

# **SV**

## **Declined Belt Conveyors**

Date: June, 2010

Version: V4.0 (English)





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# 1. General Description



Please read this manual carefully before using this machine in order to operate correctly against any damage caused due to improper operation.



Forbidden to process flammable or toxic material!

Shini manufactures four types of belt conveyor under technical license from a leading European manufacturer.

SV series conveyors feature reliable performance and ease of operation and are suitable for conveying finished products fed from robots to a lower level.



Model: SV-2

## 1.1 Feature

- 1) Mounted on patented "FUTURE" floor stand.
- 2) PVC belt is adopted for smooth and efficient conveying.
- 3) Height adjustable floor stand.
- 4) Sidewalls for SV series are 34 mm respectively.
- 5) SV series can optionally speed adjustor with 0~6m/min.
- 6) Release signal socket for sprue picker is an option for SV series.
- 7) Power supply for SV series are 1Φ, 230V, 50/60Hz.

All service work should be carried out by a person with technical training or corresponding professional experience. The manual contains instructions for both handling and servicing. Chapter 6, which contains service instructions intended for service engineers. Other chapters contain instructions for the daily operator.

Any modifications of the machine must be approved by SHINI in order to avoid personal injury and damage to machine. We shall not be liable for any damage caused by unauthorized change of the machine.

Our company provides excellent after-sales service. Should you have any problem during using the machine, please contact the company or the local vendor.

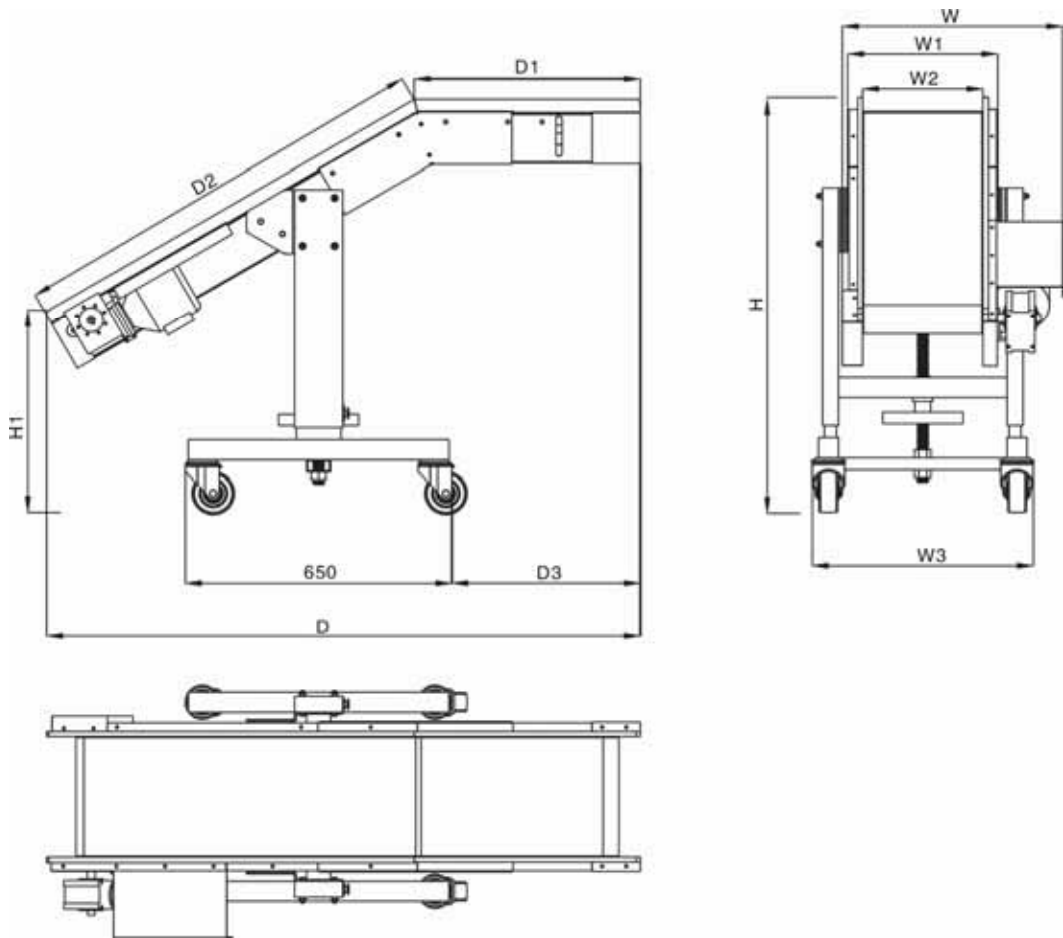
Headquarter and Taipei factory : Hot service line on Mainland :

Tel: (886) 2 2680 9119

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## 1.2 Technical Specifications

### 1.2.1 Out Dimensions



Picture 1-1 : Out Dimensions

Chart 1-1 : Out Dimensions List

Model	SV-1	SV-2	SV-3	SV-4	SV-5	SV-6
H (mm)	1000~1400	1000~1400	1000~1400	1250~1650	1250~1650	1250~1650
H1 (mm)	525~925	525~925	525~925	525~925	525~925	525~925
W (mm)	550	620	750	620	750	850
W1 (mm)	371	441	571	441	571	671
W2 (mm)	300	370	500	370	500	600
W3 (mm)	490	560	690	560	690	790
D (mm)	1480	1480	1480	2410	2410	2410
D1 (mm)	564	564	564	1063	1063	1063
D2 (mm)	1062	1062	1062	1562	1562	1562
D3 (mm)	477	477	477	920	920	920
Weight (kg)	83	88	93	110	120	130

We reserve the right to change specifications without prior notice.



## 1.3 Safety Regulations

To avoid any body injures and damages of the machine, please obey the regulations in this manual. When operating this machine, please obey the regulations as follows.

### 1.3.1 Safety Signs and Labels



Electrical installation should be done by qualified electricians. Turn off the main switch and control switch before servicing and maintenance.



Warning!

The sound level produced by the machine is < 70dB (max) at the position of the operator.



Notice:

Noise level test refers to the following conditons: 1m around the machine, 1.6m above the machine.



Warning!

- 1) Don't use the machine and don't try to repair it before carefully read this manual and understood all its parts completely.
- 2) In particular, it is important to adopt the precaution listed in section a:'safety instruction'.
- 3) It is forbidden to use the machine in any condition or for any use different from what is indicated in the manual. SHINI has no responsibility for breakdowns, trouble, or injuries caused by improper operation.



Attention!

No need for regular inspection because all the electrical parts in the control unit are fixed tightly!



**Attention!**

The maximum weight of the pieces to be carried on the conveyor belt must not be over 56kg in total (Conveying capacity is less than 56kg as the set value of the regulator is smaller than 4.5m/min).

The conveyor belts are not suitable to transport loose material.



**Attention!**

These conveyor belts can be easily used by all of the personnel of the plant they are installed in, and they do not present any risk for the operator, if used properly.

Therefore, it is recommended to read the manual carefully before using the machine.



**Attention!**

SHINI claims no responsibility when:

- 1) Use of the conveyor belt is in any way openly opposed to what is indicated in the present instruction manual.
- 2) There are feeding defects.
- 3) There is a serious deficiency of the foreseen maintenance.
- 4) Non-authorized changes are adopted.
- 5) Spare parts that are non-authorized or not suitable for the actual model are used.
- 6) There are exceptional events. Please don't disassemble the protector sponge and quick tube & nip in the outlet of collecting material box.



**Danger!**

**Risk of fire:** Risk of fire is present whenever the conditions of the conveyor belts are not suitable for the operation they are used for (in particular: temperature of the pieces carried). Adjust the condition of the conveyor belt according to the table shown here below.



**Risks of high temperature:** These conveyor belts are designed for transporting molded parts, i.e. hot pieces. If you need to operate on the

conveyor belt, use safety gloves ( in particular where the parts fall on the belt).

Type of belt	Max. temp. of parts
PVC	60



**Attention!**

The packing material must not be left around, and it must be disposed of according to the regulations in force. It is possible to lift the conveyors with a fork lift.



**Danger!**

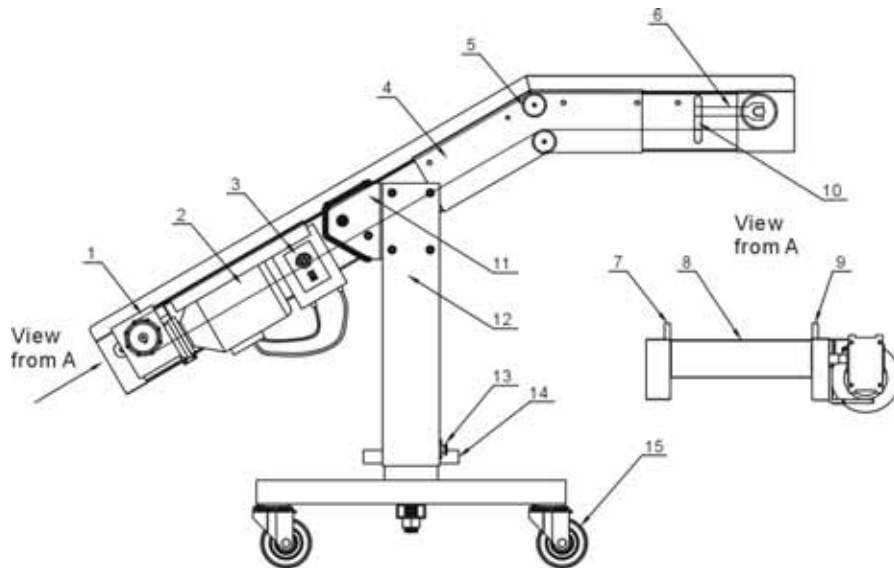
To protect the operator's safety, and the integrity of the machine, assure the stable lifting of the conveyor. Once the conveyor belt is running, it is necessary to fix the machine by locking the castors. Moreover, suitable slings or fixtures must be attached, to keep it steady during transportation.

## 2. Structural Features and Working Principle

### 2.1 Function Description

SV series conveyors feature reliable performance and ease of operation and are suitable for conveying finished products fed from robots to a lower level.

#### 2.1.1 Working Principle



Parts name:

- |                   |                    |                         |                  |
|-------------------|--------------------|-------------------------|------------------|
| 1. Gearmotor      | 2. Motor           | 3. Control box          | 4. PU belt       |
| 5. Guide wheel    | 6. Plug in screw   | 7. Left sidewall        | 8. Driving wheel |
| 9. Right sidewall | 10. Adjusting bolt | 10. Adjusting screw nut |                  |
| 11. Lockup clip   | 12. Pedestal       | 13. Star knob           |                  |
| 14. Manual castor | 15. Lock castor    |                         |                  |

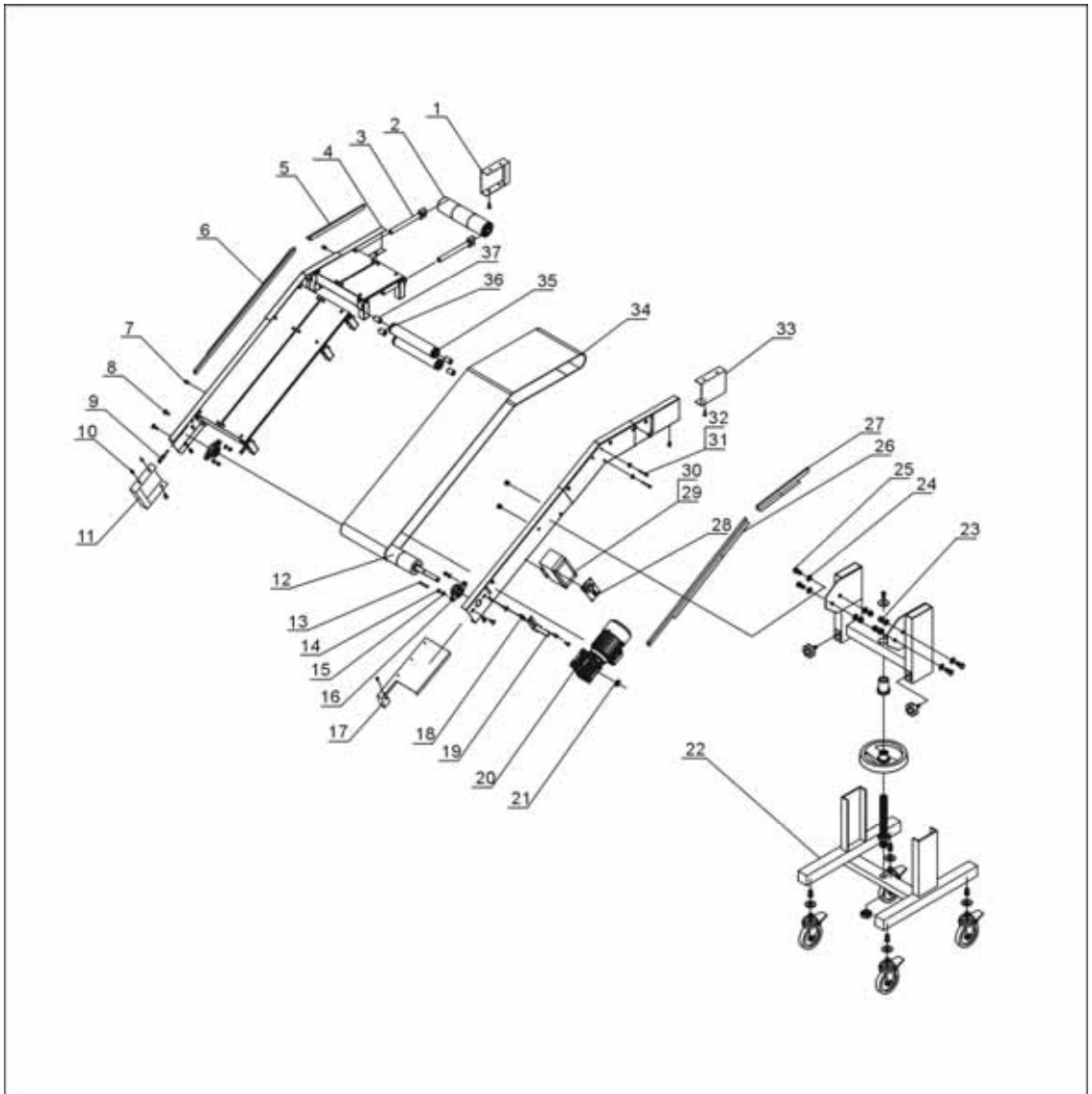
Picture 2-1 : Working Principle

The pedestal (12), equipped with 4 fixed castors (13), moves the conveying belt into the working area. There are two baffles (7/9) besides the conveying belt. The conveying wheel (8) directly connects with motor (2) and gear motor (1) terminally. The matched control box (3) of the motor starts and stops the conveying belt and also adjusts its speed. Screw that controlled by the manual castor adjusts the height of the conveying belt. The two star knobs fix the move direction of the conveyor. In addition, conveying belt and supporting foot are

connected by two lockup clips, and central position of the conveying belt can be achieved by adjusting screw nuts. Generally speaking, the position occupied by the operator is at the top end of the conveyor (discharging area of parts) where also locates the control unit.

## 2.2 Assembly Drawing

### 2.2.1 Assembly Drawing



Note: Please refer to 2.2.2 material list about the parts code.

Picture 2-3 : Assembly Drawing

## 2.2.2 Parts List

Chart 2-1 : Parts List (SV-1)

No.	Name	Part No.	No.	Name	Part No.
1	Top side plate cover		20	Gear motor	
2	Iron stick		21	Flexible block ring for holes	
3	Butterfly screw		22	Pedestal	
4	Conveyor assembly map		23	Screw nut	
5	Upper left baffle		24	Washer	
6	Lower left baffle		25	Adjusting bolt	
7	Smooth screw nut		26	Lower right baffle	
8	External hexagon bolt		27	Upper right baffle	
9	Hexagon screw		28	Speed governor	
10	External hexagon bolt		29	Speed governor cover	
11	Lower left cover		30	Speed governor shell	
12	Rubber roller		31	External hexagon bolt	
13	Common flat key		32	Flat washer	
14	Star screw nut		33	Upper side plate cover	
15	Flat gasket		34	Conveying belt	
16	Bearing pedestal		35	Iron stick	
17	Gear motor shield		36	Iron stick pad	
18	Rivet nut		37	Iron stick pad	
19	Motor holder				

\* means possible broken parts.

\*\* means easy broken part. and spare backup is suggested.

Please confirm the version of manual before placing the purchase order to guarantee that the item number of the spare part is in accordance with the real object.

Chart 2-2 : Parts List (SV-2)

No.	Name	Part No.	No.	Name	Part No.
1	Top side plate cover		20	Gear motor	-
2	Iron stick		21	Flexible block ring for holes	-
3	Butterfly screw		22	Pedestal	BH10063800010
4	Conveyor assembly map		23	Screw nut	YE10202500100
5	Upper left baffle		24	Washer	YW66061800000
6	Lower left baffle		25	Adjusting bolt	-
7	Smooth screw nut		26	Lower right baffle	-
8	External hexagon bolt		27	Upper right baffle	-
9	Hexagon screw		28	Speed governor	-
10	External hexagon bolt		29	Speed governor cover	-
11	Lower left cover		30	Speed governor shell	-
12	Rubber roller		31	External hexagon bolt	-
13	Common flat key		32	Flat washer	JP81005000000
14	Star screw nut		33	Upper side plate cover	YW64001600000
15	Flat gasket		34	Conveying belt	YW64101600000
16	Bearing pedestal		35	Iron stick	YW66201200100
17	Gear motor shield		36	Iron stick pad	-
18	Rivet nut		37	Iron stick pad	-
19	Motor holder				-

\* means possible broken parts.

\*\* means easy broken part. and spare backup is suggested.

Please confirm the version of manual before placing the purchase order to guarantee that the item number of the spare part is in accordance with the real object.



Chart 2-3 : Parts List (SV-3)

No.	Name	Part No.	No.	Name	Part No.
1	Top side plate cover		20	Gear motor	-
2	Iron stick		21	Flexible block ring for holes	-
3	Butterfly screw		22	Pedestal	BH10063800010
4	Conveyor assembly map		23	Screw nut	YE10202500100
5	Upper left baffle		24	Washer	YW66061800000
6	Lower left baffle		25	Adjusting bolt	-
7	Smooth screw nut		26	Lower right baffle	-
8	External hexagon bolt		27	Upper right baffle	-
9	Hexagon screw		28	Speed governor	-
10	External hexagon bolt		29	Speed governor cover	-
11	Lower left cover		30	Speed governor shell	-
12	Rubber roller		31	External hexagon bolt	-
13	Common flat key		32	Flat washer	JP81005000000
14	Star screw nut		33	Upper side plate cover	YW64001600000
15	Flat gasket		34	Conveying belt	YW64101600000
16	Bearing pedestal		35	Iron stick	YW66201200100
17	Gear motor shield		36	Iron stick pad	-
18	Rivet nut		37	Iron stick pad	-
19	Motor holder				-

\* means possible broken parts.

\*\* means easy broken part. and spare backup is suggested.

Please confirm the version of manual before placing the purchase order to guarantee that the item number of the spare part is in accordance with the real object.

Chart 2-4 : Parts List (SV-4)

No.	Name	Part No.	No.	Name	Part No.
1	Top side plate cover		20	Gear motor	-
2	Iron stick		21	Flexible block ring for holes	-
3	Butterfly screw		22	Pedestal	BH10063800010
4	Conveyor assembly map		23	Screw nut	YE10202500100
5	Upper left baffle		24	Washer	YW66061800000
6	Lower left baffle		25	Adjusting bolt	-
7	Smooth screw nut		26	Lower right baffle	-
8	External hexagon bolt		27	Upper right baffle	-
9	Hexagon screw		28	Speed governor	-
10	External hexagon bolt		29	Speed governor cover	-
11	Lower left cover		30	Speed governor shell	-
12	Rubber roller		31	External hexagon bolt	-
13	Common flat key		32	Flat washer	JP81005000000
14	Star screw nut		33	Upper side plate cover	YW64001600000
15	Flat gasket		34	Conveying belt	YW64101600000
16	Bearing pedestal		35	Iron stick	YW66201200100
17	Gear motor shield		36	Iron stick pad	-
18	Rivet nut		37	Iron stick pad	-
19	Motor holder				-

\* means possible broken parts.

\*\* means easy broken part. and spare backup is suggested.

Please confirm the version of manual before placing the purchase order to guarantee that the item number of the spare part is in accordance with the real object.

Chart 2-5 : Parts List (SV-5)

No.	Name	Part No.	No.	Name	Part No.
1	Top side plate cover		20	Gear motor	-
2	Iron stick		21	Flexible block ring for holes	-
3	Butterfly screw		22	Pedestal	BH10063800010
4	Conveyor assembly map		23	Screw nut	YE10202500100
5	Upper left baffle		24	Washer	YW66061800000
6	Lower left baffle		25	Adjusting bolt	-
7	Smooth screw nut		26	Lower right baffle	-
8	External hexagon bolt		27	Upper right baffle	-
9	Hexagon screw		28	Speed governor	-
10	External hexagon bolt		29	Speed governor cover	-
11	Lower left cover		30	Speed governor shell	-
12	Rubber roller		31	External hexagon bolt	-
13	Common flat key		32	Flat washer	JP81005000000
14	Star screw nut		33	Upper side plate cover	YW64001600000
15	Flat gasket		34	Conveying belt	YW64101600000
16	Bearing pedestal		35	Iron stick	YW66201200100
17	Gear motor shield		36	Iron stick pad	-
18	Rivet nut		37	Iron stick pad	-
19	Motor holder				-

\* means possible broken parts.

\*\* means easy broken part. and spare backup is suggested.

Please confirm the version of manual before placing the purchase order to guarantee that the item number of the spare part is in accordance with the real object.

Chart 2-6 : Parts List (SV-6)

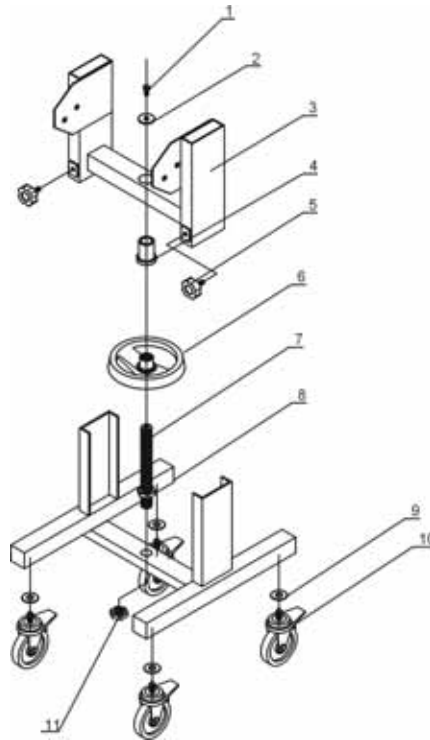
No.	Name	Part No.	No.	Name	Part No.
1	Top side plate cover		20	Gear motor	-
2	Iron stick		21	Flexible block ring for holes	-
3	Butterfly screw		22	Pedestal	BH10063800010
4	Conveyor assembly map		23	Screw nut	YE10202500100
5	Upper left baffle		24	Washer	YW66061800000
6	Lower left baffle		25	Adjusting bolt	-
7	Smooth screw nut		26	Lower right baffle	-
8	External hexagon bolt		27	Upper right baffle	-
9	Hexagon screw		28	Speed governor	-
10	External hexagon bolt		29	Speed governor cover	-
11	Lower left cover		30	Speed governor shell	-
12	Rubber roller		31	External hexagon bolt	-
13	Common flat key		32	Flat washer	JP81005000000
14	Star screw nut		33	Upper side plate cover	YW64001600000
15	Flat gasket		34	Conveying belt	YW64101600000
16	Bearing pedestal		35	Iron stick	YW66201200100
17	Gear motor shield		36	Iron stick pad	-
18	Rivet nut		37	Iron stick pad	-
19	Motor holder				-

\* means possible broken parts.

\*\* means easy broken part. and spare backup is suggested.

Please confirm the version of manual before placing the purchase order to guarantee that the item number of the spare part is in accordance with the real object.

### 2.2.3 Pedestal Parts

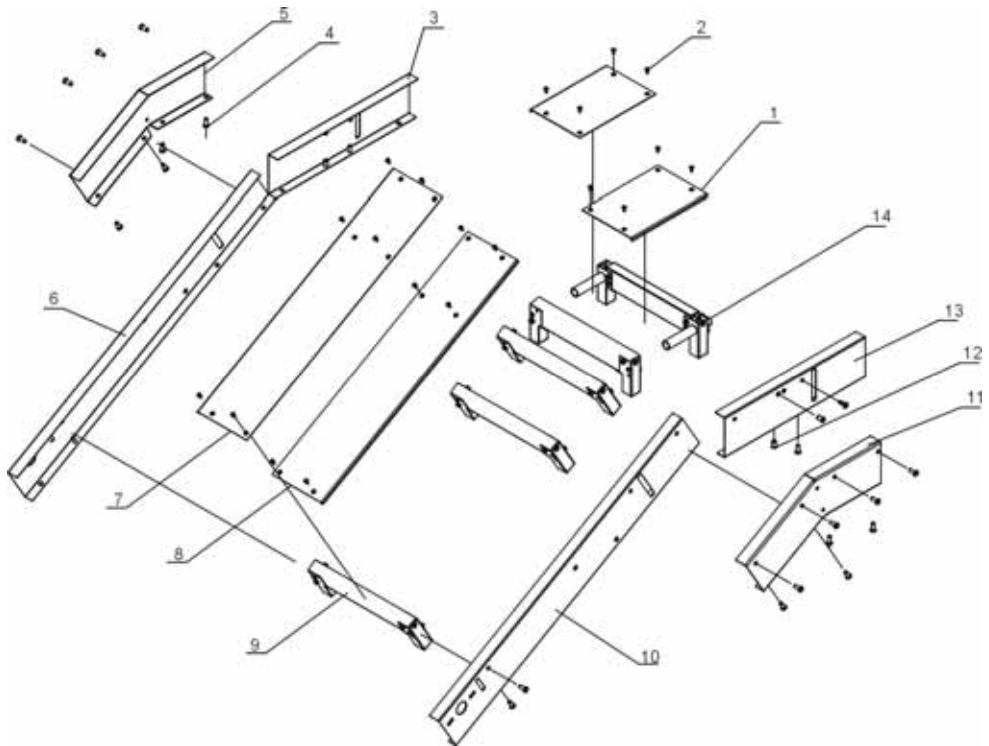


Parts name:

- |                   |                  |               |                            |
|-------------------|------------------|---------------|----------------------------|
| 1. Adjusting bolt | 2. Flat washer   | 3. Lifter     | 4. Adjusting rubber sleeve |
| 5. Star screw     | 6. Driving wheel | 7. Screw      | 8. Pedestal                |
| 9. Flat washer    | 10. Castor       | 11. Screw nut |                            |

Picture 2-3 : Pedestal Parts

## 2.2.4 Main Frame Components



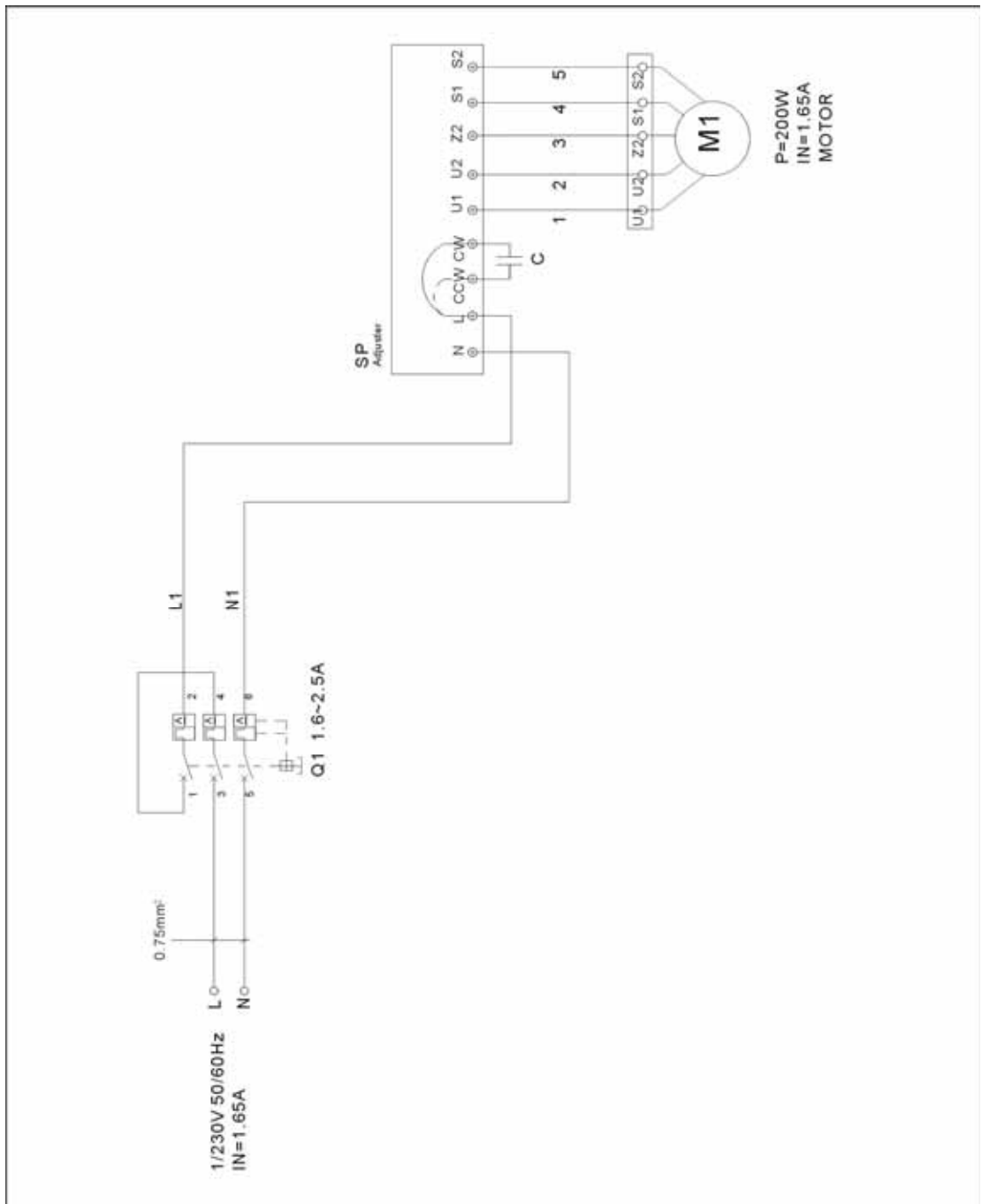
Parts name:

- |                             |                             |                          |
|-----------------------------|-----------------------------|--------------------------|
| 1. Top plate                | 2. Cross self-tapping screw | 3. Upper left side plate |
| 4. Screw with flat gasket   | 5. Left connecting plate    | 6. Lower left side plate |
| 7. Bottom left side plate   | 8. Bottom right plate       | 9. Beam 1 assembly map   |
| 10. Bottom right side plate | 11. Right connecting plate  | 12. Rivet nut            |
| 13. Upper right side plate  | 14. Beam 2 assembly map     |                          |

Picture 2-3 : Main Frame Components

## 2.3 Electrical Circuit Diagram

### 2.3.1 Main Electrical Circuit



Picture 2-2 : Main Electrical Circuit

## 2.3.2 Electrical Components list

Chart 2-7 : Electrical Components List

NO.	Symbol	Name	Specification	Part NO.
1	Q1	Circuit breaker	1.6~2.5A	YE40162500000
2		Waterproof box	-	YR40012000000
3	SP	Adjuster	230V 50/60Hz 200W	YE80200000100
4	M1	Motor*	230V 200W 50/60Hz	YM50102000000

\* means possible broken parts.

\*\* means easy broken part. and spare backup is suggested.

Please confirm the version of manual before placing the purchase order to guarantee that the item number of the spare part is in accordance with the real object.



### 3. Installation Testing

Read this chapter carefully before installation, Must observe the installation steps as follows!

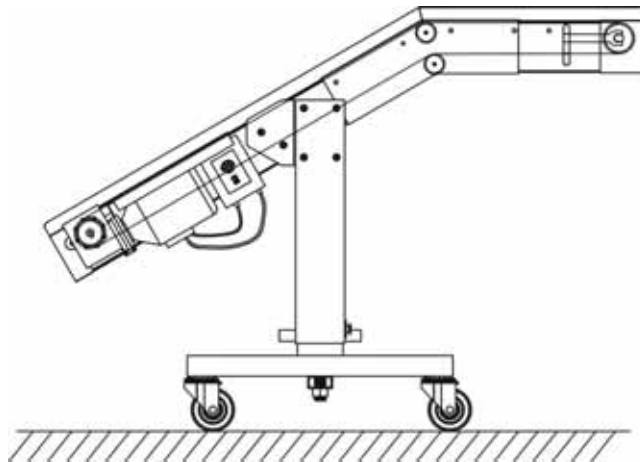


The connection of the power supply should be done by qualified electricians only!

#### 3.1 Attention

- 1) Verify that the power supply corresponds to the specifications of the plate near the controls of the conveyor.
- 2) Connect the power cable and the PE wire according to the local regulations.
- 3) Use independent power cable and switch, Make sure that the diameter of the cable is not smaller than the cable used in the control box.
- 4) The connection end of the power cable should be safely and tightly.
- 5) This series use the power with single phase and 3 wires, (L) connect to the live wire of the power, and the PE should be connected.
- 6) Power supply requirement:  
Main power voltage:  $\pm 10\%$   
Main power frequency:  $\pm 2\%$

#### 3.2 Horizontal Installation



Picture 3-1 : Horizontal Installation

Conveyors don't require any particular preliminary operation before starting-up. With reference to the layout of the cables, make sure that they are protected against damage and that they don't hamper the operators.

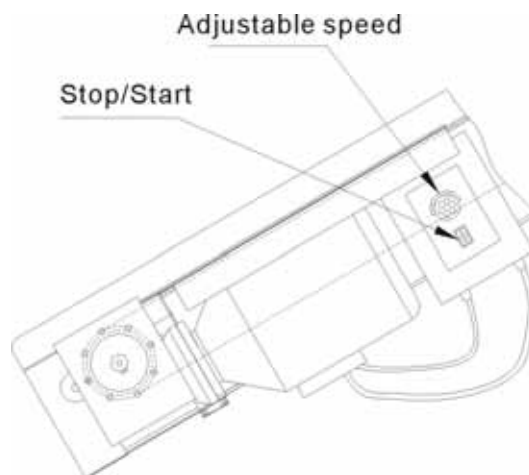


Attention!

The conveyors often used around or under the moulding machine to bring the waste materials or finished products to the bottom, so that the higher flat surface (collection area) of the conveyor must be inserted into the special space, which is located around the moulding machine.

### 3.3 Power Connections

The wire of the horizontal belt conveyor, speed regulator and motor protector should be connected strictly comply with the wiring diagram.



Picture 3-2 : Power Connections



Attention!

After the power connected, check the direction of the motor rotation, if the motor reverses, please turn off the power, change over the connecting wires of the L terminal and the CW or the CCW terminals of the speed regulator.



Picture 3-3 : Machine Installation Drawing



Warning!

Maintain 1m distance from the inflammable matter.

## 4. Operation

### 4.1 Start/Stop the Machine

- 1) Rotate the motor protector knob, and connect to power.
- 2) Turn on the RUN / STOP switch of the speed regulator, the belt conveyor starts running.
- 3) Adjust the knob of the speed regulator to change the rotating speed of the belt conveyor.



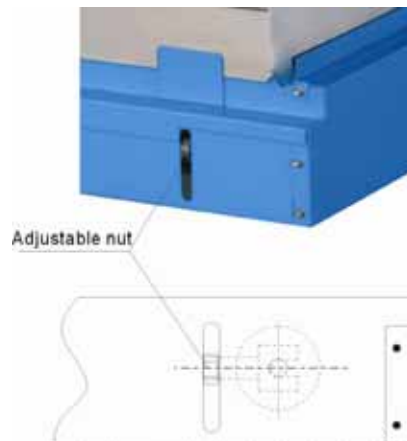
Picture 4-1 : Control Panel



Loosen the lockup screw (1), take out the hexagonal screw (3) (M10 × 75), to adjust the conveyor belt to the required height, and then tighten the screw nut again (1).

### 4.2 Adjusting the Central Position of the PU Belt

Rotate this nut to adjust the central space of the PU Belt



Picture 4-2 : PVC Adjusting Drawing



**Danger!**

To check the proper centering it is necessary to make the machine run. However, the adjustment must be done when the machine is stopped, and then the belt must be made to run only for the time necessary to verify its proper centering.



**Attention!**

On a monthly basis verify that the external temperature of the motor and gearbox is not too high (it should be between 60 and 20 °C). In case it is different, contact the technicians at SHINI directly.



**Attention!**

- 1) The maximum weight of the pieces to be carried on the conveyor belt must not be over 56kg in total (Conveying capacity is less than 56kg as the set value of the regulator is smaller than 4.5m/min).
- 2) Not suitable to transport loose material.
- 3) The maximum resistant temperature of PU belt is 60 °C.



The operator, or the maintenance technician, must wear suitable work clothes, without free parts. They must not wear chains, bracelets, or other objects which may be caught by mechanical parts in movement. In case of long hair, special hairnets must be used, to avoid the risk of being caught.

## 5. Trouble Shooting

Failures	Solutions
<p>Connect the power, rotate the motor protector knob and turn on the RUN / STOP switch of the speed regulator, the motor doesn't run.</p>	<ol style="list-style-type: none"> <li>1. Check the speed regulator to see if the knob is pointing to 0, if so, adjust the speed knob.</li> <li>2. Check the circuit according to wiring diagram, the possible reasons can be as follows:               <ul style="list-style-type: none"> <li>a : The power is failure.</li> <li>b : The circuit is disconnected.</li> <li>c : The motor protector is damaged.</li> <li>d : The motor is failure.</li> </ul> </li> </ol>
<p>The circuit breaker often trips off.</p>	<p>Check the circuit according to wiring diagram, the possible reasons can be as follows:</p> <ul style="list-style-type: none"> <li>a : the setting value of the breaker was too low, adjust the value to 1.1 times of the current one.</li> <li>b : short circuit may exist.</li> <li>c : The motor protector is damaged.</li> <li>d : The motor is failure.</li> </ul>

## 6. Service and Maintenance

### 6.1 Repair

To avoid any body injury and damage of the machine, all of the repair work should be done by professional person only.

It is the duty of the operator to keep the machine clean from foreign matter, such as deposits, oil, or other materials. So it is necessary to clean the machine at the end of every working shift. This must be performed when the machine is stopped, in stable starting of the machine.

### 6.2 Maintenance

#### 6.2.1 Maintenance of the Gearbox

Check if the reduced gears box is oil leaking and it should be examined periodicity. When you find that the oil is reduced or the colour of it changed dark and black, you must complement it or replace it immediately. Please be noticed that keep the surface of the gear motorcleaning. Move away the dust and the contamination in time so as to keep a good distribute of the heat.



Picture 6-1 : Gear motor



**Danger!**

The suitable temperature range of the motor and the gearbox is between 20 -60 .

#### 6.2.2 Clearance of the Machine

Please keep the machine clean from foreign matter, such as deposits, oil, or other materials. Do the cleanly work everyday.



It is forbidden to use flammable liquids during the cleaning operation.

Periodically check the status of the PU belt, and replace it, if necessary. Once the machine has been cleaned, the operator must check for worn out or damaged parts (in which case, he must replace it immediately), or for parts which are not firmly fixed (in which case, he should fix them, if this is possible).



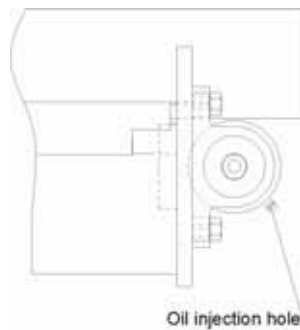
The machine protection and safety devices must not be removed, unless a specific repair and/or maintenance action is required. These protections must be put back as soon as the reason for their removal has disappeared, in any case, they must be installed before starting the machine.



If using compressed air, the operator must wear safety glasses, and make sure that nobody is near the machine, because they may be hit by materials and dust.

### 6.2.3 Lubricate the Bearing

On a monthly basis lubricate the two supporters near the unloading area of the conveyor, below the protection cover, as indicated by the drawing.



Picture 6-2 : Bearing Lubricate Drawing



Stop the machine and unplug the power supply before doing the repair or maintenance work.



## 6.3 Maintenance Schedule

### 6.3.1 About the Machine

Model \_\_\_\_\_ SN \_\_\_\_\_ Manufacture date \_\_\_\_\_

Voltage \_\_\_\_\_  $\Phi$  \_\_\_\_\_ V Frequency \_\_\_\_\_ Hz Power \_\_\_\_\_ kW

### 6.3.2 Check After Installation

- Check if the body of the machine installed horizontal
- Check for eventual leaks of lubricant from the reduction gear
- Check the status about the PU belt

#### Electrical installation

- Voltage \_\_\_\_\_ V \_\_\_\_\_ Hz
- Check if the power connection of the control box is correctly

### 6.3.3 Daily Checking

\_\_\_\_ / \_\_\_\_ / \_\_\_\_

- Check the switches of the machine
- Check if the reduction gears is oil leaking leaking
- Check the function of the safety switch

\_\_\_\_ / \_\_\_\_ / \_\_\_\_

- Check the switches of the machine
- Check if the reduction gears is oil leaking leaking
- Check the function of the safety switch

\_\_\_\_ / \_\_\_\_ / \_\_\_\_

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\_\_\_\_ / \_\_\_\_ / \_\_\_\_

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- Check the function of the safety switch

\_\_\_\_ / \_\_\_\_ / \_\_\_\_

- Check the switches of the machine
- Check if the reduction gears is oil leaking leaking
- Check the function of the safety switch

\_\_\_\_ / \_\_\_\_ / \_\_\_\_

- Check the switches of the machine
- Check if the reduction gears is oil leaking leaking
- Check the function of the safety switch

\_\_\_\_ / \_\_\_\_ / \_\_\_\_

- Check the switches of the machine
- Check if the reduction gears is oil leaking leaking
- Check the function of the safety switch

\_\_\_\_ / \_\_\_\_ / \_\_\_\_

- Check the switches of the machine
- Check if the reduction gears is oil leaking leaking
- Check the function of the safety switch

### 6.3.4 Weekly Checking

\_\_\_\_ / \_\_\_\_ / \_\_\_\_

- Check all the electrical wires
- Check the protection function of the breaker

\_\_\_\_ / \_\_\_\_ / \_\_\_\_

- Check all the electrical wires
- Check the protection function of the breaker

\_\_\_\_ / \_\_\_\_ / \_\_\_\_

- Check all the electrical wires
- Check the protection function of the breaker

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- Check all the electrical wires
- Check the protection function of the breaker

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- Check all the electrical wires
- Check the protection function of the breaker

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- Check all the electrical wires
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- Check all the electrical wires
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- Check all the electrical wires
- Check the protection function of the breaker

\_\_\_\_ / \_\_\_\_ / \_\_\_\_

- Check all the electrical wires
- Check the protection function of the breaker

### 6.3.5 Mouthly Checking

The lubricate oil in the reduced gears of the motor should be replaced after it has been run 400hr at the beginning, sith, the oil replacing periodis about 4000hr, the oil in the reduced gears box should sufficiently, and need to check periodicity.

When you find that the oil is reduced or the colour of it changed dark and black, you must complement it or replace it immed