





# **SCB Series**

Purpose : to remove non-adhesive particle Composition : Air knife / Dust collecting hood / Ionizer How To Remove : Air knife separates the particle and collects it



#### **Key Features**

- ▶ High efficient air knife uses less air
- Easy control for air knife angle and height
- Compact size with profile structure
- > Zero Electrostatic with installed ionizer

#### **Description**

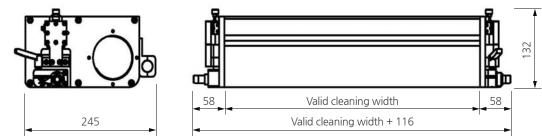
- Non Contact Type Dust Removal
- Maximize the performance using vacuum force formed between the object and dust removal and high pressure air
- Matching direction of air spray and the dust collection brings excellent performance
- Excellent cleaning with uniform air spray to the front

No.	Parameter	Description / Value
1	Application	Glass / Film / Printing Front End / Laminating / Cutting Back End / Molding Injection Back End / Steel Winding And Anodizing / Furniture etc.
2	Valid Cleaning Width(mm)	50 ~ 2,700mm
3	Size	(Dust Removal Valid width+116mm) × 245mm × 132mm [Length × Width × Height]
4	Cleaning Tool Height	Control 0~5mm
5	Removing Tool Type	Air Knife
6	Removing Tool Angle	0~90degree (goniometer attached)
7	lonizer	1ea
8	Dust Removal Body	Profile Structure
9	Option	Dust Collector / Utility Parts / Control System

### **Specifications**

# SUNJE

## Dimensions



## Feature Comparison

Parameter	Standard Type (Other Company)	SCB Series (SUNJE)	
Concept Image	Ionizer Jet Nozzle	Air Knife Dust chamber Ionizer	
Removing Tool	Jet Nozzle	Air Knife	
Capacity	Over 20~50 <i>µ</i> m	Over 10~15µm	
Feature	<ul> <li>Direct air spray type</li> <li>While spraying the air, leaking air between the gap can cause 2nd contamination</li> <li>Unbalanced air flow issue can appear in clean room</li> <li>Some area cannot be effective due to the use of jet nozzle</li> </ul>	<ul> <li>Removing dust with vacuum + air pressure</li> <li>Same direction of air spray and dust collecting prevents the secondary contamination</li> <li>Proper way of removing dust for Clean room</li> <li>This does not affect air flow balance in clean room</li> <li>Air knife and dust chamber design using Coanda effect makes the performance excellent</li> <li>Uniform removal level without dead zone</li> </ul>	

## Test Image

No.	Before Removal	Input Particle	After Removal	Test Condition And Result
1				<ul> <li>Application : LED Lamp</li> <li>Particle Type : Plastic</li> <li>Air Pressure : 5kg/cm<sup>*</sup></li> <li>Height : 2.0mm</li> <li>Result : No particle</li> </ul>
2				<ul> <li>Application : Glass</li> <li>Category : Glass Powder</li> <li>Air Pressure : 5kg/cm<sup>2</sup></li> <li>Result : No Particle</li> </ul>

# **SCH Series**

Purpose : to remove non-adhesive particle Composition : Brush / Air knife / Dust collecting hood / Ionizer How To Remove : First brush, Second air knife



#### **Key Features**

- > Air knife installed for brush cleaning
- Brush RPM Control system attached
- Convenient control for brush height and replacement
- Compact size from profile structure
- No electrostatic with installed ionizers

#### **Description**

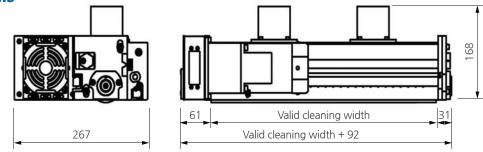
- Contact + Non Contact Type Dust Removal
- Double removal available
  - (1st brush and 2nd air knife)
- > Removable for Non adhesive or less adhesive particle

### **Specifications**

No.	Parameter	Description / Value
1	Application	Bobbin / LED Lamp Trim Process / Belt Conveyor / Steel Winding Or Zinc Plating / PCB Substrate / Glass Fiber / Furniture etc.
2	Valid cleaning width(mm)	50 ~ 2,700mm
3	Size	(Dust Removal Valid width+92mm) × 267mm × 168mm [Length × Width × Height]
4	Brush Size	Ф60
5	Brush RPM	0 ~ 400 RPM
6	Brush Height Control	± 6mm available
7	lonizer	2ea
8	Removing Tool Type	Air Knife + Brush
9	Option	Dust Collector / Utility Parts / Control System



### Dimensions



## Feature Comparison

Parameter	Standard Type (Other Company)	SCH Series (SUNJE)	
Concept Image	Brush	Ionizer Brush	
Capacity	Over 20~50 <i>µ</i> m	Over 10∼15 <i>µ</i> m	
lonizer	1ea	2ea	
Removing Tool	Brush	Brush + Air Knife 1st brush (contact type) 2nd Air knife (non contact type)	
Dust Chamber Structure	Slit (Gap:6mm) + Inverted Triangle Type	Slit (Gap:15mm) + Streamline Type (based on air foil principle)	
Feature	<ul> <li>Some area still remains particle after using brush</li> <li>If the ionizer is located in improper position, this can bring particle drop on removal zone</li> <li>Narrow width of chamber brings the limit of collecting dust</li> </ul>	<ul> <li>Double removal available</li> <li>Air knife makes no dead zone after brushing</li> <li>With the air knife position changed, it prevents particle drop to removing zone</li> </ul>	

## Test Image

No.	Before Removal	Input Particle	After Removal	Test Condition And Result
1	**** ****		2 <sup>100</sup> 9 ****	<ul> <li>Application : LED Lamp</li> <li>Particle Type : Aluminum</li> <li>Overlap Amount : 1mm</li> <li>Brush RPM : 200</li> <li>Result : No particle</li> <li>※ Adhesive Particle Test</li> </ul>
2				<ul> <li>Application : Bobbin</li> <li>Particle Type : Mixed</li> <li>Overlap Amount : 1mm</li> <li>Brush RPM : 200</li> <li>Result : No Particle</li> </ul>

# **SCT Series**

Purpose : to remove non-adhesive particle Composition : rotating nozzle / collecting dust hood / ionizer How To Remove : Spinning nozzles creates the wind, makes the particle float and then collects particle in the air



#### **Key Features**

- Fast speed rotating nozzle
- ▶ Low pressure, High efficient performance
- Compact size from profile structure
- Electrostatic free using installed ionizer

#### **Description**

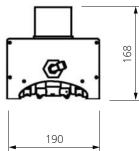
- Non Contact Type Dust Removal
- Suitable for removing fine particle with high speed rotating nozzle
- Available for removing particle from not only 2D but also 3D(Various shape applicable)

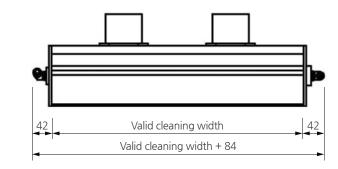
## **Specifications**

No.	Parameter	Description / Value
1	Application	Glass / PCB Assembly / Plastic / Molded Parts / Sandwich-Panel / Tray Removal / Painting / BLU Assembly / Other 3D Shape
2	Valid cleaning width(mm)	50 ~ 2,700mm
3	Size	(Dust Removal Valid Width+84mm) $\times$ 190mm $\times$ 190mm [Length $\times$ Width $\times$ Height]
4	lonizer	2ea
5	Removing Tool Type	Rotating Nozzle
6	Dust Removal Body	Profile Structure
7	Option	Dust Collector / Utility Parts / Control System

# SUNJE

## Dimensions



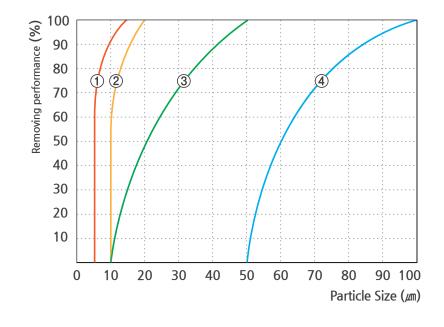


## Feature Comparison

Parameter	Standard Type (Other Company)	SCT Series (SUNJE)
Concept Image	Jet Nozzle	Ionizer Rotating Nozzle
Removing Tool	Jet Nozzle	Rotating Nozzle
Capacity	Over 20~50 <i>µ</i> m	Over 5~10µm
Feature	<ul> <li>Direct air spray type</li> <li>While spraying the air, leaking air through the gap can cause 2nd contamination</li> <li>Unbalanced air flow issue can appear in clean room</li> <li>Jet nozzle brings dead zone</li> </ul>	<ul> <li>Maximized performance by using rotating nozzle</li> <li>Available for removing particle from not only 2D but also 3D (various shape applicable)</li> <li>Easy to remove dust from the narrow gap</li> </ul>

## Test Image

No.	Before Removal	Input Particle	After Removal	Test Condition And Result
1				<ul> <li>Application : PDP Lower Plate</li> <li>Particle Type : Glass Powder</li> <li>Air Pressure : 1.0kg/cm<sup>2</sup></li> <li>Height : 8.0mm</li> <li>Result : No Particle</li> </ul>
2				<ul> <li>Application : BLU Assembly</li> <li>Particle Type : Dust</li> <li>Air Pressure : 3.0kg/cm<sup>2</sup></li> <li>Height : 16mm</li> <li>Result : No Particle</li> </ul>



# **Dust Removal Performance comparison**

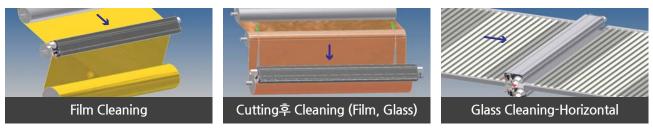
	Parameter	Capacity
Sunje	① SCT Series	Over 5 ~ 10 <i>μ</i> m
Sunje	② SCB Series / SCH Series	Over 10 ~ 15µm
Other	③ previous removal	Over 20 ~ 50 <i>μ</i> m
Company	④ previous removal (Vacuum Type)	Over 50 ~ 100 <i>μ</i> m

Like the table above, SCB / SCH / SCT series shows twice better performance than previous one.

# SUNJE

# **Dust Removal Application**

#### SCB Series



TSP Camera Lens Cleaning / TSP Camera Module Cleaning / TSP Cover Glass Cleaning / Automotive Interior Material Cleaning / Automotive Air Conditioning Panel Cleaning / Steel Plate Cleaning / Optic Film Cleaning / Film Cleaning / Glass Cleaning

#### SCH Series



TSP Camera Lens Cleaning / TSP Camera Module Cleaning / TSP Cover Glass Cleaning / Lumina Film cleaning / Optic film cleaning / Steel plate cleaning / Laser machine table cleaning / LED Lamp Cleaning / Automotive air conditioning panel cleaning

#### SCT Series



TSP Camera Lens Cleaning / TSP Camera Module Cleaning / TSP Cover Glass Cleaning / Microwave door cleaning / Fridge front glass cleaning / Cosmetic bottle cleaning / Tray Cleaning / Grinding tool cleaning / Molding cleaning / PCB Cleaning / F-PCB Film Cleaning / Copper film cleaning / Scanner assembly cleaning / Curved TV backlight cleaning / Backlight Cleaning / LCD Cleaning / 7G LCD Glass cleaning / 8G LCD Glass cleaning / Glass Chip Cleaning / Wafer Cleaning / Semiconductor cleaning / Automotive gauge cleaning / Automotive components cleaning / Automotive air conditioning panel cleaning / Motor Core Cleaning

We' are always doing the best to satisfy customer needs!



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