

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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All technical parameter are subject to change without notice



TikTok



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中国 · 上海
SHANGHAI, CHINA

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.

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

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.

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 2009, 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 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 2009, 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 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.

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

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.

2020年
In 2020, Annual sales amount exceed 100 million.

Annual sales amount exceed 100 million. In 2020,successfully won the EPC project of LANKWITZER new plant in Anhui , and completed the layout of the coating equipment for rail transit and auto parts. The Shuangta panit Co.,Ltd--- a wholly-owned subsidiary of Xiangjiang Group, was successfully delivered, shows the quality of benchmarking in anti-corrosion industry.

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. Become a high-tech enterprise.

2023年
Rated as a member of the China national Coatings Industry Association.

2024年
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.

2025年
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.

MAIN CUSTOMERS

FARFLY
法孚莱科技

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

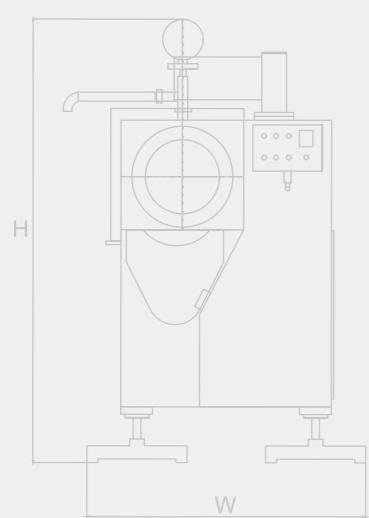
CHARACTERISTICS »»

- 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

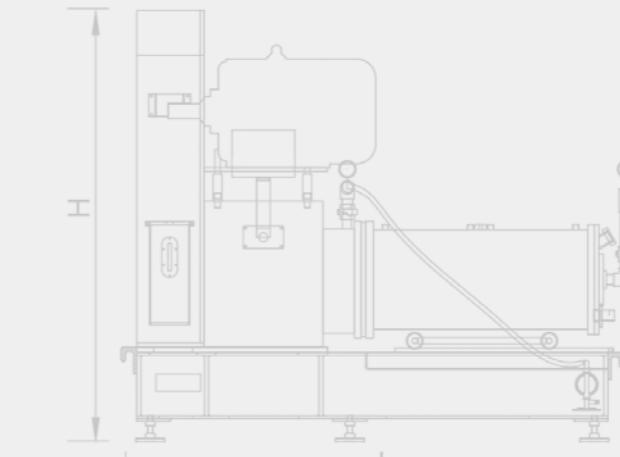


CHARACTERISTICS »

- 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

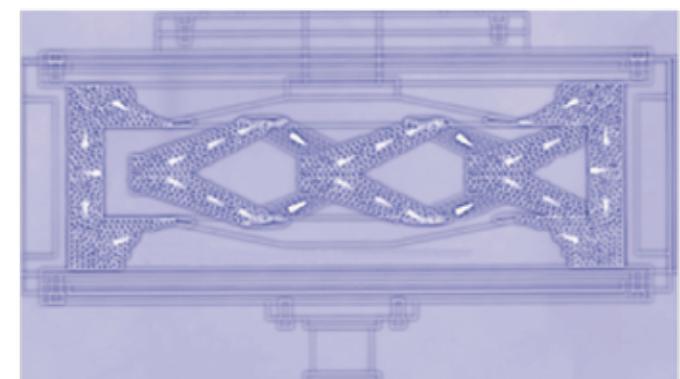
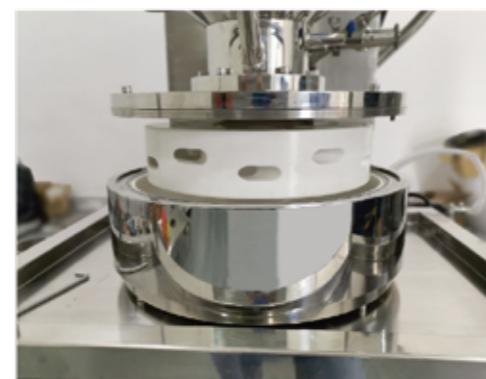


ADVANCED COOLING »»

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

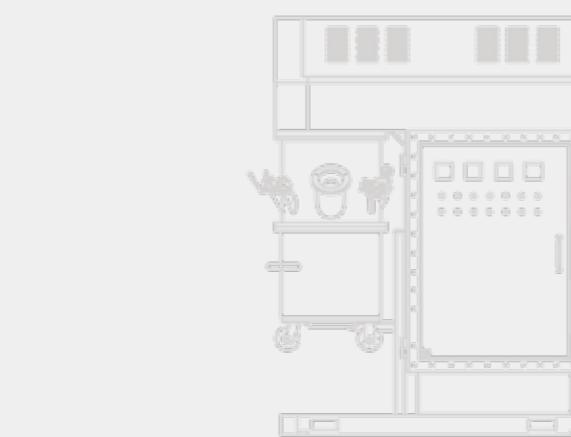
FYL HYDRAULIC DISCHARGING MACHINE

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



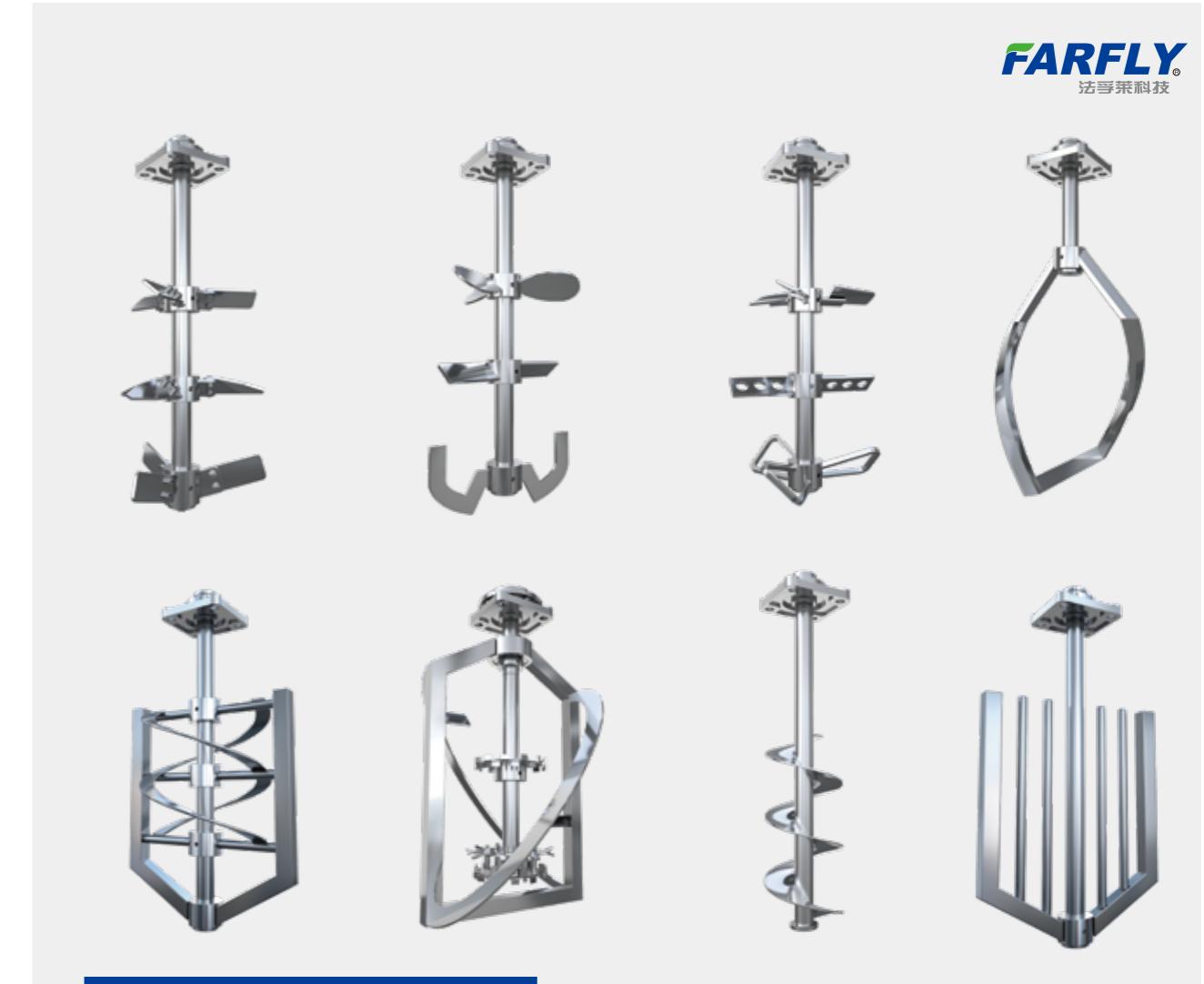
Type/Parameter	Bowlsizes (Dia.×Dep)	Working volume		Power	Agitating speed on own axis	Orbital/scraping speed	Raising/lowering stroke	Vacuum
		Full volume (L)	Working volume (L)					
FXJ-2L	Φ180×120/150	3/3.8	2	0.37~0.75	0~100	0~60	220	-0.098~0.08
FXJ-5L	Φ240/288×180	8/11.7	5	0.55~1.5	0~100	0~60	270	-0.098~0.08
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 »»

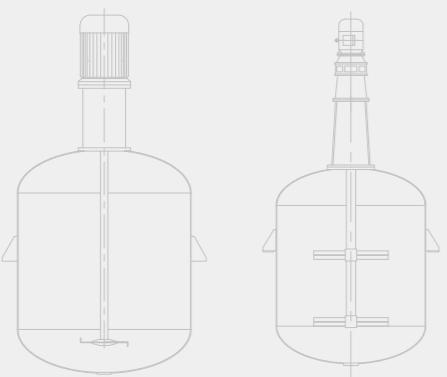
FXDJ double planetary mixer is an advanced equipment used for material dissolution, mixing, kneading and reaction process. It is composed of the reduction motor, the cover, the planetary frame, the mixer, the scraper, the barrel, the double-column hydraulic lifting system, the vacuum system and the frame. 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

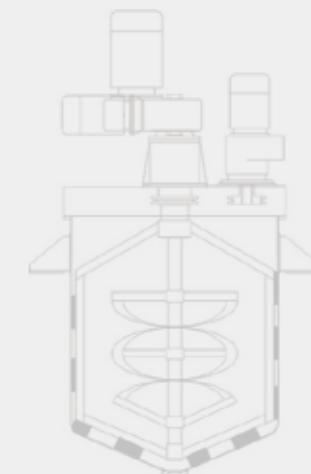
◎ MIXER:

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 ³	7.5	0~85	2.2	16
1m ³	7.5	0~85	2.2	16
2m ³	18.5	0~85	5.5	16
3m ³	30	0~58	7.5	12
5m ³	37	0~58	7.5	12
8m ³	45	0~58	11	12
10m ³	55	0~58	11	10
15m ³	75	0~58	15	10
20m ³	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

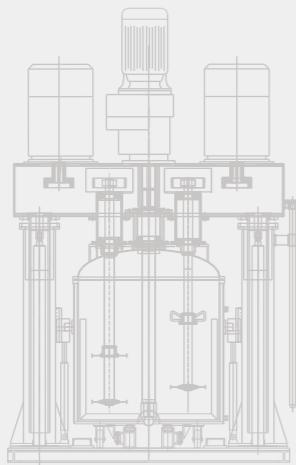
FSY HIGH-SHEARING EMULSIFIER



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.



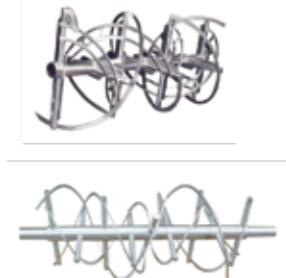
Type	Capacity	Power	Power	Speed	Speed
	(L)	(Kw)	(Kw)	(rpm)	(rpm)
FQLF-600	600	11	22×2	0~40	0~1405
FQLF-800	800	15	22×2	0~40	0~1405
FQLF-1000	1000	18.5	30×2	0~40	0~1405
FQLF-1500	1500	22	30×2	0~40	0~1000
FQLF-3000	3000	30	37×2	0~40	0~1000
FQLF-5000	5000	45	55×2	0~40	0~1000



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	Working capacity	Power	Speed	Overall size		Weight	
					(m³)	(Kw)		
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 ³ /min	
FWG30	10-30	160-240	0.25	$\pm 0.2\%$	/50Hz $\pm 2\text{Hz}$	Pressure	0°C~40°C
FWG50	10-50	160-240	0.25	$\pm 0.2\%$		0.4~0.6MPa	



FARFLY
法孚莱科技

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);

FARFLY
法孚莱科技



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		