

Glossy Finish Automatic Gun
GFA SERIES

Premium Automatic Spray Gun
GFA SERIES

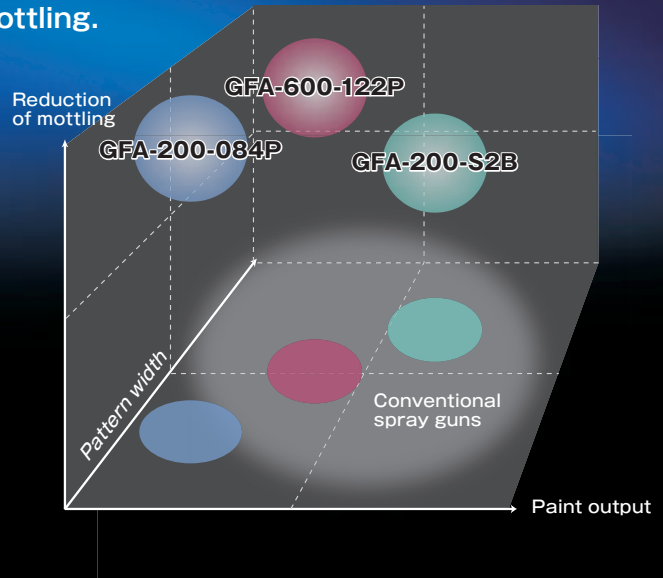


Gloss Finishing

Compared with conventional spray guns

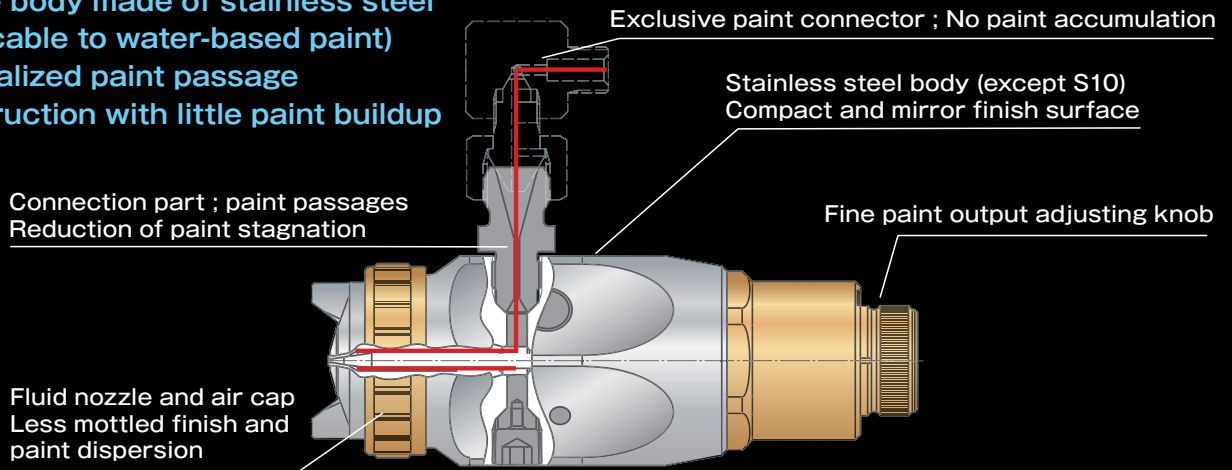
The GFA series specializes in reducing mottling.

Recently, for plastic workpieces, there has been a shift in trend toward brighter and higher gloss paints. These paints contain various solvents such as glass powders, evaporated metals, etc. In addition, a thinner paint film results and less paint output is required, thereby creating a tendency for mottling on paint surfaces. Conventional guns have been evaluated as being good to use for general purposes and for the generation of fine particle sizes, but the problem is that mottling on paint surfaces is unavoidable.



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



For small paint output applications

GFA-200-084P

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



Lightweight GFA-200-084P Model

GFA-200-S10

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



For medium paint output applications

GFA-200-S2B

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



For midiam paint putput applications(High mottling reduction)

GFA-600-122P

Features

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

Taret work pieces :

Examples

Bumper ,spoiler,rear garnish



Specifications

Type	Fluid nozzle (ϕ mm)	Spray distance (mm)	Atomizing air pressure (MPa)	Pattern air pressure (MPa)	Air consumption (ℓ /min)	Paint output (ml/min)	Pattern width (mm)	Type of air cap	Mass (g)	Material
GFA-200-084P	0.8	150	0.11	0.12	190	30-100	90	C22	630	Stainless steel
GFA-200-S10	0.8	150	0.1	0.11	210	30-100	90	C22	325	Aluminum (almitite treatment)
GFA-200-S2B	1.0	200	0.2	0.25	310	100-250	220	X6	630	Stainless steel
GFA-600-122P	1.2	200	0.2	0.4	600	100-200	160	G21	680	titanium

Accessory



Cover protector for paint adjusting device



Exclusive paint connector



Exclusive spanner (optional)

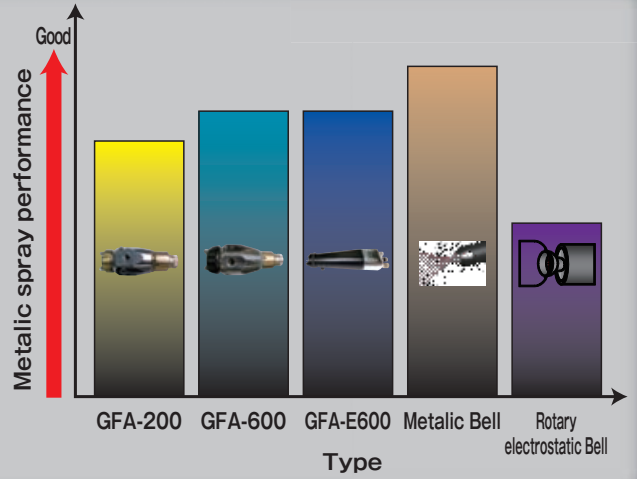
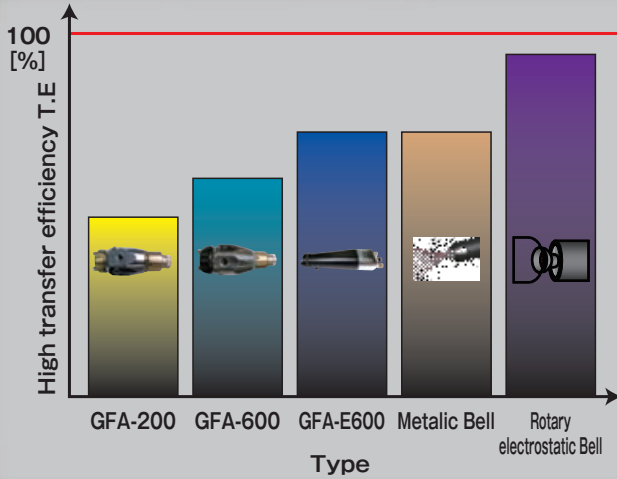
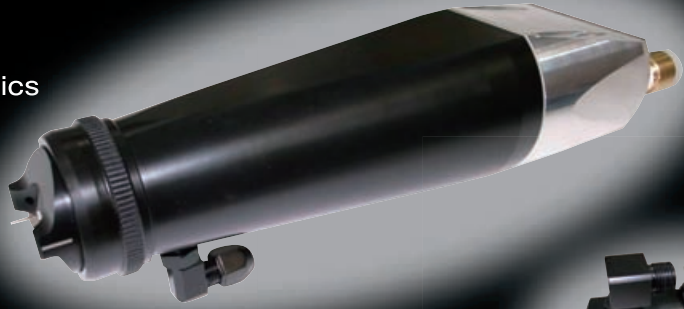
Special parts specifications

Type	Part name	Specifications	Purpose
GFA-200-X11	Nozzle piston set	Nozzle orifice ϕ 1.0mm	No paint accumulation
GFA-200-X18	Nozzle piston set	Needle valve and nozzle sheet is made of carbide	or the paint of abrasion property
GFA-200-X19	Air cap set	Small pattern	For spindle spray

GFA-E600-134X

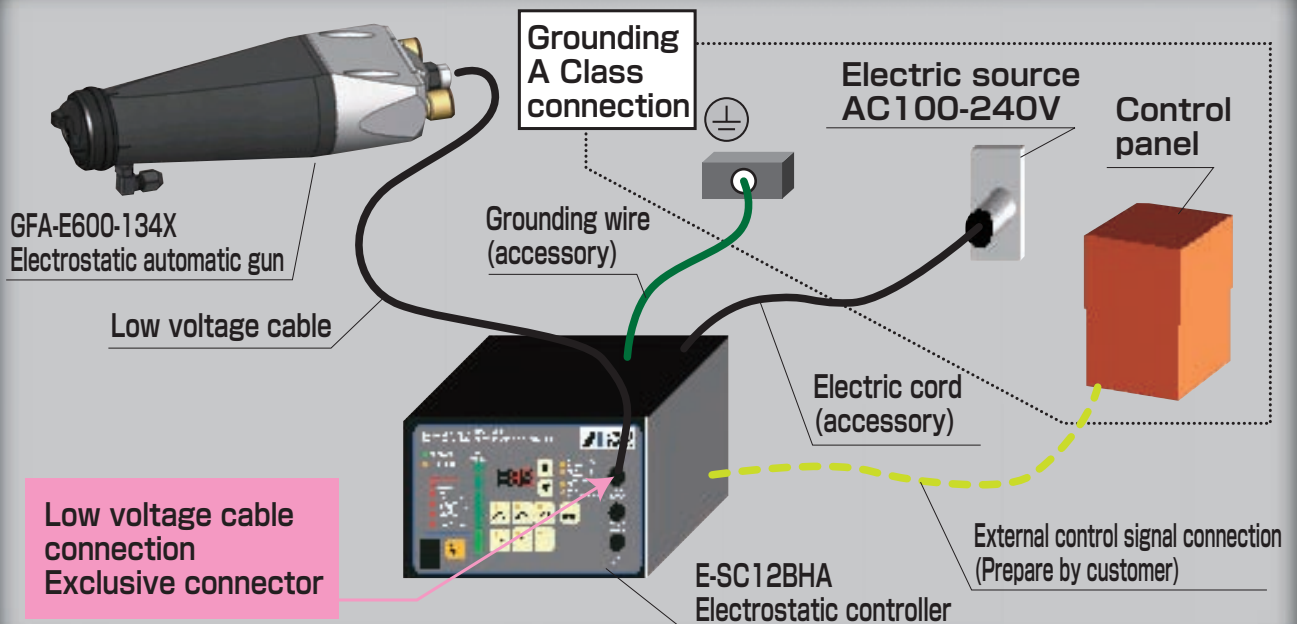
Features

- 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.



Specifications

Type	Fluid nozzle (φmm)	Spray distance (mm)	Atomizing air pressure (MPa)	Pattern air pressure (MPa)	Air consumption (ℓ/min)	Paint output (ml/min)	Pattern width (mm)	Type of air cap	Mass (g)	Material	Gun output voltage
GFA-E600-134X	1.3	200	0.2	0.37	560	100~200	150	GFA-E600-H21	940	Resin (Body)	-60kV



Mottling reduction performance has been realized.

To make thinner paint film with a high-gloss finish when a small paint output is required, conventional spray guns have created mottling and an inclined spray pattern. A thorough pursuit has been undertaken to find the cause of mottling and all possible air flows have been analyzed. As a result, the cause of mottling has been eliminated.

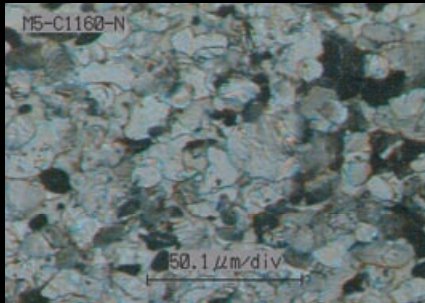
Compared with conventional spray guns

Painted by conventional spray gun

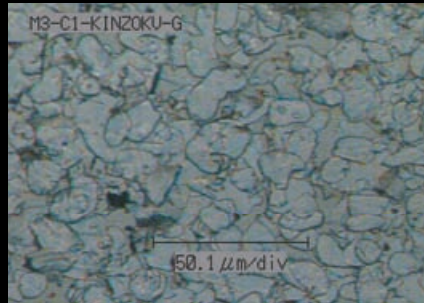
Painted by GFA-200-084P



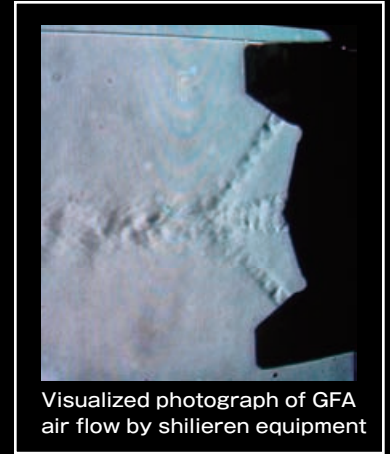
— Enlarged microscopic image(2000 times) —



Metal flakes are floating and coloring pigments are coagulated.



Metal flakes are distributed evenly without flake floating, and coloring pigments are distributed evenly.

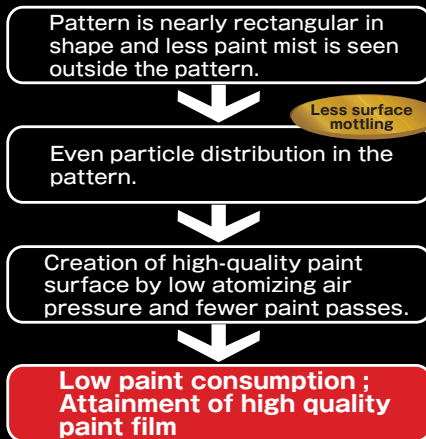
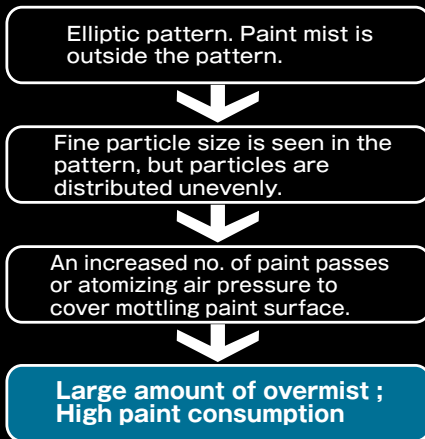
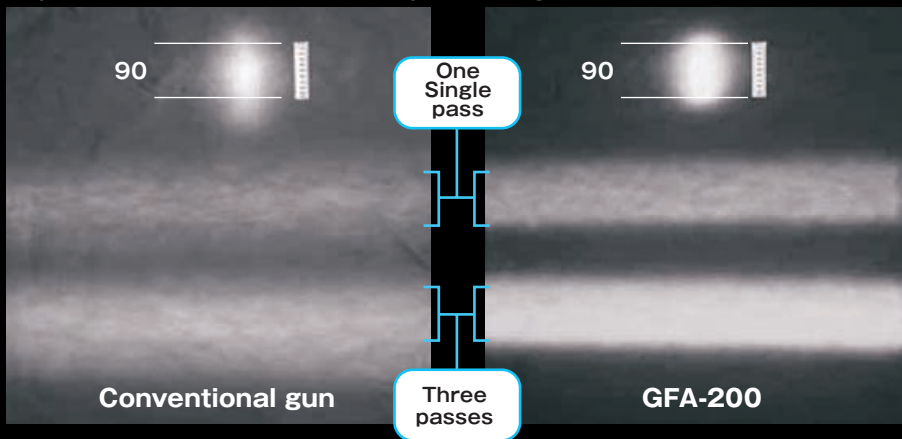


Painting conditions

Paint : metal-tinged paint
 Paint output : 70ml/min
 Number of gun passes : 3times
 Paint film thickness : 6μ

Reduction of paint consumption

Most customers using GFA-200 have attained an improved finish quality and reduced paint consumption by 10 to 50%. ※A reduction of paint consumption is attained by a lower level of mottling, which, in turn, reduces the required number of passes, rather than through an improved transfer efficiency of the gun.



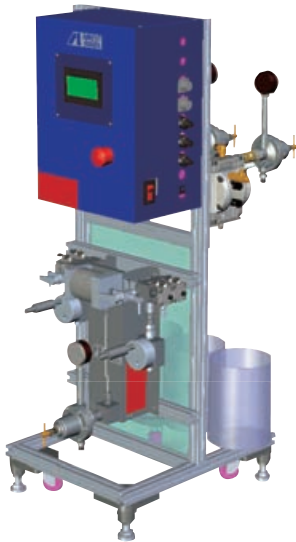
Actual production line examples

- ① Cellular phone body : Painted with metallic color clear paint
Paint consumption saved : 15~22%
- ② LCD TV frame : Painted with metallic paint
Paint consumption saved : 25%
- ③ AV equipment components : Painted with metallic paint
Paint consumption saved : 15~25%
- ④ Plastic parts : painted with metallic paint
Paint consumption saved : 15~45%
- ⑤ Car bumpers : Painted with metal tinged paint
Manual gun line >>> Automatic gun line
- ⑥ Automotive garnish : Painted with metallic and pearl paints
Cycle time saved : 50%

Specialist for supply pump system
Sylinder pump unit(CYP Series)

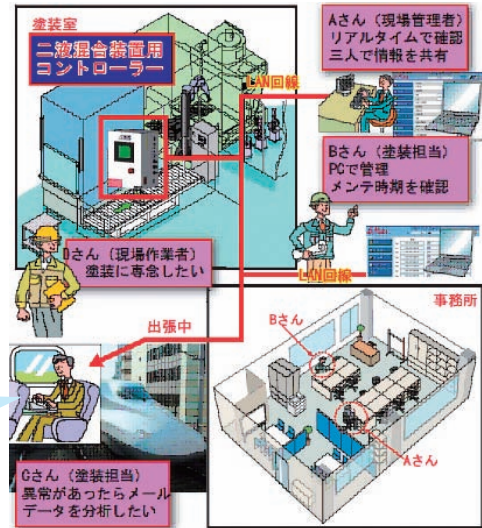


Achieving amazingly fast and precise with
 unique highly advantaged technologies
Paint coating robot system(APR series)



Essential product for two
 component paint coating
**Two component
 mixing unit
 {I 4 Mixser series}**

Web Manager
 Achieving to watch job
 site from office by
 monitoring function



Safety precautions

For operation

- 1 Never use these spray guns for purposes other than coating.
- 2 Before use, be sure to carefully read the instruction manual for correct usage.
- 3 Never alter these products for any application. If done, it can cause poor performance or failure.

Others

1. Figures in this catalog are measured using our paints for testing purposes.
 These figures will differ according to the kinds of paints used and the painting conditions.

Products mentioned in this catalog are subject to use in Japan. When products are purchased in Japan and exported to another country, first check the local regulations and safety standards in the country to which you are exporting the products and export them accordingly. Specifications are subject to change without notice. Owing to changes in specifications, the products and results may be different from the photos in this brochure.



ANEST IWATA Corporation

3176, Shinyoshida-cho, Kohoku-ku,
 Yokohama 223-8501, Japan
 Tel: 045-591-1118 Fax: 045-591-1137
<http://www.anest-iwata.co.jp/>