



**ANEST IWATA**  
**PAINT COATING EQUIPMENT**

# INDEX

# COMPANY PROFILE

## 4-17 Spray gun

- 4 - How to select the right spray gun
- 6 - General purpose spray gun
- 9 - Low pressure spray gun
- 10 - W-400 series
- 11 - Waterborne paint spray gun
- 12 - WS-400 series
- 13 - B-Sho series
- 15 - Automatic spray gun
- 16 - Glossy finish automatic gun
- 17 - Joints, Houses

## 18-20 Electrostatic gun

## 21 Multi spray unit

## 22-24 Airless spray unit

## 25 Venturi booth

## 26-34 Paint supply pump & system equipment

- 26 - Diaphragm pump
- 31 - Paint pressure tank
- 32 - Paint agitator

## 34 Two-component mixing unit

## 35 Cylinder pump unit CYP series

Wide range of technology;  
wide range of products

The business of Anest Iwata consists of 4 divisions; air compressors, coating equipment and systems, and vacuum pumps, fluid engineering.

The Airbrush is a small air operated tool which sprays paint and liquid materials. Today, they are used in painting for a multitude of applications, such as fine art, automotive custom painting, automotive refinishing, nail art, body art, cosmetics, hobby, craft and others.

The air compressor division covers a wide range of products, ranging from low output compact compressors to large rotary compressors. Oil-free compressors, developed to meet the needs for clean air, are widely used in semiconductors, the food processing industry and medically related industries which need clean air.

The coating equipment division integrates core technology of automatization, fluid supply and its control with cutting-edge technology, preparing a wide range of products to cope with a wide range of workpieces to be coated.

In addition to Individual spray gun products, paint supply equipment and coating paint robots; we are developing coating systems which utilize these various kinds of products coupled with accumulated technology. Vacuum equipment, based on an oil-free scroll vacuum pump supplying clean vacuum, is widely used in high-tech industries such as science, semiconductors and LCD (liquid crystal display). Our most important development theme is to protect the global environment.

We are aiming for high-quality services, including the improvement of production environments, and the supply of environment-friendly technology and products.



ANEST IWATA DO B

# PICTURE INDEX



Ø mm

Nozzle orifice



MPa

Air pressure



ℓ/min

Air consumption



ml/min

Fluid output



ℓ/min

Delivery/cycle



cycles/min

No. of cycle per minute



ℓ/min

Max fluid delivery



mesh

Suction filter



mm

Pattern width



No.

Air cap set



bar

Max. fluid pressure atomize



n:n

Pressure ratio



MPa

Max. fluid pressure



mesh

Suction filter



g

Weight



H.V.

Gun outlet voltage



L.V.

Gun inlet voltage

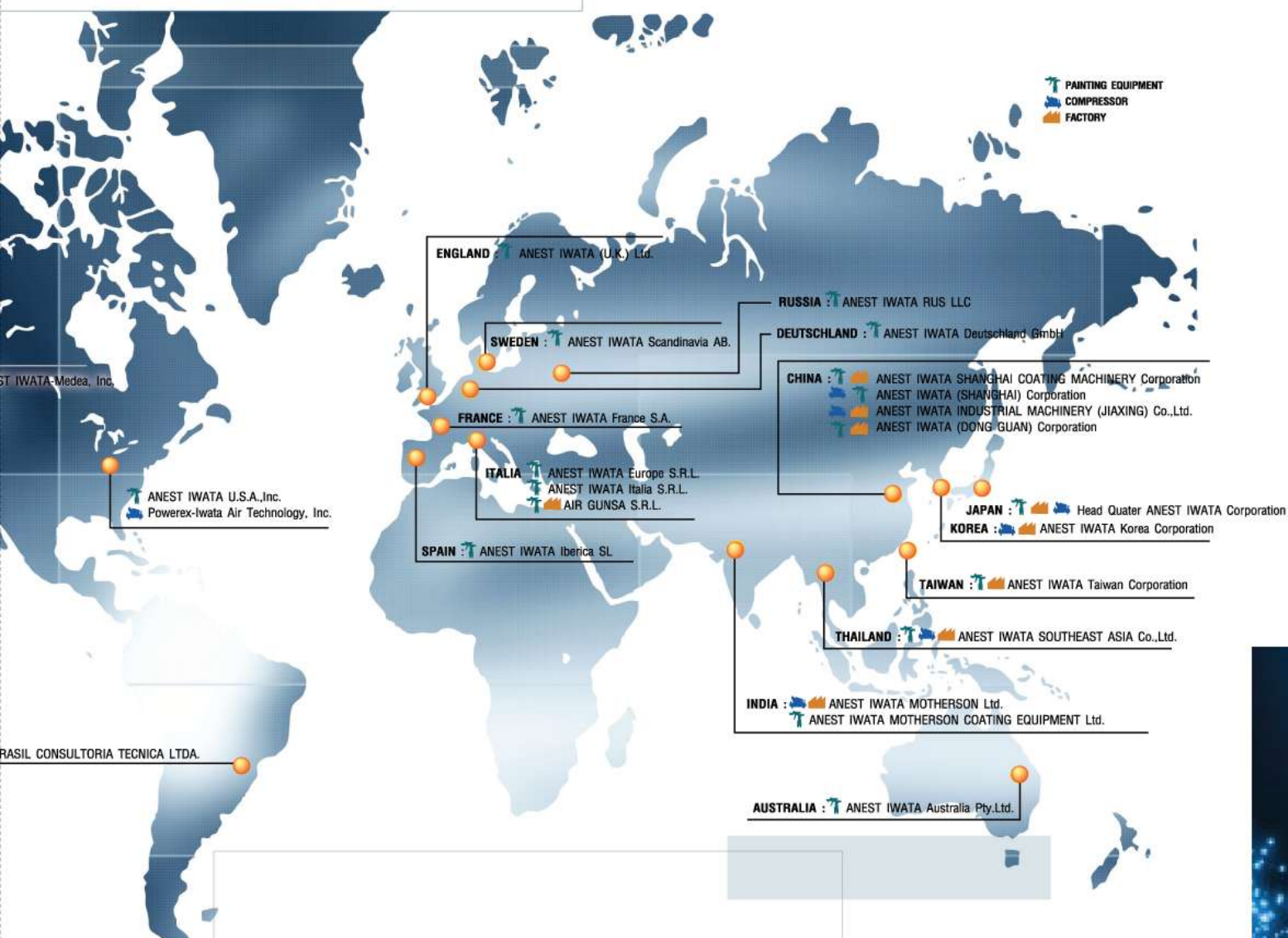


m

Hose length



# RELATED COMPANIES THROUGHOUT THE WORLD



## OUTLINE OF COMPANY

**Coporate name**  
**Head office, factory**  
**President**  
**Founded**  
**Incorporated**  
**Capital**  
**Number of authorized shares**  
**Number of issued shares**  
**No. of stockholders**  
**End of fiscal year**  
**Listed securities exchange**  
**Lines of business**

ANEST IWATA Corporation  
 3176, Shinyoshida-cho, Kohoku-ku, Yokohama 223-8501, Japan  
 Takahiro Tsubota  
 May, 1926  
 June, 1948  
 Y3,354 million (as of March, 2003)  
 200,000,000  
 50,207,000  
 5,192 (as of March, 2003)  
 March 31st  
 First section, Tokyo Stock Exchange  
 Manufacturing and selling air compressors, air pressure equipment and air driven equipment  
 Manufacturing and selling vacuum equipment and systems  
 Manufacturing and selling painting equipment  
 Manufacturing and selling painting process systems and installation  
 Manufacturing and selling liquid application equipment and systems  
 Developing, designing, installation and consultancy of the above products; selling technology and knowhow of the above  
 Business related to the above

# HOW TO SELECT THE RIGHT SPRAY GUN

Spray gun	Classification	Low pressure spray gun																							
	Model	LPH-50				LPH-101				LPH-200				LPH-300				LPH-400							
	Last letters of model name	042G	062G	102G	122P	124LVG	144LVG	144LVS	164LVG	164LVS	122P	124LV	144LV	164LV	144LV	164LV	082P	102P	132P	152P	101S	101G	131S		
Nozzle orifice (mm)		0.4	0.6	1.0	1.2	1.2	1.4	1.4	1.6	1.6	1.2	1.2	1.4	1.6	1.4	1.6	0.8	1.0	1.3	1.5	1.0	1.0	1.3		
Classification of industries and processes	Auto body				○						⊙							○							
	Top coat				○						⊙							○							
	Refinish, touch-ups	○	○	○		○	⊙	○	⊙			○	⊙								○	○			
	Large busses and trucks				○				○		○			○				○							
	Middle coat, top coat								○					○											
	Primer						○		⊙	○			○	⊙		○								○	
	Sheet metal for auto (passenger cars)						○		○	○			○	○	○	○							○		
	Top coat (touch-ups-block)	⊙	⊙	⊙		○	⊙	○	⊙	⊙		○	⊙	○	○	○							⊙		
	Top coat (whole body)						⊙	○	⊙	⊙			⊙	⊙	⊙	○							⊙		
	Metal				⊙						⊙						⊙	⊙					○		
	Top coat	○	○	○	⊙						⊙						⊙	○							
	Plastic (small workpieces)	○	○	○	○												⊙								
	Woodwork, furniture				⊙						⊙						⊙	○	○	○					
	Top coat				⊙						⊙						⊙	⊙							
	Steel frame																								
	Adhesives																								
	Less than 200 centipoises																								
	Less than 100 centipoises																								
Size of workpieces	Small	←→				←→				←→				←→				←→				←→			
	Medium				←→				←→	←→				←→				←→			←→			←→	
	Large										←→													←→	
Paint viscosity (Ford Cup #4)	Low viscosity (less than 15 sec.)	←		→	←						←						←				←			←	
	Medium viscosity (18-26 sec.)				←						←							←			←			←	
	High viscosity (26-33 sec.)										←										←			←	



## 1. Size of workpiece?

### Select of small type and large type

- Small parts, toys, small workpieces, car repairs ---- small type (LPH-50, 100, W-101)
- Large parts, vehicles, buildings, line coating, large coating ---- large type (LPH-200, W-200)

## 2. Amount or area to be painted?

### Selection of type of feed (gravity feed, suction feed, pressure feed)

- For small amount or painting with frequent color changes, use gravity feed (G type)
- For small or medium painting operations with frequent color changes, use suction feed (S type)
- For painting large amount of the same color on a conveyor line, use pressure feed (P type) with paint tank or paint pump.







# COMPACT SPRAY GUN

## W-101 Series

### W-101

#### Lower atomizing air pressure coupled with high atomization

We have reduced both overspray and triggering load by reducing atomizing air pressure (at gun handle) by 0.05 MPa. Atomization effect is better than previous model.

\*Three kinds of air cap sets are prepared for W-101 type 1.3 mm spray gun.

W-101-131S/G

Thicker film in the center of pattern and thinner on both ends.

W-101-132S/G

Film is more uniform and thinner on the whole.

W-101-134S/G

Suitable for overlapping spray several times.  
A wide pattern of high atomization, uniform mist dispersion and film thickness even at a short spray distance.



W-101-P Series




W-101-S Series



W-101-G Series

#### Compact type

Type	Model	 Ø mm	 MPa	 Nℓ/min	 ml/min	 mm	 No.	 g	
Small type compact spray gun	W-101-082P	0.8	0.29	270	150	spray distance 200 mm	190	E2P	295
	W-101-102P	1.0			200		220		
	W-101-132P	1.3					0.24		
	W-101-152P	1.5	250	240					
	W-101-101S	1.0	75	85	120			E1	
	W-101-101G			95	130				
	W-101-131S	1.3	145	150	155			K1	
	W-101-131G			160	170				
	W-101-132S		225	150	160			H2	
	W-101-132G			160	175				
	W-101-134S	0.20	210	140*	180*			H4	
	W-101-134G	0.24	250	145	200				
		0.20	210	155*	205*				
		0.24	250	170	220				
		W-101-151S	1.5	0.24	145		175	170	
	W-101-151G	200					180		
	W-101-152S	225			170		175	H2	
	W-101-152G				190		190		
	W-101-181S	1.8	170		210		170	N1	
	W-101-181G				240		190		

■ Paint viscosity : 22 s/Ford#4 ( 20 s/NK-2 ). \*marked case: 16 s/Ford#4 (12s/NK-2 )

■ All model, fluid nipple : G1/4, air nipple : G1/4



# LARGE TYPE SPRAY GUN W-200 Series

## W-200

### 1. Lower atomizing air pressure and noise level

We have reduced air noise level during operation by about 5dB (A) by reducing atomizing air pressure (at gun handle) by 0.05 MPa, in addition to reduction of overspray.

### 2. Improved atomization

W-200-122P is easy to spray at line painting for high atomization. New W-200-182S can be used in a wide field such as automotive refinish and woodwork.



W-200-P Series



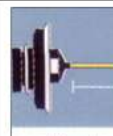




W-200-S Series



W-200-G Series

## Large type

Type	Model	 Ø mm	 MPa	 Nl/min	 ml/min	 mm	 No.	 g		
Large type spray gun	W-200-122P	1.2	0.29	560	500	spray distance 250 mm	400	G2P	380	
	W-200-151S	1.5		200	240		210	K1		
	W-200-151G				270					220
	W-200-152S				240					
	W-200-152G			330	270		320	K2		
	W-200-182S	290			340					
	W-200-201S	260		350			260			R1
	W-200-201G			410	280					
	W-200-202S	360		350			290	R2		
	W-200-202G			410	320					
	W-200-251S			2.5			440			280
	W-200-251G				510		310			

■ Paint viscosity : 22 s/Ford#4 (20 s/NK-2).

■ All model, fluid nipple : G3/8, air nipple : G1/4

# GENERAL PURPOSE SPRAY GUN

## SMALL AND MEDIUM SPRAY GUNS



W-61



W-71








W-77

### How to read model names

Ex. W-77-21G

- : Pressure type
- Type of feed G : Gravity type
- S : Suction type
- 1. 2. 3. general purpose
- 11. 21. 31. high quality painting
- 0 (zero) mass production painting
- gun body W71, W61 : small
- W77 : medium

Type	Model	 Ø mm	 MPa	 ℓ/min	 ml/min	 mm	 g	
Small spray gun	W-71-0	0.8	0.34	240	200	spray distance 200 mm	190	450
	W-71-02	1.0		230	300		265	
	W-71-1S	1.0		75	95		100	
	W-71-2S	1.3	0.29	85	135		135	
	W-71-3S	1.5		165	180		170	
	W-71-21S	1.3		195	140		155	
	W-71-31S	1.5		230	170		170	
	W-71-4S	1.8		230	195		195	
	W-71-1G	1.0		75	110		120	
	W-71-2G	1.3		85	155		155	
	W-71-3G	1.5		165	210		185	
	W-71-21G	1.3		195	160		165	
	W-71-31G	1.5		230	190		185	
	W-71-4G	1.8			220		220	
	W-61-0	0.8	0.34	200	200	spray distance 200 mm	190	420
	W-61-1S	1.0	0.29	75	95		100	
	W-61-2S	1.3		85	135		135	
	W-61-3S	1.5		150	160		185	
	W-61-1G	1.0		75	110		120	
	W-61-2G	1.3		85	155		155	
W-61-3G	1.5	150		190	220			
Medium spray guns	W-77-0	1.2	0.34	430	480	spray distance 250 mm	445	550
	W-77-02			420			400	
	W-77-1S	1.5		180	255		210	
	W-77-11S			290			260	
	W-77-12S			370			230	
	W-77-2S	2.0		250	345		255	
	W-77-21S			340	350		270	
	W-77-3S			325	435		280	
	W-77-1G	1.5		180	285		230	
	W-77-11G			290			290	
	W-77-12G			370			255	
	W-77-2G	2.0		250	290		290	
	W-77-21G			340			335	
	W-77-3G			325			485	










# LOW PRESSURE SPRAY GUN



LPH-50







## Ultra small type

Type	Model	 Ø mm	 MPa	 ℓ/min	 mℓ/min	 mm	 No.	 g
ultra small type	LPH-50-042G	0.4	0.09	50	8	100 mm	E2	220
	LPH-50-062G	0.6			25	150 mm		
	LPH-50-102G	1.0			55	100		
	LPH-80-042G	0.4			8	40		
ultra small type center gravity cup type	LPH-80-062G	0.6	0.09	50	25	60	E2	205
	LPH-80-082G	0.8			40	80		
	LPH-80-102G	1.0			55	100		
	LPH-80-122G	1.2			80	120		

## Small type

Type	Model	 Ø mm	 MPa	 ℓ/min	 mℓ/min	 mm	 No.	 g	
small type	LPH-101-081P	0.8	0.26	430	100	spray distance 200 mm	170	E1	295
	LPH-101-101P	1.0			150		200		
	LPH-101-122P	1.2			350		270	G2	
	LPH-101-131P	1.3	0.26	430	200		280	E1	
	LPH-101-151P	1.5							
	LPH-101-082LVP	0.8	0.18	280	100		230	LV6	
	LPH-101-102LVP	1.0			150		250		
	LPH-101-124LVG	1.2			0.10		200	80*	
	LPH-101-144LVG	1.4	130*	220*					
	LPH-101-164LVG	1.6	100	220					
	LPH-101-184LVG	1.8	0.13	240	120		210		
	LPH-101-124LVS	1.2			60		170		
	LPH-101-144LVS	1.4			80		180		
	LPH-101-164LVS	1.6			95		190		
small type center gravity cup type	LPH-300-124LV	1.2	0.10	200	90*	210	LV4	320	
	LPH-300-144LV	1.4			130*	230			
	LPH-300-164LV	1.6	0.13	240	110	230			

## Large type

Series	Model	 Ø mm	 MPa	 ℓ/min	 mℓ/min	 mm	 No.	 g
Large type	LPH-200-122P	1.2	0.20	500	500	300	G2	380
Large type center gravity cup type	LPH-400-144LV	1.4	0.11	270	130	290	LV4	
	LPH-400-164LV	1.6			150	300		

■ Paint viscosity : 22 s/Ford#4 (20 s/NK-2). \*marked case : 16 s/Ford#4 (12 s/NK-2)

■ As for LPH-400, fluid nipple : M16 x 1.5 (M), air nipple : G1/4. As for LPH-300, fluid nipple G1/4 (F), air nipple G1/4

■ Fluid nipple : G1/4 for LPH 100; and G 3/8 for LPH-200

### LPH-50/101/200

Little overspray and bounceback contribute to health protection of painters.

#### - Gravity feed type LPH-50

for automobile refinishing applications. Most suitable for touch-ups or shading with small fluid output, low pressure, and low air volume.

#### - Low air volume type LPH-101-124LVG/-144LVGS/-164LVGS

for automobile refinishing applications. Equipped with low pressure and low air volume, you can adjust in the same way as conventional spray guns. They enable you to improve painting operation efficiency with less overspray mists, especially when you do touch-ups and shading.

#### - Pressure feed type LPH-101-122P

for industrial painting of metal, woodwork and resin. You can reduce paint consumption by 20~30% (compared with our previous models) due to high transfer efficiency and little overspray. Maintenance cycle of spray booth is lengthened since booth becomes less dirty.

#### - Pressure feed type LPH-200-122P

for large workpieces such as vehicles. You can reduce paint consumption by 20~30% (compared with our previous models) due to high transfer efficiency.

### LPH-300

#### Center cup gravity feed spray gun

##### 1. Well-balance center of gravity

As cup is situated at the top of spray gun, well-balanced center of gravity assures good fit to human hand.

##### 2. With well-dispersed mist, spray pattern is flat and thin.

You can get uniform film of water borne or high-solid paints which have been considered difficult to paint up to now.

##### 3. Environment-friendly spray gun

LPH-300 is environment-friendly low air volume low pressure spray guns with high transfer efficiency and little overspray.

# CENTER CUP GRAVITY FEED SPRAY GUN

## Small type

Type	Model	 Ø mm	 MPa	 ℓ/min	 ml/min	 mm	 No.	 g	
center gravity cup type	W-300-081G	0.8	0.24	80	60	spray distance 250 mm	100	E1	320
	W-300-101G	1.0	0.24	145	100		130	K1	
	W-300-132G	1.3	0.24	225	160		175	H2	
	W-400-122G	1.2	0.20	280	140		230	LV2	380
			0.29	370	160		250		
	W-400-132G	1.3	0.20	280	160		260	LV2	
			0.29	370	200		300		
	W-400-142G	1.4	0.20	280	210		280	LV2	
			0.29	370	265		320		
	W-400-162G	1.6	0.20	280	240		300	LV2	
			0.29	370	310		340		
	W-400-182G	1.8	0.20	290	320		280	LV1	
			0.29	380	400		320		
	W-400-251G	2.5	0.29	360	580		340	W1	

■ Paint viscosity : 22 s/Ford#4 (20 s/NK-2).

■ As for W-400, fluid nipple : M16 x 1.5 (M) , air nipple : G1/4. As for W-300, fluid nipple G1/4 (F), air nipple G1/4

## W-300/W-400

### 1. Well-balanced center of gravity

- As cup is situated at the top of spray gun, well-balanced center of gravity assures good fit to human hand.
- Total weight is 15% lighter than previous models.

### 2. With well-dispersed mist, spray pattern is flat and thin

- You can get uniform film of water borne or high-solid paints which have been considered difficult to paint up to now.

### 3. Environment-friendly spray gun

- W-400 has achieved high transfer efficiency despite being general purpose guns since atomizing air pressure (at gun handle) has been reduced by 0.05 ~ 0.15 MPa compared to previous models.

#### General purpose

W-400 gravity feed PCG-6P-M cup (option)





# WATERBORNE PAINT SPRAY GUN



## Features :

### 1. Fluid nozzle design

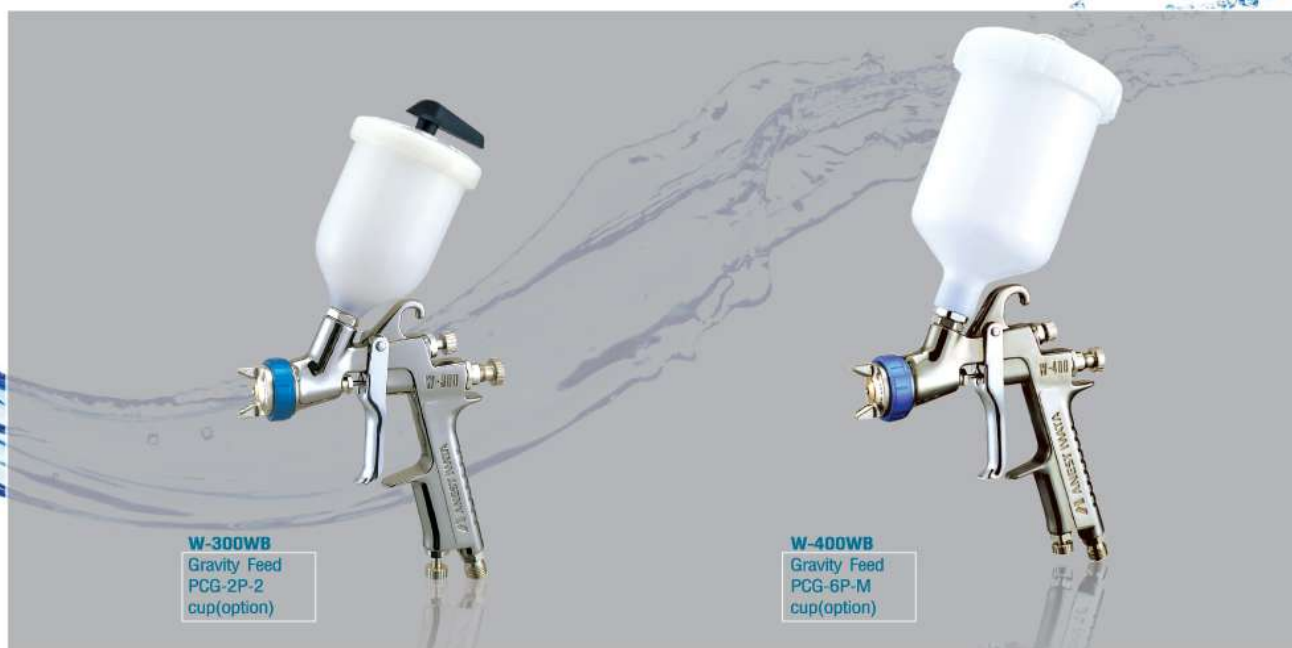
The patented concave and slit design fluid nozzle can help to create a fine and even atomization with lower air pressure and air consumption for water borne paint which have higher viscosity.







### 2. Special air cap

The specially designed air cap for specific water borne paint can create a thin and even pattern.

### 3. Global recommendation

These spray guns are recommended by leading paint manufacturers throughout the world as the designated spray gun for their water borne paint.



Model	 Ø mm	 MPa	 ℓ/min	 ml/min	 mm	 No.	 g
W-300WB-141G	1.4	0.15	190	125	spray distance 200 mm	WB1	320
W-400WB-122G	1.2	0.18	390	120		WB2	380
W-400WB-132G	1.3	0.18	390	140		WB2	380
W-400WB-141G	1.4	0.18	230	160		WB1	380
W-400WB-142G	1.4	0.18	390	160		WB2	380
W-400WBX-134G	1.3	0.2	370	195		WBX	380
W-400WBX-144G	1.4	0.2	370	200		WBX	380

■ Paint viscosity : 22 s/Ford#4 (20 s/NK-2)

■ As for W-400 WB/WBX, fluid nipple M16 x 15 (M), air nipple G1/4. As for W-300WB fluid nipple G1/4 (F), air nipple G1/4

■ Noise level (LAeqT) 76.0 db(A)

WS-400

# SPRAY GUN

*Super*  
**NOVA™**



## WS-400

Large and medium areas  
WS-400 Gravity

## Design

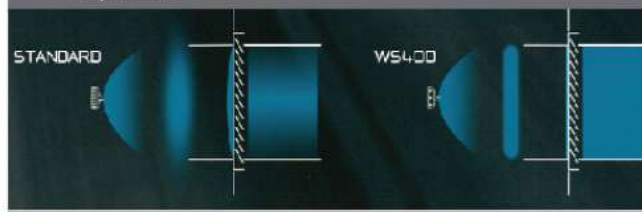
PININFARINA, the Italian design house renowned for some of history's top car designs, has worked closely with **ANEST IWATA** that combines elegance with the ultimate in spray gun design.

## Ergonomics

An in depth study by the UNIVERSITY of PAVIA, into perfect balance and optimal ergonomics, has been closely considered by PININFARINA designers and **ANEST IWATA** engineers to produce this state of the art spray gun.

## Performance

The SUPERNova delivers a consistent droplet size when atomizing which, when combined with its flat and even fan pattern, helps reduce common issues such as boil and pin holing on HS clear coats. These problems occur as a result of too much clear coat in one area, caused by centre heavy fan patterns.



**WS-400**



Model	 Ø mm	 MPa	 ℓ/min	 ml/min	 mm	 mm	 No.	 g	Remark Set item
WS-400-1301B	1.3	0.2	370	140	260	365	01	645	Paint cup (PC-G600P-2) Spanner
WS-400-1301C	1.3			170				645	
WS-400-1401B	1.4			170				645	
WS-400-1401C	1.4			190				645	
WS-400-1301B-S1	1.3	0.2	370	140			01	645	Paint cup (PC-G600P-2) Pressure gauge (AJR-02S-VG) Spanner
WS-400-1301C-S1	1.3			170				645	
WS-400-1401B-S1	1.4			170				645	
WS-400-1401C-S1	1.4			190				645	
WS-400-1301BH	1.3	0.2	370	220	265	365	01	645	※ High delivery model Paint cup(PC-G600P-2) Spanner
WS-400-1301CH	1.3			220				645	
WS-400-1401BH	1.4			240				645	
WS-400-1401CH	1.4			240				645	
WS-400-1501BH	1.4	0.2	370	260			01	645	※ High delivery model Paint cup (PC-G600P-2) Pressure gauge (AJR-02S-VG) Spanner
WS-400-1501CH	1.4			260				645	
WS-400-1301BHS1	1.3			220			01	645	
WS-400-1301CHS1	1.3			220				645	
WS-400-1401BHS1	1.4	0.2	370	240			01	645	
WS-400-1401CHS1	1.4			240				645	
WS-400-1501BHS1	1.4			260				645	
WS-400-1501CHS1	1.4			260				645	




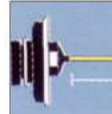
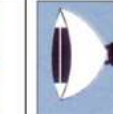
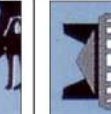
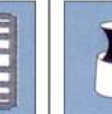
■ Paint viscosity : 22 s/Ford#4 (20 s/NK-2)

■ Air Nipple : G1/4



# B-Sho Series

Solvent base two-component paint

Model	 Ø mm	 MPa	 ℓ/min	 ml/min	 mm	 No.	 g
W-50-124BPG	1.2	0.15	70	85	160	50	185
W-101-134BPG	1.3	0.20	160	140	250	BP4	295
LPH-101-144BPG	1.4	0.10	200	130	220	LPH BP4	
W-101-142BPG	1.4	0.24	230	200	270	BP2	
W-101-162BPG	1.6	0.20 0.24	210 230	120 195	170 200	162 BP2	

- Paint viscosity : 22 s/Ford#4 (20 s/NK-2)
- Nipple : G1/4

## "LVLP GOLD"

- Optimal atomization in low volume, low pressure per new fluid nozzle.
- Improving working environment by less over spray.
- Reducing working process for example minimal masking area.

## B-Sho series GOLD

"GOLD for metallic/pearl paint"

- Less darkening of the coating by reducing scatterings.
- Realizes high atomization with low pressure.
- Less paint adhesion to the air cap.

## B-Sho series SILVER

"SILVER for solid/clear paint"

- The film is thicker in the middle, therefore you can make thick and shiny coating easily.

## B-Sho series B.B.

"Exclusive spray guns for base coat process"

- Fluid needle is quenched to increase its strength in the same as with pressure feed type.
- Fluid nozzle orifice suitable for base coat paints, stable paint particles and stable spray pattern have reduced spitting and shortened polishing time.




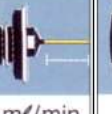



"Exclusive spray guns for small area and top coating"

- Less darkening of the coating by reducing scatters.
- Realizes high atomization with low pressure.
- Less paint adhesion to the air cap.

# Kiwami Series



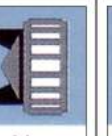
low emission  
single-component paint



Model	 Ø mm	 MPa	 ℓ/min	Adjust knob Rotation	 ml/min	 mm	 No.	 g	REMARK Set item
W101-136BG	1.3	0.20	230	3 rotations(Regulaly) 6 rotations(Max)	170 190	245 260	B6	295	Paint cup(PC-400S-2LF) Spanner
W101-138BGC	1.3	0.20	230	2.5 rotations(Regulaly) 6 rotations(Max)	150 185	220 260	B8	295	Paint cup(PC-400S-2LF) Spanner
W101-148BGC	1.4	0.20	230	2.5 rotations(Regulaly) 6 rotations(Max)	160 200	225 275	B8	295	Paint cup(PC-400S-2LF) Spanner

- Paint viscosity : 12 s/Ford#4 (20 s/NK-2)
- Nipple : G1/4

# SPRAY GUN

Type	Model	 Ø mm	 MPa	 ℓ/min	 ml/min	 mm	 No.	 g
Round pattern gun	RG-3L-1	0.4	0.24	30	15	200	25	180 ~ 200
	RG-3L-2	0.6			35		35	
	RG-3L-3	1.0		50	80			
Heavy viscosity spray gun	W-2001-1	2.5	0.29	170	-	200	-	450
	W-2001-2	3.0		100		200 ~ 300	300 ~ 400	390
	W-2003	2.0		270				
Disheveled gun	SGD-71	0.7	0.2	75	80	-	-	1,000
Agitator spray gun	W-101A-104G	1.0	0.15	165	-	200	140	695
	W-101A-134G	1.3					120	
	W-101A-134S						120	
Touch-up spray gun	W-101T-104G	1.0	0.15	165	-	200	140	335
	W-101T-134G	1.3				120		
	W-101T-134S							
Air duster blow gun	AG-6	1.7	0.34	105	-	-	-	185
	AG-61							
	AG-4B	4.5	0.59	970				218
	AG-41B							212
	EC-3B	2.7	0.34	40				380

- W-101A, W-101T nipple : G1/4
- AG-6, AG-61, AG-41B, EC-3B nipple : G1/4
- AG-4B nipple : G3/8



RG-3L



W-2001-1



SGD-71



W-101A-134G



Air duster AG-6

## Round pattern gun

Most suitable for spraying miniature models, cloth prints, arts and crafts, do-it-yourself items, dyes, etc.

## Heavy viscosity spray gun

For applying special high-viscosity paint, adhesives, etc.

## Disheveled gun

For spraying disheveled and spattering patterns using special air caps.

## Automotive refinishing spray guns with agitator and Touch-up spray guns

**W-101A-134G** : Effective refinishing from small to medium blemishes.

**W-101A-134S** : Can coat well with two-coat pearl, metallic, solid and clear paint as well as three-coat pearl paints.

## Air duster/Blow gun/Engine cleaner

For blowing off dust, sludge, etc / cleaning engines, machines, etc.







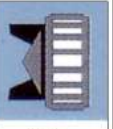

# AUTOMATIC SPRAY GUN

Spray guns for mass production which are used with automatic painting equipment, reciprocators or painting robots.

## Compact type high performance automatic guns

1. You can change and remote control pattern width during painting by controlling center air and horn air independently.
2. You can circulate paints such as metallic paint which deposit in a short time.
3. Compact gun body needs small installation space and can be used with automatic painting equipment including painting robot.

## General purpose automatic guns

Model	Type	 Ø mm	 MPa	 l/min	 ml/min	Spray distance mm	 mm	 No.	 g
SGA-101	Compact	1.0	0.24	80	-	-	-	E1	270
WA-101-082P(V)	Small	0.8	0.29	270	150	200	190	E2P	460
WA-101-101P(V)		1.0		90	100		140	E1	
WA-101-102P(V)		1.0		270	200		220	E2P	
WA-101-132P(V)		1.3		260	250		230	H2	
WA-101R-05P(V)	Small (round pattern)	0.5	0.29	40	20	250	35	-	440
WA-200-122P(V)	Large	1.2		530	500		400	G2P	500
WA-200-152P		1.5		330	270		340	K2	
WA-200-202P		2.0		360	400		320	R2	
WA-200-251P		2.5			500		330	W1	
WA-200-201ZP	Large (ceramic)	2.0	0.34	500	760	250	370	R1Z	500
WA-200-251ZP		2.5							
WA-1218	Internal coating	0.6	0.29	73	17	200	48	-	555
WA-0915		0.5		55	9		36	-	510
WA-0609				48	6		32	-	475

## Low pressure automatic guns

LPA-101-101P	Small	1.0	0.26	430	150	200	200	E1	460
LPA-200-122P	Large	1.2	0.20	500	500		300	G2	500

## Mounted on robot

WRA-101-082P	Small	0.8	0.26	270	150	200	190	E2P	300
WRA-200-122P	Large	1.2	0.24	530	500	250	400	G2P	325
LRA-200-122P	Large (low pressure)		0.14	500		200	300	G2P	

- SGA-101, WA-101 nipple : G1/4
- WA-200 nipple : G3/8
- WA-1218, 0915, 0609 : G1/4

- LPA-101, LPA-200 nipple : G3/8
- WRA, LRA-200 : Rc1/8 (without nipple)



SGA-101



WA-101

Model	Length of extension nozzle (A)	Pipe dia	Pattern curve degree(°)
WA-1218	180 mm	12 mm	about 19°
WA-0915	150 mm	9 mm	about 14°
WA-0609	90 mm	6 mm	about 4°



WA-0609



WRA-101



LPA-200



LRA-200

# GLOSSY FINISH AUTOMATIC GUN

## GFA SERIES

Type	 Ø mm	 MPa	 l/min	 ml/min	Spray distance mm	 mm	 No.	 g	Material
GFA-200-084P	0.8	0.11	190	30-100	150	90	C22	630	Stainless steel
GFA200S10C22-08		0.10	210					325	Aluminum
GFA200S2BX6-10	1.0	0.20	310	100-250	200	220	X6	630	Stainless steel
GFA-600-122P	1.2	0.20	600	100-200	200	160	G21	680	Titanium
GFA-E600-134X	1.3	0.20	560	100-200	200	150	GFA-E600-H21	940	Resin (body)

■ Screw size : Rc1/8

### Glossy Finish Automatic gun

#### Construction and Features

- High-density flat pattern
- Whole body made of stainless steel (applicable to water-based paint)
- Specialized paint passage construction with little paint buildup

#### GFA-200-084P

For small paint output applications

Application : Digital camera and cellular phone casings sprayed with robot or put through a spindle application

#### GFA200S10C22-08

Lightweight GFA200S10C22-08 Model

Application : Multiple spray guns mounted on twin-spindle or 1 robot

#### GFA200S2BX6-10

For medium paint output applications

Application : Notebook computers, plastic parts for cars using masking jigs, small item put on net

#### GFA-600-122P

For medium paint output applications (High mottling reduction)

#### Features

- Further improvement of mottling reduction performance
- Realizing increased paint output and wide pattern width
- Reduction of paint consumption
- High atomization
- High corrosion-resistance (whole body is made of titanium)

#### GFA-E600-134X

#### Features

- While keeping high design characteristics of GFA series, electrostatic effects is created.
- Realizing high transfer efficiency
- Applicable water-based paint
- Applicable to mount with small size painting robot.
- -60 kV
- E-SC12BH



GFA-200-084P



GFA200S10C22-08



GFA200S2BX6-10



GFA-600-122P



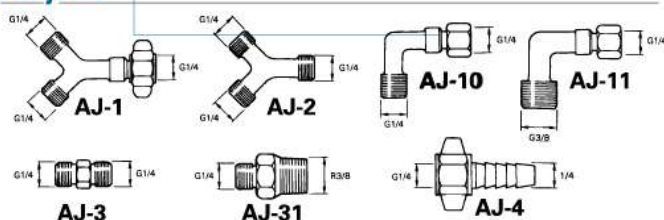
GFA-E600-134X



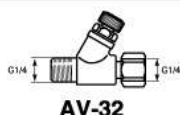


# JOINTS, HOSES

## Air joint



## Air valve



## Joint for urethane air hose

for EAHU-6

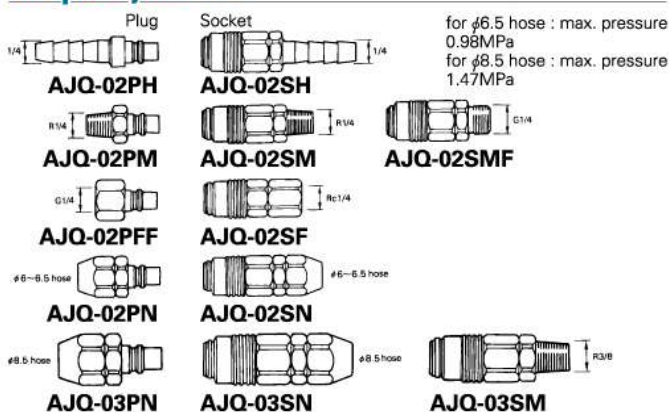


for AHU-8



※Joint for previous urethane air hose (AHU-6) are AJU-02F and AJU-02M.

## Air quick joint (※2)



(※1) ●For exclusive use as an air hose. DO NOT USE AS A FLUID HOSE  
●When you do not use the grounding wire, do not take it out. But be sure to distinguish clearly between a hose which uses a grounding wire and one which does not use, in order to avoid wrong usage.

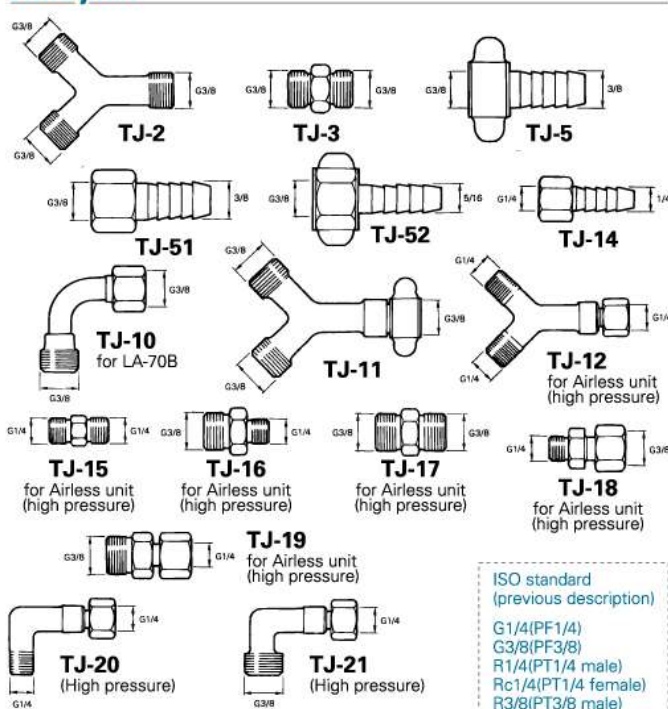
## Air house (※2)

Model	Material	Inner dia. × Outer dia. × length	Max. operating pressure
EAHU-620	Urethane with built-in grounding wire	φ6.2 × φ9.3 × 20m	1.47MPa
EAHU-630		φ6.2 × φ9.3 × 30m	
EAHU-650		φ6.2 × φ9.3 × 50m	
EAHU-6100		φ6.2 × φ9.3 × 100m	
EAHU-820		φ8.5 × φ12 × 20m	
EAHU-8100	Urethane	φ8.5 × φ12 × 100m	1.47MPa
AHU-820 <sub>B</sub>		φ8.5 × φ12 × 20m	
AHU-830 <sub>B</sub>		φ8.5 × φ12 × 30m	
AHU-850 <sub>B</sub>		φ8.5 × φ12 × 50m	
AHU-8100 <sub>B</sub>		φ8.5 × φ12 × 100m	

### Caution : Handling of air hose with the grounded wire (※2)

- Connecting equipment must be grounded since this hose has a built-in grounded wire.
- Whether or not you use the grounded wire, never use this hose as an air hose to supply air to electrostatic spray equipment or isolation stand when you use low resistance paint. In such a case, use an urethane air hose (AHU-8) or fluid hose (PHU, PHN) as air hose.
- When you use the grounded wire, refer to the electrostatic spray equipment instruction manual and periodically check its conductivity. Never use a hose which has deteriorated or is cut.
- Never use this air hose as a fluid hose.
- When you do not use the grounded wire, do not take it out. But be sure to distinguish clearly between a hose which uses a grounded wire and one which does not use, in order to avoid wrong usage.

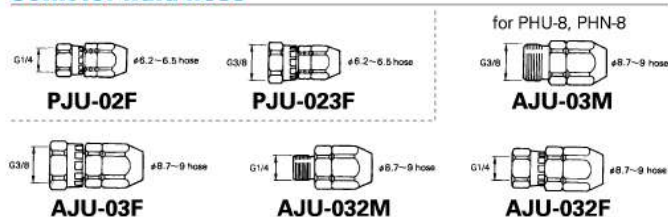
## Fluid joint



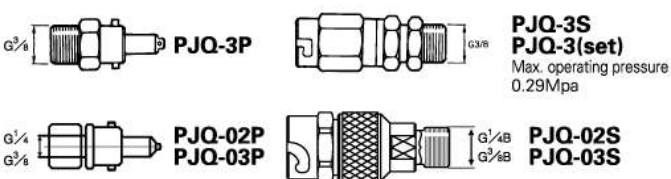
ISO standard (previous description)

G1/4(PF1/4)  
G3/8(PF3/8)  
R1/4(PT1/4 male)  
Rc1/4(PT1/4 female)  
R3/8(PT3/8 male)

## Joint for fluid hose



## Fluid quick joint



## Fluid hose (※3)

Model	Material	Inner dia. × Outer dia. × length	Max. operating pressure
PHU-620	Urethane	φ6.2 × φ9.3 × 20m	0.69MPa
PHU-6100		φ6.2 × φ9.3 × 20m	
PHU-820		φ8.7 × φ12 × 20m	
PHU-8100		φ8.7 × φ12 × 20m	
PHN-620	Nylon	φ6.5 × φ9.5 × 20m	0.69MPa
PHN-6100		φ6.5 × φ9.5 × 100m	
PHN-820		φ8.9 × φ12.1 × 20m	
PHN-8100		φ8.9 × φ12.1 × 100m	
THU-620	Urethane (twin)	φ6.2 × φ9.3 × 2 × 20m	0.69MPa
THU-6100		φ6.2 × φ9.3 × 2 × 100m	

\*Air hose side of THU-6 twin hose includes an orange string and the model's name.

### Caution : Selection of fluid hose (※3)

- Do not use urethane hoses (PHU, THU) when you use ketonic solvents, two-component paints, urethane paints and thinners which easily dissolve or react since urethane hoses will crack and paint will fly. In such a case, use nylon fluid hose (PHN).



# ELECTROSTATIC GUNS

## ELECTROSTATIC PAINTING SPRAY EQUIPMENT

Series	Model	 Ø mm	 MPa	 ℓ/min	 ml/min	Spray distance mm	 mm	 No.	 L.V.	 H.V.	 m	 g	Applied controller	
E-M 10C/ E-M15C	E-M10C-13C1X	1.3	0.30	500	300	250	330	C1	AC12V	DC-40kV	10	500	E-SC12B	
	E-M10C-13C5X		0.20		160	200	250	C5						
	E-M10C-13L1X						240	L1						
	E-M15C-13C1X	1.3	0.30	500	300	250	330	C1	AC12V	DC-40kV	10	510		
	E-M15C-13C5X		0.20		160	200	250	C5						
	E-M15C-13L1X						240	L1						
E-M20/ E-M25	E-M20-13C1X	1.3	0.30	500	300	250	330	C1	AC12V	DC-60kV	10	545	E-SC12BH	
	E-M20-13C5X		0.20		160	200	250	C5						
	E-M20-13L1X						160	L1						
	E-M25-13C1X	1.3	0.30	500	300	250	330	C1	AC12V	DC-60kV	10	585		
	E-M25-13C5X		0.20		160	200	250	C5						
	E-M25-13L1X						160	L1						
E-A10	E-A10-13C1X	1.3	0.26	200	300	250	330	C1	AC12V	DC-40kV	10	1,000	E-SC12B	
	E-A10-13L1X		0.12	260	160	200	240	L1						
EBG	EBG-210B	1.5	0.27	560	300	300	370	-	AC12V	DC-60kV	10	2,100	E-SC12BH	
	EBGL-210B	1.8	0.17	520		250	300							
E-MW	E-MW100-11C5X	1.1	0.35	500	250	200	280	C5	AC24V	DC-60kV	10	595	E-SC24	
	E-MW100-13C1X	1.3	0.30		300	250	330	C1						
	E-MW100-13C5X		0.35		250	200	280	C5						
	E-MW50-11C5X	1.1	0.35	500	250	200	280	C5	AC24V	DC-50kV	10	530	E-SC24L	
	E-MW50-13C1X	1.3	0.30		300	250	330	C1						
	E-MW50-13C5X		0.35		250	200	280	C5						

- C1X : Conventional atomization type
- C5X : High atomization with flat pattern
- L1X : Atomization with low pressure

### E-M Series

Manual electrostatic spray gun (direct charge and internal cascade type)

#### Effective & Ecological

Thanks to an improved air cap, high transfer efficiency is realized while keeping the highest standard finish and making full use of electrostatic effects

#### Safety

Internal cascade type with a high level of safety.

### Ergonomics

Trigger and grip designs have been improved for greater ergonomics through feedback from numerous painters.

#### Easy

Teflon fluid hose is easy to clean and maintain.

#### Simple

Adoption of low-voltage cable with detachable connector for easy maintenance.



E-M10C



E-M15C



E-M20



E-M25





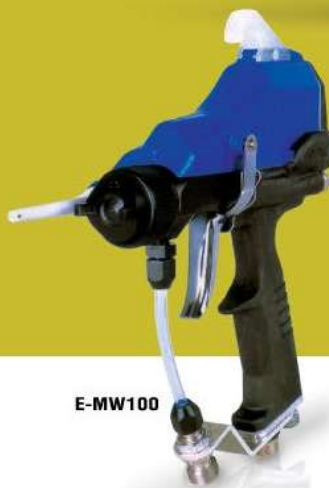
E-A10



EBG



E-MW50



E-MW100

#### E-A10 Series

Compact electrostatic automatic air spray gun (direct charge and internal cascade type)

#### Effective & Ecological

Due to the atomizing head design, which maximizes electrostatic effects, and maintains a high standard finish, a high transfer efficiency can be achieved.

#### Simple

Built-in paint valve in the gun body makes it easier to maintain.

#### Safety

Internal cascade type with a high degree of safety.

#### EBG Series

Electrostatic automatic air spray gun (direct charge and internal booster type)

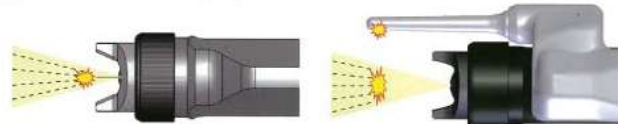
- Thank to high efficiency counter electrode arrangement, 70kV equivalent performance can be achieved with output of 60kV. Also, when spraying the electrode is purged by air to prevent it from getting dirty.

Also, when spraying, the electrode is purged by air the prevent it from getting dirty.

- With adoption of intermediate seat system, fluid nozzle and pin electrode can with paint under pressure.
- Cartridge type paint valve has greatly improved maintainability.
- Connector system between low voltage cable and the gun body makes it easy to change the low voltage cable.
- Separate circuits for atomizing air and pattern air can be used to adjust pattern width by remote control.

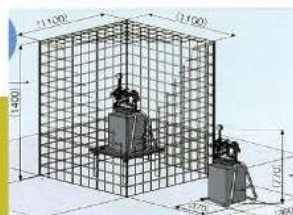
#### E-MW Series

Manual electrostatic spray gun for water-based paints (indirect charge and internal cascade type)



#### High transfer efficiency with waterbased paint

- Preservation of high transfer efficiency even though indirect charged.



#### Space-Saving

- No insulation device is required in fluid supplying route.

#### Lightweight & compactsize.

- Compact size; almost the same as conventional air spray guns.



#### Excellent maintainability

- Electrode section can be removed and replaced with a single action.

# ELECTROSTATIC

## GUNS



### Electrostatic cart unit

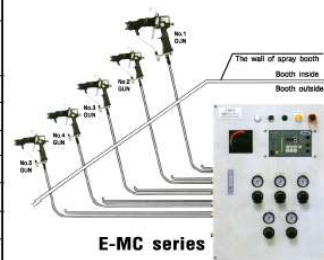
Series	Model	Electrostatic gun	Controller	Fluid hose set	Air hose set	Cart
E-C	E-C10-13C1X	E-M10B-13C1X	E-SC12B	10 m. (G3/8)	10 m. (G1/4xG1/4)	With air regulator
	E-C10-13C5X	E-M10B-13C5X				
	E-C10-13L1X	E-M10B-13L1X				
	E-C15-13C1X	E-M15B-13C1X				
	E-C15-13C5X	E-M15B-13C5X				
	E-C15-13L1X	E-M15B-13L1X				



E-C series

### Multicolor capable electrostatic controller

Series	E-MC series
connectable number of gun	5 guns
input voltage	AC100-200V 50/60Hz
output voltage	AC12V
Safety functions	Detection of ground failure
	Detection of excessive current
	Detection broken shielding wire
	Detection of time completion
	Detection of charge to 2 guns
	Abnormal metal bridge avoidance function
Dimension	500x300x700mm. (WxDxH)
Max. working pressure	0.68 Mpa
charge ON/OFF	Air flow switch type
Applicable manual electrostatic gun	E-spray series



E-MC series

\* Controller of multiple guns such as 10, 15 or 20 guns can be produced upon request

### Electrostatic controller

Series	E-SC24/E-SC24L	E-SC12B	E-SC12BH
Input voltage	AC100-120V 50/60Hz single phase (Chargeable to single phase 200~240V)	AC100-120V 50/60Hz single phase (Chargeable to single phase 200~240V)	
output voltage	AC24V	AC12V (electrostatic controller)	
output current	150 mA	80 mA (gun discharging current)	
Electric consumption	Approx. 75W	Approx. 30W	
Dimension	245x160x130mm. (WxDxH)	220x160x130mm. (WxDxH)	
Mass	Approx. 3.4kg	Approx. 3.1kg	
Charge ON/OFF	Airflow switch type		
Max. working pressure	0.68 Mpa		



electrostatic controller

#### E-C series

##### Electrostatic cart unit (All-in-one type)

Immediately usable by connecting air from air compressor to paint supply equipment.

- Electrostatic gun for paints containing solvents, controller, hose, etc. are unified.
- Mobile unit ; therefore, no need to fix its location.

#### E-MC series

##### Multicolor capable electrostatic controller

Due to the multiple gun system, flushing of paint passages is usually unnecessary, resulting in a shorter process and reduced solvent emission.

##### E-SC24 (for E-MW100) / E-SC24L (for E-MW50)

Protective function is equipped for monitoring safety.

##### [Safety function]

- Detection of ground failure
- Detection of broken shielding and core wire
- Detection of excessive current
- Detection of time completion
- Detection of broken shielding wire Patented No.3490255

#### E-SC12B (for E-M10C/15C , E-A10)

#### E-SC12BH (for E-M20/25)




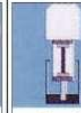


Intelligent controller to make full use of the capabilities of electrostatic spray gun. [Safety function]

- Detection of ground failure
- Detection of broken shielding and core wire
- Detection excessive current
- Detection of time completion
- Abnormal metal bridge avoidance function
- Abnormal metal bridge avoidance function : Patented No. 3335937
- Detection of broken shielding wire Patented No.3490255



# MULTI SPRAY UNIT & MULTI SPRAY GUN

## Multi spray unit

Model	 n:n	 MPa	 bar	 l/min	 mesh	 Kg	Spray gun model
MSU-2000B	17:1	0.49	9.8	3.5	100	25	MSG-200

## Multi spray unit

Model	 MPa	 MPa	 g
Manual MSG-200	9.8	4.9	525
Automatic MSA-200	9.8	4.9	710



## Multi Spray Unit

The multi spray unit combines all the benefits of both airless spray and air spray.

### 1. Paint savings

The atomization process is similar to that of true airless spray but with the addition of air to improve atomization. You get all of the efficiencies of airless and the finish quality of air spray.

### 2. Great finish even with high viscosity paints.

Using medium pressure piston pump let you spray heavy viscosity materials while providing additional atomizing air to provide a superior finish.

### 3. Excellent paint penetration

Using less air provides superior coverage in corners to reduce haloing.



MSG-200



MSA-200



MSU-2000B

# AIRLESS SPRAY UNITS

## AIRLESS UNITS PUMP



ALS-122



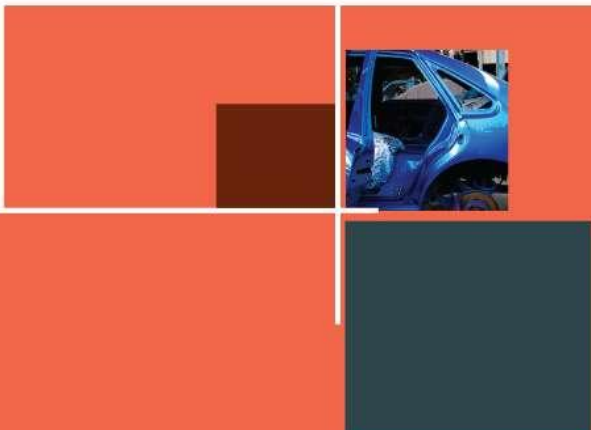
ALS-333B

### Airless unit pump

#### Main components of Airless spray unit

Plunger pump or diaphragm in an airless system atomize the paint by forcing it through a small orifice (nozzle tip) at high pressure 9.8 MPa (around 100 kgf/cm<sup>2</sup>). The airless system has the following advantages.

- Advantages in comparison with an air spray
- 1. Vastly improved working conditions and minimum air pollution.  
A minimum amount of overspray and rebound of spray assures better atmosphere for painters.
- 2. Greatly reduced material cost.  
Less solvent is required because higher viscosity paint can be applied. In addition, Less overspray means saving of paint and solvent.
- 3. Excellent coating speed.  
Time is greatly saved through faster application, since one pass produces 2 to 3 time thicker even film.
- 4. Wider range of airless spray unit available.  
Our integrated design program makes it possible to section proper model among various model in plunger type and diaphragm type, and over 80 sizes of standard nozzle tip and meet exactly your needs.



### Small type

*Small but tough design general purpose, Versatile design*

### Medium type

Medium type Highest pressure type

### Big type

*Sufficient capacity allows you extra job.*

- For medium and heavy viscosity material, and capable of supporting multiple guns with small tip sizes.
- For delivering extra volume and necessary high build-up coating.

### Most suitable for heavy viscosity material.

- For highly viscous paint hard to atomize
- For painting job at high or hard-to-reach places through long material hose.

### Diaphragm airless

*High performance, high function*

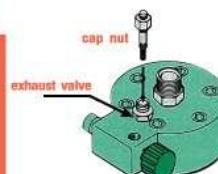
- The paint sucking power has increased greatly and can promise stable supply of paint from low to high viscosity.
- Ex-900 has a dual-pressure adjusting system and utilizes the capacity of motor effectively for high pressure use.

### Improved handling

- Suction hose is flexible and installed in vertical direction and easy to handle.

### Improved durability

- All models use fine ceramics for exhaust valve.
- EX-900 (E), EX-2200 (E) use fine ceramics for intake valve also.  
Durability increases more than 5 times compared with previous tungsten carbide.



### Easier maintenance

- Exhaust valve can be separated partially by removing cap nuts so that anybody can remove foreign matter and release ball in case it becomes stuck (except EX-400, 401).





ALS-431B



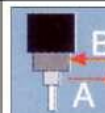




ALS-453B



ALS-653

#### Small type

Type	Model	 MPa	 ℓ/min	 n:n	 MPa	 Kg	Airless gun model
Tank	ALS-122	13.7	1.0	20 : 1	0.69	10	ALG-72
Cart	ALS-123					12	
Stand	ALS-331B	17.2	2.5	25 : 1		18	ALG-7
Tank	ALS-332B					20	ALG-72
Cart	ALS-333B					23	ALG-7




#### Medium type

Stand	ALS-431B	20.6	5.3	30 : 1	0.69	26	ALG-7
Tank	ALS-432B					27	ALG-72
Cart	ALS-433B					34	ALG-7
	ALS-453B	36.3	3.0	53 : 1			

#### Big type

Cart	ALS-653	27	12.5	45 : 1	0.60	86	multiple gun
------	---------	----	------	--------	------	----	--------------

#### Diaphragm airless

Type	Model	 MPa	 ℓ/min	Power & rated output	 Kg	Airless gun model
Cart	EX-400	17.7	3.0	Single-phase 0.4 kW	25	ALG-7
Stand	EX-401			Single-phase 0.75 kW	23	
Cart	EX-700	20.6	5.2	Engine 2.7PS	35	ALG-7
	EX-700EB		4.7	Single-phase 0.9 kW	39	
	EX-700EBL				55	
	EX-900	23.5	6.3	Single-phase 0.9 kW	40	



# AIRLESS SPRAY UNITS

## AIRLESS SPRAY GUN



ALG-7

### ALG-7/ALG-72/ALG-73 Airless Spray Gun

#### Easier cleaning

- Larger size of paint passages reduces passage resistance and prevents paints from deposition.

#### Increased safety

- The withstanding pressure is more than four times the max. operating pressure. For the safety factor and due to a recent trend, we have removed the spray lock (the safety lock has been equipped as before).

#### Improved handling

- Redesigned trigger reduces triggering load, resulting in smoother triggering.



#### Compact and lightweight

- We have greatly reduces total weight while keeping strong structure to withstand pressure.

#### Easier maintainance

- You assemble and dis assemble with general tools such as spanners, hex. Wrench etc. No need for special tools.
- Assembled fluid needle set makes assembly easy.

*\*ALG-73 has no built-in filter since it is for high viscosity paints.*

Model	 MPa	 g	Fluid nipple
ALG-7	25.0	440	G1/4
ALG-72		415	
ALG-73		450	
AL-96		480	
AP-96-05	27.5	970	G1/4
AP-96-10		1170	
AP-96-15		1450	
AP-96-20		1700	

### AP-96 Airless pole gun

Ideal for spraying "hard-to-reach" areas such as high walls or ceiling or inside of piping. Choice of extension lengths is 0.5, 1.0, 1.5 and 2.0 m.

### AL-96 Automatic airless gun

- High pressure type with compact, lightweight design.
- Paint passage made of stainless steel (SUS303, G2) suitable for water-base paint.
- Special packing for sealing paint ensures long life.
- Fluid needle packing can be tightened from outside without disassembling.
- Positive fluid shut-off and less residual fluid design at the head of the gun prevents spitting.



ALG-72



ALG-73



AL-96

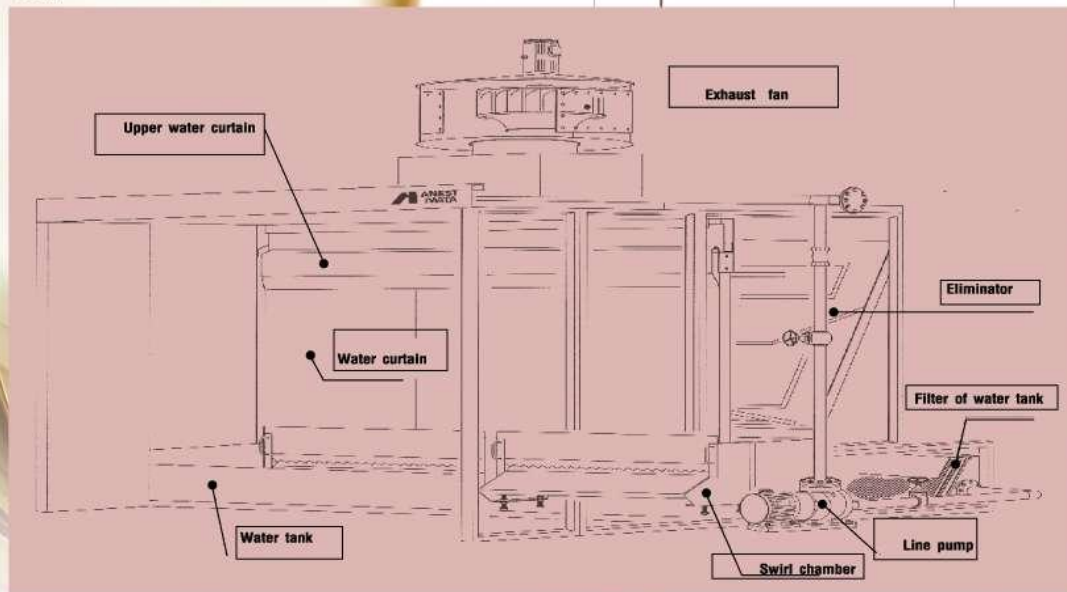


AP-96-05



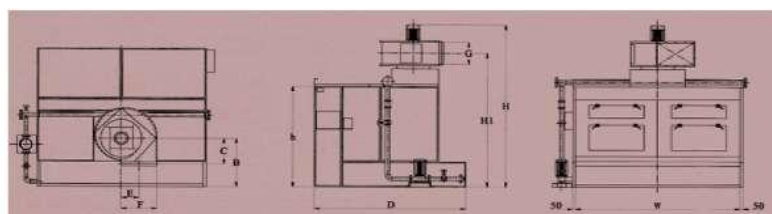
# VENTURI BOOTH

VBW



## Performance

Model			VBW-15	VBW-20	VBW-25	VBW-30	VBW-40
Item							
collection efficiency(%)	melanin paint		99.5%(Reference value)				
	lacquer paint		97.0%(Reference value)				
	acrylic paint		97.7%(Reference value)				
	urethan paint		95.7%(Reference value)				
Noise value(A)	Front	1.5m	82	81	82	84	84
	Side		75	78	79	78	83
Continuous driving without replenishment of water			About 7hours or more				
Exhaust fan	Mdel		Turbo fan with fan motor				
	Count		#4				#4-1/2
	Exhaust volume(m³/min)		110	145	180	215	290
	Velocity of exhaust(m/sec)		0.6				
	Motor model		Totally-enclosed fancooled type				
	Output(KW)		3.7		5.5		11
Pump	Mdel		Line pump with motor				
	Bore		50A			65A	
	Motor model		Totally-enclosed fancooled type (Vertical type2P)				
	Output(KW)		1.5				
Rear cleaning door			2 places			4 places	
Control board			Electromagnetic switch type				
Main body painting color			N-7.5				
Volume of water(ℓ)			945	1260	1575	1890	2520
Weight of main body(kg)			840	930	1040	1100	1240
Weight including water(kg)			1785	2190	2615	2990	3760



## Size(mm)

Model			VBW-15	VBW-20	VBW-25	VBW-30	VBW-40
Item							
Size of main body	Width		1500	2000	2500	3000	4000
	Depth		2750(Water tank 2250)				
	Height		3225	3225	3275	3275	3430
Exhaust fan	Height of center of fan(H1)		2660				2687
	B		960				960
	C		510				550
	E		325				364
	Companion flange(FxG)		652x441				730x540

# DIAPHRAGM PAINT PUMP

## 1. Stable output

Minimal pulsation

## 2. Easy clean up and color changes

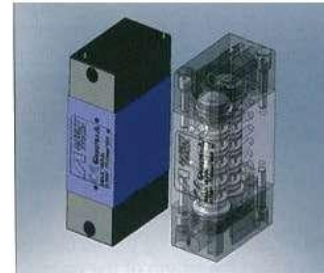
All end bells are mirror polishing to reduce the time associated with clean up and color changes.

User can also reduce wasted coatings and solvents.

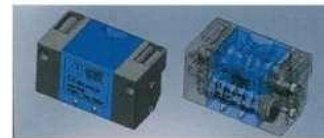
## 3. Many configuration and sized to meet your needs.

We have many sizes, varieties and configurations of diaphragm pump. One of which can be easily adapted to your specific needs.

## Air operating valve



DDP-70B



DDP-90E/-120B

## Lid Inner



DDP-70BN



DDP-90EN



DDP-120BN



DDP-160DN

## Operating principle of diaphragm pump

A very simple construction. Movement of 2 diaphragms, fitted to both ends of the rod, pressurizes and releases paint.

Compressed air enters A side air chamber of fig.1 and pushes diaphragm towards left, which releases paint.

At the same time, B side diaphragm connected to rod moves towards left also and sucks paint.

When the rod moves to left fully, air valve changes over.

Compressed air enters B side air chamber of fig.2 and pushes diaphragm towards right, Which releases paint.

At the same time, A side diaphragm sucks paint.

Pump repeats above movement of continuous suction and release, resulting in stable flow without pulsation.

## Operating

## principle of diaphragm

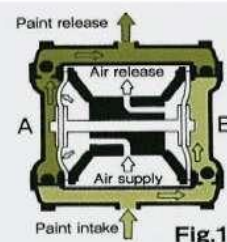


Fig.1

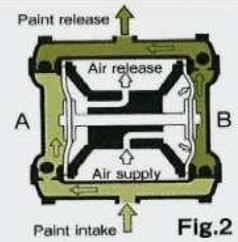


Fig.2





# Diaphragm paint pump series



Model	DDP-70B	DDP-70BN	DDP-90E	DDP-90EN	DDP-120B	DDP-120BN	DDP-160D	DDP-160DN
Material of wetted parts	Aluminum	Stainless	Aluminum	Stainless	Aluminum	Stainless	Aluminum	Stainless
Pressure ratio	1 : 1		1 : 1		1 : 1		1 : 1	
Adjustable pressure range	0.15 ~ 0.7 MPa		0.15 ~ 0.7 MPa		0.15 ~ 0.7 MPa		0.15 ~ 0.85 MPa	
Paint output/cycle	20 ml/cycle		50 ml/cycle		150 ml/cycle		330 ml/cycle	
Max. Cycle No.	300 cycle/min		200 cycle/min		200 cycle/min		200 cycle/min	
Max. Paint output	6 l/min		10 l/min		30 l/min		66 l/min	
Normal paint output (30cycle/min)	0.6 l/min		1.5 l/min		4.5 l/min		10 l/min	
Max. Paint output	60s/NK-2 (190cPs)		100s/NK-2 (300cPs)		100s/NK-2 (300cPs)		3,000cPs	
Paint temperature	5 ~ 40°C		5 ~ 40°C		5 ~ 40°C		5 ~ 40°C	
Air inlet	G1/4B (PF1/4 male)		G1/4B (PF1/4 male)		G1/4B (PF1/4 male)		G1/4B (PF1/4 male)	
Paint inlet	Rc1/4 (PF1/4 female)		G1/2B (PF1/2 male)		G1/2B (PF1/2 male)		G3/4B (PF3/4 male)	
Paint outlet	Rc1/4 (PT1/4 female)		Rc3/8 (PT3/8 female)		Rc3/8 (PT3/8 female)		Rc3/4 (PT3/4 male)	
Mass	2 kg	3.2 kg	3.1 kg	5 kg	4 kg	7.2 kg	11 kg	16.5 kg
Dimension (L x W x H)	173 x 113 x 143 mm		186 x 213 x 220 mm		207 x 223 x 274 mm		210 x 290 x 320 mm	

## Diaphragm paint pump

### 1. Stable output

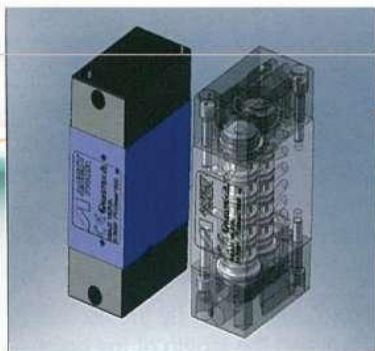
Minimal pulsation

### 2. Easy clean up and color changes

All end bells are mirror polishing to reduce the time associated with clean up and color changes. User can also reduce wasted coatings and solvents.

### 3. Many configuration and sized to meet your needs.

We have many sizes, varieties and configurations of diaphragm pump. One of which can be easily adapted to your specific needs.



# DIAPHRAGM PAINT PUMP VARIATION TYPE



DPSA-70C



DPSA-70TC



DPSA-90E

Type		Pail-mount		Transfer pump for pail		Stand Mount			
Pump set Model		DPSA-70C		DPSA-70TC		DPSA-90E	DPSA-90EN	DPSA-120B	DPSA-120BN
Diaphragm Pump	Model	DDP-70B				DDP-90E	DDP-90EN	DDP-120B	DDP-120BN
	Material of wetted parts	Aluminum				Aluminum	Stainless	Aluminum	Stainless
	Normal paint output (30cycle/min)	0.6 l/min				1.5 l/min		4.5 l/min	
	Max. Paint output	6.0 l/min				10.0 l/min		10.0 l/min	
	Adjustable pressure range	0.15 ~ 0.7MPa				0.15 ~ 0.7MPa			
Paint Regulator	Model	PR-5B	not included		PR-5B	PR-5BN	PR-5B	PR-5BN	
	Material of wetted parts	Aluminum	-		Aluminum	Stainless	Aluminum	Stainless	
	Adjustable pressure range	0~0.6 MPa	-		0~0.6 MPa				
	Max Flow	2.0 l/min			2.0 l/min				
	Max. Paint viscosity	60s/NK-2 190cPs				100s/NK-2 300cPs			
Paint temperature		5~40℃				5~40℃			
Air inlet/Paint outlet		G1/4B (PF1/4male)				G1/4B (PF1/4male)			
Paint filter		50 mesh	not included		50 mesh				
Dimensions (LxWxH)		173x393x663mm	173x213x515mm		360x348x781mm			366x357x823mm	
Mass		4 kg	3 kg		7 kg	9 kg	8 kg	11 kg	



DPSA-702C  
Pail  
tank Mount (20ℓ)

Type		Elevator Stand Type (20 l round pail)					
Pump set Model		DPSA-70LPC	DPSA-70LPCN	DPSA-90LPE	DPSA-90LPEN	DPSA-120LPB	DPSA-90LPEN
Diaphragm Pump	Model	DDP-70B	DDP-70BN	DDP-90E	DDP-90EN	DDP-120B	DDP-90EN
	Material of wetted parts	Aluminum	Stainless	Aluminum	Stainless	Aluminum	Stainless
	Normal paint output (30cycle/min)	0.6 l/min		1.5 l/min		4.5 l/min	
	Max. Paint output	6.0 l/min		10.0 l/min		30 l/min	
	Adjustable pressure range	0.15~0.7 MPa					
Paint Regulator	Model	PR-5B	PR-5BN	PR-5B	PR-5BN	PR-5B	PR-5BN
	Material of wetted parts	Aluminum	Stainless	Aluminum	Stainless	Aluminum	Stainless
	Adjustable pressure range	0~0.6 MPa					
	Max Flow	2.0 l/min					
Max. Paint viscosity		60s/NK-2 190cPs		100s/NK-2 300cPs			
Paint temperature		5~40 C					
Air inlet/Paint outlet		G1/4B(PF1/4male)					
Paint filter		50 mesh					
Dimensions (LxWxH)		410x300x823mm (Elevated height 1,120mm)		410x300x823mm (Elevated height 1,174mm)		410x300x823mm (Elevated height 1,211mm)	
Mass		18 kg	19 kg	18 kg	21 kg	19 kg	23 kg





DPSA-904E



HDP-705C



DPS-120LB

Wall Mount						Hopper	Elevator Stand Type (Pail)					
DPSA-704C	DPSA-704CN	DPSA-904E	DPSA-904EN	DPSA-1204B	DPSA-1204BN	HDP-705C	DPS-70LC	DPS-70LCN	DPS-90LE	DPS-90LEN	DPS-120LB	DPS-120LBN
DDP-70B	DDP-70BN	DDP-90E	DDP-90EN	DDP-120B	DDP-120BN	DDP-70B	DDP-70B	DDP-70BN	DDP-90E	DDP-90EN	DDP-120B	DDP-120BN
Aluminum	Stainless	Aluminum	Stainless	Aluminum	Stainless	Aluminum	Aluminum	Stainless	Aluminum	Stainless	Aluminum	Stainless
0.6 l/min		1.5 l/min		4.5 l/min		0.6 l/min	0.6 l/min		1.5 l/min		4.5 l/min	
6.0 l/min		10.0 l/min		30.0 l/min		6.0 l/min	6.0 l/min		10.0 l/min		30 l/min	
0.15 ~ 0.7MPa						0.15~0.7MPa	0.15~0.7 MPa					
PR-5B	PR-5BN	PR-5B	PR-5BN	PR-5B	PR-5BN	PR-5B	PR-5B	PR-5BN	PR-5B	PR-5BN	PR-5B	PR-5BN
Aluminum	Stainless	Aluminum	Stainless	Aluminum	Stainless	Aluminum	Aluminum	Stainless	Aluminum	Stainless	Aluminum	Stainless
0~0.6 MPa						0~0.6 MPa	0~0.6 MPa					
2.0 l/min						2.0 l/min	2.0 l/min					
60s/NK-2 190cPs		100s/NK-2 300cPs				60s/NK-2 190cPs	60s/NK-2 190cPs		100s/NK-2 300cPs			
5~40 ℃						5~40 ℃	5~40 C					
G1/4B (PF1/4male)						G1/4B (PF1/4male)	G1/4B(PF1/4male)					
50 mesh						50 mesh	50 mesh					
173x307x364mm		356x269x449mm		356x269x491mm		410x226x446mm	390x260x823mm		390x260x823mm		390x260x823mm	
							(Elevated height 1,120mm)		(Elevated height 1,174mm)		(Elevated height 1,211mm)	
4 kg	5 kg	6 kg	7 kg	6 kg	10 kg	8 kg	16 kg	18 kg	17 kg	19 kg	18 kg	22 kg



DPSA-902E  
Pail Tank Mount

Pail Tank Mount (20 l)					
DPSA-702C	DPSA-702CN	DPSA-902E	DPSA-902EN	DPSA-1202B	DPSA-1202BN
DDP-70B	DDP-70BN	DDP-90E	DDP-90EN	DDP-120B	DDP-120BN
Aluminum	Stainless	Aluminum	Stainless	Aluminum	Stainless
0.6 l/min		1.5 l/min		4.5 l/min	
6.0 l/min		10.0 l/min		30 l/min	
0.15~0.7 MPa					
PR-5B	PR-5BN	PR-5B	PR-5BN	PR-5B	PR-5BN
Aluminum	Stainless	Aluminum	Stainless	Aluminum	Stainless
0~0.6 MPa					
2.0 l/min					
60s/NK-2 190cPs		100s/NK-2 300cPs			
5~40 C					
G1/4B(PF1/4male)					
50 mesh					
308x307x689mm		307x325x687mm		307x325x729mm	
5 kg	6 kg	6 kg	8 kg	7 kg	11 kg

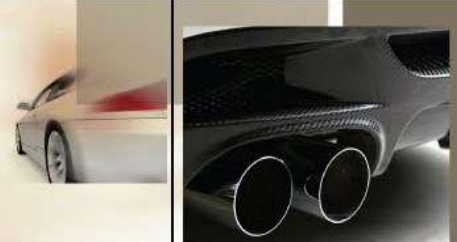
## Bellows seal pump

### Bellows seal pump



BSP-A030

1. Maximum Durability reduces maintainance and downtime.  
A Bellows seal separates the wetted parts from the air side to minimize friction and extend sevice intervals.
2. For eco-friendly paint tend to have high viscosity.  
Eco-friendly paint, such as water-based paint, tends to have high viscosity. with the 1:3 pressure ratio, the pumps primes and pumps easily.
3. For multiple spray guns.  
Paint output per cycle is high and can be used with more than 10 spray guns.
4. Usable water base paint  
Material of wetted part is made on reliable Teflon coating.



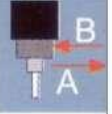

## Plunger pump

1. Paint regulators included in setup  
This means you only need to add the spray gun to get started.
2. Usable for sell paint system  
To mix with back pressure valve. It is usable for mini-circulation system.

### Plunger pump





PPS-305B

Type	Model	 n:n	 MPa	 ml/cycles	 cycles/min	 l/min	 Kg
Bellows seal pump	BSP-A030 / BSP-A030-T	3:1	0.7	570	70	40	26
Plunger pump	PPS-102B	2.3:1	0.7	-	-	2.7	16
	PPS-305B	4.6:1	0.6	-	-	4.5	29



# PAINT PRESSURE TANK (PAINT TANK)

Type		Model	Capacity	Max perssure	 mesh	 Kg
Manual mixing	Ordinary paint	PT-10D	10	0.34	60	13
		PT-20D	20			20
		PT-40D	40	0.18	70	27
		PT-60D	60			35
		PT-80D	80			39
	water base paint	PT-10DW	10	0.34	70	13
PT-20DW	20	20				
Automatic mixing	Ordinary paint	PT-10DM	10	0.34	60	14
		PT-20DM	20			23
		PT-40DM	40	0.18	70	31
		PT-60DM	60			38
		PT-80DM	80			42
	water base paint	PT-10DMW	10	0.34	70	14
		PT-20DMW	20			23
		PT-40DMW	40	0.18		31
		PT-60DMW	60			38
		PT-80DMW	80			42

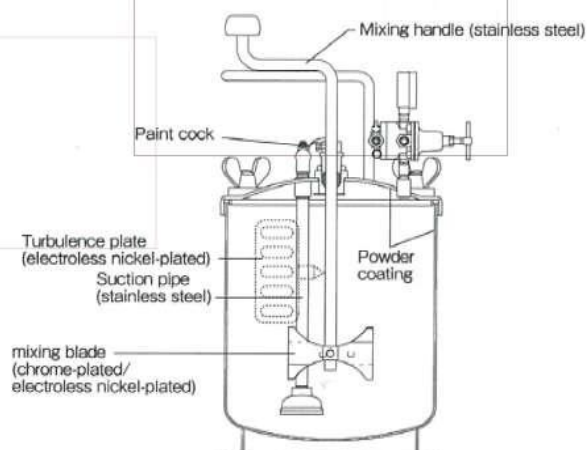
## Paint pressure tank (Paint tank) PT series

For continuous painting of a single color, the paint pressure tank is very convenient. It is available in both manual and automatic models equipped with a mixer to prevent the paint from settling. High pressure paint tank is suitable for painting high viscosity paints or adhesives as max pressure is high and fluid outlet pressure is low.

### Paint tank for water base paint

1. Interior wall has been treated to resist rust where it contacts paint. Powder coating on interior wall and two-component urethane coating on inner surface of lid. Inner containers of stainless steel are also available.
2. Mixing handle, suction pipe, and bolts which become submerged in paint are stainless steel.
3. Suction filter body, turbulence plate, support band, and fastening bands are electroless nickel-plate.
4. Manual mixing blade is chrome-plate and automatic mixing blade is electroless nickel-plated. Inner container

This container is used inside the paint pressure tank and is useful for work requiring frequent color change. Caster base



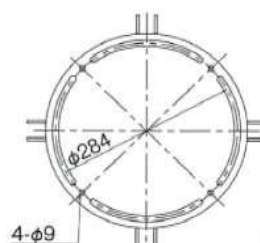
PT-10DM



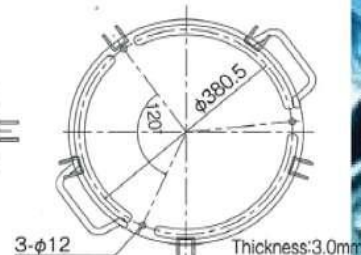
PT-20DMW



PT-40D



PT-20  
Position of fixing hole.



PT-40/60/80  
Position of fixing hole.



Inner container



Caster base