

FORMAX®

HERE BEGINS YOUR ULTIMATE VALUE

FVS-LQ-SM Series
Servo Motor
Volumetric Liquid Color

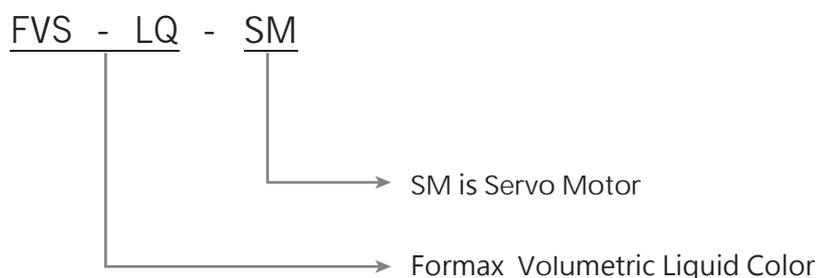
FVS-LQ-SM



Please read the brochure carefully before operation.

FVS-LQ -SM Series Servo Motor Volumetric Liquid Color

■ Coding Principle



■ Features

- User-friendly control design, color touch screen, easy to use
- Servo motor control, maximum speed 700RPM, accurate and stable feeding, fast reaction speed
- Equipped with 1:5 reducer, increase torque, not easy to overload
- Wide use, from low viscosity to high viscosity liquid color oil can be used - high accuracy: up to $\pm 0.5\%$ measurement accuracy.
- No contamination: The liquid only touches the pump pipe
- Easy to clean and clean: just replace the hose when changing the oil.
- With formula storage function, can store 39 groups of formula.

■ Progressive cavity pump

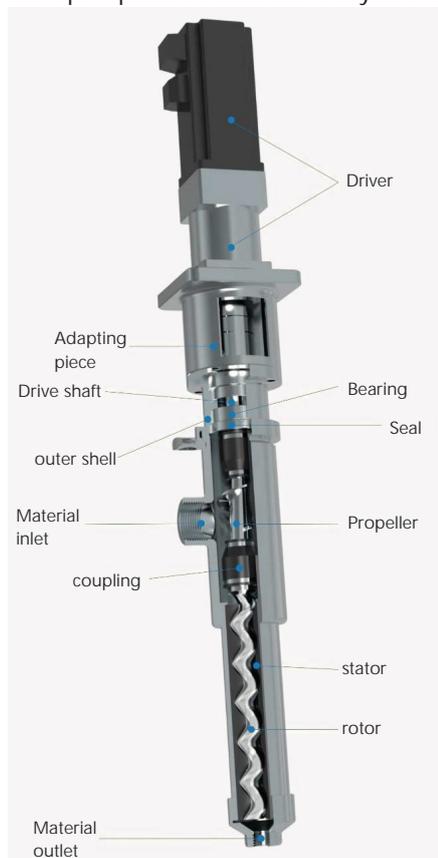
Progressive cavity pump is a kind of positive displacement pump specially used for conveying high viscosity, containing particles or corrosive liquids (such as color oil, pigment, paint, etc.), widely used, excellent structural performance; Single screw design, simple and compact structure, occupy small space.

- The screw is made of stainless steel, suitable for corrosive media.
- Mechanical seal structure, prevent leakage, protect the environment and material purity.
- Low vibration noise, screw meshing drive smooth, low running noise.
- Accurate flow regulation, flow is proportional to the speed, and the output is accurately controlled by the speed regulating device.
- Modular assembly structure, easy to disassemble, easy to clean and interchange.

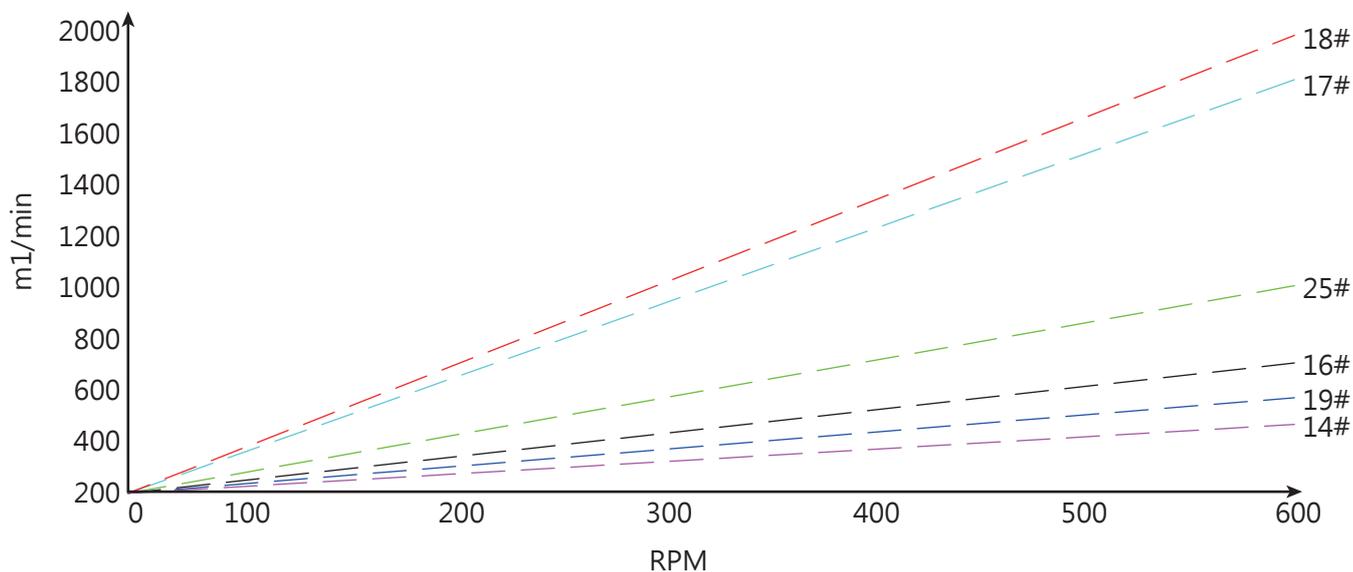
■ Working Principle

The color oil machine is sent out by the controller to control the servo motor action. The servo motor drives the screw pump to rotate, and the material reaches the cavity of the screw pump continuously through the conveying pipeline under the rotating force of the screw pump, and then enters the feeding system.

The servo motor is precisely regulated by the control system to ensure that the amount of material pushed by the screw pump rotation is accurately controlled.



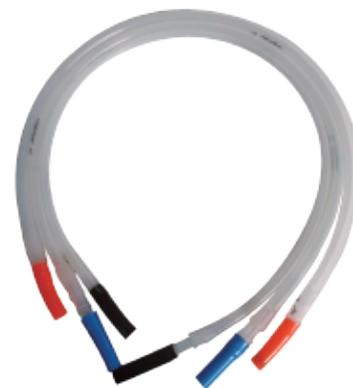
Model	Discharge Capacity	Roller Material	Motor type	Max. pressure (bar)	Suitable Hoses	Max. flow (L/H)	Weight (kg)
Progressive cavity pump	1CC	Stainless steel	Servo	24	14#19#16# 25#17#18#	27	1.4



■ Hose

Three different hose types are available depending on the speed of the peristaltic pump

- Red - - - - - #25
- Blue - - - - - #17
- Black - - - - - #16



■ Injection Nozzle and Mixer (optional)

Injection nozzle for connection between pump outlet and injection machine, composed of injection unit and feeding plate



Injection Nozzle

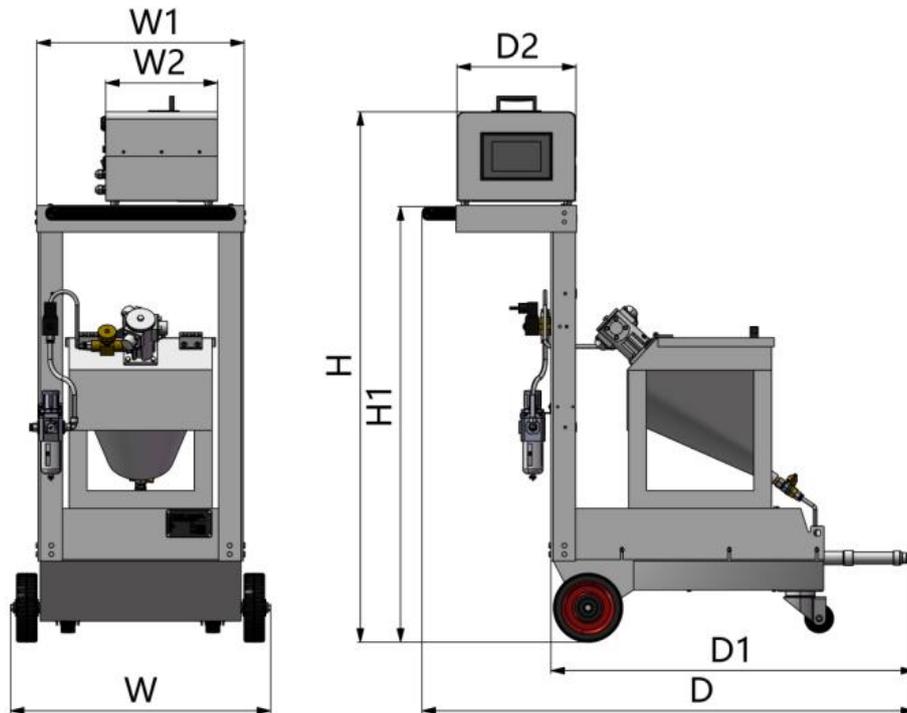


Injection Nozzle and Feeding Plate



Mixer

■ Outline Drawings



FVS-LQ-SM

Model	Motor Power (KW)	Motor Speed (rpm)	Maximum output (kg/hr)	screw model	Color oil Tank capacity (Ltr)
FVS-LQ-SM	0.4	1~700	0.4~18	1CC	19L
Dimensions (D*W*H)	1082*555*1188				
Weight (KG)	30				

FORMAX®

China
Formax Plastics Automation, Inc.

Dongguan
 No. 9, Taida Road, Chang'an Town, Dongguan City,
 Guangdong Province, China
 Tel. +86-769-3899-9898 Fax. +86-769-8533-3467

Kushan
 No.138-20, Hengshan Road, Kunshan, Jiangsu, China
 Tel. +86-512-5700-8308 Fax. +86-512-5700-8306

Taiwan
Formax Equipment Inc.

No.12, Ln.12, A nzhong st., Luzhu Dist.,
 Taoyuan City, Taiwan
 Tel. +886-3-2121-725 Fax. +886-3-2127-960

www.formaxpa.com
www.formax88.com



2025-3 All rights reserved.