

# **Meiji's Lineup of Advanced Spray Guns**

Spray painting directly affects the global environment and there is a great need to make this type of work environmentally friendly. As Japan's oldest manufacturer of spray painting equipment, Meiji combines extensive know-how and the latest technologies with demanding quality control to develop spray guns offering exceptional atomization and adhesion efficiency. Lightweight and well-balanced, Meiji spray guns are both people-friendly and environment-friendly. A full lineup of models meets virtually any need.

# Protecting the Global Environment...

# F110/F210 Series

Multipurpose

In addition to a straight pattern for multipurpose painting, this series offers a tulip pattern for both small (F110) and large (F210) high-grade painting applications. Furthermore, a semi-tulip pattern is added for F110. Select the perfect model for any type of paint and painting conditions. Designed to maximize the air circuit, these spray guns prevent pressure loss for improved atomization at lower pressure.







# F410 Series

Center cup type



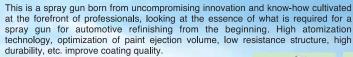


This series offers low volume medium pressure (LVMP) in beatiful atomization and better transfer efficiency. Also, beatiful gun body with chrome palting brings long lasting and easy cleaning. Furthermore, easy operation is available by reducing trigger load with lower resistance packing. You can find out a suitable model in many kinds of nozzle bore and air cap.



# FINER-CORE Series FINER-FORCE Series

Automotive



In addition to FINER-FORCE series, the center cup specification FINER-CORE series and F410 series are available. Compatible with all spray styles. It is a spray gun that is presented to craftsmen all over the world as a tool that responds to craftsmanship and sensibility.





# F110L/A110L Series

Low-pressure atomization



This series offers exceptional atomization at a very low air cap internal pressure (0.07MPa(10PSI) for pressure feed and 0.05MPa(7PSI) for suction or gravity feed), featuring less spattering and splashback, reduced paint consumption, and an improved work environment. The series is well-balanced and shaped to fit comfortably in the hand. The beautiful surface finishing provides excellent wear and corrosion resistance.

The Series also includes automatic spray guns. High transfer efficiency and low spattering make them people-friendly and environment-friendly while lowering costs.







F75 ('70s)



F88 ('80s)











F410G(2012~) FINER-CORE(2020

# Our Full Lineup of Meiji Spray Guns Meets Virtually Any Need.

## **Model Number Code Key** Gun body type

FINER-FORCE-P | Small spray guns F110 — Large spray guns

FINER-CORE

FINER-FORCE -

FINER SPOT -

F-ZERO -

FINERII -

F110-G13T

Pattern shape or type

Nozzle bore size

Two-digit number indicates the bore size of the nozzle, omitting the decimal point.

Paint feed system

P : Pressure S : Suction

G: Gravity

Low-pressure atomization spray guns: Compact spray guns

Center cup type automotive refinishing spray guns

Center cup type large spray guns

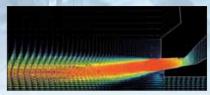
Automotive refinishing spray guns

# **Guide for Selecting a Hand Spray Gun**

•: Ideal O: Possible

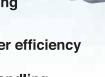
Type of paint		Urethane		Lacquer	anamal .	Phthalic lithin	Acrylic	Гасан	Polyester	Adhesive	Porcelain	D	aint viscosi		Cina	of object pa	inted
Object painted		Ulethane		Lacquei	enamei	lithin	ACTYLIC	Epoxy	Follyester	Autlesive	enamel	г	allit viscosi	ty	SIZE	on object pa	anneu
Model No.	Auto- mobi <b>l</b> es	Metal	Wood	Metal	Wood	Metal	Metal	Metal	Wood	Wood		Low	Medium	High	Small	Medium	Large
FINER-CORE	•																
F410	•	0	0	0	0	0	0	0									
FINER-FORCE	•																
F-ZERO																	
FINERI	•																
FINER SPOT	•																
FINER-FORCE-P	•	•	•	•	•		•	•									
F110-P08P	•	•	•	•	•		•	•									
P10P	0	•	•	•	•		•	•									
P13P	0	0	0				•	0									
P15P							•										
F110-S10				•	•		0										
S13	0	0	0	•	•		•	0									
S15	0	0	•	•	•	0	•	•									
S20					•			0									
F110-S10T	•			0	0		0										
S13T	•	•	0	0	0		•	0									
S15T	•	•	•	0	0		•	•									
S20T			•		•			0				_					
F110-S13ST		•	0	0	0		•	0				_					
S15ST		•	•	0	0		•	•				_	1				
F110-G10				•	•	0	0					_					
G13	0	0	0	•	•		•	0				_					
G15 G20	0	0	•	•	•		•	•									
F110-G10T	•			0	0		0	0				_	+				
G13T		•	0	0	0		•	0					•		-	•	
G15T			•	0	0			•				_					
G20T			•	0	•			0									
F110-G13ST	•	•	0	0	0		•	0				1			1	*	
G15ST			•	0	0			•				_					
F110-G08R				0	0												
G25R											•		1	1		1	
F210-P12P	•	•	•	0	0	•	•	•				1					1
P15P			•			•		0	0			_					
P20P									•					1			
P25P										•							
F210B-P30P										•							
F210-S15	0	0	•	•	•		•	0									
S20	0	0	•		•	•	•	•						1			
S25						0											
F210B-S30									0	•							
F210-S15T	•	•	•	0	0		•	0									
S20T	0	•	•	0	0	0	•	•						1			
S25T									•	•							
	-							and other o									

# State-of-the-art Hand Spray Gun based on customer satisfaction



New atomizing system Improving the spray finishing by optimum air flow

High transfer efficiency Heavy duty **Excellent handling** 



Realizing high quality paint film by optimum spraying paint volume.

Stable air flow vastly realizes the prevention of air pressure lost.

Reduction of paint consumption, and small air consumption in saving energy.

Optimum air flow brings the reduction of paint adhesion to air cap set.

Easy handling with optimum weight balance and light weight.

Reduction of trigger load, and improvement of usability with lower resistance packing.

Waterborne compatibility.

Improvement of parts durability.

Addition of Semi-tulip pattern.

Each nozzle bore size has its own air cap set.

Air cap sets for suction, gravity, and pressure type are interchangeable in the same fluid nozzle bore size.



Designed specifically for touch-up work to provide the ideal spray for painting small to medium-sized areas.

Special air cap 10PMAS is ideal for spraying pressure at 0.4MPa(58PSI) in the line painting.

Stainless steel passage for waterborne compatibility. (F110-P0810PMAS, F110-P10PMAS)

Designated specially for line painting work to provide beautiful finishing in higher atomization and wider pattern width.



Semi-tulip pattern



Tulip pattern



Triangle pattern (for multi-purpose paints)

## F110 Series (Small spray guns)

Model No.	Paint feed system	Nozz <b>l</b> e bore	Standard air cap	Spraying pressure	Spraying distance	Air con- sumption	Paint spraying volume	Maximum effective pattern width	Pattern shape	Required compressor output	Weight	Standard paint cup
	System	mm(in)	all cap	MPa(PSI)	mm(in)	L/min(cfm)	mL/min	mm(in)	Sliape	kŴ	(lbs)(oz)	pann cup
F110-P08P		0.8(0.031)	08P			220(7.8)	180	230(9.055)				
F110-P10P		1.0(0.039)	10P	0.25(36)	200(7.874)	230(8.1)	245	240(9.449)			293	Paint pressure
F110-P13P	Pressure	1.3(0.051)	13P	0.23(30)	200(7.074)	280(9.9)	310	270(10.630)	Tulip	1.5 or more	(0.65)(10.3)	feed tanks,
F110-P15P	riessuie	1.5(0.059)	15P			290(10.2)	330	275(10.827)	Tulip	1.5 01 111010		diaphragm
F110-P0810PMAS		0.8(0.031)	10PMAS	0.4(58)	300(11.811)	340(12.0)	175	245(9.646)			301	paint pumps
F110-P10PMAS		1.0(0.039)	10PMAS	0.4(56)	300(11.611)	340(12.0)	230	260(10.236)			(0.66)(10.6)	
F110-S10		1.0(0.039)	10			110(3.9)	90	130(5.118)		0.4 or more		7SB
F110-S13	Suction	1.3(0.051)	13	0.25(36)	200(7.874)	140(4.9)	130	160(6.230)	Triangle		293	10SB-2
F110-S15	Juction	1.5(0.059)	15	0.23(30)	200(7.074)	160(5.6)	160	170(6.693)	Thangle	0.75 or more	(0.65)(10.3)	7SLB
F110-S20		2.0(0.079)	20			175(6.2)	210	185(7.283)				10SLB-2
F110-S10T		1.0(0.039)	10T			170(6.0)	75*	160(6.230)*				7SB
F110-S13T	Suction	1.3(0.051)	13T	0.2(29)	200(7.874)	200(7.1)	125*	180(7.087)*	Tulip -	1.5 or more	293	10SB-2
F110-S15T	Juction	1.5(0.059)	15T	0.2(29)	200(7.074)	215(7.6)	150*	185(7.283)*	Tulip	1.5 01 111010	(0.65)(10.3)	7SLB
F110-S20T		2.0(0.079)	20T			225(7.9)	180*	210(8.268)*				10SLB-2
F110-S13ST	Suction	1.3(0.051)	13ST	0.25(36)	200(7.874)	215(7.6)	150	160(6.230)	Semi-Tulip	1.5 or more	293	7SB, 10SB-2
F110-S15ST	Ouction	1.5(0.059)	15ST	0.23(30)	200(7.074)	225(7.9)	180	170(6.693)	Jeini-Tulip	1.5 01 111010	(0.65)(10.3)	7SLB, 10SLB-2
F110-G10		1.0(0.039)	10			110(3.9)	95	140(5.512)		0.4 or more		1G-2U, 2GD, 4GD
F110-G13	Gravity	1.3(0.051)	13	0.25(36)	200(7.874)	140(4.9)	150	170(6.693)	Triangle		293	4GF-U, 4GB-U
F110-G15	Gravity	1.5(0.059)	15	0.23(30)	200(7.074)	160(5.6)	180	180(7.087)	Thangle	0.75 or more	(0.65)(10.3)	4GPA-U, 4G-TA
F110-G20		2.0(0.079)	20			175(6.2)	260	195(7.677)				
F110-G10T		1.0(0.039)	10T			170(6.0)	90*	180(7.087)*				10 011 000 400
F110-G13T	Gravity	1.3(0.051)	13T	0.2(29)	200(7.874)	200(7.1)	160*	210(8.268)*	Tulip -	1.5 or more	293	1G-2U, 2GD, 4GD 4GF-U, 4GB-U
F110-G15T	Gravity	1.5(0.059)	15T	0.2(23)	200(7.074)	215(7.6)	180*	215(8.465)*	Tulip	1.0 01 111010	(0.65)(10.3)	4GPA-U, 4G-TA
F110-G20T		2.0(0.079)	20T			225(7.9)	235*	240(9.449)*				,
F110-G13ST	Gravity	1.3(0.051)	13ST	0.25(36)	200(7.874)	215(7.6)	180	180(7.087)	Semi-Tulip	1.5 or more	293	1G-2U, 2GD, 4GD 4GF-U, 4GB-U
F110-G15ST	Gravity	1.5(0.059)	15ST	0.23(30)	200(7.074)	225(7.9)	205	190(7.480)	odini-rulip		(0.65)(10.3)	4GPA-U, 4G-TA
F110-G08R	Gravity	0.8(0.031)	08R	0.25(36)	200(7.874)	75(2.6)	55	35(1.378)	Round	0.4 or more	293	1G-2U, 2GD, 4GD 4GF-U, 4GB-U
F110-G25R	Gravity	2.5(0.098)	25R	0.23(30)	200(7.074)	155(5.5)	320	50(1.969)	noullu	1.5 or more	(0.65)(10.3)	4GPA-U, 4G-TA

- Paint viscosity should be 20 seconds for lacquer enamel using a Meiji model V-1 viscosity cup.
   Feed pressure should be 0.08MPa(12PSI) for P types.
   The values marked with \* should be obtained using automotive refinishing paint with a paint viscosity of 12 seconds and a Meiji model V-1 viscosity cup.
   Air and paint inlet: G1/4
   Left handed type is available in F110-G type. For more information, please contact your local distributor or us.

#### Air cap selection guide for F110 series

			_														
Air	сар	10	13	15	20	13ST	15ST	10T	13T	15T	20T	08P	10P	13P	15P	08R	25R
	0.8	0	0	0	0	0	0	0	0	0	0	_	0	0	0	_	0
	1.0	_	0	0	0	0	0	_	0	0	0	0	_	0	0	0	0
Nozzle bore	1.3	×	_	0	0		0	×	_	0	0	×	×	_	0	×	0
mm	1.5	×	0	_	0	0	_	×	0	_	0	×	×	0	_	×	0
	2.0	×	0	0	_	0	0	×	0	0	_	×	×	0	0	×	0
	2.5	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	_

Suction and gravity type are interchangeable for pressure type and vice versa.

Spraying paint volume and air consumption are adjusted by changing air cap set and fluid nozzle.
 Mark O stands for interchangeable.



\*Paint cup should be ordered separately.

### FINER-FORCE-P Series (Small spray guns)

Model No.	Paint feed system	Nozzle bore mm(in)	Standard air cap	Spraying pressure MPa(PSI)	Spraying distance mm(in)	Air con- sumption L/min(cfm)	Paint spraying volume mL/min	Maximum effective pattern width mm(in)	Pattern shape	Required compressor output kW	Weight g(lbs)(oz)	Standard paint cup
FINER-FORCE-P08		0.8(0.031)				220(7.8)	185	220(8.661)			205	Paint pressure
FINER-FORCE-P10	Pressure	1.0(0.039)	Type P	0.2(29)	200(7.874)	220(7.8)	255	270(10.629)	Tulip	1.5 or more	325 (0.72)(11.5)	feed tanks, diaphragm
FINER-FORCE-P13		1.3(0.051)				200(7.1)	345	320(12.598)			(0.72)(11.3)	paint pumps

Paint viscosity should be 20 seconds for lacquer enamel using a Meiji model V-1 viscosity cup.
 Feed pressure should be 0.08MPa(12PSI) for P types.
 Air and paint inlet: G1/4

## F210 Series (Large spray guns)

Model No.	Paint feed system	Nozzle bore mm(in)	Standard air cap	Spraying pressure MPa(PSI)	Spraying distance mm(in)	Air con- sumption L/min(cfm)	Paint spraying volume mL/min	Maximum effective pattern width mm(in)	Pattern shape	Required compressor output kW	Weight g(lbs)(oz)	Standard paint cup
F210-P12P		1.2(0.047)	12P			335(11.8)	530	350(13.780)				Deint nucesuus
F210-P15P		1.5(0.059)	15P			345(12.2)	880	370(14.567)		2.2 or more	201	Paint pressure feed tanks.
F210-P20P	Pressure	2.0(0.079)	20P	0.25(36)	250(9.843)	375(13.2)	1,280	400(15.748)	Tulip -		391 (0.86)(13.8)	diaphragm
F210-P25P		2.5(0.098)	25P			410(14.5)	1,710	420(16.535)		3.7 or more	(0.00)(13.0)	paint pumps
F210B-P30P		3.0(0.118)	30P			420(14.8)	1,940	440(17.323)		3.7 01 111016		paint parripo
F210-S15		1.5(0.059)	15			170(6.0)	205	220(8.661)		1.5 or more		
F210-S20	Suction	2.0(0.079)	20	0.25(36)	250(9.843)	220(7.8)	285	280(11.024)	Triangle	2.2 or more	391	10SC
F210-S25	Suction	2.5(0.098)	25	0.23(30)	230(3.043)	275(9.7)	350	300(11.811)	mangle	2.2 01 111016	(0.86)(13.8)	10SLB
F210B-S30		3.0(0.118)	30			320(11.3)	360	300(11.811)		3.7 or more		
F210-S15T		1.5(0.059)	15T			250(8.8)	220	300(11.811)		2.2 or more	391	10SC
F210-S20T	Suction	2.0(0.079)	20T	0.25(36)	250(9.843)	280(9.9)	265	310(12.205)	Tulip	2.2 01 111016	(0.86)(13.8)	10SLB
F210-S25T		2.5(0.098)	25T			335(11.8)	325	320(12.598)		3.7 or more	(0.00)(10.0)	IUSLD

- Paint viscosity should be 20 seconds for lacquer enamel using a Meiji model V-1 viscosity cup.
- Feed pressure should be 0.08MPa(12PSI) for P types.
   The paint spraying volume and maximum effective pattern width indicated for T types should be determined using urethane-based automotive repair paint with a viscosity of 12 seconds and a Meiji model V-1 viscosity cup.
   Air inlet: G1/4, paint inlet: G3/8

# Air cap selection guide for F210 series

	•		_										
Air	cap	15	20	25	30	15T	20T	25T	12P	15P	20P	25P	30P
	1.2	0	0	0	0	0	0	0	_	0	0	0	0
Nozzle	1.5	_	0	0	0	_	0	0	0	_	0	0	0
bore	2.0	×	_	0	0	0	_	0	0	0	_	0	0
mm	2.5	×	0	_	0	×	0	_	×	×	0	1	0
	3.0	×	×	0	_	×	0	0	×	×	×	0	_

Suction type in the same nozzle size are interchangeable for pressure type and vice versa.
 Spraying paint volume and air consumption are adjusted by changing air cap set and fluid nozzle.

Mark O stands for interchangeable.

# **AUTOMOTIVE REFINISHING SPRAY GUNS**

### FINER-CORE Series

### High-atomization technology MMFT

Ever since we succeeded in a trial production of Japan's first domestic painting machine approximately one hundred years ago, we have continued to develop technologies for painting equipment up until today. Utilizing the know-how we have cultivated over the years, we have adopted flat pattern control (a standard specification for CORE) that minimizes unevenness by positioning the secondary holes of the spray gun optimally, increasing the holes, and arranging them at an angle. Additionally, we have adopted our company's unique high-atomization technology MMFT (Meiji Micros Fine Technology) that accelerates atomization under low pressure by controlling the air at multiple levels, feeding it efficiently to the opening, and atomizing it through the thinly shaped structure.

New Air cap: Three-dimensional injection has been evolved.

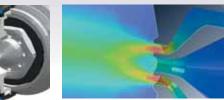
\*Standard

specification type

Dynamic Chamber

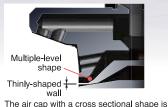


A thin nozzle shape at the opening, equipped with a multi-stage air control structure \*Common to the HVLP types



\*Image of spraying paint

provided in the FINER-CORE-HVLP types.





Paint adjustment thread

pitch of 0.75 mm



FINER-CORE

# An aim for human-centered design Pursuit of "beauty" and "usability" based on the theme of Ergono Dynamics Design

possible by providing a stable air flow to the opening.

We made the air circuit as large as possible while

seeking to reduce its body size. Combined with separate head bases that have our company's unique and special shapes, we have achieved more air volume than that of larger guns. The formation of the high-atomization wide pattern has been made

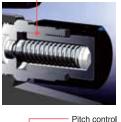
Applying for design registration

## Optimized spray paint volume

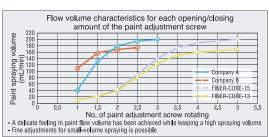
A unique characteristic whereby spraying volume smoothly increases. The adjustment range is wide enough to prevent sudden increases in flow, allowing for fine adjustments. We have adopted our company's unique paint adjustment thread pitch of 0.75 mm, which has been inherited in automobile repairing guns for a long time.

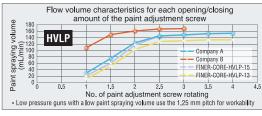
#### Low-resistance structure and highly durable design Patent No. 5222039

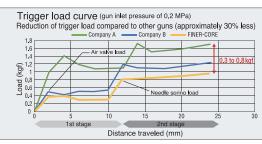
The initial leakage limit is 500,000 times. High durability has been achieved where retightening can be carried out one million times. The sleeve and soft packing gives low-resistance structure which is less likely to affect the sliding of the needle when retightening.











# A structure for preventing paint accumulation

'Cartridge-type needle packing" for improved exchangeability

### Highly durable structure with automatic valve extension

Adopted low-resistance U-packing made of super-high molecular weight PE resin. The casing follows the movement of the air valve, which prevents uneven packing wear.



#### Reduced trigger load structure

The low-friction packing and optimization of the valve shape which has a low pass resistance circuit structure enables trigger handling without rapid pressure fluctuations for the entire stroke range.

### Stand for FINER-CORE & F410

- Cup support type which suits variety of center cup spray guns.
- The 4 φ6 holes on each side and bottom enable fixing with bolts or magnets.



Model No.	Paint feed system	Nozzle bore	Air cap style	the air cap)	Spraying distance	Air consumption	Paint spraying volume	Maximum effective pattern width	Pattern shape	Required compressor output	Weight g	Standard paint cup
		mm(in)		MPa(PSI)	mm(in)	L/min(cfm)	mL/min	mm(in)		kW	(lbs)(oz)	
FINER-CORE-13	Gravity	1.3(0.051)	FINER-CORE	0.2(29)	200(7.874)	300(10.6)	170	280(11.024)	Tulin	1.5 or more	340	6CP
FINER-CORE-15	Gravity	1.5(0.059)	FINEN-CONE	0.2(29)	200(7.074)	300(10.0)	200	300(11.811)	Tulip	1.5 01 111016	(0.75)(11.9)	OUF
FINER-CORE-HVLP-13	Gravity	1.3(0.051)	FINER-CORE-	0.18(0.07)	200(7.874)	380(13.4)	135	280(11.024)	Tulip	1.5 or more	340	6CP
FINER-CORE-HVLP-15	Gravity	1.5(0.059)	HVLP	(26[10])	200(7.074)	300(13.4)	155	300(11.811)	rulip	1.5 01 111016	(0.75)(11.9)	007

<sup>•</sup> The paint viscosity should be 20 seconds for lacquer enamel using Meiji model V-1 viscosity cup. • Air inlet accepts G1/4 & 1/4NPS, Paint inlet: G3/8.

# HAND SPRAY GUNS

# High performance, Well-balanced, Beautiful finishing

Beautiful finishing in thin and uniform paint film with wider spraying pattern. Reducing spray air pressure to 0.25MPa. (36PSI).

Well balanced body of weight only 415g (0.91lbs, 14.6oz).

Ergonomic curved grip.

Reduction of trigger load with lower resistance packing.

Beautiful gun body with chrome plating for long lasting and easy maintenance.

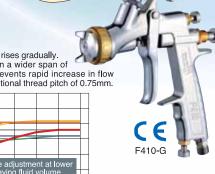
Wide range model which can satisfy any demands.

Stainless steel passage for waterborne compatibility.

CE and Atex certifications approved.

HVLP type also available from fluid nozzle orifice of 1.3-1.5mm(0.051-0.059in)

Center cup type



Securing air volume in split structure is possible by having head base

Head base Body Fluid nozzle Rectification Air cap



The fuluid spraying volume rises gradually. Accurate fine adjustment in a wider span of adjustable range which prevents rapid increase in flow rate, and used Meiji's traditional thread pitch of 0.75mm.

300 Fluid volume (mL/min) 200 150 50 Thread pitch F410-G14SP C -– D – \*A,B,C,D and E are other makers.

Model No.	Paint feed system	Nozzle bore mm(in)	Standard air cap	Spraying pressure MPa(PSI)	Spraying distance mm(in)	Air consumption L/min(cfm)	Air pressure inside air cap Mpa(PSI)	Paint spraying volume mL/min	Maximum effective pattern width mm(in)	Pattern shape	Connection in <b>l</b> et	Weight g (Ibs)(oz)	Standard paint cup
F410-G10EV		1.0(0.039)	10EV			270(9.5)		115	200(7.874)				
F410-G12EV		1.2(0.047)	12EV			270(9.5)		160	220(8.661)				
F410-G13EV		1.3(0.051)	13EV			280(9.9)		190	240(9.449)				
F410-G14EV	Gravity	1.4(0.055)	14EV	0.25	250	290(10.2)		205	245(9.646)	Tulip	for air : G1/4	415	6CP
F410-G15EV	Gravity	1.5(0.059)	15EV	(36)	(9.843)	300(10.6)		235	250(9.843)	Tulip	for paint : G3/8	(0.91)(14.6)	OUP
F410-G18EV		1.8(0.071)	18EV			325(11.5)		295	285(11.221)				
F410-G20EV		2.0(0.079)	20EV			340(12.0)		315	330(12.992)				
F410-G25EV		2.5(0.098)	25EV			390(13.8)		385	340(13.386)				
F410-G10EVW		1.0(0.039)	10EVW			315(11.1)		115	250 (9.843)				
F410-G12EVW		1.2(0.047)	12EVW	0.25	250	315(11.1)		160	280(11.024)		for air : G1/4	415	
F410-G13EVW	Gravity	1.3(0.051)	13EVW	(36)	(9.843)	325(11.5)	-	195	300(11.811)	Tulip	for paint : G3/8	(0.91)(14.6)	6CP
F410-G14EVW		1.4(0.055)	14EVW	()	(/	325(11.5)		215	310(12.205)		Tor paint : do/o	(0.01)(1.10)	
F410-G15EVW		1.5(0.059)	15EVW			325(11.5)		245	320(12.598)				
F410-G13SP	Gravity	1.3(0.051)	SP	0.2	200	295(10.4)	_	155	300(11.811)	Tulip	for air : G1/4	415	6CP
F410-G14SP	Gravity	1.4(0.055)	JI	(29)	(7.874)	233(10.4)		175	310(12.205)	Tuilp	for paint : G3/8	(0.91)(14.6)	001
F410-G13HVLP		1.3(0.051)		0.2	200			135	265(10.433)		for air : G1/4	415	
F410-G14HVLP	Gravity	1.4(0.055)	HVLP	(29)	(7.874)	385(13.6)	0.07(10)	140	270(10.629)	Tulip	for paint : G3/8	(0.91)(14.6)	6CP
F410-G15HVLP		1.5(0.059)		(20)	(7.07-1)			145	275(10.827)		101 pat . 00/0	(0.0.)(11.0)	

<sup>•</sup> Paint viscosity should be 20 seconds for lacquer enamel using Meiji V-1 viscosity cup.

# **AUTOMOTIVE REFINISHING SPRAY GUNS**



# F-ZERO Type C

Fine atomization and flat surfaces

This is a spray gun that focuses on evenly applying the color clear to the color base and color clear, with a large difference in hue and brightness during refinishing, and is specialized for easy layering of patterns.

Corresponds to plating tone, color clear, metallic and pearl base. Also available for solid base.

### FINERII PLUS Fine atomization and flat surfaces

#### Evolution model of FINER II.

It is possible to spray wide range between touch-up & block paint due to adjusting spraying pattern width. New design of air cap and fluid nozzle realizes higher atomization.



FINERII PLUS

Ideal for touch-up in small area. Simple and compact body realizes light weight. FINER SPOT-G12

F-ZERO/FINERSeries

with 1G-2U paint cup

\*Paint cup should be ordered separately. with 4GF-U paint cup

	Model No.	Paint feed system	Nozzle bore mm(in)	Spraying pressure MPa(PSI)	Spraying distance mm(in)	Air consumption L/min(cfm)	Paint spraying volume mL/min	Maximum effective pattern width mm(in)	Pattern shape	Required compressor output kW	Weight g (Ibs)(oz)	Standard paint cup
ĺ	F-ZERO Type C	Gravity	1.4(0.055)	0.15(22)	150(5.906)	175(6.2)	140	220(8.661)	Tulip	1.5 or more	290 (0.64)(10.2)	1G-2U, 2GD,4GD, 4GF-U 4GB-U, 4GPA-U, 4G-TA
Ī	FINERII PLUS	Crovity	1.4(0.055)	0.2(29)	200(7.874)	220(7.8)	140	300(11.811)	Tulip	1.5 or more	295 (0.65)(10.4)	1G-2U, 2GD,4GD, 4GF-U
Ī	FINER SPOT-G12	Gravity	1.2(0.047)	0.15(22)	150(5.906)	80(2.8)	75	190(7.480)	runp	0.75 or more	167 (0.37)(5.9)	4GB-U, 4GPA-U, 4G-TA

Paint viscosity should be 12 seconds for high solid 1k base using Meiji model V-1 viscosity cup.
 Air and pain
 Left handed type is available in FINERII PLUS. For more information, please contact your local distributor or us.

F-ZERO Type C

### High-gloss thick coating

# FINER-FORCE B

This spray gun achieves a "thick and firm coating", "uniform particle size", and "uniform spray pattern" required for clear coating.
It is also optimum for solid coatings that exhibit a thick and glossy feel.



Nozzle bore of 1.6 mm adopted. Exclusively for high-gloss, thick, clear/solid coating

The tulip spray pattern for micro fine atomization.

### Micro fine atomization for thin coating

# FINER-FORCE T

Finer-Force was developed with a focus on metallic pearl coating, which has been passed down from the legendary FINER-G14TC.

It achieves spraying performance essential for metallic including "micro fine atomization", "thin coating", and a pearl coating, "flat (uniform)



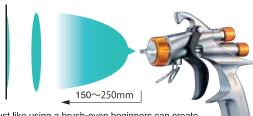
The gun uses a tulip spray pattern with high atomization performance, which outputs a low-variation, uniform, thin, and flat coating. This high-atomization / highly dispersive type of spray gun is suitable for styles of spraying performed with a short spraying distance to produce a highly bright mirror finish required for metallic pearl coating.

### Thin mirror finish

# FINER-FORCE R

A SVLP (Small Volume Low Pressure) spray gun that requires low air volume and produces less scattering.

Developed with a focus on "fine atomization" and "uniform thickness", it is an all-round spray gun for beginners through to experts, and can be used for solid to metallic coating.



The spray gun is just like using a brush-even beginners can create their desired coating by its micro fine atomization, low air volume, and less scattering.

The spray pattern is in the shape of a tulip. For base (solid/metallic) coating.

### For water-based paint

# FINER-FORCE WB

Equipped with a special WB cap that has been specially tuned for water-based paint. A dedicated spray gun that specializes in water-based paint characteristics by spraying large diameter particles uniformly while maintaining a wide pattern with no unevenness, with high discharge capacity and improved spray efficiency.

# Micro fine atomization for thin coating

# FINER-FORCE-S I

This is a special body circuit for suction type, and it realizes same performance as gravity type. It is possible to use large paint cup and to paint wide area easily.



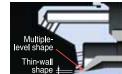
\*Paint cup should be ordered separately

#### Body balance

The grip is thicker and its center of gravity is positioned backwards for use best with a paint cup attached. This achieves a body balance that acts in the direction of canceling the cup's moment of rotations, and reduces fatigue during coating operation.

### Meiji Micros Fine Technology MMFT

We have adopted our company's unique high-atomization technology MMFT (Meiji Micros Fine Technology), which facilitates atomization under low pressure by controlling the air at multiple levels low pressure by feeding it efficiently to the opening, and atomizing it through the thinly shaped structure.



Air cap sectional shape

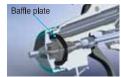
### Optimum body circuit design

We visualized the velocity of moving fluid and pressure loss in the body and air circuit by using CAE (fluid analysis), and designed a new optimum air circuit to achieve an air circuit with less pressure



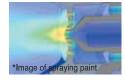
## More stable spray pattern

A new baffle plate was added. It controls air flow in the air cap to form a stable spray



### Optimal design around the nozzle

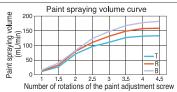
CAE (fluid analysis) has also been used to design the paint nozzle and air cap. To obtain optimum atomization and spray patterns, we have analyzed more than 100 nozzle cap shapes and adopted a superior new nozzle cap shape.



# Optimized spray paint volume

The product has a unique characteristic whereby the spraying volume smoothly increases. It prevents sudden increases in flow, making fine adjustments possible.

MÉIJI's traditional 0.75 mm pitch has been adopted for paint adjustment screw threads, and the use of slip parts have made smooth adjustments possible.



### Needle packing with a low-resistance structure and highly durable design

With an initial leakage limit of 500,000 times, durability can be increased to one million times by retightening the product. The sleeve and soft packing give it a low-resistance structure which is less likely to affect the sliding of the needle after retightening.

#### Better maintainability

Needle spring integrated with the needle valve set

Change in the structure of the valve seat area



Model No.	Paint feed system	Nozzle bore mm(in)	Spraying pressure MPa(PSI)	Spraying distance mm(in)	Air consumption L/min(cfm)	Paint spraying volume mL/min	Maximum effective pattern width mm(in)	Pattern shape	Required compressor output kW	Weight g (lbs)(oz)	Standard paint cup
FINER-FORCE B		1.6(0.063)		200(7.874)	190(6.7)	180	280(11.024)				
FINER-FORCE T	Gravity	1.4(0.055)	0.2(29)	200(7.874) 150(5.906)	210(7.4)	130	260(10.236) 220(8.661)	Tulip	1.5 or more	325	1G-2U, 2GD, 4GD
FINER-FORCE R	Gravity	1.4(0.000)	0.2(29)	200(7.874)	180(6.4)	160	250(9.843)	rulip	1.5 01 111016	(0.72)(11.5)	4GF-U, 4GB-U 4GPA-U, 4G-TA
FINER-FORCE WB		2.0(0.787)		200(7.874)	225(7.9)	200	290(11.471)				14171 6, 14 171
FINER-FORCE-S T	Suction	1.4(0.055)	0.2(29)	200(7.874)	210(7.4)	100	220(8.661)	Tulip	1.5 or more	325 (0.72)(11.4)	7SB, 7SLB 10SB-2, 10SLB-2

# 110 Series



#### **HEAD ANGLE VARIABLE TYPE**

The head angle can be adjusted 360° by simply loosening the base nut. Besides in head angle variable

type, the head angle can be adjusted from 90° to -90° by loosening the top bolt.



The dual pipe system employing separate pipes for the air and paint enhances compactness and durability.

As the air circuit for spraying is not same as the one for spraying pattern, you can adjust the spraying pattern by hand.

#### **HEAD ANGLE FIXED TYPE**

You can choose head angle 0 or 45, and only head angle 45 can be adjusted 360 by simply loosening the base nut.

#### **INSIDE PAINT TYPE**

Model F110-PXL is equipped with a special nozzle and cap developed for painting the inside surface of pipes, making it ideal for painting the inside of long pipes with a small inner diameter.

Model F110-PX17LA can spray both full cone and hollow cone in adjusting the position of pipe place, and it is suitable for sparying inside of the pipe in less than  $\phi$  300mm(11.811in).

Model No.	Туре	Paint feed system	Nozzle bore mm(in)	Spraying pressure MPa(PSI)	Spraying distance mm (in)	Air con- sumption L/min(cfm)	Paint spraying volume mL/min	Maximum effective pattern width mm(in)	Required compressor output kW	Head angle and inner dia. into which head can be inserted mm(in)	Pipe length mm(in)	Weight g (lbs)(oz)
F110-PXC10P	Head angle	Pressure	1.0(0.039)			160(5.7)	190	210(8.268)	1.5		500(19.685)	
F110-PXC13P	variable type		1.3(0.051)	0.25(36)	200(7.874)	175(6.2)	235	220(8.661)	1.0	0°: 40(1.575)	1,000(39.370)*	620
F110-SXC15	extension	Suction Gravity	1.5(0.059)	0.23(30)	200(7.074)	125(4.4)	60	110(4.330)	0.75	90°: 60(2.362)	500(19.685)*	(1.37)(21.9)
F110-GXC15	spray gun	Gravity	1.5(0.055)			123(4.4)	65	115(4.528)	0.73		, ,	
F110-PX10P		Pressure	1.0(0.039)			180(6.4)	245	230(9.055)	1.5		500(19,685) 1,000(39,370) 1,500(59,055) 1,800(70,866)*	555
F110-PX13P	Extension	FICSSUIC	1.3(0.051)	0.25(36)	200(7.874)	195(6.9)	310	240(9.449)	1.5	0°: 40(1.575)	1,500(59.055) 1,800(70.866)*	(1.22)(19.6)
F110-SX15	spray gun	Suction	1.5(0.059)	0.23(30)	200(7.074)	140(4.9)	120	150(5.906)	0.75	45°: 55(2.165)		555
F110-GX15		Gravity	1.5(0.059)			140(4.3)	140	160(6.300)	0.75		500(19.685)*	(1.22)(19.6)
F110-PX11L	Pipe inside spraying	Pressure	1.5(0.059)	0.25(36)	200(7.874)	70(2.5)	120	60(2.362)	0.75	0°: 13(0.512) (straight only)	500(19,685) 1,000(39,370) 1,500(59,055) 1,800(70,866)*	555 (1.22)(19.6)
F110-PX17LA Full cone	extension gun	FIGSSUIG	1.3(0.051)	0.3(44)	150(5.906) 30(1.181)	180(6.4)	130 300**130	100(3.937) 300(11.811)**250(9.843)	1.5	0°: 20(0.787) (straight only)	500(19.685) 1,000(39.370) 1,500(59.055) 1,800(70.866)*	710 (1.56)(25.0)

- Pipe length with mark\* is the maximum length, and it is possible to make the pipe length in 50mm(1.967in) measure within maximum length.
   Use of the longer pipe will result in reducing paint spraying volume.

- Use of the longer pipe will result in reducing paint spraying volume.
   Paint viscosity should be 20 seconds for lacquer enamel using a Meiji model V-1 viscosity cup, and the feed pressure for PX models should be 0.08MPa(12PSI).
   Nozzle bore of 0.8mm(0.031in) and 1.5mm(0.059in) for PX(PXC) type is available. Nozzle bore of 1.0mm(0.039in), 1.3mm(0.051in) and 2.0mm(0.079in) for SX(SXC) and GX(GXC) types is available.
   For Model F110-PX17LA; Paint viscosity should be 12 seconds, 20 seconds with mark\*\*, for lacquer enamel using a Meiji model V-1 viscosity cup, and the feed pressure should be 0.08MPa (12PSI), 0.03MPa(4PSI) with mark\*\*. ◆ Air and paint inlet: G1/4
   Spcifications is for spray guns of pipe length 500mm(19.685in).

- Head angle cannot be changed when the spray gun is in use, and shall be changed after cleaning the paint circuit with no fluids inside. Due to its design and structure, please avoid changing the angle frequently.
- When the spray gun is in use, please do not loosen the Air cap nut. When changing direction of Air cap, Air cap itself shall be turned without loosening the Air cap nut.
- Fluid viscosity shall be less than 30sec for Pressure type, and less than 20sec in case of Suction and Gravity type by using Meiji V-1 model viscosity cup. Fluids with high viscosity may result in less ejection amount and for PX17LA, spray may not be in hollow cone.

# PIECE GUNS, COMPACT SPRAY GUNS

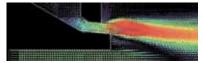


### **55**Series

### F55 series

By improvement of atomizing performance at low pressure, higher performance and further energy saving are achieved.

Optimum air cap and fluid nozzle design enabling both improvement of atomizing and saving energy.



▲ CFD analysis of F55

Model No.	Paint feed system	Nozzle bore mm(in)	Spraying pressure MPa(PSI)	Air consumption L/min(cfm)	Pattern shape	Required compressor output kW	Weight g(lbs)(oz)	Paint cup capacity mL(cc)
MP-2	Gravity	0.2(0.008)	0.15/22)	5(0.2)	Round	0.1~0.2	65(0.14)(2.3)	1
MP-3	Gravity	0.3(0.012)	0.15(22)	3(0.2)	noullu	0.17~0.2	95(0.21)(3.4)	7

Model No.	Paint feed system	Nozzle bore mm(in)	Spraying pressure MPa(PSI)	Spraying distance mm(in)	Air consumption L/min(cfm)	Paint spraing volume mL/min	Maximum effective pattern width mm(in)	Pattern shape	Required compressor output kW	Weight g (lbs)(oz)	Paint cup capacity mL(cc)
F55-G05R		0.5(0.020)	0.1(15)~		19(0.7)~	21~26	~25(0.984)	Round		171	
F55-G08R	Gravity	0.8(0.031)	0.3(44)	100(3.937)~	43(1.5)	46~64	~35(1.378)	noullu	0.2~0.4	(0.38)(6.0)	150
F55-G05	Giavity	0.5(0.020)	0.1(15)~	150(5.906)	43(1.5)~	17~22	~90(3.543)	Flat (triangle)	0.2.00.4	166	(1G-2 CUP)
F55-G08		0.8(0.031)	0.2(29)		66(2.3)	34~47	~120(4 724)	riat (triangle)		(0.37)(5.9)	

<sup>•</sup> Paint viscosity should be 12 seconds for lacquer enamel using a Meiji model V-1 viscosity cup. • Air and paint inlet: G1/4



Moderate tightening

Use of U-packing

No need retorquing

Trigger push

from 6 to 8

Increased nozzle bore holes

Improved air flow stability

## F110L Series

#### Use of 3D air

Exceptional atomization at a very low air cap internal pressure (0.07MPa(10PSI) for pressure & suction type, and 0.05MPa(7PSI) for gravity type).

3D air, whose air flow direction is diagonal, realizes more stable spraying pattern.

# Higher transfer efficiency, low spattering, and environment-friendly while lowering costs.

Lower air pressure design realizes saving by about 30% in the air consumption and improving by about 10% of transfer efficiency. Furthermore, less spattering paint brings less paint volume and improvement of working environment.

#### Waterborne compatiblity

Stainless steel passage for waterborne compatibility.

#### Beatiful finishing

The use of nickel plating brings improvement of wear and corrosion resistance.

#### Easy-to-use

The use of U-packing in the needle packing place brings free-maintenance, such as no necessary retorquing etc.

### Concept and features of low-pressure atomizing spray guns

With a low-pressure atomizing spray gun, the air cap internal pressure is low and the air cap nozzle bore is large, so the airflow velocity drops immediately after the paint is released into the atmosphere.

This slows down the atomization rate, reducing splashback and realizing the high transfer efficiency.

As a result, paint consumption is reduced by about 15 to 30% compared with a multipurpose spray gun (Meiji product comparison).

Reducing spattering and splashback not only creates a better work environment, but also reduces spray booth maintenance.

Model No.	Paint feed system	Nozzle bore mm(in)	Spraying pressure MPa(PSI)	Air pressure inside cap MPa(PSI)	Spraying distance mm(in)	Air consumption L/min(cfm)	Paint spraying volume mL/min	Maximum effective pattern width mm(in)	Pattern shape	Required compressor output kW	Weight g (Ibs)(oz)	Standard paint cup
F110L-P08LP		0.8(0.031)					165	230(9.055)		0.7	000	Paint pressure
F110L-P10LP	Pressure	1.0(0.039)	0.18(26)	0.07(10)	200(7.874)	345(12.2)	225	250(9.843)	Tulip	3.7 or more	308 (0.68)(10.9)	feed tanks, diaphragm
F110L-P13LP		1.3(0.051)					320	270(10.630)		of filore	(0.00)(10.9)	paint pumps
F110L-S20LS	Suction	2.0(0.079)	0.15(22)	0.07(10)	200(7.874)	265(9.4)	110	270(10.630)	Tulip	3.7 or more	308 (0.68)(10.9)	7SB, 10SB-2 7SLB
F110L-G13LS	Crowity	1.3(0.051)	0.12(17)	0.05(7)	200/7 974)	225/0.2\	100	260(10.236)	Tulip	3.7	308	1G-2U, 2GD, 4GD 4GF-U, 4GB-U
F110L-G15LS	Gravity	1.5(0.059)	0.12(17)	0.05(7)	200(7.874)	235(8.3)	115	270(10.630)	rulip	or more	(0.68)(10.9)	4GPA-U, 4G-TA

<sup>•</sup> Paint viscosity should be 20 seconds for lacquer enamel using a Meiji model V-1 viscosity cup. • Feed pressure should be 0.08MPa(12PSI) for P types. • Air and paint inlet: G1/4

# LOW-PRESSURE ATOMIZATION AUTOMATIC SPRAY GUNS

#### Use of 3D air

Tip place; thin and straight (S type)

Improved atomization, Lower air pressure

Tip place: thin and taper (P type)

Reduction of dust flying

Guide

Exceptional atomization at a very low air cap internal pressure of 0.07MPa(10PSI).

3D air, whose air flow direction is diagonal, realizes more stable spraying pattern.

# Higher transfer efficiency, low spattering, and environment-friendly while lowering cost.

Lower air pressure design realizes saving by about 30% in the air consumption and improving by about 10% of transfer efficiency. Furthermore, less spattering paint brings less paint volume and improvement of working environment.



### Remote control compatible

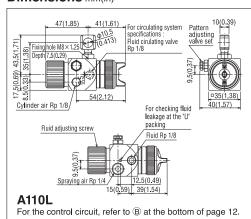
Spraying pattern can be adjusted by remote control.

#### **Tube fixtures**

Commercially available fixtures are used for the air and paint connection ports for easier use.

# A110L Series

### Dimensions mm(in)



Model No.	Nozzlle type	Paint feed system	Nozzle bore mm(in)	Spraying pressure MPa(PSI)	Air pressure inside cap MPa(PSI)	Spraying distance mm(in)	Air consumption L/min(cfm)	Paint spraying volume mL/min	Maximum effective pattern width mm(in)	Weight g (lbs)(oz)
A110L-P06LP			0.6(0.023)					85	190(7.480)	
A110L-P08LP	F110L	Pressure	0.8(0.031)	0.10(06)	0.07(10)	200(7.874)	245/12.2)	165	230(9.055)	206
A110L-P10LP	FIIOL	riessuie	1.0(0.039)	0.18(26)	0.07(10)	200(7.074)	345(12.2)	225	250(9.843)	(0.45)(7.3)
A110L-P13LP			1.3(0.051)					320	270(10.630)	

Paint viscosity should be 20 seconds for lacquer enamel using a Meiji model V-1 viscosity cup. Feed pressure should be 0.08MPa(12PSI).

Circulation type is available. Please specify the circulation type on your order.

# **PAINT CUPS**

# Fluorine resin Coated Cup 4G-TA

Improved flow and paint removal, making wash-up quick and easy.



▲Fluorine resin Coated

### Freely adjustable Cup 1G-2U, 4GF-U, 4GB-U, 4GPA-U, 4G-TA

A freely adjustable joint allows the cup to be adjusted to any angle while mounted on the gun.



▲Freely adjustable



Even if changing the gun angle according to the coating surface, it is possible to change the cup angle with one touch. Realizes smooth layering without taking eyes off the paint line.

A convenient gun stand makes it possible to temporarily stop work or add paint wherever a flat surface is available.



▲Gun stand

Agitator Cup 4GPA-U-V, 7SB-VA

Ideal for agitating pearl and metalic paint. It is possible to agitate in low pressure and adjust the rotation freely.



\*Hand spray gun should be ordered separately.

# **PAINT FILTERS**

Air hose and paint hose are connected close at hand to improve work efficiency. A built-in 100-mesh filter effectively filters the paint.



Model No.	Fi <b>l</b> ter mesh	Coupling nut	Applicable spray guns	Weight g(lbs)(oz)
HF-C	100	G 1/4	F110-P, F110L-P	130(0.287)(4.6)
HFF-C	100	G 1/4	FINER-FORCE-P	130(0.207)(4.0)
HM-C	100	G 3/8	F210-P	150(0.331)(5.3)

# **VISCOSITY CUP**

Use the Meiji V-1 viscosity cup, which is based on the No.4 Ford viscosity cup, to measure the viscoity of the paint.





Model No.	Туре	Capacity L(cc)	Coupling nut	Applicable spray guns	Weight g(lbs)(oz)	
1G-2		0.15(150)		F55-GR, F55-G	90(0.198)(3.2)	
1G-2U		0.15(150)			101(0.222)(3.6)	
2GD	Crowity our	0.25(250)			113(0.249)(4.0)	
4GD	Gravity cup			F110-G, F110L-G	200(0.441)(7.1)	
4GF-U			G1/4	FINER-FORCE	185(0.408)(6.5)	
4GB-U		0.45(450)		F-ZERO, FINER II PLUS	195(0.430)(6.9)	
4GPA-U	Plastic gravity cup	` ′		FINER SPOT	170(0.375)(6.0)	
4G-TA	Teflon-coated gravity cup				220(0.485)(7.8)	
6CP	Plastic gravity cup	0.6(600)	G3/8	FINER-CORE, F410-G	171(0.377)(6.0)	
7SB		0.75(750)	G1/4	F110-S, F110L-S	290(0.639)(10.2)	
10SB-2	Suction cup	1(1,000)	Q 1/4	FINER-FORCE-S	325(0.717)(11.5)	
10SC		1(1,000)	G3/8	F210-S, BS-2-11	323(0.717)(11.3)	
7SLB	Custian sun	0.75(750)	G1/4	F110-S, F110L-S	360(0.794)(12.7)	
10SLB-2	Suction cup (lever type)	1(1,000)	G 1/4	FINER-FORCE-S	400(0,000)(14,0)	
10SLB	(lovo, typo)	1(1,000)	G3/8	F210-S, BS-2-11	420(0.926)(14.8)	
10ZP	Pressure cup	1(1,000)	G3/8	F210Z-P	590(1.300)(20.8)	

Model No.	Туре	Capacity L(cc)	Coupling nut	Air pressure MPa(PSI)	Air con- sumption L/min(cfm)	Paint viscosity range second	Applicable spray guns	Weight g (lbs)(oz)
4GPA-U-V	Agitator cup gravity	0.45 (450)	G1/4	0.2(29)~ 0.35(51)	15(0.5)~ 50(1.8)	10~20	F110-G, F110L-G F-ZERO, FINERII PLUS	220 (0.485)(7.8)
7SB-VA	Agitator cup suction	0.75 (750)	G1/4	0.2(29)~ 0.35(51)	15(0.5)~ 50(1.8)	10~20	F110-S, F110L-S FINER-FORCE-S	380 (0.838)(13.4)

<sup>•</sup> Paint viscosity is for using Meiji model V-1 viscosity cup.

# **Viscosity Comparison Table**

Viscosity	Pa•s	mPa∙s (cps)	Ford Cup #3	Ford Cup #4 Meiji V-1 viscosity cup	Krebs Units Ku	Zahn #1	Zahn #2	Zahn #3	Zahn #4	Zahn #5
	0.01	10		5		30	16			
	0.015	15		8		34	17			
Low	0.02	20	12	10		37	18			
_	0.025	25	15	12		41	19			
	0.03	30	19	14		44	20			
E	0.04	40	25	18		52	22			
Medium	0.05	50	29	22	30	60	24			
Š	0.06	60	33	25	33	68	27			
	0.07	70	36	28	35		30			
	0.08	80	41	31	37		34			
	0.09	90	45	32	38		37	10		
	0.1	100	50	34	40		41	12	10	
	0.12	120	58	41	43		49	14	11	
	0.14	140	66	45	46		58	16	13	
High	0.16	160		50	48		66	18	14	
垩	0.18	180		54	50		74	20	16	
	0.2	200		58	52		82	23	17	10
	0.22	220		62	54			25	18	11
	0.24	240		65	56			27	20	12
	0.26	260		68	58			30	21	13
	0.28	280		70	59			32	22	14
	0.3	300		74	60			34	24	15

<sup>• 1</sup>Pa·s=10 poise, 1mPa·s=1 cps, 1Pa·s=1,000 cps

# **AUTOMATIC SPRAY GUNS** A110-P FA110-P A55-PR A55-F SA110-P A210-P FA210-P AHS2A-P

### A110/FA210/A110/A210 JA/SA/A55/AHS2A Series

#### **New atomization system**

(FA110, FA210, A110, A210, SA110)

Realizing high quality paint film by optimum spraying paint volume.

#### Lightweight and compact

The lightweight, compact design allows installation even in confined spaces.

# Highly durable non-lubricated type

(FA110, FA210, A110, A210)
The use of a special "U" needle packing on the paint line improves durability and eliminates any need for lubrication. Durability is further improved by use of a Teflon needle packing on the air line.

#### Adaptable for remote control

(A110, A210) (This performance is option in FA type.) The pattern can be adjusted (opened and closed) by remote control using compressed air.

#### Stainless steel passage for waterborne compatibility (FA110, FA210)

Туре	Model No.	Nozz <b>l</b> e type	Paint feed system	Nozzle bore	Standard air cap	Spraying pressure	Spraying distance	Air con- sumption	Paint spraying volume	Maximum effective pattern width	Pattern shape	Weight g	Main application
•		31.	.,	mm(in)	· ·	MPa(PSI)	mm(in)	L/min(cfm)	mL/min	mm(in)		(lbs)(oz)	
	FA110-P08P			0.8(0.031)	08P			220(7.8)	180	230(9.055)			Small object, low viscosity, top coating
<u>و</u> ع	FA110-P10P	F110	Pressure	1.0(0.039)	10P	0.25(36)	200(7.874)	230(8.1)	245	240(9.449)	Tulip	504	, , , , , ,
- T	FA110-P13P	1110	11000010	1.3(0.051)	13P	0.20(00)	200(1.014)	280(9.9)	310	270(10.630)	runp	(1.11)(17.8)	Small object, low and middle viscosity,
built-in air valve	FA110-P15P			1.5(0.059)	15P			290(10.2)	330	275(10.827)			top coating
With a b	FA210-P12P			1.2(0.047)	12P			335(11.8)	530	350(13.780)			Large object, low viscosity, top coating
ray Mit	FA210-P15P	F210	Pressure	1.5(0.059)	15P	0.25(36)	250(9.843)	345(12.2)	880	370(14.567)	Tulip	515	Large object, middle viscosity,
S	FA210-P20P	1210	1 1633416	2.0(0.079)	20P	0.23(30)	230(3.043)	375(13.2)	1,280	400(15.748)	Tulip	(1.14)(18.2)	surface and top coating
	FA210-P25P			2.5(0.098)	25P			410(14.5)	1,710	420(16.535)			Large object, high viscosity
	A110-P08P			0.8(0.031)	08P			220(7.8)	180	230(9.055)			Small object, low viscosity, top coating
	A110-P10P	F110	Pressure	1.0(0.039)	10P	0.25(36)	200(7.874)	230(8.1)	245	240(9.449)	Tulip	191	Sinal object, low viscosity, top coating
ose	A110-P13P	FIIU	riessuie	1.3(0.051)	13P	0.25(36)	200(7.074)	280(9.9)	310	270(10.630)	Tulip	(0.42)(6.7)	Small object, medium viscosity,
읖	A110-P15P			1.5(0.059)	15P			290(10.2)	330	275(10.827)			surface and top coating
유	A210-P12P			1.2(0.047)	12P			335(11.8)	530	350(13.780)			Large object, low viscosity, top coating
Multi-purpose	A210-P15P	F210	Pressure	1.5(0.059)	15P	0.25(36)	250(9.843)	345(12.2)	880	370(14.567)	Tulip	248	Large object, medium viscosity,
_	A210-P20P	1210	i i i i i i i i i i i i i i i i i i i	2.0(0.079)	20P	0.23(30)	250(5.045)	375(13.2)	1,280	400(15.748)	Tulip	(0.55)(8.7)	surface and top coating
	A210-P25P			2.5(0.098)	25P			410(14.5)	1,710	420(16.535)			Large object, high viscosity
	JA110-P08P			0.8(0.031)	08P			220(7.8)	180	230(9.055)			Small object, low viscosity
c)	JA110-P10P	F110	Pressure	1.0(0.039)	10P	0.25(36)	200(7.874)	230(8.1)	245	240(9.449)	Tulip	143	Sinal object, low viscosity
ati	JA110-P13P	FIIU	riessuie	1.3(0.051)	13P	0.25(30)	200(7.674)	280(9.9)	310	270(10.630)	Tulip	(0.32)(5.0)	O
tou	JA110-P15P			1.5(0.059)	15P			290(10.2)	330	275(10.827)			Small object, middle viscosity
Semi-automatic	SA110-P08P			0.8(0.031)	08P			220(7.8)	180	230(9.055)			Low viscosity
Ë	SA110-P10P	F110	Pressure	1.0(0.039)	10P	0.05/26)	200(7.074)	230(8.1)	245	240(9.449)	Tulip	108	LOW VISCOSITY
Š	SA110-P13P	FIIU	Piessuie	1.3(0.051)	13P	0.25(36)	200(7.874)	280(9.9)	310	270(10.630)	Tulip	(0.24)(3.8)	Middle viscosity
	SA110-P15P			1.5(0.059)	15P	1		290(10.2)	330	275(10.827)			iviluale viscosity
+	A55-P05R			0.5(0.020)				30(1.06)	100	~25(0.984)	Round	79	
Compact	A55-P08R	F55	Dunnauun	0.8(0.031)		0.0(00)	100(3.937)~	30(1.00)	240	~35(1.378)	noulla	(0.17)(2.8)	Small object, low viscosity
E	A55-P05	F33	Pressure	0.5(0.020)	-	0.2(29)	150(5.906)	66(2.22)	100	~90(3.543)	Triangle	71	Sinal object, low viscosity
Ö	A55-P08			0.8(0.031)			. ,	66(2.33)	240	~120(4.724)	Triangle	(0.16)(2.5)	
High viscosity	AHS2A-P30	HS2	Pressure	3.0(0.118)		0.29(42)		160(5.6)	_	260(10.236)	Triangle	480	Large object, high viscosity
NSC H	AHS2A-P40	1102	Fiessule	4.0(0.157)		0.29(42)	_	180(6.4)	_	200(10.236)	manyle	(1.06)(16.9)	Large object, high viscosity

For 110 and 210; Paint viscosity should be 20 seconds for lacquer enamel using a Meiji model V-1 viscosity cup.
 For AHS2A; Paint viscosity should be 22 seconds for lacquer enamel using a Meiji model V-1 viscosity cup.
 For AHS2A; Paint viscosity should be 22 seconds for lacquer enamel using a Meiji model V-1 viscosity cup.
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 For AHS2A; Paint viscosity should be 22 seconds for lacquer enamel using a Meiji model V-1 viscosity cup.

# EXTENSION AUTOMATIC SPRAY GUNS

# **O**Series

The head angle can be adjusted 360° by simply loosening the base nut. Besides in head angle variable type, the head

angle can be adjusted from 90° to -90° by loosening the top bolt. (Head angle variable type only) In A110 type, by making another

pattern air circuit, you can adjust the spraying pattern by remote control. (This performance is option in FA type )





A110-PX11L(500)(19.685in)

A110-PX17LA(150)(5.906in)

Tvne	) ypc	Model No.	Туре	Paint feed system	Nozz <b>l</b> e bore mm(in)	Standard air cap	Spraying pressure MPa(PSI)	Spraying distance mm(in)	Air con- sumption L/min(cfm)	Paint spraying volume mL/min	Maximum effective pattern width mm(in)	Head angle and inner dia. into which head can be inserted mm(in)	Pipe length mm(in)	Weight g (lbs)(oz)
	e l	FA110-PXC10P	Head angle variable type	Pressure	1.0(0.039)	10P	0.25(36)	200(7.874)	160(5.7)	190	210(8.268)	0°:40(1.575)	500(19.685)	834
둧	Va	FA110-PXC13P	extension automatic spray gun	riessuie	1.3(0.051)	13P	0.23(30)	200(7.074)	175(6.2)	235	220(8.661)	90°:60(2.362)	1,000(39.370)*	(1.84)(29.4)
bụilt-in	ä∶	FA110-PX10P	Extension automatic spray gun	Pressure	1.0(0.039)	10P	0.25(36)	200(7.874)	180(6.4)	245	230(9.055)	0°:40(1.575)	500(40.005)	784
With a	ing	FA110-PX13P	Extension automatic spray guir	riessuie	1.3(0.051)	13P	0.23(30)	200(7.074)	195(6.9)	310	240(9.449)	45°:55(2.165)	500(19.685) 1.000(39.370)	(1.73)(27.7)
₹	ray	FA110-PX11L	Pipe inside extension automatic	_	1.5(0.059)	_	0.25(36)	200(7.874)	70(2.5)	120	60(2.362)	0°:13(0.512)(straight only)	1,500(59.055)	760 (1.68)(26.8)
	g	FA110-PX17LA Full cone	spraying gun	Pressure	1.3(0.051)	_	0.3(44)	150(5.906)	180(6.4)	130	100(3.937)	0°:20(0.787)	1,800(70.866)*	946
		Hollow cone			, ,		0.0(1.1)	30(1.181)	, ,	300(130)	300(11.811)(250(9.843))	(straight only) '		(2.08)(33.4)
	,	A110-PXC10P	Head angle variable type	Pressure	1.0(0.039)	10P	0.25(36)	200(7.874)	160(5.7)	190	210(8.268)	0°:40(1.575)	500(19.685)	534
č	aso	A110-PXC13P	extension automatic spray gun	riessuie	1.3(0.051)	13P	0.23(30)	200(1.014)	175(6.2)	235	220(8.661)	90°:60(2.362)	1,000(39.370)*	(1.18)(18.8)
	g [	A110-PX10P	Futoncian automatic annu aun	Dunnanuna	1.0(0.039)	10P	0.25(36)	200(7.874)	180(6.4)	245	230(9.055)	0°:40(1.575)		464
2	읍 [	A110-PX13P	Extension automatic spray gun	Pressure	1.3(0.051)	13P	0.23(30)	200(7.074)	195(6.9)	310	240(9.449)	45°:55(2.165)	500(19.685) 1.000(39.370)	(1.02)(16.4)
M.H.	III	A110-PX11L	Dina incida autonojan automatia		1.5(0.059)	_	0.25(36)	200(7.874)	70(2.5)	120	60(2.362)	0°:13(0.512)(straight only)	1,500(59.055)	440 (0.97)(15.5)
_		A110-PX17LA Full cone	Pipe inside extension automatic spraying gun	Pressure	1.3(0.051)	_	0.3(44)	150(5.906) 30(1.181)	180(6.4)	130	100(3.937)	0°:20(0.787) (straight only)	1,800(70.866)*	633

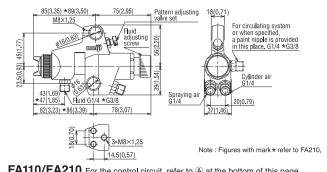
• Pipe length with mark \* is the maximum length, and it is possible to make the pipe length in 50mm(1.967in) measure within maximum length.

• Use of the longer pipe will result in reducing paint spraying volume. • Paint viscosity should be 20 seconds for lacquer enamel using a Meiji model V-1 viscosity cup. Feed pressure should be 0.08MPa(12PSI). • For model PX17LA; Paint viscosity should be 12 seconds, 20 seconds with mark\*\*, and the feed pressure should be 0.08MPa(12PSI), 0.03MPa(4PSI) with mark\*\*.
• Nozzle bore of 0.8mm(0.031in) and 1.5mm(0.059in) for PX(PXC) type is available. • Spcifications is for spray guns of pipe length 500mm(19.685in).

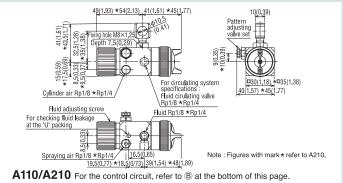
#### Remarks

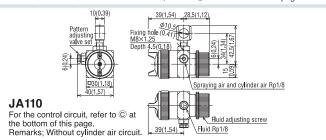
- Head angle cannot be changed when the spray gun is in use, and shall be changed after cleaning the paint circuit with no fluids inside. Due to its design and structure, please avoid changing the angle frequently.
- When the spray gun is in use, please do not loosen the Air cap nut. When changing direction of Air cap, Air cap itself shall be turned without loosening the Air cap nut.
- Fluid viscosity shall be less than 30sec by using Meiji V-1 model viscosity cup. Fluids with high viscosity may result in less ejection amount.

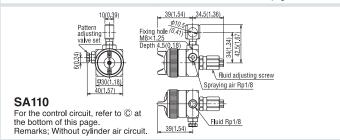
#### Dimensions mm(in)

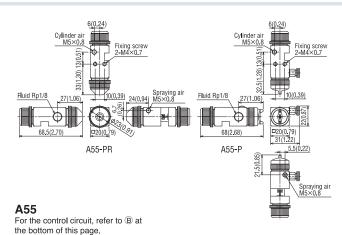


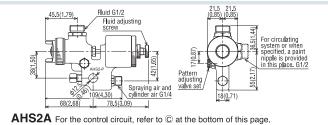
FA110/FA210 For the control circuit, refer to (A) at the bottom of this page.

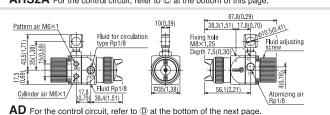


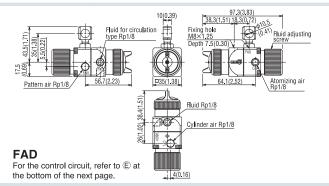


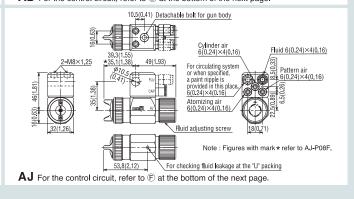




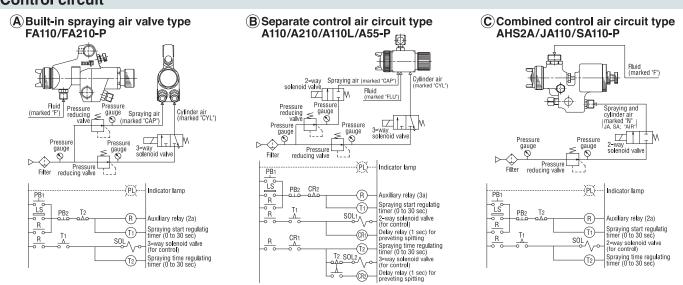








### Control circuit



# **SEPARATION TYPE AUTOMATIC SPRAY GUNS**

#### **Short-distance painting**

With taper structure of the nozzle tip, AD-P and FAD are applicable to short-distance painting, which enable high atomization and low spattering performance with a small g volume and small air and provide high-quality paint spraying consumption, a coating film.

#### Remote operation

Atomization air and pattern air are supplied via separate circuits. This structure enables remote operation of individual circuits.

Maintenance efficiency improvement
The spray gun is divided into three sections: cap base, gun body and cylinder body. This structure simplifies parts replacement, and enables the body (paint circuit) to be washed after immersed in solvent, resulting in maintenance efficiency improvement. Disassembling work is easy, without necessity of a special tool.

Change to SUS circuit for liquid contact area A SUS circuit can be used for the liquid contact area by changing the body.

#### Compatibility

Since the cap base and the body are applicable to both AD-P and FAD, AD can be changed to FAD by replacing a set of the cylinder body.

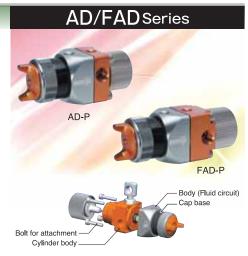
#### Built-in atomization air valve with remarkably lighter weight and smaller body (FAD-P)

The operation circuit has been simplified, resulting in higher operability.

FAD-P provides 40% lighter weight and 24% smaller size than our conventional model (FA), and provides an enlarged teaching range.

#### Compatibility with circulation type

When the plug and plug packing are removed from the aperture of the circulation circuit, these models can serve as the circulation type.



Model No.	Nozz <b>l</b> e type	Nozzle bore	Atomizing air pressure	Pattern air pressure	Spraying distance	Fluid feed pressure	Air con- sumption	Paint spraying volume	Maximum effective pattern width	
		mm(in)	MPa(PSI)	MPa(PSI)	mm(in)	MPa(PSI)	L/min(cfm)	mL/min	mm(in)	g(lbs)(oz)
AD-P10		1.0				0.03	110	100	145	180(0.40)(6.3)
AD-P10-SU	F110	(0.039)	0.25	0.25	200	(4)	(3.9)	100	(5.709)	255(0.56)(9.0)
AD-P13ST	F110	1.3	(36)	(36)	(7.874)	0.04	215 (7.6) 180	100	180	180(0.40)(6.3)
AD-P13ST-SU		(0.051)				(6)		100	(7.087)	255(0.56)(9.0)
FAD-P10		1.0				0.03	110	100	145	220(0.49)(7.8)
FAD-P10-SU	E110	(0.039)	0.25	0.25	200 (7.874)	(4)	(3.9)	100	(5.709)	295(0.65)(10.4)
FAD-P13ST	F110	1.3	(36)	(36)		0.04	215	180	180	220(0.49)(7.8)
FAD-P13ST-SU		(0.051)			(6)	(7.6)	100	(7.087)	295(0.65)(10.4)	

- Paint viscosity should be 20 seconds for lacquer enamel using a Meiji model V-1 viscosity cup.
   FAD type is built-in air valve for atomizing air.
   Dimensions are shown at page 12.

# JOINT BOX TYPE AUTOMATIC **SPRAY GUNS**

Adoption of new type of nozzle and cap With taper structure of the nozzle tip, AJ-P enables high atomization and low spattering, with a small spraying volume, resulting in maintenance and improvement economical effect, environmental servation and continuous painting conservation performance.

#### Maintenance efficiency improvement and attaching/detaching time reduction

The gun body and the joint box can be attached and detached with a single bolt, and the joint and hose not need to be removed from the gun body, thus enabling easy positioning when the joint box is re-mounted after maintenance. No special tools are required for all maintenance step

#### High transfer efficiency for flat surface finish (AJ-P08F)

Reduce overspray and paint adhesion on air cap by obtuse angle low air horn. Low spraying pressure and gentle air flow create flat and less irregular surface.



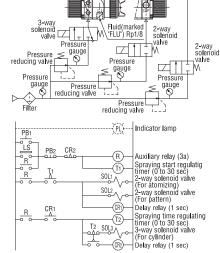


Model No.	Nozz <b>l</b> e type	Nozzle bore mm(in)	Atomizing air pressure MPa(PSI)	Pattern air pressure MPa(PSI)	Spraying distance mm(in)	Fluid feed pressure MPa(PSI)	Air con- sumption L/min(cfm)	Paint spraying volume mL/min	Maximum effective pattern width mm(in)	Weight g (Ibs)(oz)
AJ-P08F		0.8(0.031)	0.15(22)	0.15(22)	150(5.906)	0.04(6)	230(8.1)	100	90(3.543)	
AJ-P08P		0.8(0.031)					220(7.8)	180	230(9.055)	285
AJ-P10P	F110	1.0(0.039)	0.05(00)	0.05(00)	000/7 074)	0.00(10)	230(8.1)	245	240(9.449)	(0.63)
AJ-P13P	'''	1.3(0.051)	0.25(36)	0.25(36)	200(7.874)	0.08(12)	280(9.9)	310	270(10.630)	(10.1)
AJ-P15P		1.5(0.059)					290(10.2)	330	275(10.827)	

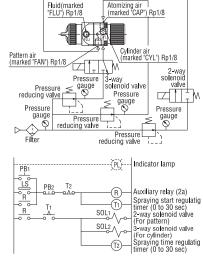
- Paint viscosity should be 20 seconds for lacquer enamel using a Meiji model V-1 viscosity cup.
- Dimensions are shown at page 12. Circulation type is available. Please specify the circulation type on your order.

#### **Control circuit**

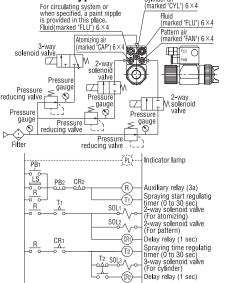




#### (E) Built-in air valve for atomizing air & pattern air circuit type FAD



#### (F) Cylinder air circut & pattern air circuit type AJ Cylinder air (marked "CYL") 6×4



# **AJ MODEL LINEUP**

#### AJ-P08P

- -Standard spec.
- -Medium spraying volume type
- -For general industrial painting Air cap
- High transfer efficiency
- Ecological
- UVMetallic
- Clear



### AJ-P08F

- -Spindle spray painting
- -Low spraying volume type
- -Air cap for spindle line which realizes flat and equal spraying pattern.
- High atomization
- High transfer efficiency
- UV
- Metallic
- Clear



#### AJ-P08P-5

- -High durability type
- -Medium spraying volume type
- -Nitriding treatment on Nozzle and Needle for higher durability
- High transfer efficiency
- Ecological
- UV
- Metallic
- Clear



#### AJ-P08P-SU

- -SUS Fluid passage type
- -Medium spraying volume type
- -Fluid passage made of Stainless steel which is suitable for water borne paints.
- High transfer efficiency
- Ecological
- UVMetallic
- Clear



#### AJ-P0810

- -Low air consumption spec.
- -Low spraying volume type
- -Ecological low air consumption Air cap
- High transfer efficiency
- EcologicalUV
- Clear



#### AJ-P08PL1

- -Painting in close distance
- -Low spraying volume type
- -Low air consumption with high atomization type Air cap (Also suitable for painting complex structure)
- High atomization
- High transfer efficiency
- Ecological
- UV



#### AJ-P08P-6

- -Waste paint dust prevention spec.
- -Medium spraying volume type
  -Air cap which minimizes paint
- -Air cap which minimizes paint clogging on tips of Needle and Nozzle to prevent waste paint dust.
- High transfer efficiency
- EcologicalUV
- Metallic
- Clear



#### **AJ-P0813ST**

- -Medium pressure spec.
- -Low spraying volume type
- -High atomization type Air cap (Also suitable when spraying distance is far)
- High atomization
- UV
- Metallic



### AJ-P08PL2

- -Painting in close distance
- -Low to Medium spraying volume type
- -Low air consumption with high atomization type Air cap (Also suitable for painting complex structure)
- High atomization
- High transfer efficiency
- Ecological
- UV
- Clear



## AJ-P1015ST

- -Medium pressure spec.
- Low to Medium spraying volume type
- -High atomization type Air cap (Also suitable when spraying distance is far)
- High atomization
- UV
- Metallic
- Clear



#### AJ-P08PL4

- -Painting in close distance
- -Medium spraying volume type
- -Low air consumption with high atomization type Air cap
- High atomization
- High transfer efficiency
- Ecological
- UV
- Clear



#### AJ55-P08

- -Low pressure
- -Low to Medium spraying volume type

AJL-P08LP

- -Better atomization with use of larger air which lowers spattering
- High transfer efficiency
- UV
- Clear



#### A033-1 00

- -Spraying extremely small object -Extremely low spraying volume
- type
  -Joint box are common with other
- type of AJ guns therefore guns could be exchanged within the same line.



-Suitable for line marking and dents that are about 5mm(0.197in).



#### Model format:

AJ O - P O Aif cap format Non standard format

#### Remarks:

- When the Air cap size is same as fluid nozzle, Air cap size will not be mentioned.
- For non standard format, C will be mentioned for circulation type and SU for Stainless Steel type.
- 3. 08=0.8mm

Model No.	Fluid nozzle	Fluid nozzle bore	Atomizing air pressure	Pattern air pressure	Spraying distance	Air consumption	Paint spraying volume	Maximum effective pattern width	Pattern shape	Weight									
	type	mm(in)	MPa(PSI)	MPa(PSI)	mm(in)	L/min(cfm)	mL/min	mm(in)	(Film thickness)	g(lbs)(oz)									
AJ-P08P						195(6.9)		85(3.346)	Triangle										
AJ-P0810		0.8(0.031)	0.2(29)	0.2(29)		80(2.83)		95(3.74)		285(0.63)(10.1)									
AJ-P0813ST			0.2(29)	0.2(29)		210(7.42)		80(3.149)											
AJ-P1015ST		1.0(0.039)				215(7.59)		00(3.149)	Flat	298(0.66)(10.5)									
AJ-P08F	F110		0.15(22)	0.15(22)		230(8.12)		90(3.543)											
AJ-P08PL1	1110					105(3.71)	100	100(3.937)											
AJ-P08PL2				0.2(29)	120(4.724)	135(4.77)		95(3.74)		285(0.63)(10.1)									
AJ-P08PL4			0.2(29)		120(4.724)	180(6.36)		95(5.74)		285(0.63)(10.1)									
AJ-P08P-5		0.8/0.031)				195(6.89)		85(3.346)	Triangle										
AJ-P08P-6		0.8(0.031)	0.8(0.031)	0.8(0.031)	0.8(0.031)	0.8(0.031)	0.8(0.031)	0.8(0.031)	0.8(0.031)	0.8(0.031)	0.8(0.031)				195(6.89)		03(3.340)		
AJL-P08LP	F110L		0.15(22)	0.15(22)		320(11.3)		100(3.937)		298(0.66)(10.5)									
AJ55-P08	F55		0.2(20)	0.2(20)		60(2.12)	50	70(2.756)	Flat	254(0.56)(8.9)									
AJ55-P08PR	133		0.2(29)	0.2(29)		30(1.06)	20	15(0.591)	Tiat	262(0.58)(9.2)									
AJ-P08P-SU	F110		0.2(29)	0.2(29)		195(6.89)	100	85(3.347)	Triangle	516(1.14)(18.2)									

- Paint viscosity should be 12 seconds for lacquer enamel using Meiji model V-1 viscosity cup.
   Circulation type is purified a Place presification latter type of the time of time of the time of time of the time of time o
- Circulation type is available. Please specify circulation type at the time of your order

# **AIR AGITATORS**

MAH-1A: Powerful type equipped with a built-in speed reducer.

MA-G: Turning speed is controllable by using a convenient handle.

MAF-2: Flange type which can be secured to the lid of the paint container.

MA-S: Holds an 18-liter paint can or pail. One-touch detachment of the stirring shaft and blades for easy cleaning.

MA-P: Hook type, secures to an 18-liter paint can or pail can.

MAF-21: Ideal for large-capacity paint in the flange type.

**MA-G-K**: The blade opens only when rotating. No necessary to cut the paint can completely (For MAH-1A, MA-G).

	Model No.	Output*	Torque*	Rotation speed* min <sup>-1</sup>	Air con- sumption* L/min(cfm)	Max. air pressure MPa(PSI)	Weight kg(lbs)(oz)
Ī	MAH-1A	277	6.8	390	400(14.1)		2.0(4.409)(70.5)
Ī	MA-G	45	0.45	1,000	180(6.4)		3.2(7.055)(112.9)
Ī	MAF-2	100	1.0	1,000	230(8.1)	0.49(71)	2.9(6.393)(102.3)
Ī	MA-S	45	0.45	1,000	180(6.4)		7.6(16.755)(268.1)
Ī	MA-P	45	0.45	1,000	180(6.4)		2.9(6.393)(102.3)

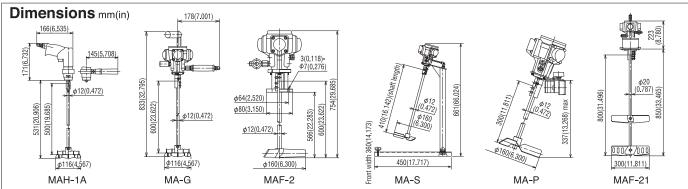
<sup>\*</sup>Specifications of an air motor of maximum output. • Air inlet : G1/4

#### MAF-21

D 1 11		Max. outp	out (air motor)		Rotation	Start						
Reduction ratio	Output W	Torque N·m	Rotation speed min <sup>-1</sup>		torque N·m							
1/5		6	180		360	9						
1/10	110	12	90	000(00)	180	18						
1/15	110	18	60	260(9.2)	120	27						
1/20	1	24	45		90	36						
Ma	Max. operation air pressure : 0.49MPa (71PSI) Weight : 11kg(24.251lbs)(388.0oz)											

• Air inlet : G1/4





# **EQUIPMENT FOR CORROSION PREVENTION**& UNDERBODY AREAS

#### **Engine Cleaner EC-7**

Ideal for spray cleaning oil to wash away grease and dirt from auto engines and other general machinery.

### **Body Under Schutz Spray Gun BS-2**

Ideal for spraying rust-proofing, anticorrosion, and vibration-damping paint onto auto fenders, trunks, hoods and other parts.



 The pipe angle can be adjusted 360°. Free adjustable nozzle (EC-7).



• Options for grip way (EC-7).





Model No.	Nozz <b>l</b> e bore mm(in)	Spraying pressure MPa(PSI)	Air consumption L/min(cfm)	Liquid spraying volume mL/min	Pattern shape	Fluid feed system	Required compressor output kW	Weight g(lbs)(oz)	Others mm(in)
EC-7*	3.0(0.118)	0.3(44)	55(1.9)	450**	Round	Suction	0.4	350(0.77)(12.3)	Pipe length : 240(9.449)
BS-2***	7.0(0.276)	0.29(42)	190(6.7)	_	noulla	Suction	0.75~1.5	390(0.86)(13.8)	_

<sup>\*</sup> Pipe length of 500mm(19.685), 750mm(29.528) and 1,000(39.370) is available. \*\* Liquid spraing volume should be used by water. \*\*\* Paint cups 10SC and 10SLB are available for BS-2-11.

# **CAULKING GUN**

Model No.	Fluid inlet	Length mm(in)	Weight g(lbs)(oz)	Fluid nozzle	For dowel	For tenon
CA	G1/4	188.9(7.437)	180(0.40)(6.3)	Including 2 kinds	1.5(0.059)×2 holes	3(0.118)×1 hole



DIAPHRAGM PAINT PUMPS

### PDP-05B, PDP-05A-SU, PDP-10A

Downsizing fluid circuit leads to reduction of left over fluids inside of the pump.(Fluid residual of PDP-05 types:6mL(6cc)). This contributes to reduction of VOC (Volatile Organic Compound) emissions by saving cleaning liquid.

Connecting metal air circuit has been modified to enhance pump performance.

Prevention against malfunction caused by loosened parts of diaphragm.

Paint pressure reduction valve has been modified to separate type for easy maintenance.

Diaphragm pump and paint pressure reduction valve, FR-1A are available separately as an individual part.

Fluid circuit of PDP-10A has been widen to improve pump performance.

Prevention against pump malfunction caused by over discharge has been improved for PDP-10A.

#### **Applications**

- Painting with frequent color changes
- Built-in painting systems
- Substitute for suspended gravity-feed tank
- · Single-gun, small-volume painting

Set N	lodel No.		PDP-05B	PDP-05A-SU	PDP-10A		
Diaph	ragm pump model		DP-05B	DP-05A-SU	DP-10A		
Paint	pressure-reduction valve model		FR-1A	_	FR-1A		
a	Max. air pressure	Mpa(PSI)	0.69(100)	0.7(102)	0.69(100)		
Pump	Max. discharge rate (value measured in w	ater) L/min	4	_	7.5		
	Diaphragm cycles	Cycles/min	0~	0~375			
Pressure- reduction valve	Paint pressure adjustment range	Mpa(PSI)	0~0.35(0~51)				
Pres	Max. flow rate	L/min	1.5	1.0	1.5		
Paint	outlet bore		G1/4×1				
Air in	let bore			G1/4×1			
Appro	ox. dimensions (W×D×H)	mm(in)	200×296×421 (7.874×11.654×16.575)	200×311×446 (7.874×12.244×17.559)			
Weig	ht	kg(lbs)(oz)	3.7(8.16)(130.5)	4.5(9.92)(158.7)	5(11.02)(176.4)		
Noto :	DDD OF A CILio a built in procesus	o rodustio	a value and can not be	used as transfer numn	•		

P-05A-SU is a built-in pressure-reduction valve and can not be used as transfer pumps. If a transfer pump is required, select the DP-17B.

### PDP-17B series

Paint is drawn in, pressure-feed and supplied while adjusting to the appropriate pressure.

Simple design for easy color changing and maintenance, as well as easy setup and location changes.

Fluorine resin coating (PDP-17B-TF).

Stand type with a built-in mixer (PDP-17B-SP).

Stainless steel passage for waterborne compatibility (PDP-17B-SU).

Set N	lodel No.		PDP-17B	PDP-17B-TF	PDP-17B-SP	PDP-17B-SU			
Diaph	ragm pump model		DP-17B	DP-17B-TF	DP-17B	DP-17B-SU			
Paint	pressure-reduction valve model		FR-4A	FR-4A-TF	FR-4A	FR-4A-SU			
۵	Max. air pressure	Mpa(PSI)		0.69	(100)				
Pump	Max. discharge rate (value measured in v	vater) L/min		17					
α.	Diaphragm cycles Cycles/min 0~170								
Pressure- reduction valve	Paint pressure adjustment range	Mpa(PSI)	0~0.35(0~51)						
Press redui	Max. flow rate	L/min	2.0						
Paint	outlet bore		G1/4×1						
Air in	let bore		G1/4×1						
Appro	ox. dimensions (W×D×H)	mm(in)	425×340×570 (16.732×13.386×22.441)	425×340×570 (16.732×13.386×22.441)	438×388×810 (7.874×15276×31.890)	425×340×540 (16.732×13.386×21.260)			
Weig	ht	kg(lbs)(oz)	8(17.64)(282.2)	8(17.64)(282.2)	13.5(29.76)(476.2)	13(28.66)(458.6)			
• SII	model is stainless steel	,							

- Models equipped with two pressure-reduction valves (two G1/4 bore paint outlets) are also available by special order.

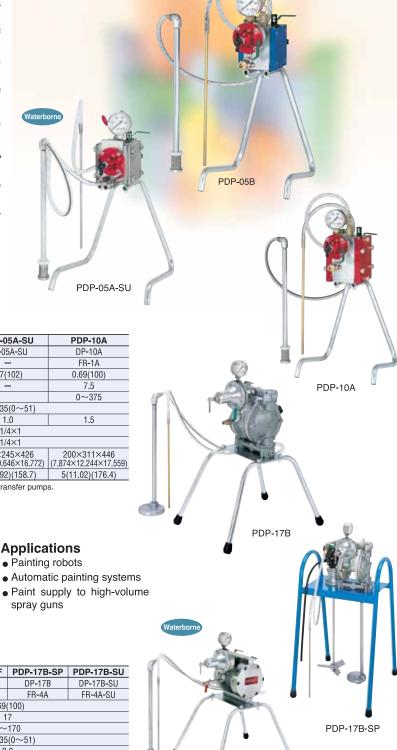
# PAINT PRESSURE-REDUCTION VALVE

Model No.		FR-1A	FR-4A	FR-4A-TF	FR-4A-SU	
Paint pressure adjustment range	Mpa(PSI)	0~0.35(0~51)				
Max. flow rate	L/min	1.5		2		
Valve effective sectional area	mm <sup>2</sup>	16				
Paint outlet	В	G1/4				
Paint inlet	В	G1/4 G3/8				
Weight	kg(lbs)(oz)	0.5(1.10)(17.6)	1.4(3.09)(49.4)	1.4(3.09)(49.4)	3(6.61)(105.8)	

<sup>•</sup> SU model is stainless steel.



- Painting robots
- Automatic painting systems
- Paint supply to high-volume spray guns





PDP-17B-SU

Fluorine resin coating

Paint pressure regulator valve cover, Body

Pump cover (both sides)

Pump adapter

PDP-17B-TF pump

# **PAINT PRESSURE FEED TANKS** PH-10 P-2A P-8S P-30B PA-30B P-30SB PH-30SB Stand for P-2A **Inner Tanks for Paint Pressure Feed Tanks** Model No. Capacity L(gal) PC-10 10(2.6) PC-30 27(7.1) PC-50 45(11.9) PC-8S 7(1.8) PC-30-S 27(7.1)

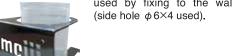
A paint pressure feed tank greatly improves work efficiency for painting large surface areas, when working in elevated locations, and for continuous automatic painting. Tanks are available in capacities ranging from 2 to 50 litters (0.5 to 13.2 gal.). Two different types of paint stirring systems are available depending on the type of paint to be used.

- Manual type : For comparatively low sedimentation paint.
- Air motor automatic type : For organic solventbased paints which are subject to color separation or sedimentation.



#### Stand for P-2A

For fall prevention. Ideal for placing various paint cups, such as when toning. It can be used by fixing to the wall



Model No.	Approx. size W×D×Hmm(in)	φ mm(in)	Weiht g(lbs)(oz)
STAND (P-2A)	160(6.299)×170 (6.629)×117(4.606)	133(5,236)	980(2.2)(34.6)

	Model No.	Capacity	Mixing system	Paint outlet	Air intlet	Max. operating	Approx. dimensions	Inner tank	Weight
	would no.	L(gal)	Wilking System	(dia.×qty.)	(dia.cqty.)	pressure MPa(PSI)	(Width×height) mm(in)	IIIIei talik	kg(lbs)
	P-2A	2(0.5)	_	G3/8×1(G1/4×1)	G1/4×1	0.34(49)	130×435(5.118×17.126)	Not included	1.25(2.76)
	P-30B	30(7.9)	_	G3/8×1	G1/4×1	0.19(28)	454×710(17.874×27.953)	Not iliciaded	25(55.12)
	PH-10	10(2.6)	Manual	G1/4×1	G1/4×1	0.69(100)	310×643(12.205×25.315)	PC-10 included	20(44.09)
	PH-30B	30(7.9)	Ivialiual	G3/8×1	01/4/1	0.19(28)	454×710(17.874×27.953)	Not included	27(59.52)
	PA-10B	10(2.6)	A	G1/4×1		0.69(100)	310×622(12.205×24.488)	PC-10 included	23(50.70)
	PA-30B	30(7.9)	Automatic (Air motor)	G3/8×1	G1/4×1	0.19(28)	454×710(17.874×27.953)	Not included	29(63.93)
	PA-50B	50(13.2)	(All Illotol)	G3/8×2		0.19(20)	454×945(17.874×37.205)	Not included	36(79.37)
_	P-8S	8(2.1)	_	G1/4×1	G1/4×1	0.49(71)	314×530(12.362×20.866)	PC-8S included	12(26.46)
Wate	P-30SB	30(7.9)	_	G3/8×1	U1/4/\1	0.35(51)	454×710(17.874×27.953)	Not included	25(55.12)
erbo	PH-30SB	30(7.9)	Manual	G3/8×1	G1/4×1	0.35(51)	454×710(17.874×27.953)	Not included	27(59.52)
orne	PA-30SB	30(7.9)	Automatic	G3/8×1	G1/4×1	0.35(51)	454×710(17.874×27.953)	Not included	29(63.93)
(D	PA-50SB	50(13.2)	(Air motor)	G3/8×2	U1/4/\1	0.19(28)	454×945(17.874×37.205)	Not included	36(79.37)

Application example

45(11.9)

PC-50-S

On S models, stainless steel passage for waterborne compatibilty.
A multi-purpose model with 30-liter, 0.35MPa(51PSI) specifications is also available by special order.

# PRESSURE-DISPENSING FLUID TANKS

PA-50SB

Stainless steel tank is ideal for pressurized dispensing of culinary liquids such as soy sauce, seasoning sauces, and cooking oil, as well as chemicals and solvents.

Safe design prevents cap opening during pressurization.

Lightweight and easy to transport. Can also be used as a sealed tank for liquids.

Once pressurized, the tank can be carried freely to enable pressurized supply of liquid anywhere.

Includes relief/safety valve as a standard feature.

The cap can be opened or closed with a single touch.







P-10SC

P-18SC

Model No.	Cap removal / replacement method	Internal diameter of opening mm(in)	Maximum useable pressure MPa(PSI)	Capacity L(gal)	Liquid dispensing outlet (dia.×qty.)	Air inlet (dia.×qty.)	Approx. dimensions (Width×height) mm(in)	Weight kg( <b>l</b> bs)
P-10SC	One-touch	81×97(3.189×3.819)	0.49(71)	10(2.6)	G1/4×1	G1/4×1	228×499(8.976×19.646)	3.0(6.61)
P-18SC	lever-lock system	`ellipse	0.49(71)	18(4.8)	G1/4×1	G1/4×1	228×679(8.976×26.732)	3.8(8.38)

# Waste can smashing machine "Can Pax

#### CPT-20C Automatic air pressure type

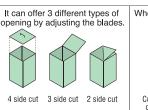
Waste can smashing machine which can approximately smash a large can with a handle into 1/10, and 18 liter square can into 1/8 from its original size. Easy control foot valve type with safety mechanism which the machine will only operate while the door is closed.

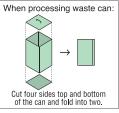
Residual liquids will be collected into a pallet.

#### CPH-18 Manual type

18 liter square can could be cut/opened simply by spinning the handle. Paint can could be cut/opened all 4 sides, 3 sides and 2 sides simply by adding or reducing the blades.

Blade can be polished or grinded by a Grinder.











#### Remarks

- Make sure to use without any residual liquids inside.
- · Remove cap from the can when in use.
- When cleaning, maintenance or not in use, make sure the Air supply is off and no remaining air inside.

Model No.	Air pressure Mpa(PSI)	Pressurization kN	Processing ability/hour	Air valve	Outer diameter (Width×Length×Height) mm(in)	Weight kg(lbs)	Type of cans that can be processed
CPT-20C	0.49~0.98 (71~142)	23.1	240	Foot valve type	595×620×1,105 (23.4×24.4×43.5)	230(507)	18L square can,1L~4L can, large can with handle etc.
CPH-18	_	_	_	_	430×760×850 (16.9×29.9×33.5)	28(61.7)	18L square can

• For CPT-20C, please use compressor which has 1.5kW or higher. Connecting Air intake with the compressor is G1/4 hexagonal nipple.
• Processing ability when using 0.75kW compressor with 100V would be 120~180pcs/hour.

#### CPE-20D Electric Hydraulic type

Waste can smashing machine which can smash a large can with handle and 18 liter square can in longitudinal direction.

As it is electric hydraulic type, all you need is 3 phase 200V power supply so compressor is not necessary.

Includes safety mechanism which the machine will only operate while the door is closed, emergency stop button, and also has safety automatic power off mechanism in case if the motor does not stop after pressing. Easy operation with a button from start to finish just by one touch. Residual liquids will be collected into a pallet.





#### Remarks

- Make sure to use without any residual liquids inside.
- Remove cap from the can when in use.
- When cleaning, maintenance or not in use, make sure the Air supply is off and no remaining air inside.

		Pressurization Processing		Outer diameter	Weight		Power supply	Type of cans that can	
Model	Model No.	kN	ability/hour	(Width x Length x Height) mm (in)	kg(lbs)	Power supply V	Output kW	Rated current A	be processed
CPE-2	20D	34.9	120	694×596×1,525 (27.3×23.5×60)	250(551)	3 phase 200V	1.13(4P)	6.4(50Hz) 5.2(60Hz)	18L square can,1L∼4L can, large can with handle etc.



Highly rust preventive by manufacturing all parts in Stainless Steel with Body and Trigger being beautifully buff polished.

Stainless steel are difficult to break compared to resin and in case of any contamination by damage, they could be detected by a metal detector.

In case of models which includes pattern adjustable nozzle, fluid amount could be adjusted by sliding the slide back and forth.

Flow rate could easily be adjusted simply by applying more and less pressure on trigger.







Original shower nozzle and straight nozzle ( $\phi$  5.0,  $\phi$  3.5) available. Filter #60 located in front of the nozzle to prevent contamination.



Joint Variation







Rotary Joint Coupler Joint for water

Easy removal design of trigger from the gun body without any use of pin or screw will easier your maintenance and cleaning which will also prevent possibilities of bacteria contamination and poor cleaning.

### Usage

Cleaning at Food, Medicine, Cosmetic manufacturing factory etc.

Model No.	Nozzle	Adjustable	Joint	Adaptive hose	Weight	Standard water pressure	Flow rate	e L/min
nozzle nozzle		dome	Adaptive 11030	g(lbs)(oz)	Mpa(PSI)	Direct blow	Jet blow	
SEN3-4W		×	1/2 barb hose joint		170(0.37)(6.0)		20	_
SEN3-4WK			1/2 barb flose joint	1/2 hose (barb hose joint Outer dia.	220(0.49)(7.8)	0.3(44)		
SEN3-4FWK	Shower		Flexible hose Joint		245(0.54)(8.6)			30
SEN3-4RWK			Rotary hose Joint	φ16mm(0.63in))	245(0.54)(8.6)			30
SEN3-4CWK			Coupler Joint for water		220(0.49)(7.8)			

# **ARCHITECTURAL SPRAY GUNS**

#### Wide selection of models

In addition to models specially designed for use with tile, resin, mortar, stucco, micro-fine stucco, etc., our extensive product line-up also includes multi-purpose spray guns and other models for every type of application.

#### Lightweight, excellent balance

Optimum efficiency design makes these spray guns extremely light-weight and the excellent handling balance minimizes operator fatigue during extended use.

#### One-touch operation (Models AGA, HS2A and HS2YA)

A special patented mechanism in which a hollow needle valve is automatically moved back and forth by air pressure makes "one-touch" operation possible for improved work efficiency.

# Thoughtfully designed to make work easier (Models SGA, AGA, KGA and LGA)

The large cup capacity and good paint flow make working with these spray guns easier. An air regulating valve eliminates uneven spaying to ensure consistently reliable painting, and a valve button locking system enables continuous operation.

#### Kansai Paint Co., Ltd. Water-based Zolacoat EX

Recommended model: AGA

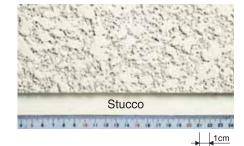




## Spraying samples for model SGA-2 & SGS-2







# How to Select a Spray Gun for Architectural Painting

Determine the spray gun and paint nozzle bore to be used according to the name of the paint, the paint viscosity, the size of the aggregate, and the pattern.

Also refer to the standard specifications listed in the paint catalog with regard to the spray gun name, nozzle bore, spraying pressure, etc.

### **Types of Aggregate**

Quartz sand, white marble, sand, clay-based crushed grains

 $50 \text{ mesh} = 279 \mu \text{m}$ 

Reference sizes : Table salt =  $100\mu m$ ,

Strand of human hair =  $70\mu$ m

#### Guide to Selecting Architectural Spray guns for Various Applications •: Ideal

Application  Model No.	Mortar	Fine lithin	Medium-sized lithin	Skin	Lightweight spraying material	Sprayed tile	Stucco	Zolacoat	Micro-fine stucco	Gel coat	Adhesive	Size of aggregate mm(in)
SGA-2, SGS-2	•	•	•	•	•	•	•					All aggregates
AGA	•	•	•	•	•	•		•*				0.6~1.8(0.024~0.071)
KG, KGA					•	•						_
MB-2, MB-2Y	•	•	•	•								0.6~1.8(0.024~0.071)
MB-3, MB-3Y	•	•	•	•								0.6~1.8(0.024~0.071)
LGA		•	•									0.6~1.8(0.024~0.071)
WG	•	•										0.6~0.9(0.024~0.035)
F210Z-P25Z								•				_
HS2A-G, HS2YA-G									•			50 mesh and smaller
F210Z-P										•	•	_

- Adhesive must be a solvent-based type with a viscosity of 500 mPa·s or less.
- Mark \* is for water-based Zolacoat.



Model No.	Type	Paint feed system	Fluid nozzle bore	Air nozzle bore	Spraying pressure	Air consumption	Pattern shape	Required compressor output	Paint cup capacity	Weight
		System	mm(in)	mm(in)	MPa(PSI)	L/min(cfm)	Silape	kW	L(cc)	g(lbs)(oz)
SGA-2	Multi-purpose	Gravity	For lithin: 5.5(0.217) 6.5(0.256) 7.5(0.293) For sealer: 3.5(0.138)	For lithin : 2.0(0.079) For tile : 2.5(0.098)	0.29~0.49	100~210	Daniel	0.75 or more	2.7(2,700)	750(1.653)(26.5)
SGS-2	gun	Gravity	For sealer: 3.5(0.138) For tile: 5.0(0.197) 6.5(0.256) <b>8.0(0.315)</b> 10(0.394) For stucco: 8.0(0.315) 12(0.472) 15(0.591)	For stucco: 2.5(0.098) (4	(42~71)	(3.5~7.4)	Round	0.75 01 111016	2.8(2,800)	1,050(2.315)(37.0)
AGA	Multi-purpose gun (Water-based zolacoat gun)	Gravity	For lithin: 3.0(0.118) 4.0(0.157) 5.5(0.217) <b>6.5(0.256)</b> For tile: 5.0(0.197) 6.5(0.256) 8.0(0.315) 10(0.394)	For lithin: 1.5(0.059) For tile : 2.5(0.098)	0.29~0.49 (42~71)	100~210 (3.5~7.4)	Round	0.75 or more	2.7(2,700)	960(2.116)(33.9)
KG	Tile gun	Crovity	5.0(0.197) <b>6.5(0.256)</b> 8.0(0.315)	3.0(0.118)	0.29~0.49	100~210	Round	0.75 or more	2.0(2,000)	900(1.984)(31.7)
KGA	Ti <b>l</b> e gun	Gravity	6.5(0.256) <b>8.0(0.315)</b> 10(0.394)	2.5(0.098)	(42~71)	(3.5~7.4)	noullu	0.75 or more	2.7(2,700)	700(1.543)(24.7)
MB-2 MB-2Y	Lithin and	0	4.0(0.457\ <b>C.E(0.05C</b> \ 7.5(0.000\	0.0(0.070)	0.00/40)	00/0.0)	David	0.75	1.4(1,400)	840(1.852)(29.6) 980(2.161)(34.6)
MB-3	Lithin gun	Gravity	4.0(0.157) <b>6.5(0.256)</b> 7.5(0.293)	2.0(0.079)	0.29(42)	80(2.8)	Round	0.75 or more	2.0(2,000)	970(2.138)(34.2)
MB-3Y						400 040				1,125(2.480)(39.7)
LGA	Lithin gun	Gravity	5.5(0.217) <b>6.5(0.256)</b> 7.5(0.293)	2.0(0.079)	0.29(42)	100~210 (3.5~7.4)	Round	0.75 or more	2.7(2,700)	700(1.543)(24.7)
WG	Motar gun	Gravity	3.0(0.118)	1.5(0.059)	0.29(42)	40(1.4)	Round	0.4 or more	1.3(1,300)	650(1.433)(22.9)
HS2A-G30			3.0(0.118)							1,173(2.586)(41.4)
HS2A-G40	Atomization type	Gravity	4.0(0.157)	1.5(0.059)	0.29(42)	225(7.9)	Round	0.75 or more	1.5(1,500)	*538(1.186)(19.0)
HS2YA-G30	gun	Gravity	3.0(0.118)	1.5(0.000)	0.23(72)	223(1.3)	F <b>l</b> at	0.75 01 111010	1.5(1,500)	1,266(2.791)(44.7)
HS2YA-G40			4.0(0.157)							*566(1.248)(20.0)
F210Z-P25Z	High-viscosity gun (Zolacoat gun)	Pressure	2.5(0.098)	_	0.25(36)	285(10.1)	F <b>l</b> at	1.5 or more	1.0(1,000) (10ZP CUP)	426(0.939)(15.0)
F210Z-P15			1.5(0.059)			240(8.5)				
F210Z-P20	High-viscosity gun	Pressure	2.0(0.079)	_	0.25/36)	290(10.2)	Round	1.5 or more	1.0(1,000)	419(0.924)(14.8)
F210Z-P25	(Gel coat gun)	licooule	2.5(0.098)		0.25(36)	345(12.2)	Flat	1.5 01 111016	(10ŽP CUP)	713(0.324)(14.0)
F210ZB-P30			3.0(0.118)			390(13.8)				

<sup>•</sup> Air inlet: G1/4 • Boldface of fluid nozzle and air nozzle is a first setting, and the other nozzle sizes are accessories.

\*Gun only

# TWIN NOZZLE GUNS







Model No.	Туре	Paint feed system	Nozzle bore	Air nozzle bore	Spraying pressure	Air consumption	Pattern shape	Required compressor output	Paint cup capacity	Weight
	3yotom	System	mm(in)	mm(in)	MPa (PSI)	L/min(cfm)	Shapo	kŴ	L(cc)	g(lbs)(oz)
WGW	Turin nomic		4.0(0.157)	1.5(0.059)	0.2~0.29(29~42)	80~120(2.8~4.2)		0.4 or more	0.8(800)×2	850(1.874)(30.0)
MW-A	Twin nozzle gun	Gravity	8.0(0.315)	2.5(0.098)	0.29~0.49(42~71)	180~350(6.4~12.4)	Round	2.2 or more	2.0(2,000)×2	2,000(4.409)(70.5)
MW-B	uuii i		0.0(0.313)	2.3(0.090)	0.23 -0.48(42.971)	100 - 330(0.4 12.4)		2.2 01 111016	2.0(2,000)^2	2,100(4.630)(74.z)

# AIR DUSTERS

Ideal for the removal of dust, cutting chips from

machine tools, sawdust, water drops, etc., and for air cleaning, cooling and drying. Selection of models includes types equipped with air flow rate adjusters, magnets, freely bendable nozzles, variable pipe lengths, etc.

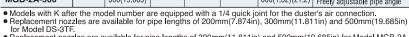


▲ Jet nozzle type



DS-3TK-J

Pipe bending angle	Pipe length mm(in)	Nozz <b>l</b> e bore mm(in)	Air pressure MPa(PSI)	Air con- sumption L/min(cfm)	Weight g(lbs)(oz)	Features
	_	2.2	0.20(42)	1/10// 9)	165(0.36)(5.8)	Button type
		(0.087)	0.23(42)	140(4.3)	170(0.37)(6.0)	Button type, Quick joint type
	_	2.2	0.29(42)	140(4.9)	185(0.41)(6.5)	Trigger type
		(0.087)	0.20(12)	110(1.0)	190(0.42)(6.7)	Trigger type, Quick joint type
	φ10(0.394)	0.0			220(0.49)(7.8)	
	φ10(0.395)	(0.087)	0.29(42)	140(4.9)	310(0.68)(10.9)	Trigger type, Extension type
					395(0.87)(13.9)	,,
	φ6(0.236)			205(7.2)	210(0.46)(7.4)	Trigger type, Small diameter, Lightweight, Blowing force
	φ6(0.236)		0.29(42)	180(6.4)	245(0.54)(8.6)	increased by 3%
	500(19.685) φ6(0.236)	,		160(5.7)	280(0.62)(9.9)	Capable of nozzle attachment, RC-20 and SN-22
_	_	2.2 (0.087)	0.29(42)	130(4.6)	190(0.42)(6.7)	Trigger type, with air flow rate adjuster
	200(7.874)	2.0			205(0.45)(7.2)	Trigger type,
Free	300(11.811)		0.29(42)	100(3.5)	215(0.47)(7.6)	Freely adjustable pipe angle
	500(19.685)	(/			235(0.52)(8.3)	Trees, anguerasie pipe angie
_	_	_	0.5(73)	350(12.4)	190(0.42)(6.7)	Trigger type, Quick joint type, Jet nozzle type
-0	100(3.937)				240(0.53)(8.5)	Trigger type,
	300(11.811)	_	0.5(73)	350(12.4)	330(0.73)(11.6)	Quick joint type, Jet nozzle type,
	500(19.685)				410(0.90)(14.5)	Extension type
Eroo	300(11.811)	2.0	0.20(42)	110(3.9)	560(1.23)(19.8)	With magnetic base Suction force: 15kg
1166	500(19.685)	(0.079)	0.23(42)	×2	600(1.32)(21.2)	Twin nozzles, Freely adjustable pipe angle
	bending angle   0° 45°	bending angle length mm(in)	bending angle length mm(in) mm(in) mm(in) mm(in) length length mm(in) length mm(in) length mm(in) length l	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$



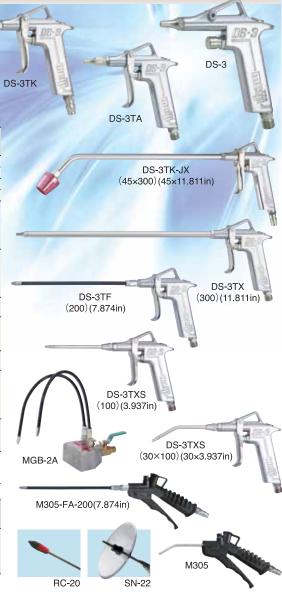
tor Model DS-31F.

Replacement nozzles are available for pipe lengths of 300mm(11.811in) and 500mm(19.685in) for Model MGB-2A.

Air inlet: G1/4 or quick joint

Model No.	Pipe bending angle	Pipe length mm(in)	Nozzle bore mm(in)	Air pressure MPa(PSI)	Air con- sumption L/min(cfm)	Weight g(lbs)(oz)	Features
M305	30°	90(3.543)	3.6(0.142)		250(8.8)	132(0.29)(4.7)	Attachment
M305-FA-200		200(7.874)		0.29(42)		160(0.35)(5.6)	Quick joint, Hexagon
M305-FA-300	Free	300(11.811)	2.0(0.079)	0.29(42)	100(3.5)	170(0.37)(6.0)	socket head screw,
M305-FA-500		500(19.685)				185(0.41)(6.5)	rubber tip tube

Maximum operating pressure is 1.57MPa(228PSI).
 Rubber tip nozzle, RC-20 and transparent shield nozzle, SN-22 are available for M305.



# AIR DUSTER WITH VACUUM FUNCTION

When the ball valve is closed, air is blown out. When the ball valve is open, air is sucked in. A small quantity of compressed air draws in a large quantity of secondary air, resulting in a strong suction force.

### **Applications**

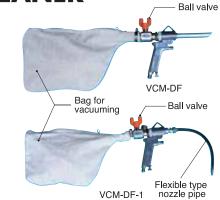
Cleaning: Vacuuming and blowing of metal shavings from machining, grinding

powder, sands, wood shaving sawdust and thread scraps from sewing.

Collection: Collection of barrel sands sandblasting sands and small spare parts. Cooling: Cooling of mold cast pieces, forged pieces, and welded pieces.

Model No.	Pipe diameter Inner dia.×Outer dia.	Air consumption	Suction force	Air pressure	Pipe leagth	Weight
Model No.	mm(in)	L/min(cfm)	kPa(PSI)	MPa(PSI)	mm(in)	g(lbs)(oz)
VCM-DF	11(0.433)×14(0.551)	260(9.2)	19.4(3)	0.49(71)	100(3.937)	504(1.11)(17.8)
VCM-DF-1	5(0.197)×11(0.433)	200(9.2)	19.4(0)	0.43(71)	200(7.874)	545(1.20)(19.2)

Air inlet : G1/4



# SPRING DUSTER SET

Duster Set consists of a urethane spring hose. The spring is inserted into the spring hose to prevent from stretching and to keep the air duster suspended in the same position tp improve work efficiency.

		O
550mm (21.654in)	В.	150mm (5.906in)
4	A	

		Urethane hose						Spring		
Model No.	Overa <b>ll l</b> ength when attached to duster	Extendable length	Inner dia. × Outer dia.	А	В	С	Normal pressure	Overa <b>ll</b> length	Outer dia.	Wire dia.
	mm(in)	mm(in)	mm(in)	mm(in)	mm(in)	mm(in)	MPa(PSI)	mm(in)	mm(in)	mm(in)
SPD-3B	1,050 (41.339)	2,000 (78.740)	5(0.197)	680 (26.772)	180 (7.087)	42	0.7	250 (9.843)	18	1.0
SPD-5B	1,550 (61.024)	3,000 (118.100)	8(0.315)	1,100 (43.307)	400 (15.748)	(1.654)	(102)	400 (15.748)	(0.709)	(0.039)



# AIR HOSE, PAINT HOSE



Paint Urethane, Nylon





FHN-7.5

Z					Specification			
Name	Model No.	Mate	rial classification	Inner dia.×Outer dia.	Working pressure MPa(PSI)	Length		
				mm(in)	IVIPa(PSI)	m(ft)		
	AH-7	Vinyl chloride		7(0.276)×13(0.512)	1.0(145)	20(65.6) 100(328.1)		
₽	AH-9.5		rinyi onionae	9.5(0.374)×16(0.630)	1.0(143)	20(03.0) 100(320.1)		
· hose	AHU-6.5			6.5(0.256)×10(0.394)	1.5(218)	20(65.6) 30(98.4)		
Se	AHU-8.5		Urethane	8.5(0.335)×12.5(0.492)	1.5(210)	50(164.0) 100(328.1)		
	MP			4(0.157)×6(0.236)	0.34(49)	5(16.4)		
-T	FHN-7.5	U	Urethane, Nylon 7.5(0.295)×10.5(0.413)		0.49(71)			
Paint hose	FH-7.5	Ure	thane with earth	7.5(0.295)×10.5(0.413)	1.47(213)	20(65.6)		
(0.4	FH-9.5		wire, Ny <b>l</b> on	9.5(0.374)×14(0.551)	1.47(213)			
Twin	TH-7.5	Air	Urethane	6.5(0.256)×10(0.394)	1.47(213)	5(16.4) 10(32.8) 15(49.2)		
/in	S I II-7.5		Urethane, Ny <b>l</b> on	7.5(0.295)×10.5(0.413)	0.49(71)	20(65.6) 30(98.4) G1/4 fittings included		
₽Ţ	TT-6×4		Urethane	4(0.157)×6(0.236)	1.0(145)	2(6.6) 5(16.4) 10(32.8)		
be			Urothono Mulon	4(0.107) < 0(0.230)	1.0(145)	15(49.2)		

# **QUICK JOINT**





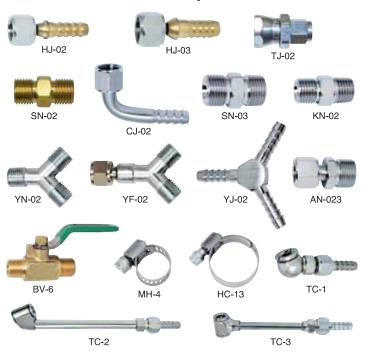


SMK-22

22PFG

Mode	el No.	Specification (Compatible hose)
Small	Standard	Specification (Compatible flose)
12SH	SHK-22	S type quick × 1/4 Hose (AH-7)
12SM	SMK-22	S type quick × R1/4 Male screw
12SMS	_	S type quick × G1/4 Male screw
12SF	SFK-22	S type quick × Rc1/4 Female screw
12SB	22SB	S type quick × 1/4 Urethane. hose (AUH-6.5)
13SB	23SB	S type quick × 3/8 Urethane, hose (AUH-8)
12PH	PHK-22	P type quick × 1/4 Hose (AH-7)
12PM	PMK-22	P type quick × R1/4 Male screw
12PFG	22PFG	P type quick × G1/4 Female screw
12PB	22PB	P type quick × 1/4 Urethane. hose (AUH-6.5)
13PB	23PB	P type quick × 3/8 Urethane hose (AUH-8.5)

# AIR HOSE COUPLING, FLUID HOSE COUPLING, BALL VALVES, TIRE CHUCKING



Model No.	Items	Specification				
HJ-02		G1/4 Cap nut 1/4 straight joint				
HJ-021	Hose joint	G1/4 Cap nut straight joint *1				
HJ-03	Hose joint	G3/8 Cap nut 3/8 straight joint				
HJ-032		G3/8 Cap nut 1/4 straight joint				
TJ-02	Tube joint	(6×4) × G1/4				
CJ-02	Bent hose joint	G1/4 Cap nut 1/4 Bent hose joint				
SN-02	Intermediate nipple	G1/4 × G1/4				
SN-03	Intermediate hippie	G3/8 × G3/8				
KN-02	Single tapered nipple	R1/4 × G1/4				
KN-032	Single tapered hippie	R3/8 × G1/4				
YN-02	Y-shaped trifurcate nipple	G1/4 nipple (3)				
YF-02	Y-shaped cap nut trifurcate nipple	G1/4 Cap nut (1) $\times$ G1/4 nipple (2)				
YJ-02	Y-shaped trifurcate joint	1/4 straight joint (3)				
AN-023	Adapter	G1/4 Cap nut × G3/8 nipple				
AN-032	Adapter	G3/8 Cap nut × G1/4 nipple				
BV-6	Ball valve	R1/4 × G1/4				
BV-8	Dail valve	R3/8 × G3/8				
02NU	Universal joint	G1/4 nut(1) × Urethane hose (AHU-6.5)				
03NU	Oniversal joint	G1/4 nut(1) × Urethane hose (AHU-8.5)				
MH-4		6×15 Equivalent to 1/4				
HC-11	Plate band	9×17 Equivalent to 3/8				
HC-13		14×22 Equivalent to 1/2				
TC-1		For bicycle				
TC-2	Tire chucking	Long handle, Double end For double tire				
TC-3		For bicycle and automobile				

<sup>\*1:</sup> AHU-6.5 and hose joint for P-2-02

# GUN MOUNTED AIR ADJUSTING VALVES & GAUGES MAR/MARD

•Light & Compact; Only 113g (0.25lbs, 4.0oz)(MARD)

•Stable; Air consumption & air pressure

• Available for other purposes; Air tools & air system



0.0(07.0)			MAF	Flow i	ate o	chart				
S 0.6(87.0)										
(S 0.6(87.0) Bay 0.5(72.5) W 0.4(58.0) 0.3(43.5) 0.2(29.0) 0.1(14.5)										
₹ 0.4(36.0)									_	
0.3(43.3)							_			
0.1(14.5)										
(14:0)										
⋖ 0	100	(3.5)	200( Flov	7.1) v rate L/r	300(1 nin (c1		400(1	(4.1)	500(1	7.7)

				. ,				
		MAR	D Flow r	ate chart				
(ISA) 0.6(87.0) 0.5(72.5) 0.4(58.0) 0.3(43.5) 0.2(29.0) 0.1(14.5)								
0.5(72.5)				_				
€ 0.4(58.0)								
0.3(43.5)								
5 0.0(10.0)								
SS 0.2(29.0)								
<u>8</u> 0.1(14.5)								
Air 0	100(3.5	5) 200(	7.1)	300(10.6)	400(1	(4.1)	500(1	17.7)
		Flo	w rate L/m	iin (cfm)				

Model No.	Air pressure range MPa(PSI)	Available fluid	Connection inlet	Approx. dimensions mm(in)	Weight g(lbs)(oz)
MAR	0~0.7(101.5)	Air	G1/4	66(2.598)×55(2.165)×62(2.441)	160(0.35)(5.6)
MARD	0.02(2.9)~1.1(159.5)	Air	G1/4	69(2.717)×56(2.205)×61(2.402)	113(0.25)(4.0)

\*Battery (CR2032) is not included with this product.

MARD

# RELATED & AUXILIARY EQUIPMENT

#### MSL Series Line Filters

Model No

MSL75B-03D

MSL150B-04D

MSL200B-06D

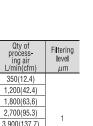
MSL250B-10D

MSL400-10D

MSL700-14D

MSL1000-14D

For removal of solid matter with a diameter of 1  $\mu$ m or more.



_
MSL150B-04D
and the second
-(140-
12700
100
Cap.

MSL400-10D

#### MSM Series **Micro-mist Filters**

For removal of solid matter with a diameter of 0.01  $\mu$ m or more; also feature an oil collection efficiency of 0.01wt ppm

Model No.	Qty of process- ing air L/min (cfm)	Filtering level µm
MSM75B-03D	350(12.4)	
MSM150B-04D	1,200(42.4)	
MSM200B-06D	1,800(63.6)	
MSM250B-10D	2,700(95.3)	0.01
MSM400-10D	3,900(137.7)	0.01
MSM700-14D	6,800(240.1)	
MSM1000-14D	10,800(381.3)	
MSM1300-20D	13,800(487.3)	



MSM150B-04D



MSM400-10D

#### MSK Series Activated Carbon Filters

Absorb and remove vaporous (malodorous) oil particles.

ing air L/min (cfm)

1.200(42.4)

1.800(63.6)

2,700(95.3)

3.900(137.7)

6 800(240 1)

10.800(381.3)

13.800(487.3)

Model No

MSK150B-04

MSK200B-06

MSK250B-10

MSK400-10

MSK700-14

MSK1000-14

MSK1300-20



MSK150B-04



MSK400-10

#### AF Series Air Filters

MSL1300-20D 13,800(487.3)

6.800(240.1)

10.800(381.3)

For removal of relatively small particles of water and dust.



Model No.	Max. flow rate L/min(cfm)	Filtering level µm
AF10-M5-A	180(6.4)	
AF20-01-A · 02-A	1,400(49.4)	
AF30-02-A·03-A	3,300(116.5)	
AF40-02-A·03-A·04-A	5,300(187.2)	5
AF40-06-A	6,000(211.9)	
AF50-06-A·10-A	11,000(388.5)	
ΔF60-10-Δ	12 000(423 8)	

#### AFM Series Mist Separators

For removal of small particles of water and dust.



Model No.	Max. flow rate L/min(cfm)	Filtering level µm
AFM20-01-A·02-A	200(7.1)	
AFM30-02-A·03-A	450(15.9)	0.3
AFM40-02-A·03-A· 04-A·06-A	1,100(38.8)	0.0

#### AR Series Air Regulators

For reliable and accurate pressure regulation.



AR30-03G	

Model No.	Max. flow rate L/min(cfm)	Max. operating pressure MPa
AR10-M5G-A	125(4.4)	
AR20-01G-A · 02G-A	800(28.3)	
AR25-02G-A · 03G-A	1,100(38.8)	
AR30-02G-A · 03G-A	1,500(53.0)	
AR40-02G-A·03G-A· 04G-A	3,000(105.9)	1.0
AR40-06G-A	5,000(176.6)	
AR50-06G-B·10G-B	10,000(353.1)	

#### Air Combination Set

0.003

An air filter, regulator and lubricator combined in a single set simplifies piping work.



AC40-04G

#### HB Series Air Transformers

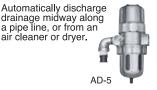
For removal of relatively small particles of water and dust, and for convenient adjustment of air préssure.



Model No.	Max. flow rate L/min(cfm)	Max. operating pressure MPa(PSI)	Filtering level µm
HB-602	800(28.2)	1.0(145)	15
HBH-602	950(33.5)	1.4(203)	13

#### AD and FD Series Automatic Drain Valves for Piping Equipment

Automatically discharge drainage midway along a pipe line, or from an



Model No.	Port size B
FD2NC-04	
FD2-04	Rc1/2
FD6-04	
AD5-04	Rc1/2
AD402-03-04	Rc3/8 • Rc1/2
AD600-06·10	Rc3/4 • Rc1

### ADT Series Automatic Drain Traps

For trapping water and other drainage inside an air tank or air dryer and completely discharging it

after a specified time.

AR60-10G-B



10,000(353.1)

Model No.	Control system
ADT-2C (for use with an air tank)	Fixed one-hour timer + IC control using a water sensor
ADT-3C (for use with an air dryer)	Variable timer (2/5/10/20/30 minutes) + IC control using a water sensor

#### ■ MDT-2E Drain Tanks

Collects heavy drainage and helps to keep the workplace clean. Use with ADT automatic drain traps

	MDT-2E
Model No.	MDT-2E
Tank capacity L(gal)	1010(2.2)
Inlet	G¹⁄₄×1
Weight kg(lbs)(oz)	1 (2.2)(35.3)

#### Model DDL-840 Dust Filters

Completely shuts out dust, ensuring that only clean air is supplied to the compressor





DDL-840

#### FOOT VALVE



Model No.	Air inlet	Air outlet	Weight g(lbs)(oz)	Mounting hole for fixing $\phi$ ×qty.
FV-02	G1/4	G1/4	530(1.168)(18.695)	6.5×4

Max. operating air pressure should be 0.69Mpa(10PSI).

### PAINTING MASKS

The use of a painting mask is obligatory as an industrial hygiene device against organic solvents generated during painting work.



For low con-



With dust filter

For any clarification or inquiry, please call or email us at anytime! 

The mechanisms, specifications and other information described in this catalog are subject to change without notice.



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