

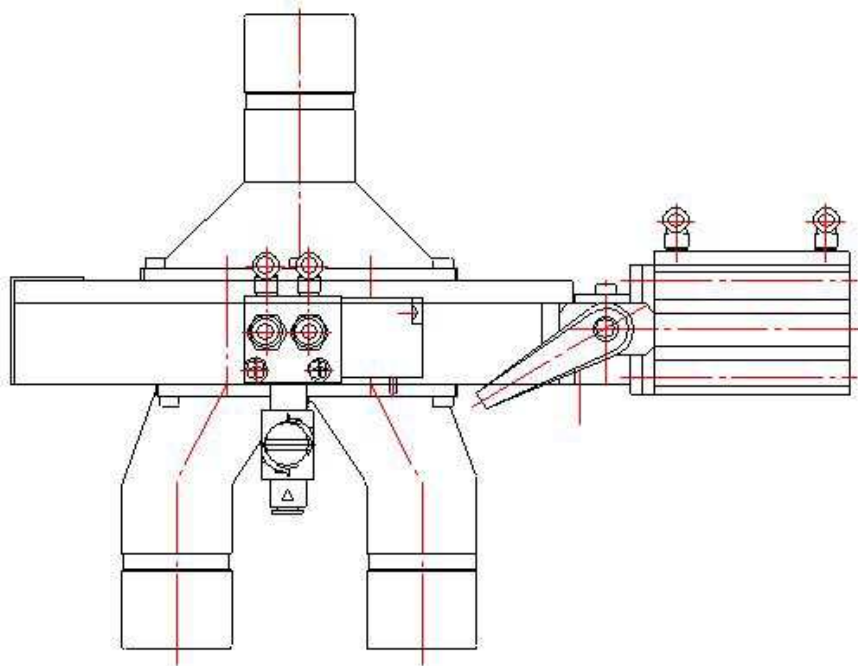
Jet Selector

SMS 2-38/50


Operating Instruction Manual








Thank you very much for purchasing our product.
Please carefully read this instruction manual for correct use.
During operation, keep this manual close at hand so that it can be referred to whenever necessary.



Foreword

Items marked with  are all important, please read Carefully and try to understand it before operating.

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Foreword

1. Product

Thank you for purchasing our Jet Selector. Please read this manual carefully for proper and safe operation. This instruction manual constitutes a warranty. Therefore, please carefully store this manual after you have read it.

2. Readers

Not only to customers who firstly use our product, but also to who has used this product, please read this manual book carefully whenever you have to check with some items.

3. About Warranty

1) Warranty Period

If any defect is found in our equipment under normal operating conditions, and we determine it to be a defective on design or manufacture, we will repair it or replace the parts free of charge within the following period and terms. In addition, please return the defective product back to us.

(1) The warranty term of the product is 12 months after the initial operation, but shall not exceed 15 months after the date of shipment of the product.

(2) The warranty period for any parts replaced for repair shall be three (3) months from the date of repair.

2) Exceptions

A. The following issues are not in the maintenance scope.

1. Undesirability which causes as a result of the environmental variation
2. Loss which induces as a result of the product breakdown
3. Problem which causes as a result of the effectiveness change (painting, galvanization)
4. Outlook phenomenon, which is normally regarded as not affecting quality nor function aspect.
5. Because of the revise which is done by your company.

B. The breakdown or the damage produces as a result of the following reasons is out of warranty scope.

1. Earthquakes, typhoons, floods, and other natural disasters and accidents, fires
2. As the general in places other than the use of the installation failures
3. Because intentionally or the error has not requested according to the instruction for use to carry on the use and the maintenance inspection
4. There are imperfections and mistakes in the maintenance or the service
5. After handing over to your company, defective occurs due to moving, installation process, etc.

Chapter 1. For Your Safety Operation

This chapter describes precautions for operation, maintenance and inspection and repair, identification of headings of precautions and labels affixed to the product for using this product correctly and safely.



When carrying out operation and maintenance and inspection of this product, be sure to follow the safety precautions described in this manual. We shall assume no liability for any injury or accident caused by failing to follow these precautions.

1 . Note the title of the type and significance

In this instruction book, labels are classified according to the degree of danger as follows.

Heading	Meaning
	This heading is applied to cases where there is a possibility that mishandling will lead to the user's death, and precautions to avoid any such occurrence are described below the heading.
	This heading is applied to cases where there is a possibility that mishandling will lead to the user's serious injury, and precautions to avoid any such occurrence are described below the heading.
	This heading is applied to cases where there is a possibility that mishandling will lead to the user's slight injury or damage to the product, and precautions to avoid any such occurrence are described below the heading.
	This mark is used for handling procedures requiring special attention.
	This mark is used for exceptional conditions and notes in figures and tables.

2. Items to observe for safety operation

When using this device, be sure to comply with the items in below.

Items	Pay Attention Please
Usage	This device is a propotional divider applied for resin pellets only. Damage may occur, if it is used for other materials. When it is damaged or get trouble when using for other materials, it is out of warranty range. Please kindly be noted for it.
Maintenance	Before checking or carrying maintenance, you must cut off the supply for both electrical power and compressed air.
Controller	Please avoid strong striking, nor spraying water on this machine. Otherwise they will lead to failure or even fire.
Warning labels Device nameplate	Keep labels legible until you dispose of the machine.



※The warning above is very important!

Body injury may occure if operating against contents of the warning!

Chapter 2. Machine Introduction

1. Brief introduction

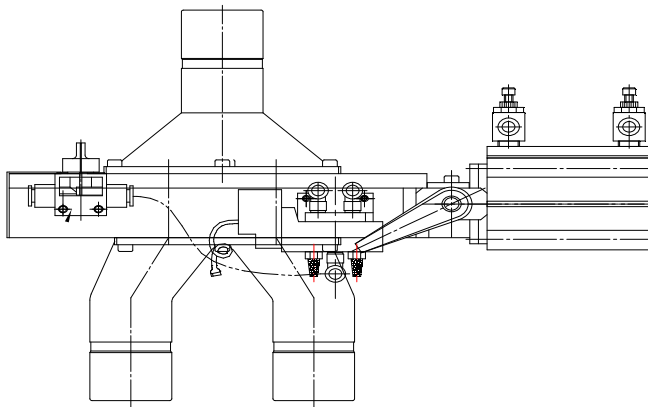
This device is a proportional divider which is suitable for the resin material transportation purpose.

With to the linear movement of cylinder, this device switches open and close between 2 material tubes, to mix 2 material at some ratio.

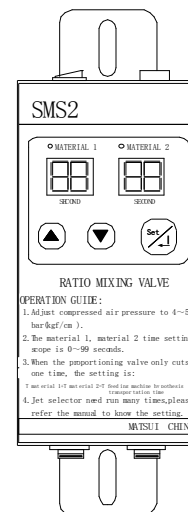
2. Contents of what you purchases

Please check whether equipment which you bought is complete.

1). Main body



2). Controller

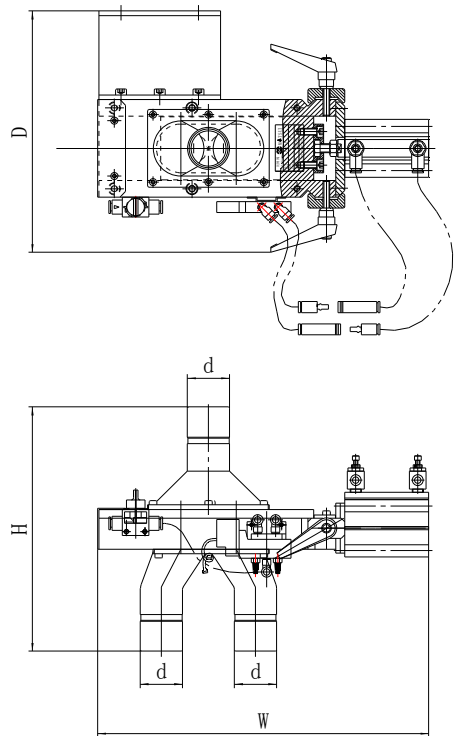


3) Accessories

Name	SMS2-38	Quantity	SMS2-50	Quantity
PVC Hose (for material)	Φ38×10m	1	Φ50×10m	1
Suction nozzle	Φ38	1	Φ50	1
Hose band	35-51	3	57-76	3

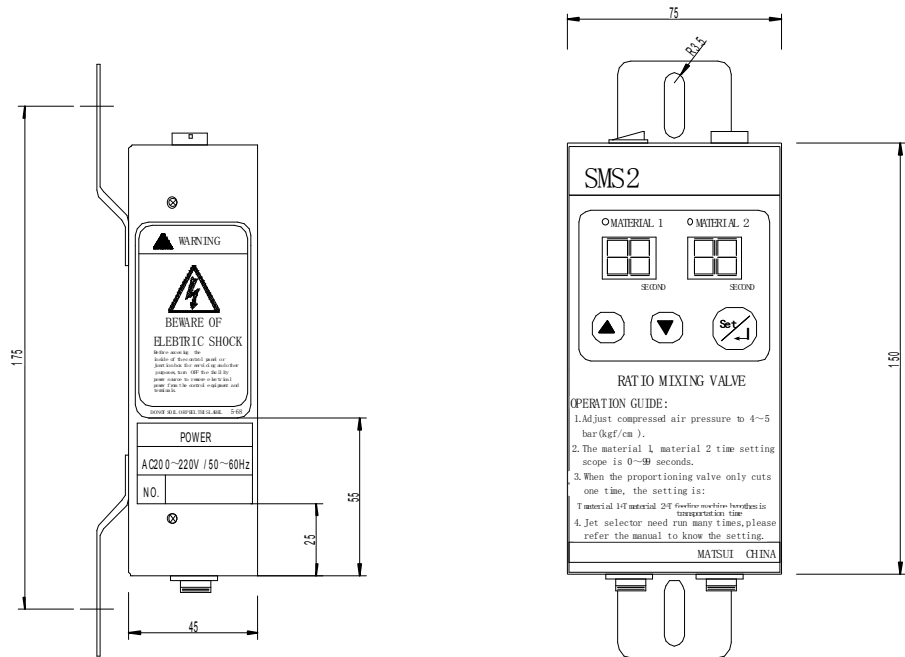
3 . Size chart(mm)

1). Main body



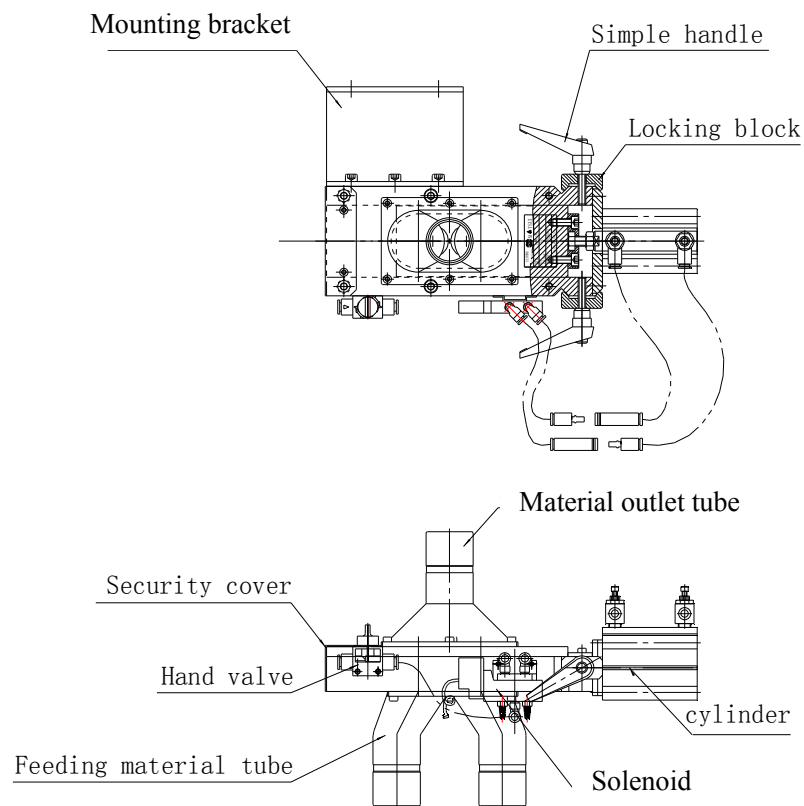
Models	W (mm)	D (mm)	H (mm)	d(mm)	Rough weight(kg)
SMS2-38	291	218	220	Φ38	6.5
SMS2-50	291	218	220	Φ50	6.5

2). Controller

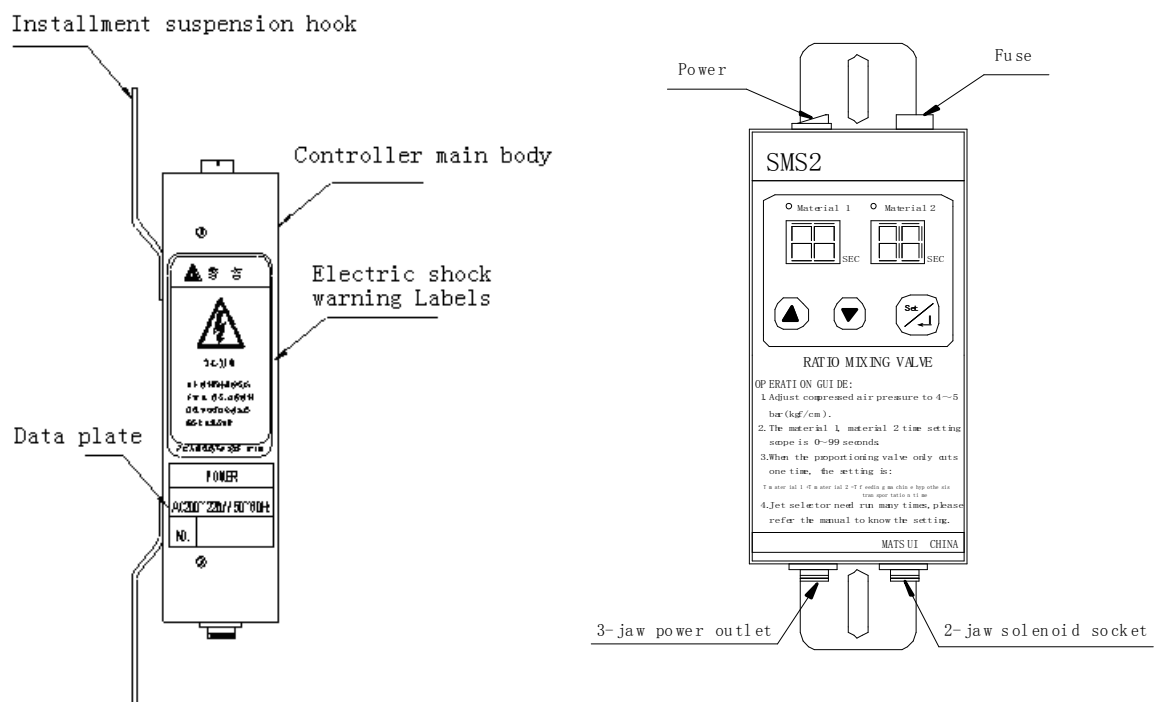


4. Unit Name

1). Main body

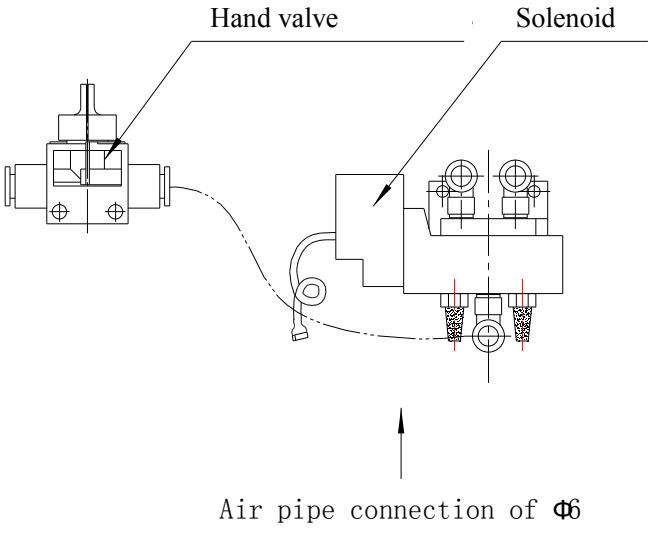


2). Controller



Chapter 3. Installation

1. Installation

Step	Project	Operating content
1	Compressed air tube connection	<p>Please connect the compressed air tube to the hand valve.</p>  <p>Hand valve</p> <p>Solenoid</p> <p>Air pipe connection of $\Phi 6$</p>

2. Power connection

Step	Project	Operating content
1	Electrical wire' connection	<p>Please turn off your company's total power supply switch.</p> <p>Electrical wire (200~220V) (50~60HZ) { R·Black (Pin1) N·White (Pin3) E·Green (Pin2) } ·Your company's power ·Ground connection</p> <p>Pin1 Pin3 Pin2</p> <p>Power outlet side on the controller</p> <p>【Attention】</p> <p>1) Before connecting, your company's equipment power supply must be shut down;</p> <p>2) Please connect it well to ensure that no loose connections.</p>

【Attention】

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Chapter 4. Running preparation

Project	Operating content
Simple handle	Check the simple handles on both sides of the machine to see whether they have been screwed tightly or not.
Compressed air	Check the compressed air tube to see whether it connects well. Check whether the hand valve is opened or not. Air pressure should be set up within 0.4~0.5MPa
Hose	Make sure the hoses are connected well as required. In particular, please check whether the hose bands are really tightened to prevent air leakage.
Controller	Please make sure that the power switch of the controller is turned on or not, whether the wires are connected well. Check whether the time for material 1 and 2 are correctly set up.

【Attention】 Time settings for transportation and jet selector

Supposes the time for loader is set as T , the material 1 is T_1 , the material 2 is T_2 .

And, the switch time $T_3 = T_1 + T_2$.

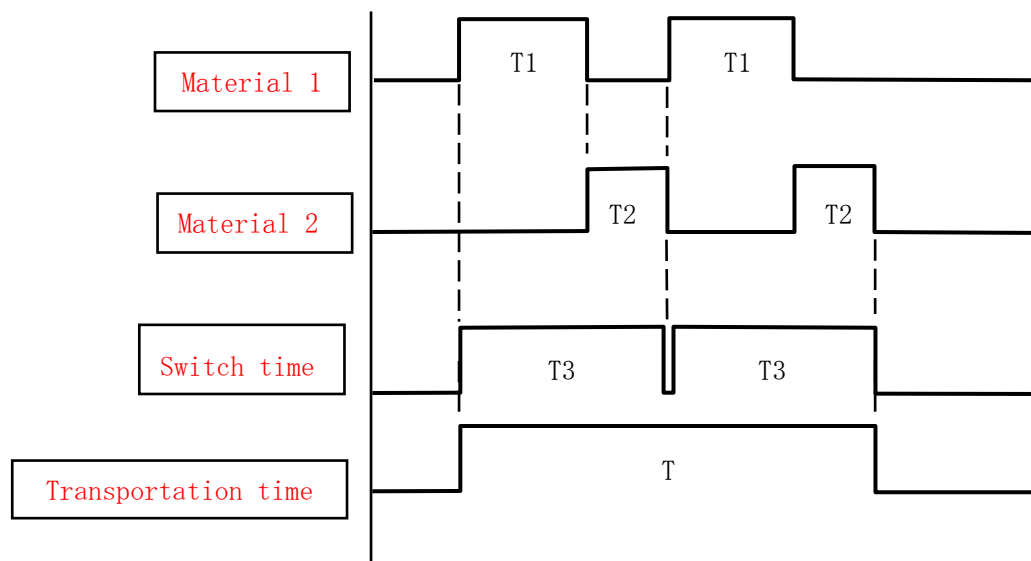
Switch time T_3 must \leq loader time T

Suggest:

One cycle: $T_3 = T$

Or two cycles: $T_3 = 1/2T$

Example, when $T_3 = 1/2T$.



Chapter 5. Running Operation

1. The controller sttings

Step	Operating content
The power connection	Power switch to "ON".
Transportation time setting	<p>Please press down Set/Enter the key. It shows the material 1 setting value on the monitor.</p> <p>↓</p> <p>It flashes the current setting value for material 1.</p> <p>↓</p> <p>Presse ▲ ▼ keys to changes setting value.</p> <p>Each time you press the keys , the value goes up or down in turn.</p> <p>When pressing the keys continually, it goes up or down automatically.</p> <p>↓</p> <p>Press Set/Enter key to confirm the input value for material 1.</p> <p>↓</p> <p>Next, tt flashes the current setting value for material 2.</p> <p>↓</p> <p>Presse ▲ ▼ keys to changes setting value.</p> <p>Each time you press the keys , the value goes up or down in turn.</p> <p>When pressing the keys continually, it goes up or down automatically.</p> <p>↓</p> <p>Press Set/Enter key to confirm the input value for material 2.</p> <p>Now it is ready for running.</p> <p>Attention: After pressing down Set/Enter key, if there's no any setting operation within 10 seconds, it returns to running page automatically.</p>

2. Start running

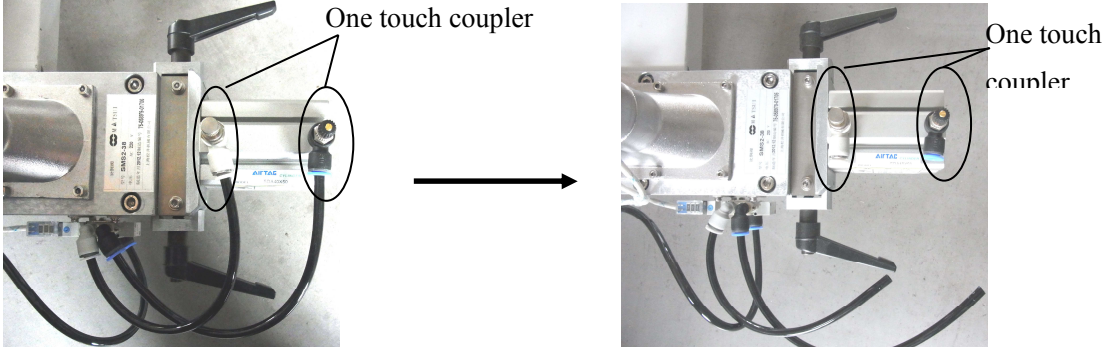
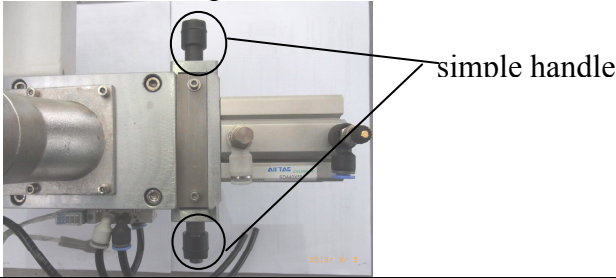
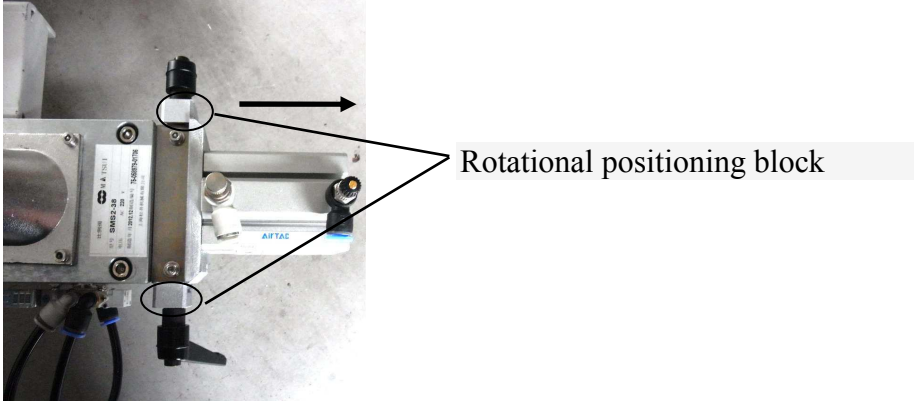
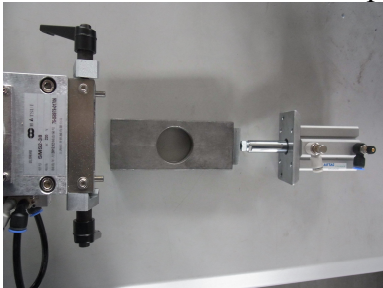
Step	Operating content
Installation check	Please make sure the main body, hoses, air tubes, wires for SMS2 are all well installed.
Power on, operation start	<p>Turn on the power supply. Turn on the controller power switch. Operation starts. It first start to count down for material1. Only when the setting time is up, the damper opens. It switches to the other material to mis them. The material on which side the side the indicator is lighting on is tranported.</p> <p>※During running, you can also change the set value by pressing Set/Enter key like which is described in [Chapter 4. Operation Preparation].</p>

Notice:

- ※When using the linkage function with the loader, turn the power switch to “ON”.
 After the loader sends its signal to SMS2, material is switched.

Chapter 6 Maintenance & Check

1. Main body cleaning

Step	Operation content
1	Turn off the hand valve on many body to cut off air.
2	<p>Pull off the air tube from one touch coupler.</p> 
3	<p>Loosens the simple handle</p> 
4	<p>Loosen the positioning blocks. Then pull out the air cylinder at the arrow direction.</p> 
5	<p>Clean the machine interior up.</p> 

2. About the internal battery

This device is equipped with internal battery. Even without electrical power connection, the setting change can also be carried out. If you find it cannot when no electrical power connection, please kindly operate as below.

Step	Contents
1	Turn the power switch of SMS2 controller to “OFF”. Then connect it to powersupply. Continuely supplied by 2 hours, you may do settings without power supply connection.

※If the battery had charged for over 2 hours and controller still cannot be setup without power supply connection, we suppose it has been aged. You’d better contact our afterservice staff to change the battery, or it may cause trouble.

Chapter 7 Specifications

1. Specification chart for AC200V,AC220V

Model		SMS2-38	SMS2-50
Connecting pipe size		φ38	φ50
Air source	Pressure	0.4~0.5MPa	
Power	Voltage	AC200V or AC220V, 50/60Hz	
	Power	20W	
Capacity	Breaker	0.04KVA	
	Air	3NL/Hr	
Dimension W×D×H		291mm×221mm×220mm	
Weight		About 6.5Kg	

2. Specification chart for AC100V

Model		SMS2-38	SMS2-50
Connecting pipe size		φ38	φ50
Air source	Pressure	0.4~0.5MPa	
Power	Voltage	AC100V, 50/60Hz	
	Power	20W	
Capacity	Breaker	0.04KVA	
	Air	3NL/Hr	
Dimension W×D×H		291mm×221mm×220mm	
Weight		About 6.5Kg	

