

Introduction

- LE200/300 is a compact and reasonable design, light weight, durable high-efficiency spray gun, suitable for automatic spraying of plastic parts of automobiles and motorcycles, wood industry, and metal parts industry.
- LE200/300 is used in various fields. In addition to use the electrostatic principle to save a lot of paint, it also adopts **low-pressure high-atomization LPHA design**, which also improves the utilization rate of paint and the surface quality of object.
- LE200/300 with different configurations, can meet the automatic spraying application of solvent-based, water-based, one-component/two-component, PE paints.

Suitable application

Metal: all surfaces and shapes of metal objects

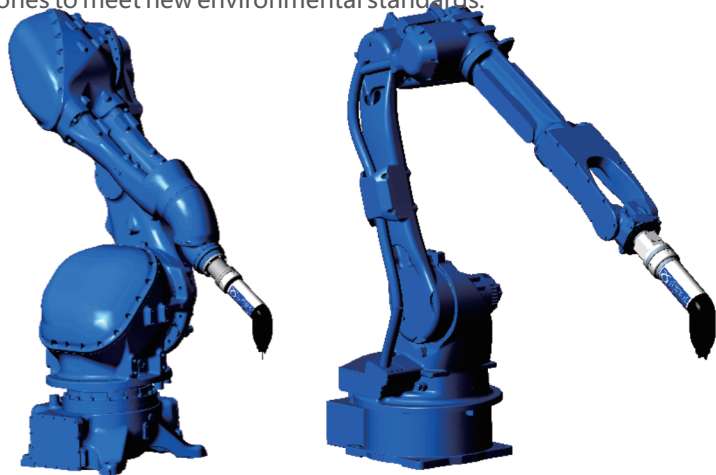
Plastic: TV frame, bumper, motorcycle plastic parts, Phone boxes, side door mirrors, cell phones, computers

Wood: doors, door frames, windows, desks, chairs, headboards

Glass: Perfume bottles and any other bottles

Advantage

- Easy and fast assembly**
Simple structure, easy installation and commissioning.
For robots with low wrist payloads
- High transfer efficiency**
Kinetic design of atomized particle size, flow velocity and air obstruction
Variety of air caps options for spraying ideal distance and dead angle penetration
- Enhancement of coating film quality**
Fine atomized particles, high particle uniformity, and excellent texture.
The air + electrostatic atomization ensures a more uniform and consistent film thickness distribution
- Easy maintenance and management**
All pipelines are integrated into the robot's second arm, making disassembly and maintenance convenient
Low component costs and minimal operating expenses
- Compliant with environmental protection regulations**
Suitable for establish new coating lines or upgrading existing ones to meet new environmental standards.



Paint impedance

Solvent base $\geq 6\text{M}\Omega\cdot\text{cm}$ 70kV/100 μA
 $\geq 0.5\text{M}\Omega\cdot\text{cm}$ 70kV/200 μA
 Water base $\geq * \text{K}\Omega\cdot\text{cm}$ 70kV/500 μA

Model	LE200SB-H/N	LE300SB-H/N
Structure	For hollow wrist robot / Non hollow wrist robot	
Paint Compatibility	Solvent-based paint	Solvent-based paint
HV supply	External HV	External HV
High voltage	85kv x 100 μA	85kv x 100 μA
Built-in valve	Paint*1, dumping*1	Paint on/off*1
Min. start air pressure	0.4 Mpa	0.4 Mpa
Air consumption(pattern)	$\Phi 8 \times 6$ 600L/min.(ANR)	$\Phi 8 \times 6$ 600L/min.(ANR)
Atomization pressure 0.45MPa	$\Phi 8 \times 6$ 600L/min.(ANR)	$\Phi 8 \times 6$ 600L/min.(ANR)
Flow rate at 0.7MPa	500mL/min	500mL/min
Double layer paint hose	Teflon 6 x 8	Teflon 6 x 8
Paint flow setting Pneumatic Type	MR30 pneumatic remote control valve	MR30 pneumatic remote control valve
Paint flow setting Gear pump Type	#10, 30	#10, 30
Atomization pattern varies by air cap	100~350mm	100~350mm
External size	394mmx $\Phi 96$	394mmx $\Phi 85$
Weight(W/O cable, hose, nozzle)	Approx. 3000g	Approx.3000g
HV cascade	CC851B	
Electrical box	IPS930E (include PCB, small box, hardware)	
HV controller	IPS930C/HMI	

* H = With hollow wrist robot flange
 N = With non-hollow wrist robot flange



Color change valve selection

Model	CCV-20	CCV-30
Outlet	2P	2P
Body material	Stainless steel	Aluminum alloy
Wetted material	Stainless steel	Stainless steel
Shaft seal	U type seal ring	Diaphragm
Weight(g)	625/PC	310/PC



CCV-20



CCV-30

Paint metering system

	Solvent base paint			Water base paint(Insulation)			
Combination No.	10#	20#	30#	10i#	20i#	30i#	40i#
Gear pump unit	General	One drive multi	Servo motor	Insulation	One drive multi	Servo motor	Sealing type
Specification	Explosion proof			None explosion proof			
Gear pump	Alloy steel/stainless steel DLC/tungsten steel			stainless steel DLC/tungsten steel			
Motor	AC Inverter		AC servo	AC Inverter		AC servo	AC Inverter
Installation	Vertical Wall mount	Floor mount	Vertical Wall mount	Vertical Wall mount	Floor mount	Vertical Wall mount	Floor mount

Paint pump VS. Paint supply station

Double diaphragm pump				Paint supply station		
N1.068	S1.068	A1.068	A1.288	PS4	PSiA	PSiD
Fiber nylon	Stainless steel	Aluminum	Full set	Water tray	Insulation table	Insulation cabinet

Application cases

