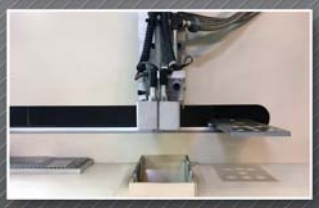
NEW ARRIVAL

Sunje Surface Treatment (Radical Type)

SST

By combusting special organic compound in the flame, it maximizes hydrophilicity, adhesion, printing.
Also, this eco-friendly machine has advantage such as applicable to 3D material,
requiring low maintenance fee.



Performance comparison by processing method

Classification	Glass	PP	HDPE	Steel	Al
Current Dyne	35	40	38	34	40
After Plasma Treat	45	56	54	43	54
SST 처리	73	73	73	73	73

▶ Unit : Dyne

Key Features

- Carbon Radical cam improve the surface which is difficult to apply corona or plasma treatment
  - Polymer : PP, PE, PET, PBT, FRP, Carbon fiber, Thermosetting resin, Thermoplastic elastic body etc.
  - Metal : Fe, Stainless steel, Al, Mg, Ti, Zn, Sn etc.
  - Inorganic material : glass, ceramic, standard inorganic substance etc.
- Longer hydrophilic maintaining period than plasma, corona, UV treatment
- Less maintenance cost and fast speed of surface treatment, 3D material applicable, high efficiency

SUNJE *We are always doing the best to satisfy customer needs!*

SURFACE TREATER

8, Cheonggwang-gil, Ilgwang-myeon, Gijang-gun, Busan, Korea
E-mail : info@sunstat.com / lsj1214@sunstat.com Tel : 051) 720-7543

Specifications

Parameter	Description / Value
Input Power	3 phase 440V
Power Consumption	5kW
Dimension	1,650 x 1,200 x 1,000 mm
Weight	100 kg
Special Solution	The amount used : about 5g/hr
LPG	The amount used : about 250~500g/hr
Air	Dry Air
Material	Steel (SS400)
Function	PLC / Alarm / On&Off Signal Communication
Warranty	1 year

※ The appearance and specification of the product may be changed without prior notice for the improvement of the product.
※ If do not use dry air, drop the performance.
※ Manufacturer does not offer LPG or Air.
※ Special reagent is consumable and is required to purchase separately. (1L plastic container)

Advantage

Applicable for various type of surface treatment

1. Special flame improve to make hydrophilic surface on metal and its alloy, and oxidative surface on metal. (Just only, protective oxidation surface)
2. It improve to make hydrophilic surface on polymers and silicon compounds without polarity.
3. It improve to make hydrophilic surface on ceramics and glass, it is difficult other method.

Eco Technology

1. To make hydrophilic surface does not use acid and base. (Excluding washing)
2. To make hydrophilic surface does not use VOC and a dangerous agents. (Volatile Organic Compound)

Improvement of Productivity and cost reduction

1. Very fast speed on surface treatment (30 - 1,000m/min)
2. It is not necessary other apparatus, just Special flame (Air compressor, LPG gas or LNG gas)
3. Just need Air, Gas and Special solution

The other

1. Extend to use the water coatings, water Inks
2. Remove the Primer process
3. Adhesion among the difference of materials
4. Customize & Sample Test

Application

Adhesion Tech.

1. Adhesion for silicon materials
2. Adhesion for engineering plastics
3. Adhesion for plastics and metals
4. Adhesion for plastics and glasses

Printing Tech.

1. Direct digital printing for plastics
2. Direct digital printing for metals and glasses (ceramics)
3. Other application : screen, web and pad printing

Coating Tech.

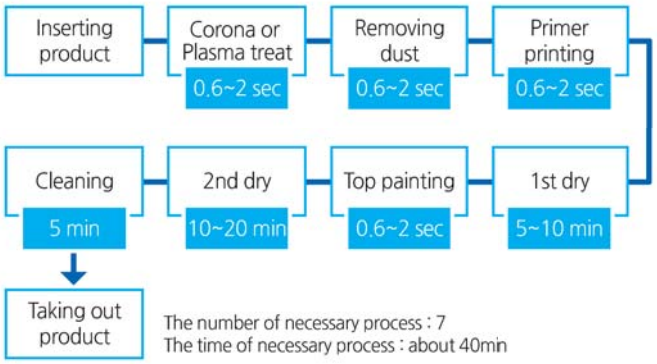
1. Coating for metal such as Mg, Al, etc
2. Coating for rubber, engineering plastics
3. Free primer coating for PP, PE
4. Coating for inorganic compounds and glass

hydrophilicity comparison picture

Dyne level of water : 70 and more

Process

The current process (In case, using organic solvent paint)

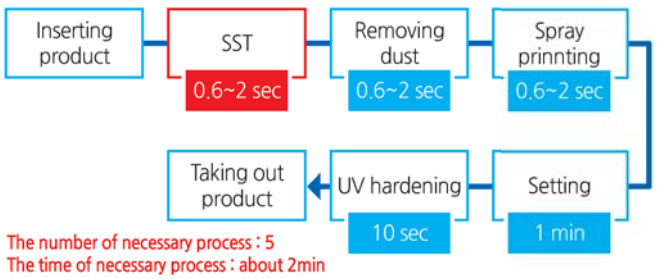


The number of necessary process : 7
The time of necessary process : about 40min

If using SST (In case, using organic solvent paint)

The number of necessary process : 5
The time of necessary process : about 20min

If using SST (In case, using UV paint)



The number of necessary process : 5
The time of necessary process : about 2min

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