

# **AirPro EFX**<sup>TM</sup>

**Automatic Air Spray Gun Designed for Precision Finishing** 



The AirPro EFX is a complete line of air spray automatic guns with optimized performance for the most precise spray finishing. All aspects of the AirPro EFX are designed to meet the demands of small component precision finishing including:

- Aircaps and nozzles deliver superior, precision spray performance
- Precision fluid adjustment with a micrometer-telescoping knob
- High wear components designed for abrasive materials
- Excellent fluid flow rate stability and repeatability
- · Compact and lightweight gun

## **Innovative Engineering and Design**

Infused with the latest technology and performance features, the AirPro EFX gun offers countless innovations for the fine finish market.

- 5 spray technologies including the exclusive HiTEch
- 6 nozzle sizes for flow rates as low as 10 cc per minute, up to 350 cc per minute
- 3 fluid adjustment knobs for greater flow rate precision
- 2 mounting styles for manufacturing line flexibility

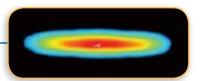
## **Breakthrough Technology**

## **Apply Superior Finishes**

Each AirPro EFX gun is analyzed for spray pattern excellence so you get precise coverage every time you spray.

Laser light imaging technology verifies spraying benchmarks are met or exceeded for each AirPro EFX gun – guaranteeing the following criteria:

- · High quality spray pattern shape
- · Enhanced atomization for outstanding finish quality
- Even material distribution through the spray pattern for optimum coverage



Actual spray pattern produced using laser light sheet imaging technology

## **Advanced Aircap Technologies**

### **HiTEch**

A high transfer efficiency gun with excellent atomization. Aircaps and nozzles are designed to deliver superior finish quality while reducing overspray.

## **Air Brush**

Delivers a round spray pattern for precise, small surface area spraying. The ability to control pattern size decreases material usage.



## **Versatile Product Line**

Offered in five air spray technologies, including air brush, Graco's AirPro EFX automatic gun has the versatility and flexibility to accommodate a variety of spraying needs.









	HiTEch	LVMP	HVLP	CONVENTIONAL
FINISH QUALITY	Best	Better	Cood	Best
TRANSFER EFFICIENCY	High	Medium	Modium	Low
FLUID FLOW	Medium	Medium	LUW	High
AIR FLOW	High	Low	High	Low



## **Engineered for Accuracy**

## **Light, Compact and Perfect for Robotic Applications!**

The AirPro EFX air spray automatic guns are among the lightest and most compact guns in their class. With no internal air shutoff mechanism, the AirPro EFX delivers increased reliability and precision fluid flow. The modest size and weight of this gun make it an excellent choice for fixed, reciprocating and robotic applications.

## **Features**



#### **Aircaps**

- Available in five air spray technologies, including HiTEch and air brush
- Indexing aircap provides fast, accurate positioning in the vertical or horizontal position

## 2

## **Nozzle and Needle**

- Optimized for maximum flow rate adjustability
- Available in tungsten carbide for increased life with abrasive and metallic coatings
- Delivers excellent flow rate stability and repeatability

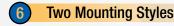
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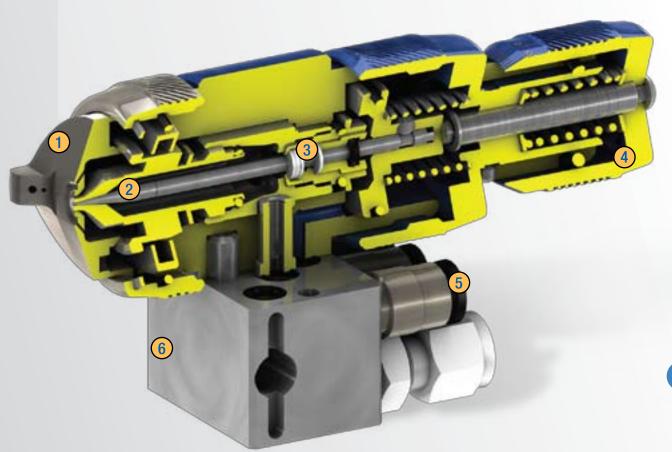
### Needle Packing

- Design and material construction is durable for long life with abrasive materials, including UV coatings
- Three Fluid Adjustment Knob Styles

## 5 Air Inlet

- Separate inlets for atomizing, fan and trigger air provide increased control
- Quick disconnect air fittings decrease time needed for repairs





## Mounting and Fluid Adjustment Options

## Fluid Adjustment Knobs





Micrometer telescoping knob for precision fluid adjustment with numerical indexing for retainable adjustment settings

### Indexing knob



Fluid adjustment in fine flow increments

## Lock ring and cap



Simple thread adjustment with locking ring

## **Flexible Gun Mounting**

## Manifold Style

- Durable stainless steel fluid passages
- Recirculation up to the nozzle for no dead spots
- Quick removal of the gun from the manifold for easy repair
- Manifold guarantees gun positioning even after gun repairs
- Mounting rod included for ease of installation

## **Direct Connect Style**

- Hose fittings connect directly to gun
- Quick disconnect air fittings
- · HiTEch gun models have stainless steel fluid fittings
- · Top attachment slot for consistent mounting



## **Ordering Information**

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- 1. Choose Manifold or Direct Connect style gun
- 2. Select Spray Type (HiTEch, LVMP, HVLP, Conventional or Air Brush)
- 3. Select material viscosity
- 4. Select average flow rate

## **Manifold Style Guns**

Part Number	Spray Type	Nozzle Size	Material Viscosity*	Flow	Needle Tip/ Nozzle Material	Fluid Adjustment Knob	Needle/Nozzle Kit Part No.	Air Cap with Pin Part No.
24B866	HiTEch	0.7 mm (0.028 in)	light	10 - 100 cc/min (0.3 - 3.4 oz/min)	SST	Ultra Precision	24D303	24D703
24B867	HiTEch	1.0 mm (0.039 in)	light-medium	20 - 200 cc/min (0.7 - 6.8 oz/min)	Carbide	Ultra Precision	24C221	24D703
24B868	HiTEch	1.5 mm (0.059 in)	medium	45 - 450 cc/min (1.5 - 15.2 oz/min)	Carbide	Ultra Precision	24C201	24D704
24B869	LVMP	0.5 mm (0.020 in)	light	5 - 50 cc/min (0.2 - 1.7 oz/min)	SST	Ultra Precision	24D277	24C184
24B870	LVMP	0.7 mm (0.028 in)	light	10 - 100 cc/min (0.3 - 3.4 oz/min)	SST	Ultra Precision	24D278	24C184
24B871	LVMP	0.9 mm (0.035 in)	light-medium	15 - 150 cc/min (0.5 - 5.1 oz/min)	SST	Ultra Precision	24D279	24C184
24B872	LVMP	1.1 mm (0.043 in)	light-medium	25 - 250 cc/min (0.8 - 8.5 oz/min)	SST	Ultra Precision	24D280	24C184
24B873	LVMP	1.3 mm (0.051 in)	medium	35 - 350 cc/min (1.2 - 11.8 oz/min)	SST	Ultra Precision	24D281	24C184
24B874	LVMP	1.5 mm (0.059 in)	medium	45 - 450 cc/min (1.5 - 15.2 oz/min)	Carbide	Ultra Precision	24D284	24C184
24B862	HVLP	0.5 mm (0.020 in)	light	5 - 50 cc/min (0.2 - 1.7 oz/min)	SST	Indexing	24D302	24C183
24B863	HVLP	0.7 mm (0.028 in)	light	10 - 100 cc/min (0.3 - 3.4 oz/min)	SST	Indexing	24D303	24C183
24B864	HVLP	1.1 mm (0.043 in)	light-medium	25 - 250 cc/min (0.8 - 8.5 oz/min)	SST	Indexing	24D305	24C183
24B865	HVLP	1.3 mm (0.051 in)	medium	35 - 350 cc/min (1.2 - 11.8 oz/min)	SST	Indexing	24D306	24C183
24B857	Conventional	0.7 mm (0.028 in)	light	10 - 100 cc/min (0.3 - 3.4 oz/min)	SST	Indexing	24C197	24C182
24B858	Conventional	0.9 mm (0.035 in)	light-medium	15 - 150 cc/min (0.5 - 5.1 oz/min)	SST	Indexing	24C198	24C182
24B859	Conventional	1.1 mm (0.043 in)	light-medium	25 - 250 cc/min (0.8 - 8.5 oz/min)	SST	Indexing	24C199	24C182
24B860	Conventional	1.3 mm (0.051 in)	medium	35 - 350 cc/min (1.2 - 11.8 oz/min)	SST	Indexing	24C200	24C182
24B861	Conventional	1.5 mm (0.059 in)	medium	45 - 450 cc/min (1.5 - 15.2 oz/min)	Carbide	Indexing	24C201	24C182
24B875	Air Brush	0.7 mm (0.028 in)	light	10 - 100 cc/min (0.3 - 3.4 oz/min)	SST	Indexing	24C197	24D705

## **Direct Connect Style Guns**

Part Number	Spray Type	Nozzle Size	Material Viscosity*	Flow	Needle Tip/ Nozzle Material	Fluid Adjustment Knob	Needle/Nozzle Kit Part No.	Air Cap with Pin Part No.
24B884	HiTEch	0.7 mm (0.028 in)	light	10 - 100 cc/min (0.3 - 3.4 oz/min)	SST	Ultra Precision	24D303	24D703
24B885	HiTEch	1.0 mm (0.039 in)	light-medium	20 - 200 cc/min (0.7 - 6.8 oz/min)	Carbide	Ultra Precision	24C221	24D703
24B886	HiTEch	1.5 mm (0.059 in)	medium	45 - 450 cc/min (1.5 - 15.2 oz/min)	Carbide	Ultra Precision	24C201	24D704
24B887	LVMP	0.5 mm (0.020 in)	light	5 - 50 cc/min (0.2 - 1.7 oz/min)	SST	Indexing	24D277	24C184
24B888	LVMP	0.7 mm (0.028 in)	light	10 - 100 cc/min (0.3 - 3.4 oz/min)	SST	Indexing	24D278	24C184
24B889	LVMP	0.9 mm (0.035 in)	light-medium	15 - 150 cc/min (0.5 - 5.1 oz/min)	SST	Indexing	24D279	24C184
24B890	LVMP	1.1 mm (0.043 in)	light-medium	25 - 250 cc/min (0.8 - 8.5 oz/min)	SST	Indexing	24D280	24C184
24B891	LVMP	1.3 mm (0.051 in)	medium	35 - 350 cc/min (1.2 - 11.8 oz/min)	SST	Indexing	24D281	24C184
24B881	HVLP	0.7 mm (0.028 in)	light	10 - 100 cc/min (0.3 - 3.4 oz/min)	SST	Indexing	24D303	24C183
24B882	HVLP	1.1 mm (0.043 in)	light-medium	25 - 250 cc/min (0.8 - 8.5 oz/min)	SST	Indexing	24D305	24C183
24B883	HVLP	1.3 mm (0.051 in)	medium	35 - 350 cc/min (1.2 - 11.8 oz/min)	SST	Indexing	24D306	24C183
24B877	Conventional	0.7 mm (0.028 in)	light	10 - 100 cc/min (0.3 - 3.4 oz/min)	SST	Lock Ring	24C197	24C182
24B878	Conventional	0.9 mm (0.035 in)	light-medium	15 - 150 cc/min (0.5 - 5.1 oz/min)	SST	Lock Ring	24C198	24C182
24B879	Conventional	1.1 mm (0.043 in)	light-medium	25 - 250 cc/min (0.8 - 8.5 oz/min)	SST	Lock Ring	24C199	24C182
24B880	Conventional	1.3 mm (0.051 in)	medium	35 - 350 cc/min (1.2 - 11.8 oz/min)	SST	Lock Ring	24C200	24C182
24B892	Air Brush	0.7 mm (0.028 in)	light	10 - 100 cc/min (0.3 - 3.4 oz/min)	SST	Indexing	24C197	24D705

\*Light: 20 or less centipoise Light-Medium: 21 - 42 centipoise Medium: 43 - 64 centipoise

## **Technical Specifications**

### **Technical Data**

Maximum working fluid pressure	
Wetted Parts Manifold style guns	Nylon, PTFE, Stainless Steel, Ultra High Molecular Weight Polyethylene, Tungsten Carbide
Direct Connect style guns	

## **Triggering Speed**

These values apply to a new gun with a 12 ft (3.6 m), 1/4 in (6.3 mm) OD cylinder air line and a 1.1 m (0.043 in) nozzle. Values will vary slightly with use and with variations in equipment.

Cylinder Air Pressure	Fluid Pressure	Air Pressure	MSEC to Fully Open	MSEC to Fully Close
50 psi (3.5 bar, 0.35 kPa)	50 psi (3.5 bar, 0.35 kPa)	100 psi (7 bar, 0.7 kPa)	48	84

### **Accessories**

24C216 Fittings Kit, 1/4 inch

Includes 3 air fittings and 2 fluid fittings

24D143 Robot Adapter Kit Fanuc Paint Mate 200

Compatible with and without manifold

24D008 Inlet Air Needle Valve

Includes needle valve and 6 mm tube fitting

24C214 HVLP Pressure Verification Kit

For use in checking air cap atomizing and fan pattern air pressure at various supply air pressures. Not to be used

for actual spraying.

#### Fluid Adjustment Knobs

24D065 Ultra-Precision Knob

Micrometer telescoping knob which is indexed for precision adjustment

24C2O4 Indexing Knob

Fluid adjustment in fine flow increments

24C2O3 Lock Ring and Cap

Simple thread adjustment with locking ring

## **Needle Assembly Identification**

Part Number	Needle Assembly Size	# of Grooves	Material
24C190	0.5 mm (0.020 in)	1	SST
24C191	0.7 mm (0.028 in)	2	SST
24C192	0.9 mm (0.035 in)	3	SST
24C220	1.0 mm (0.039 in)	0	Carbide
24C193	1.1 mm (0.043 in)	4	SST
24C194	1.3 mm (0.051 in)	5	SST
24C195	1.5 mm (0.059 in)	0	Carbide





#### **ABOUT GRACO**

#### PROVEN QUALITY. LEADING TECHNOLOGY.

Founded in 1926, Graco is a world leader in fluid handling systems and components. Graco products move, measure, control, dispense and apply a wide range of fluids and viscous materials used in vehicle lubrication, commercial and industrial settings.

The company's success is based on its unwavering commitment to technical excellence, world-class manufacturing and unparalleled customer service. Working closely with qualified distributors, Graco offers systems, products and technology that set the quality standard in a wide range of fluid handling solutions. Graco provides equipment for spray finishing, protective coating, paint circulation, lubrication, and dispensing sealants and adhesives, along with power application equipment for the contractor industry. Graco's ongoing investment in fluid management and control will continue to provide innovative solutions to a diverse global market.

#### **GRACO LOCATIONS**

#### MAILING ADDRESS

P.O. Box 1441 Minneapolis, MN 55440-1441 Tel: 612-623-6000 Fax: 612-623-6777

#### **AMERICAS**

#### **MINNESOTA**

Worldwide Headquarters Graco Inc. 88-11th Avenue N.E. Minneapolis, MN 55413

#### **EUROPE**

#### **BELGIUM**

European Headquarters Graco N.V. Industrieterrein-Oude Bunders Slakweidestraat 31 3630 Maasmechelen, Belgium Tel: 32 89 770 700

Tel: 32 89 770 700 Fax: 32 89 770 777

#### **ASIA PACIFIC**

#### AUSTRALIA

Graco Australia Pty Ltd. Suite 17, 2 Enterprise Drive Bundoora, Victoria 3083 Australia Tel: 61 3 9467 8558

Tel: 61 3 9467 8558 Fax: 61 3 9467 8559

#### **CHINA**

Graco Hong Kong Ltd.
Shanghai Representative Office
Room 118 1st Floor
No.2 Xin Yuan Building
No.509 Cao Bao Road
Shanghai, 200233
The People's Republic of China
Tel: 86 21 649 50088

Fax: 86 21 649 50077

#### INDIA

Graco Hong Kong Ltd. India Liaison Office Room 432, Augusta Point Regus Business Centre 53 Golf Course Road Gurgaon, Haryana India 122001

Tel: 91 124 435 4208 Fax: 91 124 435 4001

#### JAPAN

Graco K.K. 1-27-12 Hayabuchi Tsuzuki-ku Yokohama City, Japan 2240025 Tel: 81 45 593 7300 Fax: 81 45 593 7301

### KOREA

Graco Korea Inc.
Shinhan Bank Building
4th Floor #1599
Gwanyang-Dong, Dongan-Ku,
Anyang-si, Korea 431-060
Tel: 82 31 476 9400
Fax: 82 31 476 9801

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