

meiji



IMPROVEMENT
IN PAINTING

Finer-core

SPRAY GUN

An aim for human-centered design

Pursuit of "beauty" and "usability" based on the theme of Ergono Dynamics Design

Applying for design registration



Supersonic image



Designed "tool" as an extension of the hand



Grasp & use

A shape with a curved surface, designed for palms and joints of hands, which are the points for support, force, and action when force is exerted.



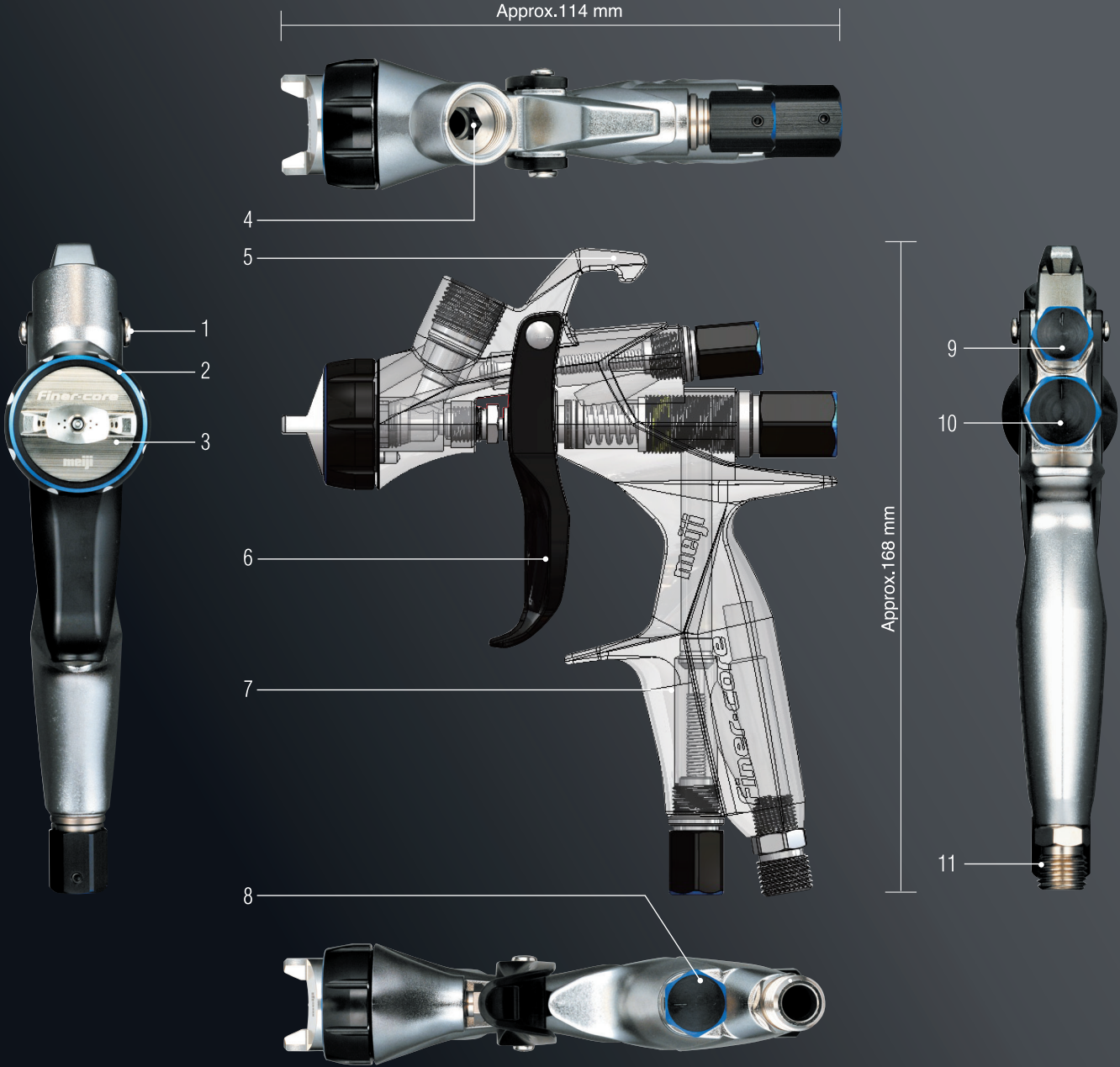
Handguard (flange)

The horizontally arranged handguard (flange) acts as a guide for the index finger and thumb, making the device more holdable during painting work.

Fits (in the palm)

The unique rhomboid-like shape of the grip originated from our pursuit for a comfortable fit in the palm

Product specifications



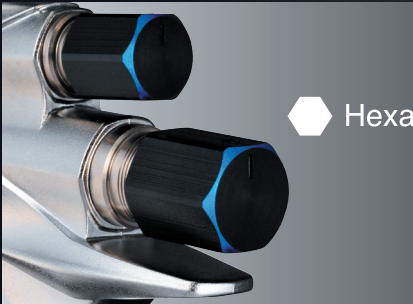
- | | | | |
|------------------------|---------------------|----------------------------------|----------------------------------|
| 1 Trigger Bearing Stud | 4 Paint inlet | 7 Body | 10 Fluid adjustment screw covers |
| 2 Cap nut | 5 Body hanging hook | 8 Air adjustment screw cover | 11 Air nipple |
| 3 Air cap | 6 Trigger | 9 Pattern adjustment screw cover | |

Operability & Elaborate

Quick nut for easy attachment/detachment by one tight twist



The hexagonal-shaped screw cover made to improve paint accuracy and cleanliness by making an even surface.



Introducing the long-awaited next stage in the evolution of spray guns, achieved by front-line professionals without compromise.

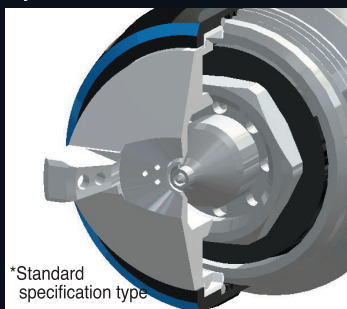
Painting quality has improved based on feedback given by professionals.

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.

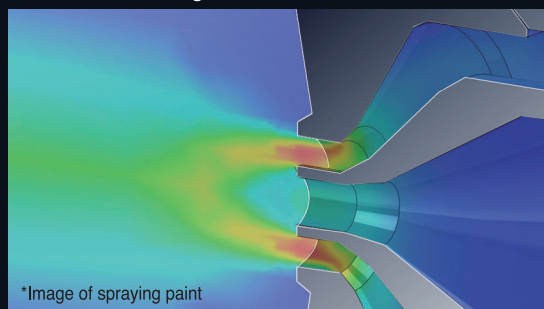
Utilizing the know-how we have cultivated over the years, we have adopted flat pattern control (a standard specification for CORE) that minimizes unevenness by positioning the secondary holes of the spray gun optimally, increasing the holes, and arranging them at an angle. Additionally, we have adopted 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.

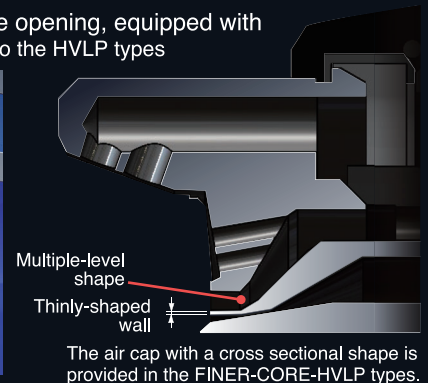


*Standard specification type

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



*Image of spraying paint

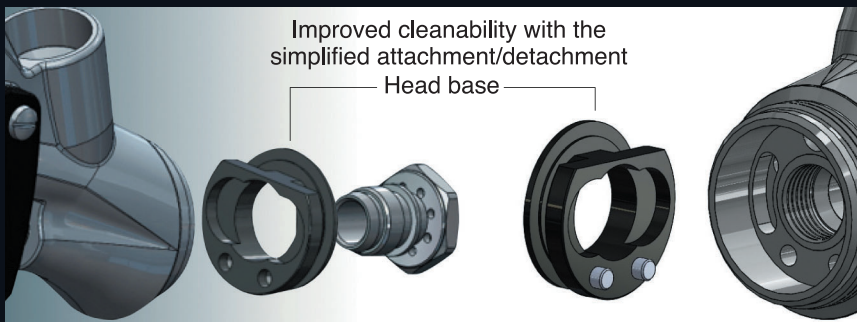


Multiple-level shape
Thinly-shaped wall

The air cap with a cross sectional shape is provided in the FINER-CORE-HVLP types.

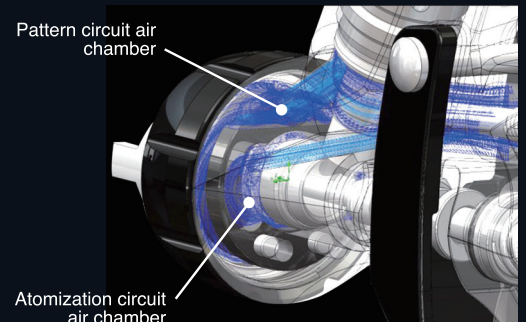
Dynamic Chamber

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 possible by providing a stable air flow to the opening.



Improved cleanability with the simplified attachment/detachment

Head base

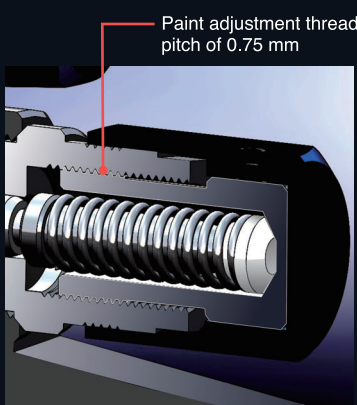


Pattern circuit air chamber

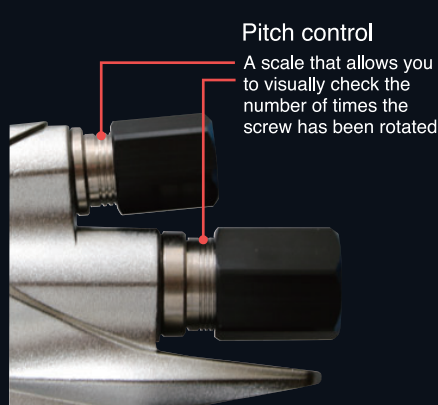
Atomization circuit air chamber

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.

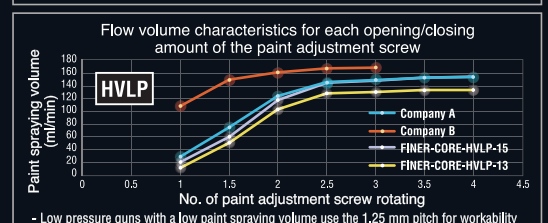
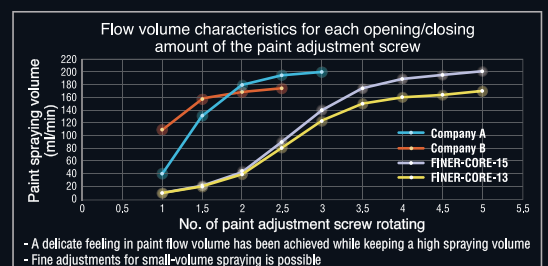


Paint adjustment thread pitch of 0.75 mm



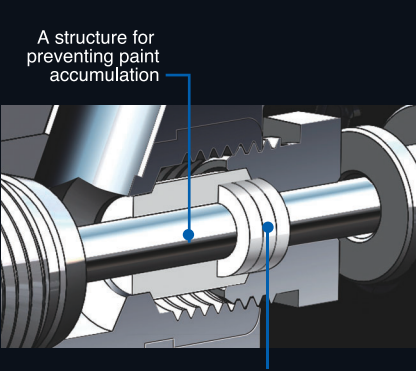
Pitch control

A scale that allows you to visually check the number of times the screw has been rotated

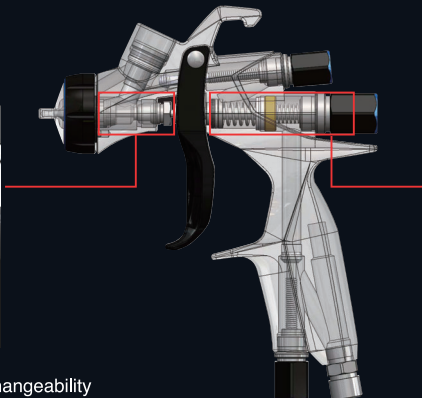


Low-resistance structure and highly durable design Patent No. 5222039

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.

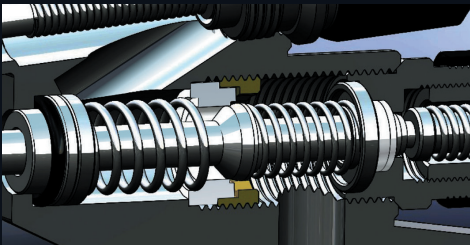


"Cartridge-type needle packing" for improved exchangeability



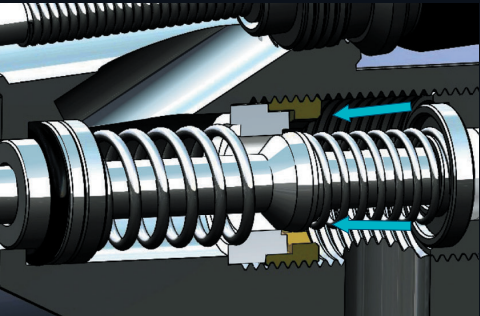
Highly durable structure with automatic valve extension

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.

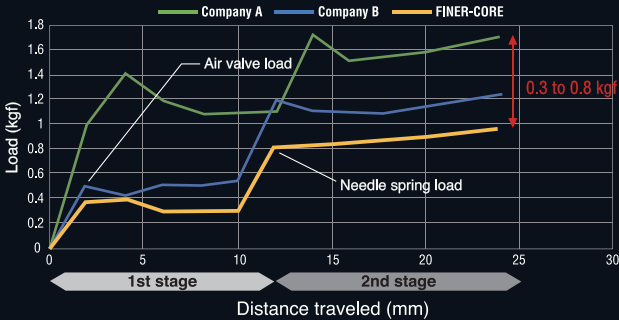


Reduced trigger load structure

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.



Trigger load curve (gun inlet pressure of 0.2 MPa)
Reduction of trigger load compared to other guns (approximately 30% less)



Product specifications

Model	Fluid nozzle bore	Air cap style	Spraying pressure (pressure inside the air cap)	Spraying distance	Air consumption	Paint spraying volume	Maximum effective pattern	Connection bore	Body weight
FINER-CORE-13	1.3mm (0.051in)	FINER-CORE	0.2MPa 29PSI	200mm (7.874in)	300L/min (10.6cfm)	170ml/min	280mm (11.024in)	accepts G1/4 1/4NPS for air G3/8 for paint	340g 0.75lbs 11.9oz
FINER-CORE-15	1.5mm (0.059in)					200ml/min	300mm (11.811in)		
FINER-CORE-HVLP-13	1.3mm (0.051in)	FINER-CORE-HVLP	0.18MPa 26PSI (0.07MPa) (10PSI)		380L/min (13.4cfm)	135ml/min	280mm (11.024in)		
FINER-CORE-HVLP-15	1.5mm (0.059in)					155ml/min	300mm (11.811in)		

*The paint viscosity should be 20 seconds for lacquer enamel using Meiji model V-1 viscosity cup.

Optional items

Gravity paint cup 6CP

- Low and wide design for better handling of spray guns.
- Made of resin which water-based paints can be used, and has improved cleanability.



Stand

- 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.





Safety instructions

- Please read the "Instruction manual" carefully before using the product.
- Do not carry out individual manufacturing improvements or manufacture spare parts yourself. Doing so may cause accidents or damage to the machine.



MEIJI AIR COMPRESSOR MFG. CO., LTD.

3-14, 2-chome, Tagawa, Yodogawa-ku Osaka 532-0027, Japan

Tel : +81-6-6309-1227 Fax : +81-6-6309-0157

URL <https://www.meiji-air.co.jp>

E-mail : export1@meiji-air.co.jp

- Based on consideration for environment, this catalog uses recycled paper and soy ink.
- The information in this document is subject to change without notice for product improvements, etc.