Ecco Automatic Spray Gun

Precision Air Atomizer

Precise and Constant Spray Pattern

The Ecco 70AS from ABB is a high quality, automatic air atomizer. It is especially designed for robots and can be used for both water borne and solvent based materials.

With unique technology in air cap manufacturing and design, it provides a new level in process control, with a stable, uniform spray pattern.

Constant Performance

Because of the high quality in air caps and nozzles, you get a constant, uniform spray pattern - even after replacement of air cap and fluid nozzle.

The air caps are mounted with fixed indexing at 4x90° or 2x180° positions for perfect alignment of the spray pattern.

Reduced internal pressure drop of atomizing and shape air stabilizes the output parameters and makes the gun less sensitive for variations in the upper range of air supply.

Atomizing and shape air are completely separated from the inlet to the air cap.

Flexible

The gun can be used for both water borne and solvent based material.

A large variety of air caps and fluid nozzles are available.

The ABB gun can be used for either conventional or HVLP operation by choosing different combinations of fluid nozzles and air-caps.

The gun can be supplied with an optional needle sensor for automatic adjustment of the gun needle delay compensation in the IPS system.

Compatible

The gun is a direct replacement for the ABB conventional standard and HVLP guns. It can be mounted on our standard gun-adapters with no modifications.

Easy to clean

Exterior surfaces are treated to ensure minimum dirt collection and easy cleaning.
TECHNICAL DATA, ABB ECCO GUN

SPECIFICATIONS

DIMENSIONS
Length 158 mm
Width 50 mm
Height 50 mm
Weight 960 gram

MATERIAL
Housing SS
Cylinder Alu/Tuf*
Nozzle SS or TC**
Aircap Alu/Tuf + SS
Needle 4 mm SS or TC**
Sealings Teflon/Perfl.***

OPTIONS
Needle sensor

*Tufram is a unique process of hardening and reducing friction on aluminum
**Tungsten Carbide
***Perfluor 128 is equal to Kalrez 4079

PAINT MATERIAL
The same gun can be used for both water borne and solvent based paint.

OPERATION
The minimum recommended operating air pressure is 6 bar. This is to secure a rapid response on the needle movement. Lower pressure can be used, but with a risk of delaying the opening time too much - resulting in the paint not hitting exactly on the surface.

LIFETIME
The needle packing provides an average lifetime of 3-5 millions cycles.

AIRCAPS
Air caps for the Ecco 70 AS are made in aluminum with a surface sealing and hardening process after machining. This is a different way of making air caps, but offers superior quality and even results compared with the traditional way with brass air caps.

The air cap is fastened by the use of a plastic ring, so that the plastic ring deforms during montage and not the air cap.

All the fluid tips are visually inspected for damage before shipment. All nozzles are visually inspected and measured for right tolerances.

Data and dimensions may be changed without notice.

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