

# Introduction of New Manifold Type Automatic Gun **WRA-M200**



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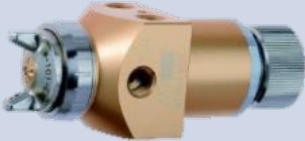



# 1. Lineup of ANEST IWATA's Automatic Guns



COATING  
SYSTEM

市場との対話

# ANEST IWATA's Automatic Guns used with Painting Robots

Model	General purpose WRA-101	General purpose WRA-200	Exclusive for Glossy finishing spray GFA-200	For spindle spray WRA-M50
Outside view				
Market	General Ind. (Metal•Plastic•Wood)	General Ind. (Metal•Plastic•Wood)	Automotive parts High Luminance Paint	Metal, Plastic Spray by rotating work-pieces
Work piece	Small	Large	Small	Small Long shape
Paint applied	Primer Solid / Clear	Primer Solid / Clear	Metallic Piano black	Primer Solid /Clear
Remark	Applied for many different kinds of application	Large workpiece and large paint output	Metallic, Mica, Glossy paints	H.T.E.* due to short spray distance

\*H.T.E.=High Transfer Efficiency

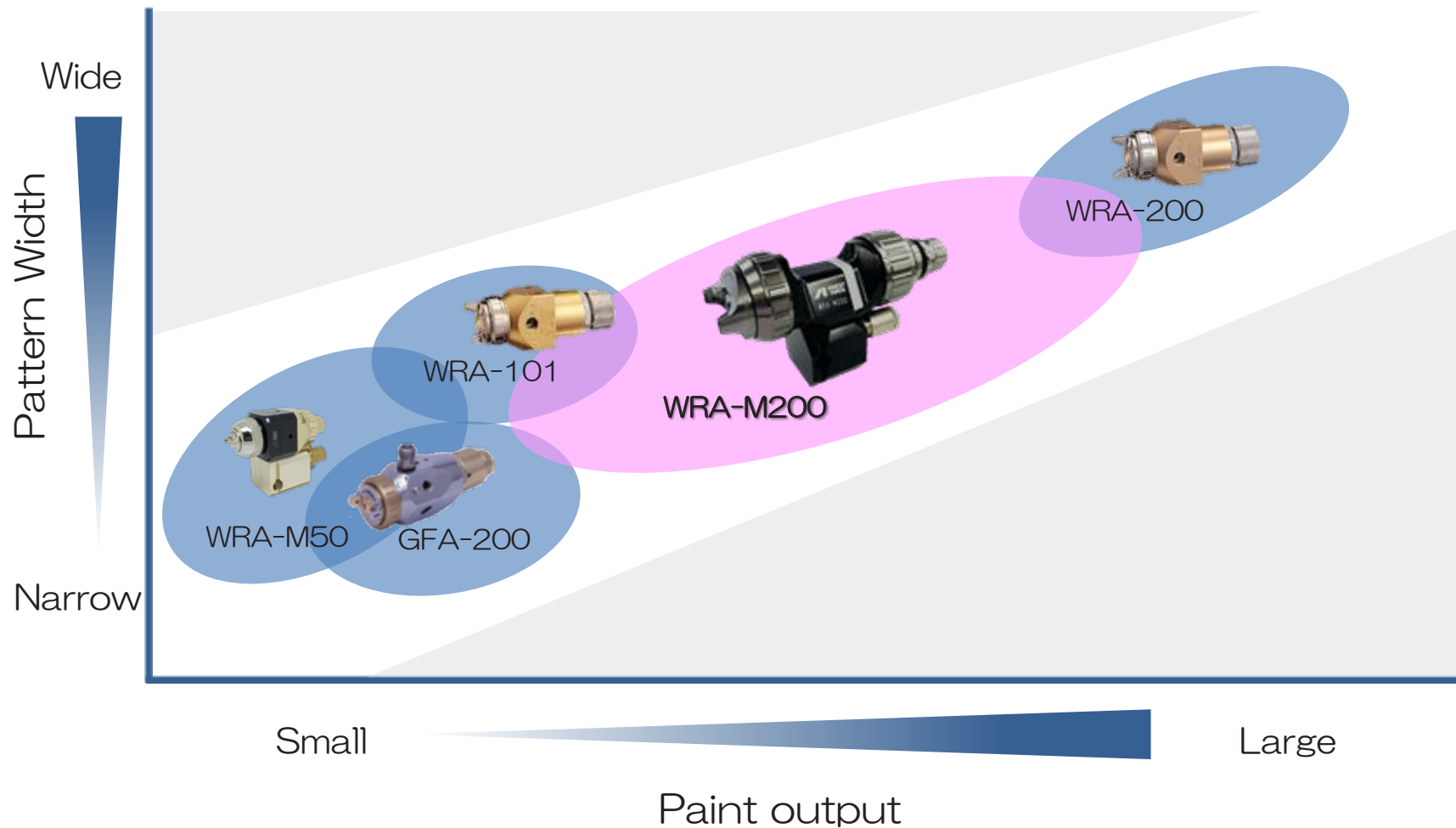
# 1.Lineup of ANEST IWATA's Automatic Guns



## Positioning of Each Model

Applications were widely covered by current 4 models of Automatic guns

**Applications are extended further by adding a new model WRA-M200**



## 2. Introduction of New Manifold type Automatic Gun **WRA-M200**



### Concept

### Easier to operate compared to current models

- Attractive design
- Wider variations available by combination of Air caps, Nozzles and Gun bodies that enables to respond to various requests of customers.

### Feature of WRA-M200

- Improved operational efficiency
- Easier maintenance
- More various Air caps, Nozzles and different body materials are available.

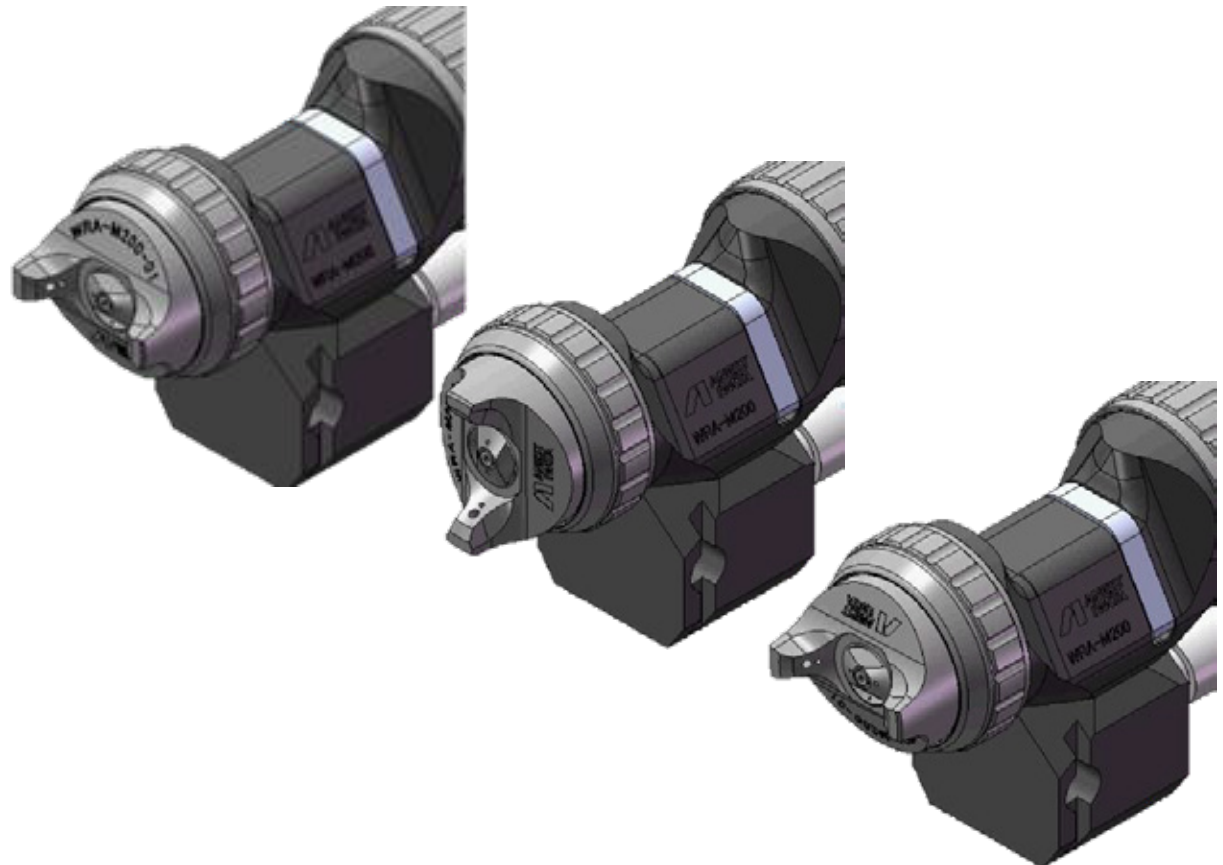
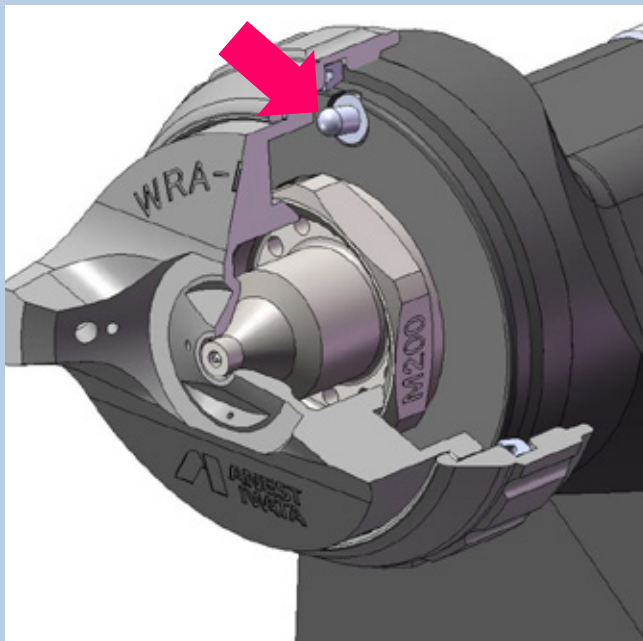


## 2. New Manifold Type Automatic Gun WRA-M200

### Feature 1 Easily air cap position indexed

WRA-M200 is designed so as to facilitate positioning the air cap.  
Air cap can be rotated in one direction (counter clockwise) and the position is easily indexed at 0° or 90° without precise visual check.  
(possible to select any position other than 0° or 90°)

Position indexed by spring plunger

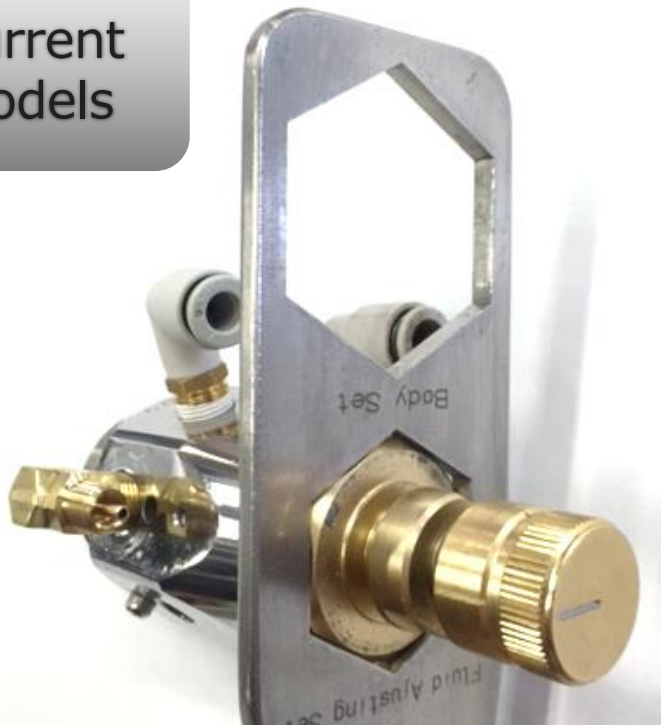


## 2. New Manifold Type Automatic Gun WRA-M200

### Feature 2 Easier maintenance without using any tools

Current models require to use tools to disassemble the paint adjustment a'ssy (assembly) for cleaning and replacing internal parts, however, WRA-M200 does not require any tools for disassembly of the paint a djustment a'ssy for daily maintenance.

Current models



NEW WRA-M200



## 2. New Manifold Type Automatic Gun **WRA-M200**

### Feature 2 Easier maintenance without using tools

The wet parts and the piston chamber of the gun body are designed so as to check visually and simply if needles and needle packing are worn out. Furthermore, the Packing cover can be detached to check any paint leakage and also it can be used as adjusting tool to re-tightening the needle packing without disassembly.


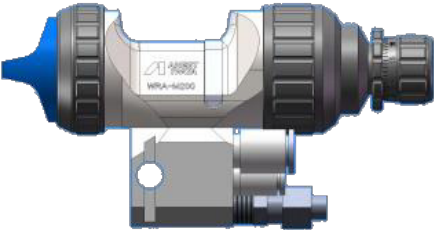


## 2. New Manifold Type Automatic Gun WRA-M200

### Feature 3 Various options enabling to cover wider applications

WRA-M200 can be applied to many different markets and industries widely by combining varied Air caps and nozzles.



















Two different materials for Gun body are available so as to be used for water base paint.

		
Gun body	Aluminum(STD)	Stainless steel(Option)
Fluid Nozzle	Stainless Steel	Stainless Steel
Fluid Needle	Stainless Steel	Stainless Steel
Manifold	Aluminum	Stainless Steel
Fluid joint	Stainless Steel	Stainless Steel
Remarks	Aluminum parts are anodized	

## 2. New Manifold Type Automatic Gun **WRA-M200**

### Variation of Air caps and specifications

WRA-M200 can be applied for any paint and workpiece by its various Air caps

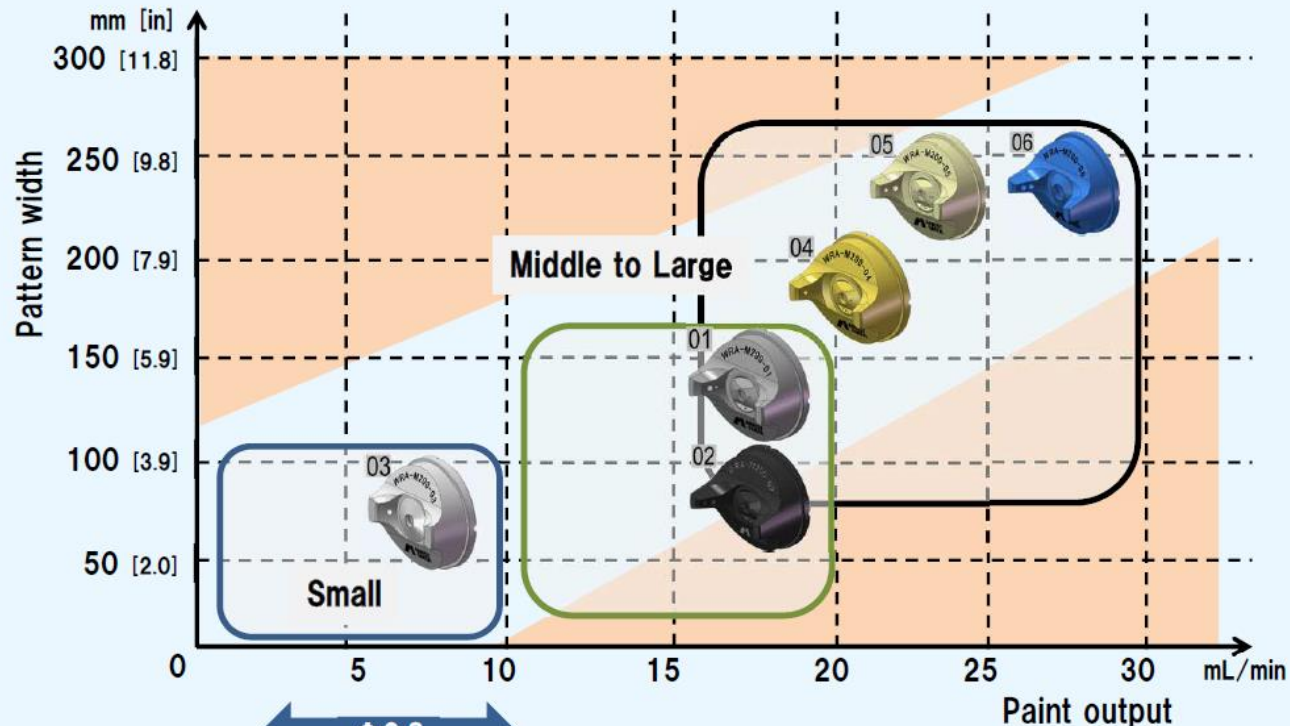
Air Cap Mark	Color of Air Caps	Recommended Spay Conditions						Sprayed Pattern Shape (image)		Objects to be sprayed / applied paint	Remarks
		Atomizing air press MPa [bar/PSI]	Pattern air pressure MPa [bar/PSI]	Paint output mL/min	Spray distance mm [in]	Air Consumption L/min [cfm]	Pattern width mm [in]				
01	 (Standard) Gray Color	0.20 [2.0/29.0]	0.18 [1.8/26.1]	200	200 [7.9]	300 [10.6]	200 [7.9]	 Flat		Fender size to Bumper size /Metallic	
02	 Black Color	0.23 [2.3/33.4]	0.21 [2.1/30.5]	200	200 [7.9]	360 [12.7]	180 [7.1]	 Center Heavy		Fender size to Bumper size /Solid/Clear	
03	 Silver Color	0.11 [1.1/16.0]	0.12 [1.2/17.4]	80	150 [5.9]	200 [7.1]	100 [3.9]	 Flat		Side mirror cover size /Metallic	
04	 Gold Color	0.35 [3.5/50.8]	0.23 [2.3/33.4]	200	200 [7.9]	440 [15.5]	200 [7.9]	 Flat touch		Fender size to Bumper size /Metallic	
05	 Pastel Gold	0.30 [3.0/43.5]	0.35 [3.5/50.8]	250	200 [7.9]	565 [20.0]	290 [11.4]	 Center Heavy		Fender size to Bumper size /Waterborne	
06	 Blue Color	0.16 [1.6/23.2]	0.16 [1.6/23.2]	300	200 [7.9]	430 [15.2]	300 [11.8]	 Flat		Bumper size /Waterborne	V-slit Nozzle

## 2. New Manifold Type Automatic Gun **WRA-M200**

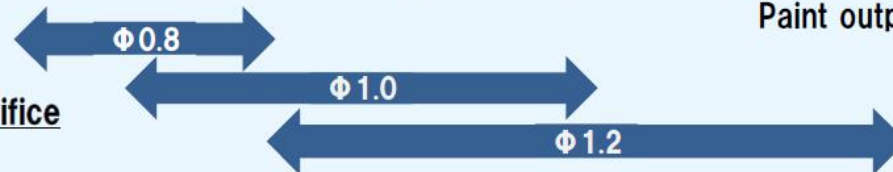
### How to select air cap

The most suitable air cap selected from wide variation of Air caps can be proposed to each customer.

#### Guideline for selecting Air Cap



#### Guideline for selecting Nozzle Orifice



※All models are pressure-feed types and fluid output should be adjusted at paint supply equipment or Flow Control Valve (FCV). Fine tuning is available by the fluid adjuster at the gun.

The Nozzle Orifice  $\Phi 1.2$  is standard due to being able to cover almost all ranges with any kind of paint except high viscous paint and if the paint output with  $\Phi 1.2$  is too less,  $\Phi 1.5$  is recommended instead.

When reduction of the paint output is required or Paint pressure from the paint pump/FCV or the Fluid Adjuster at the gun is not able to reduce the paint output enough that cause unstable paint atomization (paint output is not stable), change the Nozzle Orifice to  $\Phi 1.0$  or  $\Phi 0.8$ .

## 2. New Manifold Type Automatic Gun WRA-M200

### Demonstration Example (Comparison with competitor)

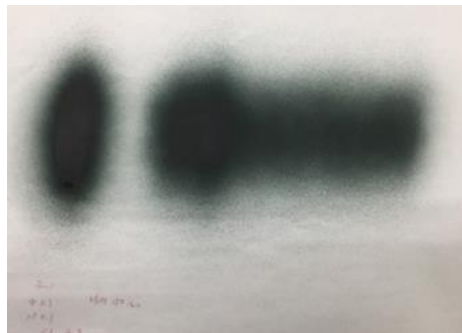
Customer: Automotive parts maker

Workpiece: Internal parts for automotive

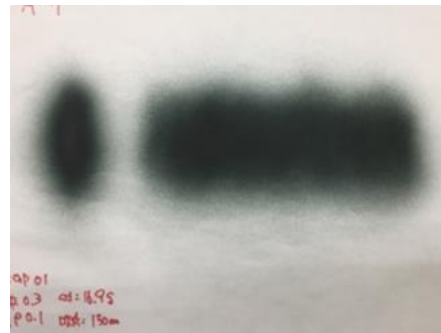
Paint :Black (Solid) Viscosity 12sec/NK2

Check points: the edge line of the masking and cavity penetration and gloss when coated film is still wet

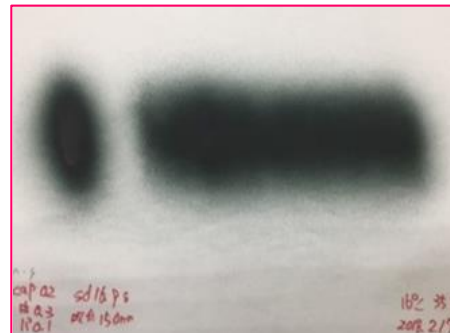
Center Air 0.3MPa/Horn air 0.1MPa Paint output 33.8g/min Spray distance 150mm



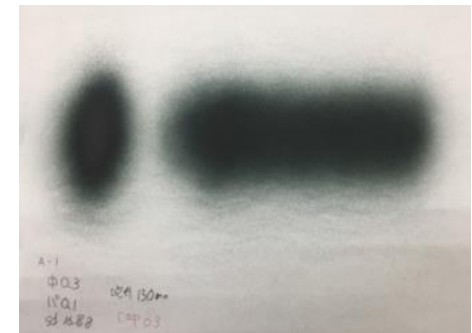
D Brand model T (805) STD



WRA-M200-1201 (01)

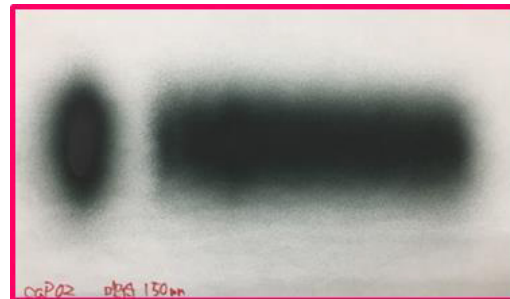


WRA-M200-1202 (02)



WRA-M200-1203 (03)

Paint out put 30.2g/min  
WRA-M200's cavity penetration,  
Paint film thickness, both ends  
of pattern shape, paint  
particles are better than those  
of Model T of D Brand.  
Paint saving by 11%.



Compared to Model T of D brand, the gloss after finishing in wet by WRA-M200 was the same or even better than that of Model T of D brand. Cavity penetration of air cap「02」was better than that Model T in terms of performance and paint saving.

## 3. Add-up



COATING  
SYSTEM

市場との対話

# 3. Add-up

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1. Introduction of Newly designed Automatic Gun WRA-M200

2. Features of WRA-M200

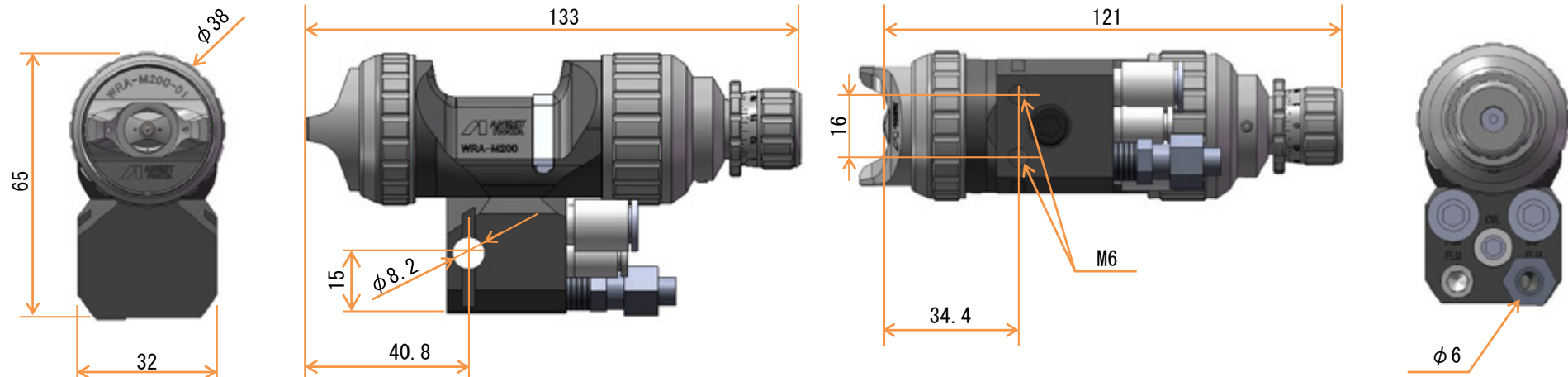
- Easier operation
- Easier maintenance
- Variety options enabling wider applications

3. After spray demonstrations by selecting the best air cap for the customer, following matters are confirmed;

- Better cavity penetration of spray
- Paint saving by about 11%

# Specification of WRA-M200

## Dimensions



Model	Paint Feed Method	Nozzle Dia. [φ mm]	Applied Air Cap Model	Recommended Spray Conditions.			Air Consumption [L/min]	Spray Distance [mm]	Pattern width [mm]	Weight [g]
				Air pressure at Inlet [MPa]		Paint Output [mL/min]				
				Atomization	Pattern					
WRA-M200-1201	Pressure	1.2	01	0.19	0.19	200	300	200	350	
WRA-M200-1202			02	0.23	0.22	200				
WRA-M200-1203			03	0.11	0.12	80				200
WRA-M200N-1205			04	0.35	0.35	250	565	200		290
WRA-M200N-1206			05	0.16	0.16	200				430

Paint viscosity: 12sec by NK-2

# ANEST IWATA

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