

Syringe Pump Introduction

This solves quality, cost and environmental issues at the same time

Accurate paint control improves painting costs

This can be installed on existing coating robots!

Explosion-proof precise supplying system for paint
Syringe pump system
 For high repeatability

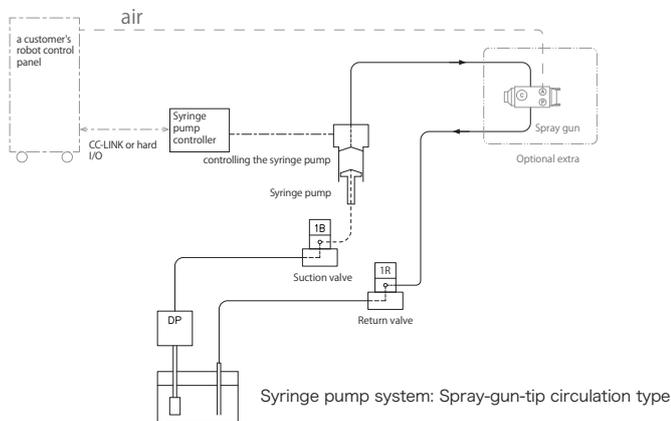
Syringe Pump System



Syringe pump system Image

What is a syringe pump system?

A motor precisely drives a syringe to repeatedly fill and dispense paint into a cylinder. Syringes are the industry standard for accuracy. Takubo Engineering has customized it for paint applications. It controls paint discharge in 1cc increments to reduce paint waste. It also supplies paint to the spray gun without pulsation.



Precise control of paint in 1cc increments

Easy cleaning and maintenance



Cylinder can be removed without tools

This can be installed on existing coating systems

Two types are available: "circulation type" and "one-cup type". Within the "circulation type," you can choose between "color-change-valve circulation" and "Spray-gun-tip circulation". As an option, it can be connected to an existing control panel via CC-LINK.



Existing coating system image

The original small explosion-proof motor

Takubo Engineering's original compact explosion-proof motor is used as the drive source. The entire system is downsized and designed for safe use in hazardous environments such as paint preparation rooms and mixing rooms.



Takubo Engineering's original compact explosion-proof motor

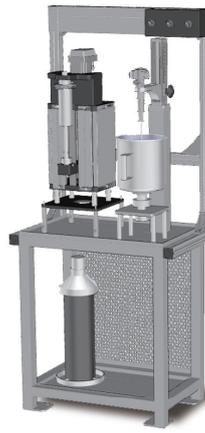
Paint supply for multiple spray guns (op)

Color change system (op)

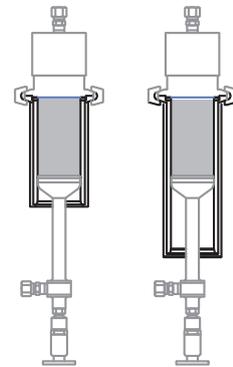
※ (op) : Optional extra



Spray-gun-tip circulation syringe pump system



One-cup syringe pump system



50cc (op) 100cc

※ Cylinder capacity
Standard is 100cc; 50cc is available as an option.

Explosion-proof level:
It complies with IEC60079-0 general rules and IEC60079-1 explosion-proof. / Explosion-proof performance: Exd II BT4G bx



TAKUBO WEB

Main Specifications

Name		Spray-gun-tip circulation syringe pump system	One-cup syringe pump system
Model		SP24EX-100S-1S-GA	SP24EX-100S-1C-GA
Type		Circulation syringe pump	One-cup syringe pump
Size of main unit / outer dimensions		680 w · 1733 h · 720 d	680 w · 1553 h · 390 d
Size of controller / outer dimensions		400 w · 1100 h · 301 d	
Driving method		Ball screw	
Electric capacity		AC200V (3-phase), 0.5kVA	
Syringe	Quantity	1 本	
	Capacity	100cc	
	Material	SUS304 with special coating	
Valve size	Input	PT1/8	
	Output	PT1/4 · 3/8	
motor		Explosion-proof AC servo motor 200W	
Model of drive amplifier		VLPSX-008P2-SBA-0301 (Manufactured by Shibaura Machine Co., Ltd.)	
Explosion-proof level		It complies with IEC60079-0 general rules and IEC60079-1 explosion-proof. (Explosion-proof performance: Exd II BT4G bx)	
Capacity of cup		-	4L
Discharge volume		30 ~ 150cc/min	
Operating environment	Temperature	10 ~ 30°C	
	Humidity	20 to 80%RH (no condensation)	
Storage environment	Temperature	-10 ~ 45°C	
	Humidity	10to90%RH (no condensation)	

Takubo Engineering's Products Lineup



SWAN Pro



LINE DANCER RIBERO



LINE DANCER



DRY TEC



OIL BOOTH



CoSWAN

*Specifications and sizes in the drawings may differ from the actual ones. Please contact the person in charge for details.