

FA25 pro High Shear Dispersing Emulsifier

FLUKO®

FA25 pro is a high-performance disperser with intelligent speed control and speed compensation. The speed range is 2000~26000rpm and the processing capacity is 1~5000mL (water). A variety of dispersing agitators are available for use in a variety of processes, including dispersion, emulsification, homogenization, wet grinding, dissolution, suspension preparation, crushing and homogenization of animal and plant tissues. It can be used together with FLUKO's FISCO® series reactors to achieve dispersion and other operations under normal pressure, vacuum or positive pressure conditions.



FA25 pro

High Shear Dispersing Emulsifier

Order #	10090
Power supply	200~245V , 50/60Hz
Input power of motor	650W
Output power of motor	500W
Motor	Brushless DC
Processing capacity	1~5000mL
Maximum viscosity	8000cP
Range of speed	2000~26000rpm
Speed deviation	2%
Speed control	Stepless speed regulation
Speed display	TFT colorful LCD screen
Speed dynamic measurement and display	Yes
Torque dynamic monitoring and display	Yes
Noise (without agitator)	≤70dB(A)
Diameter of extension arm	14mm
Length of extension arm	168mm
Configuration of Standard agitator	S25G
Process Type	Batch Processing
External temperature sensor	PT1000
Temperature measurement range	-50~300℃
Dynamic temperature monitoring and display	Yes
Temperature measurement accuracy	0.1℃
Timing range	99h59m59s
Speed memory	Yes
Button lock and display	Yes
Host computer and data connection	Yes
Intermittent control	Yes
Intermittent program saving and loading	Yes
Allowable continuous operation time	100%
Allowable ambient temperature	5~40℃
Allowable ambient humidity	80%
Overheating protection	Yes
Protection level	IP30
Fault display	Yes
Identification of agitator installation	Yes
USB interface	USB Type-C
Bluetooth connection	Yes
Communication protocol	RS485
PC software	Flukolabsoft (USB or Bluetooth connection)
Shell material	Aluminum Alloy
Overall dimensions	220×350×720mm
Weight	~3.5kg
Package	Carton

Features of the equipment

- 500W silent brushless motor can avoid the risk of carbon powder pollution, extend the motor life and make the operation more quiet;
- Widely speed range: 2000~26000rpm;
- 2.8-inch LCD display, combined with panel buttons, makes operation more convenient;
- Provide process programming function, which can customize the working status and speed of the host according to parameters such as time and material temperature. Support multi-stage process host computer saving and loading, which is convenient for repeated program calls;
- Optional multiple agitators can be used to flexibly cope with different processing capacity and applications;
- Support single-machine control, software communication, PLC communication;
- Support RS485 connection, Bluetooth connection, remote control or paperless recording through software;
- With built-in anti-idling protection, motor overheat protection, motor overcurrent protection, one-key locking function, providing higher safety performance.

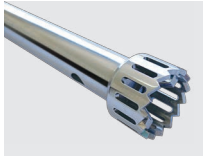
FA25 pro

Accessories Selection

Batch dispersion head (Table I)

	Order # Model	Tip Speed (m/s)	Working Capacity (mL)	Agitator Length (mm)	Maximum Working Temperature(°C)	Pressure Tolerance	Medium Contact Material	Features Applications
	Order #:1009 Model: S5G	5.2	0.5~10	118	180	No	PEEK、 316L	Suitable for dispersion, crushing and homogenization of animal and plant tissues.
	Order #:1010 Model: S8G	8.3	1~50	139	180	No	PEEK、 316L	Suitable for dispersion, crushing and homogenization of animal and plant tissues.
	Order #:1011 Model: S8G-ST	8.3	1~50	139	180	No	PEEK、 316L	Suitable for dispersing, crushing and homogenizing animal and plant tissues. The serrated agitator makes it easier to cut, tear and disperse fibrous materials.
	Order #:1012 Model: S10G	10.2	1~100	136	180	No	PEEK、 316L	Suitable for dispersion, crushing and homogenization of animal and plant tissues.
	Order #:1013 Model: S10G-ST	10.2	1~100	136	180	No	PEEK、 316L	Suitable for dispersing, crushing and homogenizing animal and plant tissues. The serrated agitator makes it easier to cut, tear and disperse fibrous materials.
	Order #:1014 Model: S18G	17.3	10~1500	225	180	No	PEEK、 316L	Suitable for processes with viscosity, such as solid-liquid mixing, oil-water mixing, cream preparation, emulsification polymerization, silicone oil emulsification, homogenization, etc.

Batch dispersion head (Table I)

Order # Model	Tip Speed (m/s)	Working Capacity (mL)	Agitator Length (mm)	Maximum Working Temperature(°C)	Pressure Tolerance	Medium Contact Material	Features Applications
 Order #:1015 Model: S18G-ST	18.2	10~1500	225	180	No	PEEK、 316L	Suitable for processes with viscosity, such as solid-liquid mixing, oil-water mixing, cream preparation, emulsification polymerization, silicone oil emulsification, homogenization, etc. The serrated agitator makes it easier to cut, tear and disperse fibrous materials.
 Order #:1016 Model: S25G	23	50~5000	225	180	No	PEEK、 316L	Suitable for processes with viscosity, such as solid-liquid mixing, oil-water mixing, cream preparation, emulsification polymerization, silicone oil emulsification, homogenization, etc.
 Order #:1017 Model: S25G-ST	27.2	50~5000	225	180	No	PEEK、 316L	Suitable for processes with viscosity, such as solid-liquid mixing, oil-water mixing, cream preparation, emulsification polymerization, silicone oil emulsification, homogenization, etc. The serrated agitator makes it easier to cut, tear and disperse fibrous materials.
 Order #:1018 Model: S25F	24.5	100~5000	225	180	No	PEEK、 316L	Suitable for processes with viscosity, such as solid-liquid mixing, oil-water mixing, cream preparation, emulsification polymerization, silicone oil emulsification, homogenization, etc.
 Order #:1027 Model: S20DG	17.3	10~1500	288	220*	-0.096~+0.1MPa	FFKM、 316L、 SIC	Suitable for solid-liquid mixing, oil-water mixing, cream preparation, emulsification polymerization, silicone oil emulsification, homogenization, etc. under vacuum and pressure environment.
 Order #:1028 Model: S25DG5S	23	50~5000	288	220*	-0.096~+0.1MPa	FFKM、 316L、 SIC	Suitable for solid-liquid mixing, oil-water mixing, cream preparation, emulsification polymerization, silicone oil emulsification, homogenization, etc. under vacuum and pressure environment.

Remarks

"*" This maximum temperature is recommended for short-term use.

Continuous dispersion head (Table II)

Order # Model	Tip Speed (m/s)	Range of speed (rpm)	Cavity volume (net) (ml)	Flow rate (water) (L/min)	Tooth shape	Maximum Working Temperature(°C)	Medium Contact Material	Features Applications
 Order #:1024 Model: S22Z	20.4	2000~26000	~25	1.4~6	G/F	120	FFKM、 316L、 SIC	Suitable for one-pass or external circulation processes. Suitable for controlled particle size products such as microspheres.

Work stand (Table III)

Order # Model	Overall dimensions (mm)	Lifting range (mm)	Lifting mode
 Order #:221101 Model: ZT05MR	220×350×720	/	Manual (Lifting range)
 Order #:20027 Model: ZT05QR	220×350×580	218	Gas spring



Effect picture after the installation of S22Z

Biology
Pharmacy



Food



Daily Care



Chemical
Industry



New
Material



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