time adjustment:** The mixing time is controlled by the user according to the properties of the material and can be adjusted through the control panel.
- **Easy to operate:** The cover and planetary agitator are lifted and lowered by double-column hydraulic pressure, which makes the operation smooth, fast and easy.
- **Applicable to vacuum environment:** This device can work under vacuum and can continuously discharge water and other substances. Therefore, it can be used as a degassing kettle.
- **Multiple heating methods:** materials can be heated or cooled by oil or water circulation as needed; steam heating is also possible. The heating temperature is displayed by the temperature controller on the control panel.
- **Wide range of applications:** Since this device has good mixing, shearing and dispersing effects, it is particularly suitable for dispersing and mixing solid-solid material, solid-liquid material, and liquid-liquid material, so it is used in chemical, food, light industry, pharmaceutical, building materials and other industries.

Type	Stirring power	Revolution/ rotation speed	Dispersion power	Dispersion speed	Lifting power	Vacuum pump power
	(Kw)	(rpm)	(Kw)	(rpm)	(Kw)	(Kw)
FXDJ-2	1.5	0~90/230	1.5	0~2000	0.75	0.37
FXDJ-10	2.2	0~65/170	3	0~2000	1.5	0.55
FXDJ-50	5.5	0~65/170	7.5	0~1500	1.5	1.5
FXDJ-300	15	0~65/170	22	0~1500	2.2	2.2
FXDJ-500	22	0~30/98	30	0~1500	3	4
FXDJ-1000	45	0~30/98	55	0~1500	3	7.5



## FDK DISPERSING KETTLE & FTC TINTNG KETTLE



### CHARACTERISTICS »»

- 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.

### APPLICATION AREA »»

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.

Type/Parameter	Diameter	Height of dispersing kettle	Height of Paint mixing kettle	Dispersing kettle power	Dispersing kettle speed	Paint mixing kettle power	Paint mixing kettle speed
	(mm)	(mm)	(mm)	(Kw)	(rpm)	(Kw)	(rpm)
500L	800	1000	1060	11	0~1450	1	112
1000L	1000	1250	1400	15	0~1450	2	112
2000L	1400	1540	1575	30	0~1450	4	112
3000L	1500	1880	1750	37	0~1450	5	88
4000L	1600	2180	2125	45	0~1450	7	88
5000L	1800	2235	2125	55	0~1450	11	88
6000L	1900	2360	2475	75	0~1450	11	88
8000L	2000	2720	2725	90	0~1000	15	88
10000L	2200	2820	3050	110	0~1000	18	65

## FS MULTI-FUNCTION DISPERSING KETTLE

### CHARACTERISTICS »»

- Scraping wall is alternative for low speed stirring.
- Dispersing disc, emulsifying head and screw are alternative for high speed disperser.

### APPLICATION AREA »»

- FS model multi-purpose dispersing kettle integrates the low speed strong stirring and high speed dispersing onto one body. It has very good adaptability to middle and high viscosity and thixotropic material. To mix and disperse at the same time can obtain the ideal result.
- The machine is suitable for stirring, dissolving, dispersing and color mixing many kinds of materials. It features easy operation and strong adaptability as an ideal stirring and dispersing multi-purpose equipment.



Type/Parameter	Capacity	Stirring power	Stirring speed	Dispersing power	Dispersing speed
	(m³)	(Kw)	(rpm)	(Kw)	(rpm)
FS-1	1	4	50	11/15	960/1450
FS-2	2	5.5	50	15/22	960/1450
FS-3	3	5.5	50	18.5/30	960/1450
FS-5	5	7.5	50	22/37	960/1450
FS-8	8	11	41	30/45	970/1470
FS-10	10	15	41	37/55	970/1470
FS-15	15	22	41	45/75	750/1480

# MIXING REACTION KETTLE

## CHARACTERISTICS »»

FARFLY can design and make mixing reaction kettle according to actual needs of clients, including installation method, material, rotation speed, speed control method, explosion prevention etc. Additionally, various dispersing discs can be changed to meet different requirements of dispersing and mixing.

## APPLICATION AREA »»

The reaction kettle is the equipment which realizes chemical reaction in industrial production of chemical, petroleum and pharmacy. There are two types: open-type and closed-type.

### ◎ HEATING MEANS:

Electrical heating, steam heating

### ◎ COOLING (HEATING)

Interlining, internal coil, external coil

### ◎ SEAL:

Mechanical seal, magnetic seal, packing seal

### ◎ FRAME:

Single-fulcrum, double-fulcrum

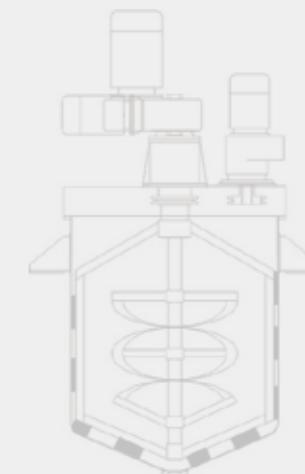
### ◎ MIXER:

Paddle, frame, turbine, push-type, screw helix ribbon type, etc.



Mixing reaction

# LACQUER MIXER



## CHARACTERISTICS »»

This machine is a concentric double shaft structure equipment. suitable for stirring and mixing high viscosity materials, such as lacquer, texture coatings etc. When mixing the materials, the central mixing shaft evolved to double ribbon mixer, while the outer shaft evolved to frame mixer with scrapper, the combination of two type of mixing make the materials do complex three dimensional movements, thus achieving the result evenly mixing of high viscosity materials.

Type/Parameter	Power of ribbon belt (Kw)	Speed of ribbon belt (rpm)	Power of frame blade mixer (Kw)	Speed of frame blade (rpm)
0.7m <sup>3</sup>	7.5	0~85	2.2	16
1m <sup>3</sup>	7.5	0~85	2.2	16
2m <sup>3</sup>	18.5	0~85	5.5	16
3m <sup>3</sup>	30	0~58	7.5	12
5m <sup>3</sup>	37	0~58	7.5	12
8m <sup>3</sup>	45	0~58	11	12
10m <sup>3</sup>	55	0~58	11	10
15m <sup>3</sup>	75	0~58	15	10
20m <sup>3</sup>	110	0~50	30	10

## FG TRIPLE-ROLLER MILL



### PRINCIPLE »

The triple-roller mill is mainly used in paint, printing ink, pigment, plastic, etc., especially milling and dispersing products with high viscosity and small granularity. The grinding effect is achieved by squeezing the surfaces of three horizontal alloy rollers and friction at different speeds. It is sprocket driven, the gear is immersed into lubricant, so the service life of the machine is maximally prolonged, noise and energy consumption are reduced. The roller is made of wear-resistant alloy steel and has a long life.

Type/Parameter	Roller diameter	Working length	Speed Slow	Speed Middle	Speed Fast	Motor power	Overall size	Weight
	(mm)	(mm)	(rpm)	(rpm)	(rpm)	(Kw)	(mm)	(Kg)
FG150	150	300	26	78	205	2.2	980×750×915	500
FG260	260	675	24	68.5	195	7.5	1750×1400×1180	2000
FG406	406	810	16	48	145	15	2100×1900×1360	5300
FG406L	406	1000	16	48	145	22	2530×1778×1320	5800

## FYG TRIPLE-ROLLER MILL



### PRINCIPLE »

This machine adopts a three rollers grinder controlled by hydraulic pressure from double-impeller pump. The basic work of machine such as feeding, discharging and size of material is controlled by hydraulic pressure. This system offers a high degree of automation and is user-friendly in operation.

Type/Parameter	Roller diameter	Working length	Overall size	Motor power	Hydraulic motor power	Hydraulic system	Weight
	(mm)	(mm)	(mm)	(Kw)	(Kw)	(MPa)	(Kg)
FYG400With hopper	400	1300	2634×1750×2295	55	1.5×2	6.3×2	5200
FYG400Without hopper	400	1300	2634×1750×1600	55	1.5	6.3	4800
FYG260	260	650	1600×1280×1260	22	1.5	6.3	2000
FYG150	150	300	950×950×1080	3	0.375	6.3	520

## FSA HIGH-SHEARING EMULSIFIER



### PRINCIPLE »

The dispersing emulsifier is forming high frequency, strong tangential velocity and angular velocity by high speed and steady rotation of the rotors. under the action of the stator, a strong, reciprocating hydraulic shear, friction, centrifugal extrusion, and liquid flow collision are formed in the reasonable and narrow gap between the stator and the rotors. It is suitable for efficient dispersing and mixing of solid and liquid materials.



Parameter/Type	FSA500	FSA1000	FSA2000	FSA3000	FSA4000	FSA5000
Power(Kw)	7.5	15	22	30	37	45
Handling capacity(L)	500	1000	2000	3000	4000	5000
Speed(rpm)	2900	2900	1450	1450	1450	1450

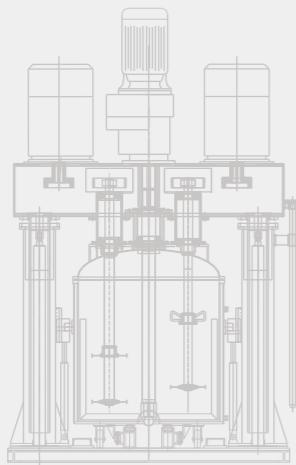
## FSY HIGH-SHEARING EMULSIFIER



### CHARACTERISTICS »

- Using electric hydraulic lifting
- Simple, fast and flexible movements
- Can be matched with pull cylinder and pull cylinder fixing device
- Suits for medium and large batch production

Type/Parameter	Power	Handling capacity	Speed	Overall size
	(Kw)	(L)	(rpm)	(mm)
FSY11	11	600	2900	1600 x 900 x 2000
FSY22	22	1000	1440	2100 x 1100 x 2400
FSY37	37	2000	1440	2300 x 1100 x 2600
FSY55	55	3000	980	2700 x 1400 x 2800



## FQLF POWERFUL DISPERSING MACHINE

### CHARACTERISTICS »»

Strong disperser is kind of high efficient and multi-function, homogenizer mixing machine. It is the main equipment for glass glue, and widely use in the fields of adhesive, silicone sealant, silicone structural adhesive, black glue, weather resistant adhesive, mould proof glass glue, cosmetics, chemical product, battery, food, medicine and plastic industry.etc.

Strong disperser has three motors and three different type agitators in the kettle. One of the agitators rotates on the axis of the kettle body, and the other two mixing devices rotate at a high speed around the axis of their own. Cause the material to make the complex movement in the kettle, and subjected to the intense shearing and rubs together. The crapper rotates around the axis in the machine kettle, scraping out the pastes on the wall and at the bottom, making the effect more ideal. Good seal and de-foaming effect, it can make into vacuum type. The tank cover can hydraulic lifting, tank is moveable and easy operate. The type of agitator can use multilayer blades, frame, butterfly, impellers ...etc according to the materials' request. Usually adopt the inverter to adjust speed and can satisfy all kinds of technical request.



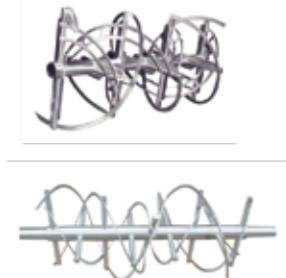
Type	Capacity (L)	Power (Kw)	Power (Kw)	Speed (rpm)	Speed (rpm)
FQLF-600	600	11	22×2	0~40	0~1405
FQLF-800	800	15	22×2	0~40	0~1405
FQLF-1000	1000	18.5	30×2	0~40	0~1405
FQLF-1500	1500	22	30×2	0~40	0~1000
FQLF-3000	3000	30	37×2	0~40	0~1000
FQLF-5000	5000	45	55×2	0~40	0~1000



## FLD RIBBON MIXER

### PRINCIPLE »»

The horizontal ribbon mixer comprises U-shaped 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 convective mixing. The ribbon mixer has a good effect on the mixing of viscous or cohesive powders and granules, as well as the mixing of liquid and paste materials in the powders and granules. The cylinder cover can be fully open so as to clean and change the device.



Type/Parameter	Spec (m³)	Working capacity	Power (Kw)	Speed (rpm)	Overall size		Weight (Kg)	
					(mm)	(mm)		
FLD0.5	0.5	0.4~0.6	5.5	66	1672	X 1142	X 1300	955
FLD1	1	0.4~0.6	11	41	1970	X 1437	X 1500	1400
FLD2	2	0.4~0.6	15	41	2480	X 1561	X 1830	2500
FLD3	3	0.4~0.6	18.5	33	2880	X 1895	X 2083	3300
FLD4	4	0.4~0.6	22	33	3026	X 1947	X 2235	3600
FLD5	5	0.4~0.6	30	26	3518	X 1945	X 2233	4620
FLD6	6	0.4~0.6	37	26	3905	X 1683	X 2286	5300
FLD8	8	0.4~0.6	45	26	4398	X 1960	X 3150	6800
FLD10	10	0.4~0.6	55	20	4500	X 2070	X 2667	8902
FLD12	12	0.4~0.6	55	20	4486	X 2250	X 2737	9520
FLD15	15	0.4~0.6	75	17	5363	X 2250	X 3070	9950

## FBE BAG FILTER

### PRINCIPLE »

The FBE series bag filter has a new structure: small volume, simple operation, high efficiency, closed working and strong adaptability. It is widely used in the chemical, coating, printing ink and food industries. This model includes the single filter and duplex filter, forming a complete set with the conveying pump unit assembled on the movable trolley. The bag filter inner protection net is made by stainless steel. There are two type of filters that can be chosen, one made of carbon steel and the other made of stainless steel.



## FWG FILLING MACHINE



### CHARACTERISTICS »

- Adopting gravity filling, high measuring precision, not affected by materials.
- Fast and slow feeding valve greatly improves the filling speed and accuracy.
- Wide measuring range and the accuracy is  $\pm 10\text{g/barrel}$ .
- Filling nozzle adopts anti-leak device, air-free in the filling material.
- Automatic feeding and filling, equipped with pneumatic nipping and capping set.
- Can use multi-head to satisfy different capacity.



## APPLICATION AREA »

This machine mainly used to fill coating, ink, paint, bitumen, glue, lubrication in the field of oil industry, fine chemicals.

## FVE VIBRATION SCREEN

### PRINCIPLE »

Suitable for the thickness of various dry and wet materials in coatings and other industries, solid-liquid separation, all kinds of powder and mucus are applicable. It has the characteristics of the mesh is not easy to be blocked, the screen is easy to change and clean, the operation is simple, the noise is low when working, and the maneuverability is good when used.



Type/Parameter	Filling range	Filling speed	Rate of accuracy	Accuracy	Power	Air source	Ambient temperature
	(Kg)	(time/h)					
FWG5	0.5-5	160-240	0.25	$\pm 0.2\%$		Flux	
FWG10	2-10	160-240	0.25	$\pm 0.2\%$	AC220V	0.1m <sup>3</sup> /min	0°C~40°C
FWG30	10-30	160-240	0.25	$\pm 0.2\%$	/50Hz $\pm 2\text{Hz}$	Pressure	
FWG50	10-50	160-240	0.25	$\pm 0.2\%$		0.4~0.6MPa	



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## AFVG AUTO-VOLUMETRIC FILLING MACHINE

### FUNCTION »»

It is used for filling various fluid materials. Functional components can be selected according to different needs.

### APPLICABLE INDUSTRIES »»

food, pharmaceuticals, daily chemicals, fine chemicals, petroleum, coatings and inks, etc.

### MAJOR COMPONENT »»

It is composed of components such as racks, systems, drip-proof and leak-proof liquid collection devices (optional), metering adjustment systems, electrical control, etc. ;

### FILLING METHOD »»

It adopts weight-based quantitative filling, and the filling head has fixed filling and lifting submersible filling (optional);

### CONTROL SYSTEM »»

It adopts weight-based quantitative filling, and the filling head has fixed filling and lifting submersible filling (optional);

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## AFWG AUTO-GRAVIMETRIC FILLING MACHINE

### FUNCTION »»

It is used for filling various fluid materials. Functional components can be selected according to different needs.

### APPLICABLE INDUSTRIES »»

food, pharmaceuticals, daily chemicals, fine chemicals, petroleum, coatings and inks, etc.

### MAJOR COMPONENT »»

The equipment is composed of the following parts: loading the barrel, positioning and conveying, quantitative filling, attaching the cap, pressing the cap, supplying the pallet for stacking, and electrical control;

### FILLING METHOD »»

It adopts weight-based quantitative filling, and the filling head has fixed filling and lifting submersible filling (optional);

### CONTROL SYSTEM »»

It uses PLC and human-machine interface for operation and display, with high control accuracy, good stability, and convenient operation and use.

Model		AFVG0.5			AFVG5		
Max.capacity	ml	100	250	500	1000	3000	5000
Filling range	ml	50-100	100-250	250-500	500-1000	1000-3000	3000-5000
Accuracy	%	±1					
Filling heads		6、8、12、24					
Pressure	Mpa	0.4-0.6					
Air consumption	m³/h	1.5-2.0					
Optional function		Bottle feeding, Conveyor, Lid feeding, Cap Sealing, (Pressing) Machine, Labeling machine, Aluminum Foil Sealer, Printer, worktable, Bottle collection machine, Packing and boxing machine, Heat shrink film machine					

Model		AFWG10	AFWG30	AFWG50
Max.capacity	Kg	10	30	50
Filling range	Kg	1-10	10-30	30-50
Accuracy	%	±0.2		
Filling heads		Double heads,multi-heads		
Pressure	Mpa	0.4-0.6		
Air consumption	m³/h	1.5-2.0		
Inlet		DN50		
Optional function		Labeling machine, hopper ,Nitrogen charging operation,Leakage holding system,Conveyor,Lid distributing ,lid feeding,lid pressing,Printer,Palletizing,Wrapping		

# FVG FILLING MACHINE

## CHARACTERISTICS »»

- Fully pneumatic control, meets explosion-proof requirements.
- Precise volume measurement and fast filling speed
- Excellent adaptability to low, medium and high viscosity liquids.
- Suitable for filling round, square and oblate can of different sizes and diameters.
- With replaceable filling heads, avoiding leaking and splashing.
- Equipped with hopper fluid level controller, automatic feeding is available.
- With convenient and practical foot switch.



Type/Parameter	Material(paint) viscosity	Filling range	Accuracy	Air consumption	Capacity	Overall dimension
	(cps)	(ml)	(ml)	(m³/h)	(can/min)	(mm)
FVG500	≤3000	50-250	±3	0.5~1	10-15	1520×1000×1600
FVG5000	≤3000	500-5000	±6	0.5~1	5-8	1700×1000×1600

# FQG FILLING MACHINE

## CHARACTERISTICS »»

- Live view of weighing value.
- Formulation can be set and stored.
- Filling head stretch into the bottom of the can, and rise slowly when filling.
- Filling head automatically returning if improper can opening.
- Especially suitable for cans with small opening or materials producing bubbles easily.
- With two operating methods (automatic/manual).
- With two feeding speeds (fast/slow).
- Automatic control of feed pump function.



Type/Parameter	Filling range	Filling speed	Rate of accuracy	Accuracy	Power	Air source	Ambient temperature
	(ml)	(time/h)					
FQG30	2.5-30	160-200	0.25	±20G	AC220V / 50Hz±2Hz	0.1m³/min 0.4~0.6MPa	0°C~40°C

# FDF FILLING MACHINE



## CHARACTERISTICS »»

- Normal type or Lift and dive filling type.
- Live view of weighing value.
- Recipe can be set and stored.
- Filling quick/slow two grades of speed.
- Automatic control of feed pump function.



## APPLICATION AREA »»

Coatings, paints, printing ink, pastern, hardening agents, organic solvents, cosmetics, detergents, pesticides, medicine, lubricants, edible oil and all kinds of fluid liquid.

Type/Parameter	Max. weight	Filling range	Filling precision	Filling speed	Filling temperature	Power	Air source
	(Kg)	(Kg)		(d/h)			
FDF100	100	50-90	±2%	100-180	0-180°C	AC220/380V	0.1m³/min
FDF300	300	100-300	±2%	50-60	0-180°C	50Hz	0.4~0.6MPa
FDF1000	1000	200-1000	±2%	10-30	0-180°C		

# FBG SEMI-AUTOMATIC HORIZONTAL HARD TUBE FILLING MACHINE



## FAG FULLY AUTOMATIC DOUBLE-HEAD VERTICAL TUBE FILLING MACHINE

### PRINCIPLE »

FAG Automatic quantitative filling machine is developed by our company based on the absorption of foreign advanced technology, aiming to improve filling efficiency and accuracy. It is mainly composed of bottle unscrambler, touch screen, cylinder, servo motor, etc. It is widely used in chemical, pharmaceutical and food industries, suitable for filling various plastic bottles with various pastes, greases, sealants, glass glue, etc.

### CHARACTERISTICS »

- Automated operation:** automatic control, users only need to manually add bottles and bottom caps, the equipment automatically supplies bottles/automatically quantitatively fills, automatically covers/automatically presses caps/automatically unloads materials, greatly improving production efficiency.
- Intelligent control:** The whole machine adopts PLC controller and touch screen, strict precision control and processing technology of various transmission parts, the equipment is stable and responsive.
- Accurate quantitative filling:** volumetric metering cylinder is adopted, and servo motor controls quantitative. The filling metering accuracy is high (error 0.5%), and the metering parameters are adjusted by touching the screen.
- Material filtration:** material filtration function, standard filtration device.
- Modular design:** bottle unscrambler ----filling and capping machine ----cap unscrambler.

Type	Power Supply	Air Supply	Air Consume	Filling Volume	Volume Precision	Productivity	Tube Diameters	Dimensions	Weight
	(V/Hz)	(Mpa)	(min)	(ml)	%	(pcs/min)	(mm)	(Kg)	
FAG300	380/50	<0.5	<0.3m <sup>3</sup> /min	MAX310 Can be adjusted	≤±0.5%	15-35	Customized	3700*950*1900	550

### PRINCIPLE »

Semi-automatic horizontal tube filling machine is a widely used equipment in industrial production, mainly used to accurately and efficiently fill liquid or semi-fluid materials into tube containers. The machine mainly consists of a quantitative cylinder assembly, a touch screen control panel, a vibration plate controller, an air inlet, a lid opening seat, a vibration plate, a lid opening tray, and a lid lowering track. It is widely used in food, medicine, cosmetics and chemical industries, and is suitable for the filling needs of various liquid and semi-flu-

### CHARACTERISTICS »

- Easy operation:** The operation process is simple, easy to maintain and clean, and the user experience is good.
- Space saving:** Beautiful appearance, small footprint, and firm sealing.
- Intelligent control:** The whole machine adopts touch screen, strict precision control and processing technology of various transmission components, and the equipment is stable and responsive.

Type	Power Supply	Gas consumption	Filling volume	Power	Measuring accuracy	Production capacity	Dimensions	Weight
	(V)	(Mpa)	(ml)	(Kw)	%	(pcs/min)	(mm)	(Kg)
FBG	220/380	0.6	0-500	2.5	≤±0.5	10-30	1450*1100*1560	380

# FRG AUTOMATIC QUANTITATIVE SOFT PACKAGING MACHINE



## PRINCIPLE »

FRG Automatic quantitative soft packaging machine. Our company developed this machine based on the absorption of foreign advanced technology. It consists of the controller, touch screen, air cylinder, servo motor, etc. It is widely used in the chemical, pharmaceutical, and food industries. It is suitable for filling various plastic film/aluminum film hoses with various pastes, greases, sealants, etc.

## CHARACTERISTICS »

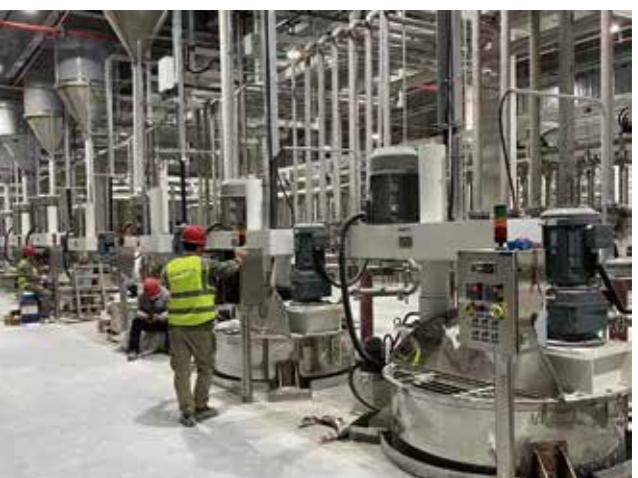
- **Automated operation:** Automatic control, simple operation, aluminum film forming/heat sealing/coding/quantitative filling/buckle clamped/cutting/unloading each workstation can be completed by one device, only one person is needed.
- **Intelligent control:** The whole machine adopts a PLC controller and touch screen, strict precision control, and processing technology of each transmission component. The equipment is stable and responds quickly.
- **Fast hydraulic discharging:** The hydraulic discharging method ensures the discharging efficiency and stability of high-viscosity materials, with fast discharging speed and easy maintenance.
- **High flexibility:** The quantitative cylinder system is controlled by a servo motor. The filling accuracy is high and the filling volume can be adjusted at any time on the screen.
- **Good stability:** The servo motor is used to control the mechanical buckle forming system, which has good stability and high speed.

Type	Power Supply	Air Supply	Air consumption	Filling Volume	Volume accuracy	Productivity	Tube Diameters	Dimensions	Weight
	(V/Hz)	(Mpa)	(min)	(ml)	%	(pcs/min)	(mm)	(mm)	(Kg)
FRG	220/380/50	0.6-0.8	<0.3m3	MAX600可调	≤±0.5	10-25	Φ44/46/48	3700*950*1900	550

# FCT COATING PRODUCTION LINE

## CHARACTERISTICS »

- FCT automatic coating production line, including FCT-1000, FCT-3000 and FCT-10000. Other specifications can be customized according to different investment status, requirements as well as actual production needs.
- The FCT series paint complete equipment adopts German technology and the domestic leading basket dispersion grinding technology. It has high grinding efficiency and good dispersion effect. It realizes continuous production from batching, dispersion grinding to finished product filtration and packaging, greatly reducing labor intensity. Improve product quality.



# FCT SPECIFICATION

## FCT1000 COATING COMPLETE PRODUCTION LINE

S/N	Equipment	Specification	Quantity	Remark
1	Powder measuring system		1 set	Optional
2	Liquid measuring system		1 set	Optional
3	Dispersing kettle	500L, 700L	1 set	
4	Basket mill	18.5Kw	1 set	
5	Paint mixing kettle	700L,1000L	1 set	
6	Mixer	4Kw	1 set	
7	Filter	0.5m <sup>2</sup>	1 set	
8	Filling machine		1 set	Optional
9	Water treatment system		1 set	Optional
10	Vacuum system		1 set	Optional
11	Platform		1 set	
12	Pipeline		1 set	
13	Electric control system		1 set	

## FCT5000 COATING COMPLETE PRODUCTION LINE

S/N	Equipment	Specification	Quantity	Remark
1	Powder measuring system		1set	Optional
2	Liquid measuring system		1set	Optional
3	Dispersing kettle	1000L,1500L,2000L	1set	
4	Dispersing machine	18.5Kw,30Kw,37Kw		
5	Grinding kettle	1000L,1500L		
6	Basket mill	22Kw,30Kw	1set	
7	Paint mixing kettle	1500L,2000L,3000L	2sets	
8	Mixer	4Kw,4Kw,5.5Kw	2sets	
9	Filter	0.5m <sup>2</sup>	2sets	
10	Filling machine		1set	Optional
11	Water treatment system		1set	Optional
12	Vacuum system		1set	Optional
13	Platform		1set	
14	Pipeline		1set	
15	Electric control system		1set	

## FCT3000 COATING COMPLETE PRODUCTION LINE

S/N	Equipment	Specification	Quantity	Remark
1	Powder measuring system		1 set	Optional
2	Liquid measuring system		1 set	Optional
3	Dispersing kettle	700L,1000L,1500L	1 set	
4	Basket mill	18.5Kw,22Kw,30Kw	1 set	
5	Paint mixing kettle	1000L,1500L,2000L	1 set	
6	Mixer	4Kw,4Kw,5.5Kw	1 set	
7	Filter	0.5m <sup>2</sup>	2sets	
8	Filling machine		1 set	Optional
9	Water treatment system		1 set	Optional
10	Vacuum system		1 set	Optional
11	Platform		1 set	
12	Pipeline		1 set	
13	Electric control system		1 set	

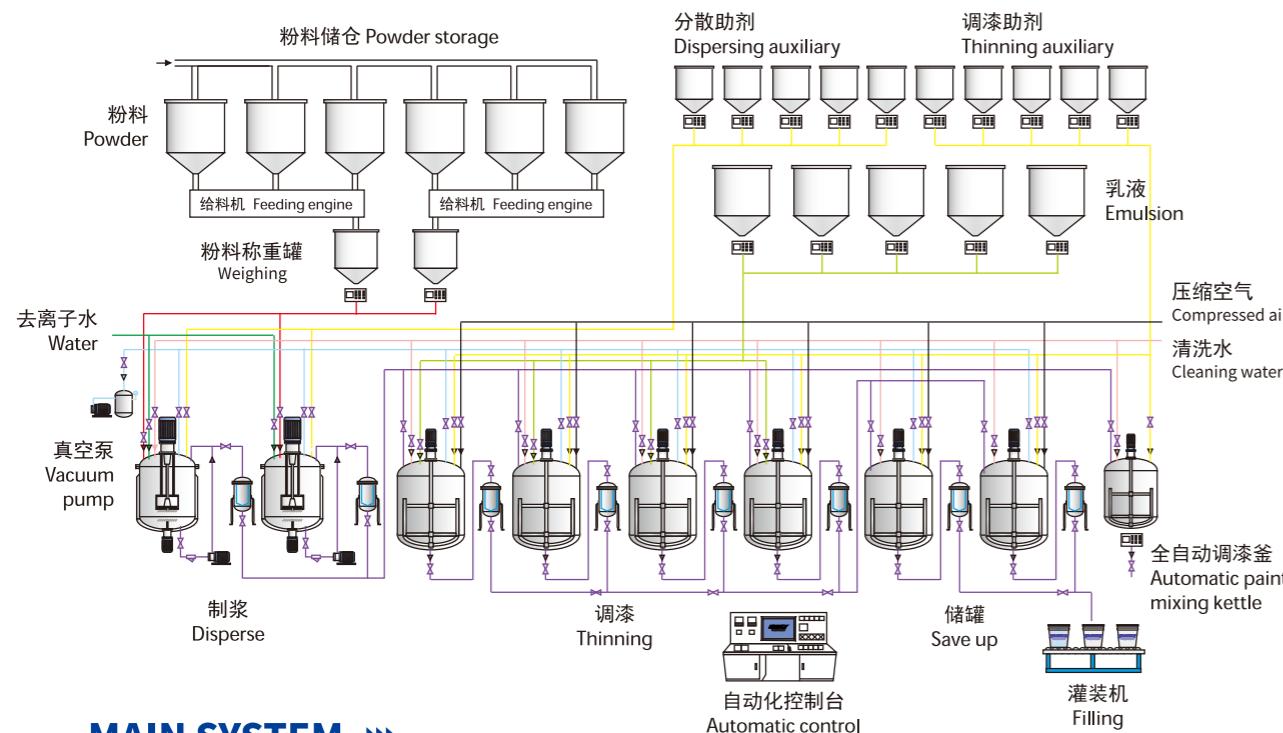
## FCT10000 COATING COMPLETE PRODUCTION LINE

S/N	Equipment	Specification	Quantity	Remark
1	Powder measuring system		1set	Optional
2	Liquid measuring system		1set	Optional
3	Dispersing kettle	1500L,2000L	1set	
4	Basket mill	22Kw,30Kw	2sets	
5	Paint mixing kettle	2000L,3000L,3000L	3sets	
6	Mixer	5.5Kw,5.5Kw,7.5Kw	3sets	
7	Filter	0.5m <sup>2</sup>	3sets	
8	Filling machine		1set	Optional
9	Water treatment system		1set	Optional
10	Vacuum system		1set	Optional
11	Platform		1set	
12	Pipeline		1set	
13	Electric control system		1set	

# AUTOMATIC COATING PRODUCTION LINE

## CHARACTERISTICS »»

- Suitable for middle-scale or large-scale production. Designing yearly output is 10000-100000 Tons.
- Providing different equipment configuration according to different production requirements. Each system is optional.



## MAIN SYSTEM »»

- Material measure system(material tank,feeding engine,weighing unit,dust removing system,detecting system)
- Powder transport system (gas generator, draught fan or chapelet,for enclosed material handling)
- Dispersing and milling system(dispersing kettle,basket mill,disperser)
- Thinning system(thinning tank,agitator)
- Filter system(bag filter,back purge system)
- Filling system(automatic filling and sealing machine)
- Vacuum system(vacuum pump,vacuum buffer)
- Compressed air system(air compressor,pressure release valve)
- Water treatment system(automatic water treatment)
- Cooling water system(water tank,pump,flowmeter)
- Automation and management system(PLC,human-computer interface,computer,sensor,meter)
- Pipeling system(pipe,valve,flane)

# COMPLETE PAINT PRODUCTION LINE

## APPLICATION AREA »»

FARFLY is dedicated to designing, manufacturing, purchasing, installing and setting up all kinds of paint production lines for customers. Our own equipment covers the main parts of common paint production equipment, including dispersing machine, mills, mixers, filters, filling machine, etc. We are also able to offer steel-structure construction, pipeline installation, electrical fitting and so on. Meanwhile, we can purchase various pumps, valves as per customers' actual requirements. For those years, FARFLY has built a number of production lines for customers such as wood paint, industrial paint, and anticorrosive paint.



# LAB DISPERSING MACHINE

## APPLICATION AREA »»

Suitable for all kinds of paints, coatings, paints, plastics, food and other liquid, paste production early experiments.



Type/Parameter	Power	Power supply	Handling ability	Speed	Material	Disc	Lift height	Overall size	Weight
	(Kw)	(V/Hz)	(ml)	(rpm)			(mm)	(mm)	(Kg)
SDF550	0.55	220/50	200~10000	200~5100	ss304	Dispers:Φ50, Φ60 Mill:Φ45 Φ60	300	450×500×800	25
BPF-H	0.75/ 1.1/2.2	220/50 380/50	5000~80000 0~3000	0~1500/ 0~3000	ss304	Φ100、Φ120、 Φ150	500- 600	720×600×1320mm/ 720×650×1450mm	176

# FTM-L LAB BASKET MILL

## CHARACTERISTICS »»

- Frequency stepless speed control, digital display.
- Basket can be made of polymer material, solvent-proof, and white material won't change color while milling.
- Basket can be dismantled, convenient to clean.



Type/Parameter	Power	Voltage	Speed	Handling capacity	Milling medium	Overall size
	(Kw)	(v)	(rpm)	(L)	(mm)	(mm)
FTM-L	0.75	220/380	0~2800	1.2~3	1.6~1.8	550×470×900

# FSP-L LAB NANO SAND MILL

## CHARACTERISTICS »»

- The structure of machine is designed according the principle of the sand mill, the experimental results can be enlarged and can make production directly.
- With frequency inverter, the machine could adjust speed according to the process characteristics of the material, could collect optimum parameters.
- Such as temperature and pressure. The parameters controlled by PLC, can make sure the safety of production and the equipment run fully to meet the technological requirements.



- With imported diaphragm pump.
- Fineness 100nm.
- The whole structure is reasonable, running safety.

## APPLICATION AREA »»

Mainly used in color paste and pesticide formulation. It's suit for medical laboratories, biological research, cosmetic and colleges laboratories. Applied in the field of grinding and dissolving of liquid and liquid or solid and liquid with various viscosity levels.

Type/Parameter	Motor power	Barrel capacity	Milling medium	Overall size
	(Kw)	(L)	(mm)	(mm)
FSP-L	2.2	0.6	0.2-0.8	600×660×1000

# LAB SAND MILL

## APPLICATION AREA »»

The lab sand mill is widely used in laboratory in different industry, such as painting, ink, pesticides, operating simply, using conveniently.



FWE-L (DISC-TYPE)



FDS-L (PIN-TYPE)

Type/Parameter	Motor power	Barrel capacity	Milling medium	Overall size
	(Kw)	(L)	(mm)	(mm)
FWE-L	4	2	1.0-1.8	820×750×860
FDS-L	5.5	2	0.8-1.6	820×750×860

# CUSTOMER CASES

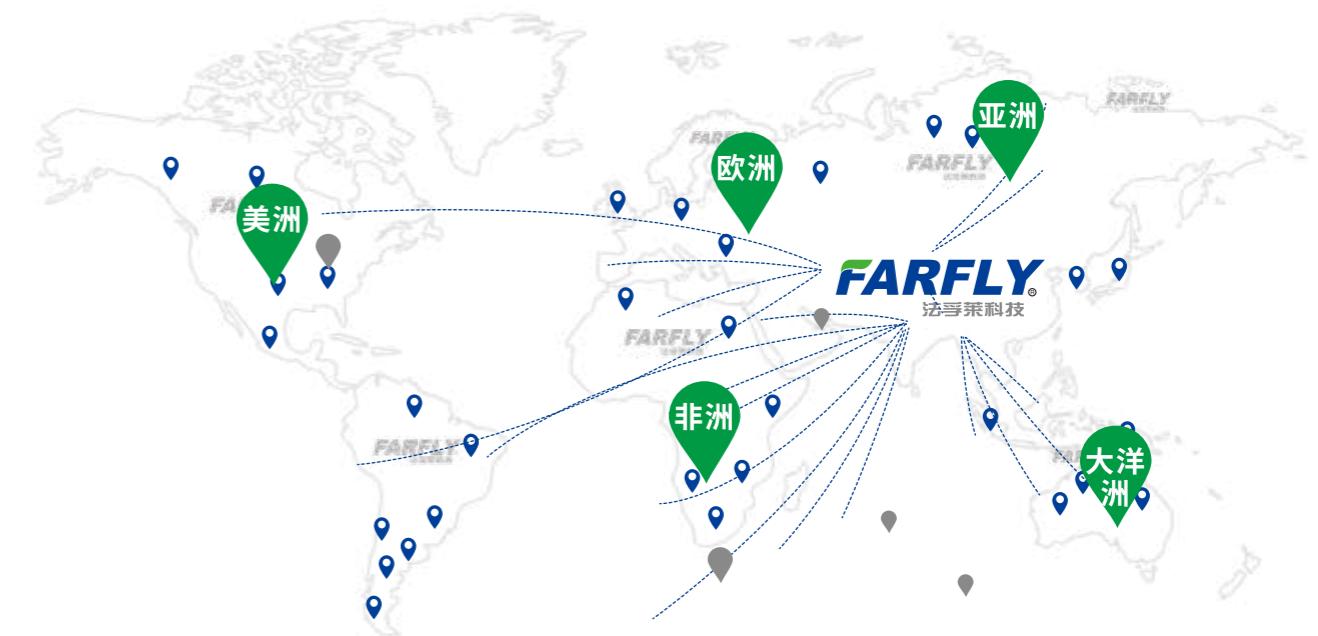


SOLUTION PROVIDER  
ENTERPRISE PARTNER

**FARFLY**  
法孚莱科技

FARFLY, together with our partners, has created numerous benchmark cases globally. To date, we have served over 5,000 enterprises, among which are many well-known Fortune Global 500 companies. Confronted with diverse customer demands and backgrounds, we draw on our rich experience to offer personalized solutions, guaranteeing the efficient resolution of problems. In this fast-evolving era, we at FARFLY fear no challenges. We are actively integrating emerging forces and working jointly to achieve remarkable success!

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