

SCM-EB

“Budget” Series Volumetric Doser

Date: Aug., 2023

Version: Ver. A (English)



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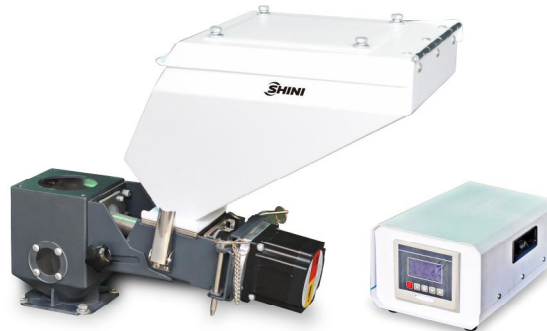
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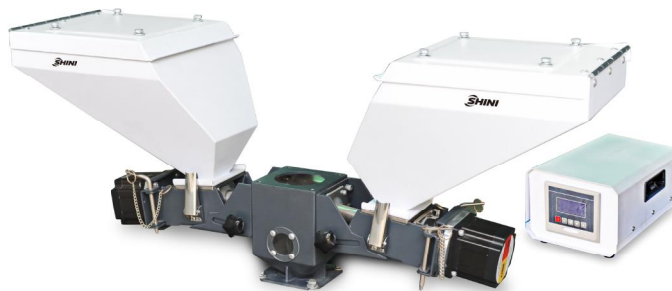
1. General Description



Please read this manual carefully before installation and using of the machine to prevent damage or personal injury. SCM-EB “budget” series volumetric dosers are suitable for auto-proportional mixing of new materials, regrinds, master batch and additives. A stepping motor is coupled to a dosing screw of 12, 16, 20, and 30mm diameter to offer four models with different output ranging from 0.1 to 110kg/hr to clients. Double-color doser can be assembled from any two single color doser according to clients’ requirements.

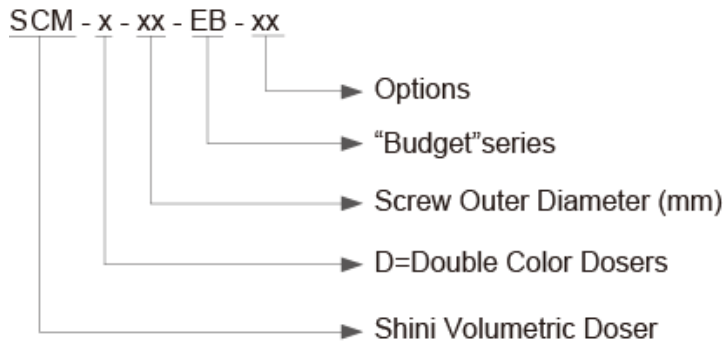


Model: Single Color Doser SCM-EB



Model: Color Doser SCM-D-EB

1.1 Coding Principle



1.2 Features

- Dosing screws are chrome plated for durability.
- Unit is comprised of standard modules for ease of cleaning, disassembly and interchangeability.
- External signals can be directly input to control box.
- The current mode can be recorded without interrupted by power failure.
- Compulsory material cleaning makes it easier to replace masterbatch.
- Applicable on extrusion machines, just need to make a few wire replacements.
- Rotating speed can be automatically adjusted according to extruder processing speed, which maintains the fixed proportion of masterbatch.
- 50 recipes are available for permanent recording of material discharging time and finished products weight (for extruder, it is max. throughput per minute).
- Based on customers demand, mold cycles can be set to add additives periodically so that micro-metering can be achieved.
- Equipped with RS485 communication function

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:

Tel: (886) 2 2680 9119

Shini Plastics Technologies (Dongguan), Inc:

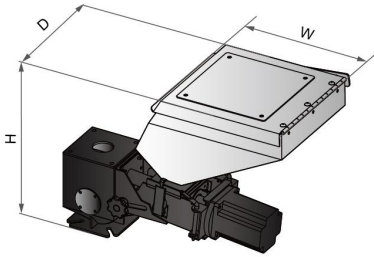
Tel: (86) 769 8111 6600

Shini Plastics Technologies India Pvt.Ltd.:

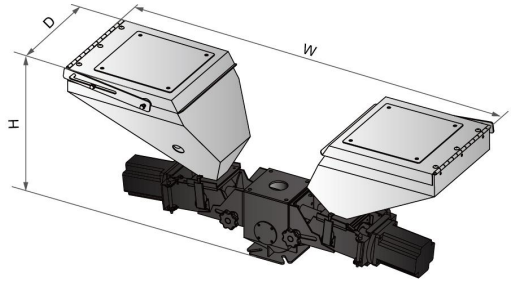
Tel: (91) 250 3021 166

1.3 Machine Specifications

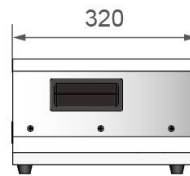
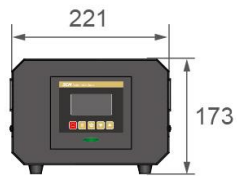
1.3.1 Dimensions of Doser



Single Color Doser



Double- color Doser



Controller

Picture 1-1: Dimensions of Doser

1.3.2 Specification List

Table 1-1: Specification List 1

Model	Single Color Unit				Double Color Unit
	SCM-12-EB	SCM-16-EB	SCM-20-EB	SCM-30-EB	SCM-D-EB
Ver.	A	A	A	A	A
Motor Power (kW) (50/60Hz)	0.06	0.06	0.06	0.06	0.06×2
Mixer power (kW, 50 / 60Hz)	0.25	0.25	0.25	0.25	0.25
Screw External Dia. (mm)	12	16	20	30	**
Output Capacity (kg/hr)	0.1 ~ 10	0.5 ~ 30	3 ~ 60	8 ~ 110	*
Storage Hopper (L)	10	10	10	10	10
Main Material Hopper(L)	Optional (15)	Optional (15)	Optional (15)	Optional (15)	Optional (15)
Mixer	Optional	Optional	Optional	Optional	Optional
Floor Stand	Optional	Optional	Optional	Optional	Optional
Dimensions					
H (mm)	420	420	420	420	420
W (mm)	585	585	585	585	1030
D (mm)	300	300	300	300	300
Weight (kg)	18	18	18	18	30

We reserve the right to change specifications without prior notice.

Note:

- 1) "*" stands for the output capacity depends on model selected, data of the single color doser can be a reference.
- 2) "**" stands for external dia. of screw is up to model selected.
- 3) For additional mixer, add "MS" at the end of model code.
- 4) When selecting screws with diameter of 30mm, the machine model should be followed by "L" to distinguish it from other three kinds of interchangeable screws.
- 5) All output capacities of above models are base on data from bulk density 1.2kg/L, dia. 2~3mm master batch in a test criteria of continuous running.
- 6) Main power for single color unit is 1Φ, 115 / 230V, 50 / 60Hz, but it will be 3Φ, 230 / 400 / 460 / 575VAC, 50 / 60Hz when being equipped with mixer.
- 7) When the master batch hopper is mounted with the auto conveying device, the total weight of the hopper shall not exceed 25KG (including the master batch).
- 8) When the long hopper is mounted with the auto conveying device, the total weight of the hopper shall not exceed 20KG(including the master batch).

1.4 Safety Regulations

Strictly abide by the following safety guide to prevent damage of the machine or personal injuries.

1.4.1 Safety Signs and Labels



All the electrical components should be installed by qualified electricians.
Turn off the main switch and control switch during maintenance or repair.



Warning! High voltage!

This sign is attached on the cover of control box!



Warning! Be careful!

Be more careful at the place where this sign appears!



Attention !

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



Attention !

All the screws for installing electrical components in the control box are locked, which is no need of regular inspection!



Attention !

The cooling water of the SCM-H must be normal temperature water.



Warning!

Watch your hand!

The label sticks to the housing of the hopper!



Warning!

Be careful of scratch!

The label sticks to the coupling place of the screw and the metering motor!

1.5 Exemption Clause

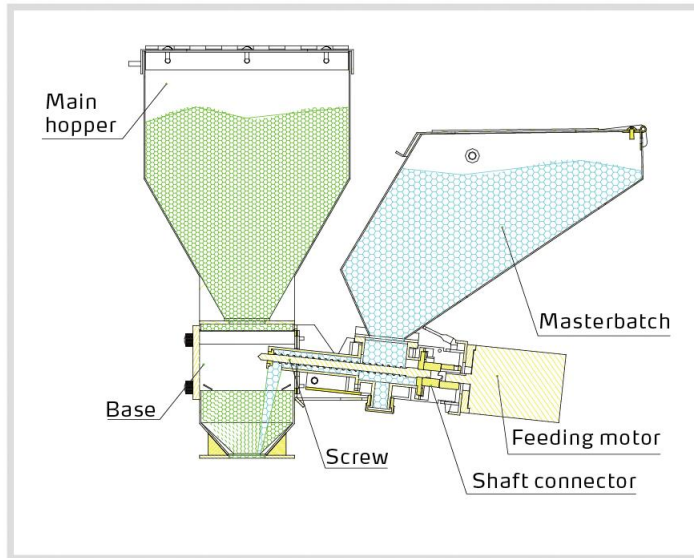
The following statements clarify the responsibilities and regulations born by any buyer or user who purchases products and accessories from Shini (including employees and agents).

Shini is exempted from liability for any costs, fees, claims and losses caused by reasons below:

1. Any careless or man-made installations, operation and maintenances upon machines without referring to the Manual prior to machine using.
2. Any incidents beyond human reasonable controls, which include man-made vicious or deliberate damages or abnormal power, and machine faults caused by irresistible natural disasters including fire, flood, storm and earthquake.
3. Any operational actions that are not authorized by Shini upon machine, including adding or replacing accessories, dismantling, delivering or repairing.
4. Employing consumables or oil media that are not appointed by Shini.

2. Structure Characteristics and Working Principle

2.1 Working Principle



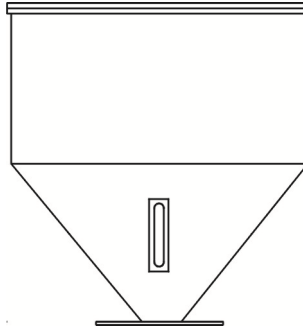
Picture 2-1: Working principle of the single color doser

Signals from control cabinet will be sent to motor, and the motor begins to work, which drives the screw rotate through the coupler. The color master batch in the hopper falls into the screw, squeezed and transported by the screw to the base, so as to achieve the purpose of accurately metering and transferring the color master batch.

2.2 Optional Accessories

2.2.1 Main hopper

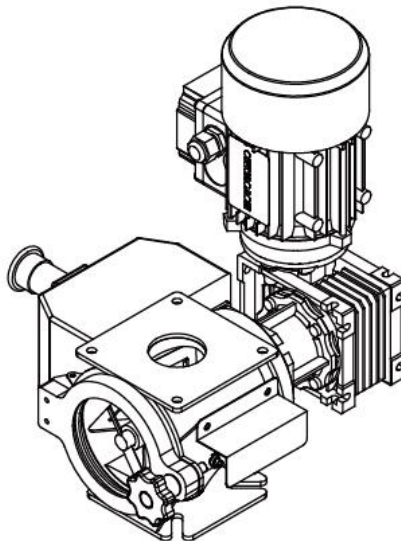
The main material hopper is optional for both single and double color doser basing on customer demand.



Picture 2-2: Main Hopper

2.2.2 Mixing System

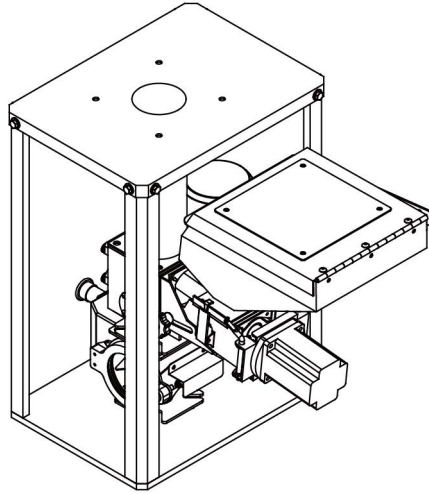
The mixing system is optional for both single and double color doser basing on customer demand.



Picture 2-3: Mixing System

2.2.3 Heavy base

When customer requires SHD-100~300kg or SHD-16OU~450U dryer, this heavy base is necessary.



Picture 2-4: Heavy Base

3. Installation and Debugging

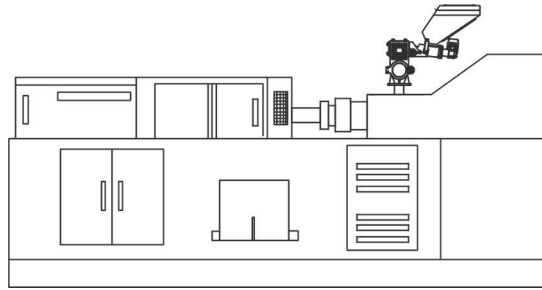
Read this chapter carefully before installation. Install the machine by following steps.

This series of models only could be applied in working environment with good ventilation.

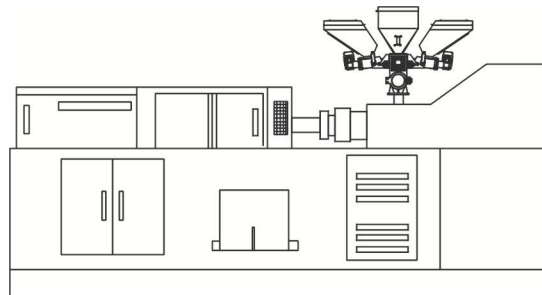


Power supply of the machine should be done by qualified electricians!

3.1 Install on Extrusion or Injection Molding Machine



Picture 3-1: Installation of Single Color Doser

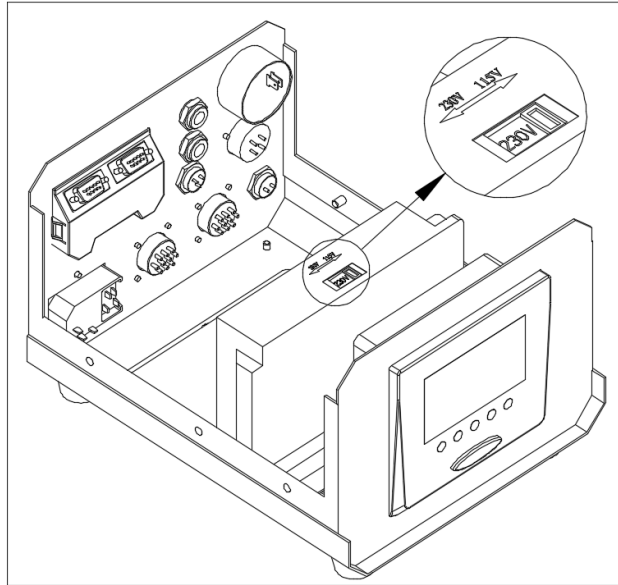


Picture 3-2: Installation of Double-color Doser

According to the specifications of mounting holes on the extruder or injection molding machine, drill 4 screw holes on the base of SCM machine. Install the whole machine on the extruder or injection molding machine by locking the 4 screws of the mounting base.

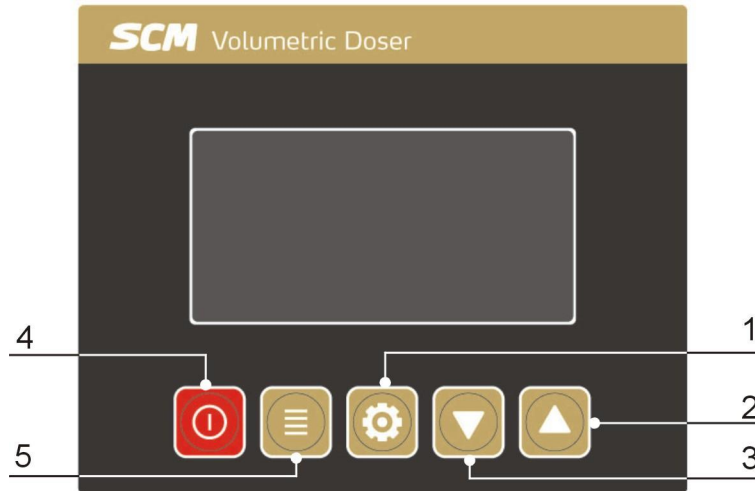
3.2 Power Supply Wiring

Please adjust the doser control box's power to corresponding voltage according to the customer's power specifications before operation (open the control box cover and manually dial the voltage button to select), and connect to the ground.



4. Operation


4.1 Control Panel (SCM)




Picture 4-1: Control Panel

1. Setting key 2. Up key 3. Down key 4. Run Switch 5. Menu key

Chinese/English selection: After machine powered on, press the setting

key  for 3 secs. to switch English/Chinese.

Model Switching: When machine is in standby mode, press and hold the

 Key for 3 secs. to switch the model. Model switching is to switch between injector mode and extruder mode.

4.2 Start/Stop of the Machine

- 1) Check whether the power is turned on.
- 2) Turn on the main switch at the back of control box.
- 3) Press the control switch on the panel, the RUN indicator will be turned on.
- 4) After setting the parameters, machine will operate automatically if Extruder starts to run and signal gets into the doser.
- 5) Follow the reverse order to turn off.

4.3 Operation Instruction

Three states of machine.



The indicator has three states:

Yellow: Standby

Green: Run

Red: Alarm


4.3.1 IMM Mode Setting

According to the circuit diagram, when the injection machine is in the working mode (receiving the 24VDC melt signal from the injection molding machine), the machine is in the injection machine working mode after it is powered on.




4.3.1.1 Parameters Set for IMM Mode

1. 50 secs. weight setting steps:


- 1) Press Menu key  till it enters the screen displaying 50 secs. weight output of screw 1.




- 2) Hold on the Setting key  for 5 secs, and it enters the screen displaying manual feeding of screw 1.




No.1 Filling
No.1 time:9953s

- 3) Press Menu key  to start feeding of screw No.1 (This function is just the manual discharge function) .

- 4) Press Setting key , it enters screw 1 50 secs. output testing screen



50secs .testing
No.1 time:0456s

- 5) Press Menu key  to test screw 1 50 secs. output weight. After 50 secs., it enters screw 1 50 secs. weight input screen. Input the masterbatch weight output by screw in 50 secs. into corresponding place. The default is 50.




H1 50s weight
Range :01-9999g
Before:0500
After :050.

- 6) Press Menu key , save the setting and exit.




Note: For double shooter, the 50 secs. output setting of screw 2 is same as screw 1.

2. IMM Melting Time Setting

- 1) Press Menu key  till it displays melting time setting screen as below:


Melting time
Range :01-9999s
Before:0100
After :0100

dddd




- 2) Press setting key  to shift the digital. Adjust the number by  and  key. Set melting time, its default is 10 secs.

- 3) Press Menu key , save the setting and exit.

3. Masterbatch Proportion Setting


- 1) Press Menu key  till it displays screw 1 and 2 proportion setting screen

Hopper1 ratio Range :001-9999% Before:2500 After :2500	Hopper2 ratio Range :001-9999% Before:2500 After :2500
---	---

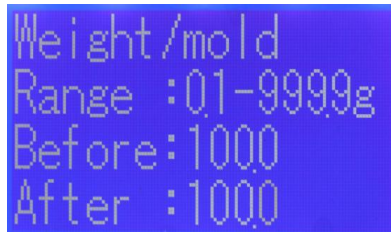
- 3) Press setting key  to shift the digital, and adjust the number by  and  keys. Set proportion of screw 1 and 2. Setting proportion of screw 1 is 2%. When it uses two ingredients, the proportion of screw 2 is set as 3%.

- 4) Press Menu key , save the setting and exit.


4. Weight per Mould Setting

- Press the menu key  to select the weight interface of each mold as below.

According to the actual weight input of the IMM, the default value is 100g.



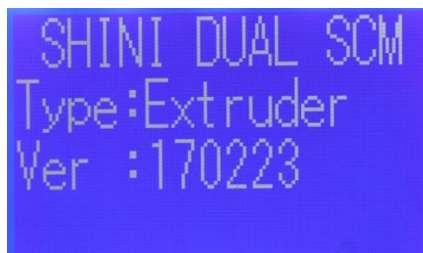
Weight/mold
Range :01-9999g
Before:1000
After :1000

After above settings, turn on the main switch . The machine will feed the masterbatch and additives in time according to IMM's melting signal.

Note: In this step, the input weight unit is consistent with that of the 50S measured value. For example, if the input unit is g (10g, 100g, kg...) in 50S test, then the input unit is g (10g, 100g, kg...).

4.3.2 Extruder Mode


According to the circuit diagram, when the extruder is in working mode (receive extruder signal 0 ~ 10V), the machine is in extruder working mode after powering on.

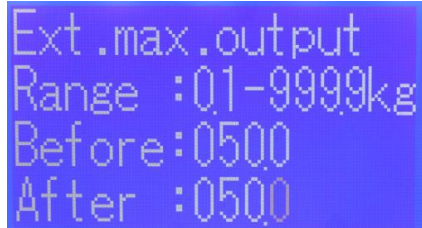


SHINI DUAL SCM
Type:Extruder
Ver :170223

4.3.2.1 Parameters Set for Extruder Mode

1. 50 secs. weight setting steps:
Setting steps are the same as IMM
2. Masterbatch proportion setting
Setting steps are the same as IMM
3. Extruder max. output setting:


- 1) Press Menu key  till it displays extruder max. output setting screen as below:



```
Ext.max.output
Range :01-9999kg
Before:0500
After :0500
```

Set hourly max. output during extruder operation. The default is 50Kg/H.

2) Press menu key , save the setting and exit.


After above settings, turn on the main switch . The machine will feed the masterbatch and additives proportionally according to extruder signal (0~10V).

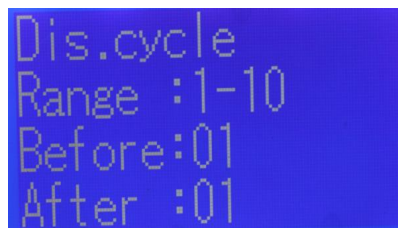
4.3.3 Other Function Setting

1. Micro-metering Method (only for IMM).

Function: When each mould only requires a few masterbatches (less than 0.5g), it can use this function. Set discharge cycle as 2, which means once master discharge in twice IMM signals, and so on.

Setting steps: After setting the 50 secs. output value, masterbatch proportion, weight per mould and melting time according to IMM mode, press Menu key

 till it displays discharge cycle screen as below. Change the discharge cycle, then the setting is finished. The default is 1.



```
Dis.cycle
Range :1-10
Before:01
After :01
```

2. Color Compensation Mode

Function: When screw 2 feeds regrind, it can add the masterbatch in proportion only to the regrinds. Total masterbatch that the screw fed equals to original required amount plus regrind required amount. The default is 0.



```
H2 clr.com.ratio
Range :0-9999%
Before:1000
After :1000
```

3. Screw 2 Optional Level Switch Mode

Function: When hopper of screw 2 options with level switch that detects the low level during operation, screw 2 will stop metering. Insufficient regrinds will be fed by basterbatch and material proportionally and automatically.

4.3.4 Other Parameters Function

1. Control type (0~3 for selection for IMM mode, the default is 0):

0--- External signal & setting time

1--- External signal: when Doser works, the signal is determined by external signal.

2--- Melting time: When Doser works the signal is determined by set signal of melting time.

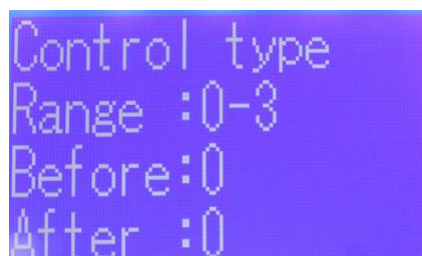
3---External signal: When Doser works, the signal is determined by previous mould received signal of melting time.

When the setting is 0, it means feeding time of Doser screw is determined either by external signal or set melting time, depending on whose lasting time is shorter. Such as: When IMM motion signal ended but Doser set melting time still on, Doser screw will stop feeding. When IMM motion signal lasts but Doser set melting time is over, Doser screw will stop feeding too.

When the setting is 1, Doser screw won't stop feeding unless external signal breaks.

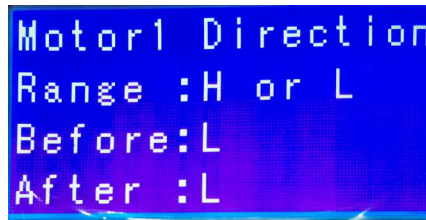
When the setting is 2, Doser screw stops feeding when melting time is over.

When the setting is 3, it drives the screw according to previous mould received melting time.



```
Control type
Range :0-3
Before:0
After :0
```

2. Motor rotation direction setting:

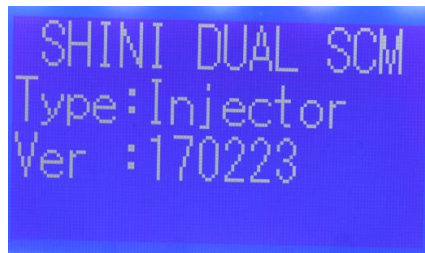




Notes:

L: Motor rotates clockwise

H: Motor rotates anti-clockwise

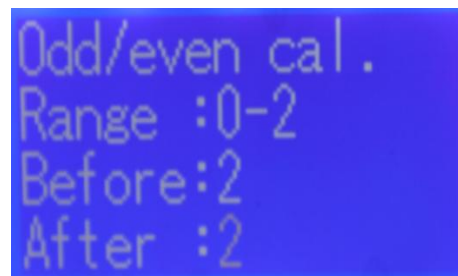
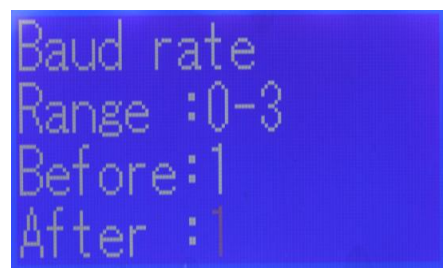
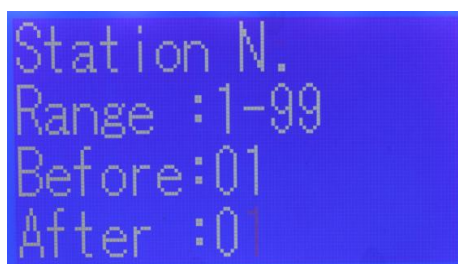
3. Setting for Communication with Upper Unit



After it enters above start screen, hold on  and  together for 3 secs.

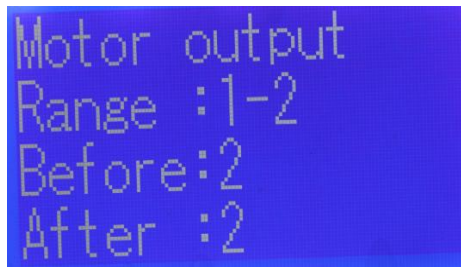
It enters parameter setting for communication.

When communicating with upper unit, the machine should set parameters as below:



F26: Station No.	1~99
F27: Baud Rate	0: 4800 1: 9600 2: 19200 3: 38400
F28: Odd-even Check	0: No 1: Even 2: Odd
F29: Stop Bit	1: 1bit 2: 2bit

4. Metering Motor Output

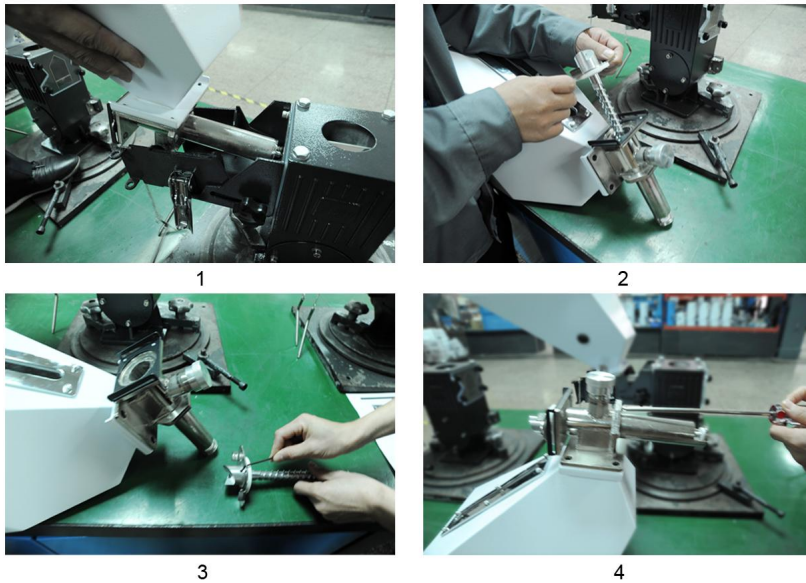


```
Motor output  
Range :1-2  
Before:2  
After :2
```

Note: For single ingredient, the metering motor outputs 1; For double ingredients, the metering motor outputs 2.

4.4 Replace Dosing Screws

- 1) Cut off power supply, loosen snap hook of the hopper, draw out the hopper and screw. Then, unlock the screw fastening plate to remove the conveying screw for replacement. During screw replacement, it should replace the sleeve simultaneously (different screw diameters are matching different sleeves).
- 2) Install the screw and hopper back to the machine.



Picture 4-2: Replace Dosing Screws

5. Trouble Shooting

Failures	Possible reasons	Solutions
No indicates on the control cabinet.	1. Power supply not connected.	1. Connect the power supply.
	2. Fuse burnt out or control board problems	2. Replace the fuse or check control board.
Motor does not work.	1. Parameter mistakes.	1. Reset parameters.
	2. Motor overload.	2. Contact the manufacturer or local distributor.
	3. Motor damaged.	3. Replace the motor.
	4. Signal wire broken.	4. Replace motor signal wire.
	5. Signal wire connection wrong	5. Conduct Inspection
The buzzer sounds the alarm.	Parameter setting exceeds the limit.	Reset parameters.

6. Maintenance and Repair

6.1 Repair

All the repair work should be done by qualified technicians to prevent personal injuries and damage of the machine.

6.2 Maintenance

Keep the surface of machine clean.

6.3 Maintenance Schedule

6.3.1 About the Machine

Model _____ No. _____ Manufacturing date : _____

Voltage _____ Φ _____ V Frequency _____ Hz Total power: _____ kW

6.3.2 Check after Installation

- Check that dosing screws are fitted correctly.
- Check the snap hook is tightly locked.
- Check if the mounting base is firmly locked.

Electrical Installation

- Voltage: _____ V _____ Hz
- Fuse melt current: 1 Phase _____ A 3 Phase _____ A
- Power supply and signal wire of control cabinet are correctly connected.

6.3.3 Daily Checking

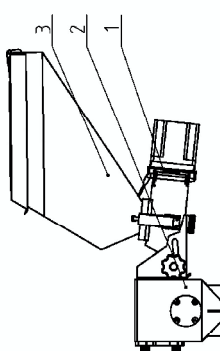
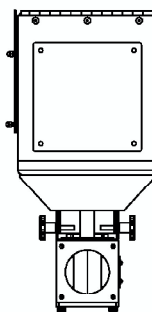
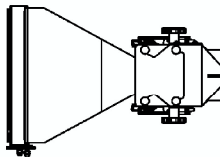
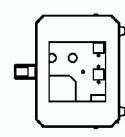
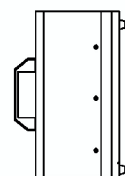
- Check the main switch.
- Check fastening screws of mounting base.

6.3.4 Weekly Checking

- Check if there damaged electrical wires.
- Check snap hooks are loose or not.
- Check if the side holding plate is loose or not.

7. Assembly Drawing and Parts List

Ver. A

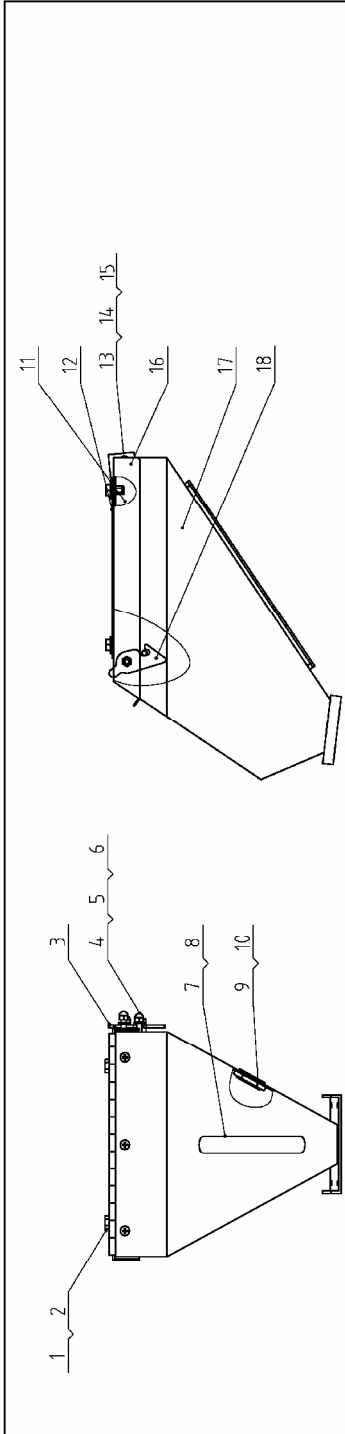
NO.	Code	Name	Texture	Qty	Remark
4	SCM-EB-E-ALL	Control Box Assembly		1	
3	SCM-38-B-ALL	Storage Hopper Assembly		1	
2	SCM-EB-A-ALL	Base Assembly		1	
1	SCM-EB-C-ALL	Feeding Assembly		1	

	SCM-EB	Drawing NO.	SCM-EB-ALL	
Title		Assembly Drawing		
Version	0	Approved by		
Date	20180829	Checked by		
Modify date	After modification	Checked by		
Before modification	After modification	Checked by		

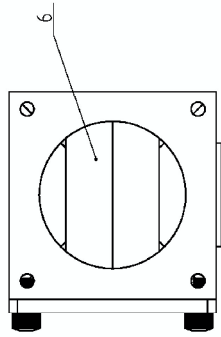
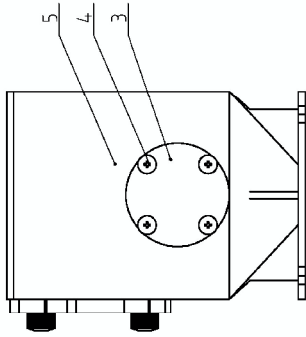
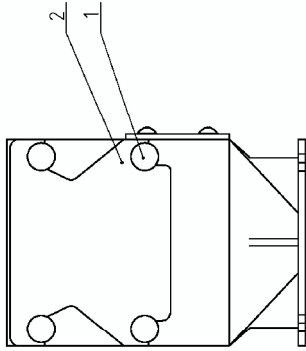
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Scale	1:10
Quantity	1

Surface requirement	
Material	



NO.	Code	Name	Texture	Qty.	Remark																		
18	SCM-38-B-05	Hook	SUS201	1																			
17	SCM-38-B-01	Storage hopper welding drawing		1																			
16	SCM-38-B-03	Storage hopper cover	SUS201	1																			
15	YW64-000500000	Hexagon locknut M5	SUS202	6																			
14	SCM-38-D-03	Long hinge	SUS304	1																			
13	YW62051000000	Cross socket head cap screw M5x10	SUS202	6																			
12	SHD-100-A-06	Hopper cover plate	SUS201	1																			
11	YW64-080200000	Rivet nut with small flat heads M8JX-02	6.8	4																			
10	YR30301500000	Material level gauge plug heac M30x15	PVC	1																			
9	BR300884-00050	Material level gauge plug head		1																			
8	YR20162600100	O type seal ring 106x2.65		1																			
7	SCM-38-B-04	Sight-glass		1																			
6	YW66061800000	Flat gasket 6	100HV	6																			
5	YW61062500100	Inner hexagon screw M6x25	12.9	1																			
4	YW64-006000100	Cap nut M6	5.8	3																			
3	SCM-38-B-02	Hopper connection plate	SUS201	1																			
2	YW66081900000	Flat gasket 8	100HV	4																			
1	YW60081600100	Hexagon screw bolt GB/T5781 M8x16	4.8	4																			
<table border="1"> <thead> <tr> <th>Title</th> <th>Code</th> <th>Name</th> <th>Drawing NO</th> <th>Scale</th> <th>1:6</th> <th>Quantity</th> <th>1</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>Storage Hopper Assembly</td> <td>SCM-38</td> <td>SCM-38-B-ALL</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Assembly</td> </tr> </tbody> </table>						Title	Code	Name	Drawing NO	Scale	1:6	Quantity	1	Remark	Storage Hopper Assembly	SCM-38	SCM-38-B-ALL						Assembly
Title	Code	Name	Drawing NO	Scale	1:6	Quantity	1	Remark															
Storage Hopper Assembly	SCM-38	SCM-38-B-ALL						Assembly															
 信易塑料机械股份有限公司 Shini Plastics Technologies, Inc.																							
Mark	Before modification	Modified by	Modify date	Version	Checked by	Date																	
			20160517																				



NO.	Code	Name	Texture	Qty.	Remark
6	SCM-EB-A-03	Material fender	SUS201	1	
5	SCM-EB-A-01	Base	SUS201	1	
4	YW6205060000	Cross recessed raised counter sunk head screw JIS1117 M5x8		4	
3	SCM-EB-A-02	Sight-glass	PC	1	
2	BH14129600010	Doser end plate	PC	1	
1	YW69621000000	Manual tighten up screw6x20		4	

Drawer	Version	0	Title	SCM-EB	Drawing No.	SCM-EB-A-ALL	Scale	1:3	Quantity	1	Remark
Designer	Approved by		Base Assembly								
Proffread by	Date	20180829									
Checked by	Modify date										
Modified by	After modification										
Mark	Before modification										

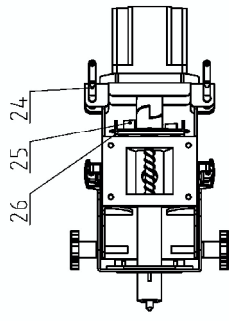
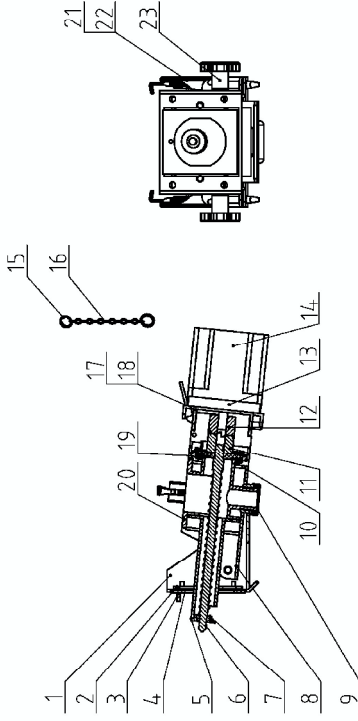
Surface requirement	Material	Assembly
Material No.		

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Part No.		Part Name		Material		Quantity		Remark	
23	YR4.00835.000000	Star knob B Type MBx35					2		
22	YW6Z04.1K00100	FOSS SOCKET HEAD LAMP SCREW M4x10					4		
21	YW020030004.00	New adjustable spring buckle					2		
20	SCM-38-C-24	Conveying pipe 2					1		Standard
19	SCM-38-C-14	Conveying pipe 3					1		Standard
18	SCM-EB-C-01	Main body fixed frame 2					1		
17	YW610625.000000	Inner hexagon screw M6x25					4		
16	YW9012000000	Wire diameter 1.2 bufton chain					2		0.15 m
15	YW001513.000000	Stainless steel key ring 2x16					4		
14	YM504514000000	Stepping motor 3A02HS+SUL1					1		
13	SCM-EB-C-02	Conveying motor flange					1		
12	SGD-EB-A-06	Shaft coupler 2					1		
11	SCM-38-C-17	Shaft coupler 1					1		
10	YW6Z0508000000	FOSS SOCKET HEAD LAMP SCREW M5x3					4		
9	SCM-38-C-28	Cap nut					1		
8	SCM-38-C-03	Main body fixed frame 1					1		
7	SCM-38-C-05	Screw fitting 2					1		
6	SCM-38-C-10	Screw φ30					1		Optional
5	SCM-38-C-09	Screw φ20					1		Optional
4	SCM-38-C-08	Screw φ16					1		Optional
3	SCM-38-C-06	Screw φ12					1		Standard
2	SCM-38-C-27	φ16 screw sleeve					1		Optional
1	SCM-38-C-13	φ20 screw sleeve					1		Optional
0	SCM-38-C-11	φ12 screw sleeve					1		Standard
0	SCM-38-C-30	Rubber sheet of material fender 47					1		Optional
0	SCM-38-C-29	Rubber sheet of material fender 34					1		Optional
0	SCM-38-C-01	Rubber sheet of material fender 25					1		Standard
0	SGD-C-25	Material fender fitting 2					1		
0	SGD-C-28	Material fender fitting 1					1		
0	SCM-38-C-02	Side fixed frame					1		
0	NO	Name					Texture	Qty	Remark

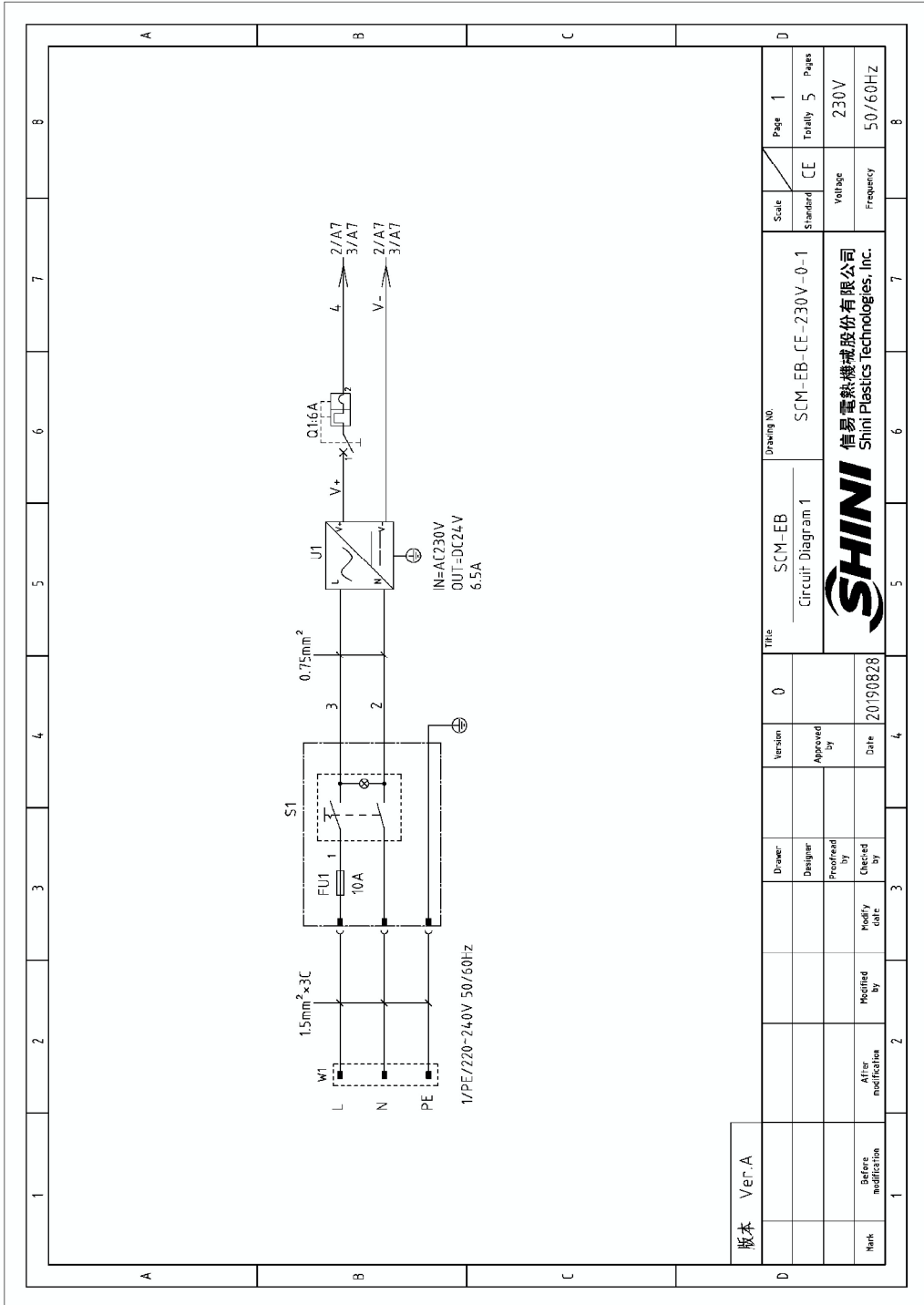
Drawing No.		Title		Version		Date	
SCM-EB	Feeding Assembly	0					
SCM-EB-C-ALL							

SHINI		信易塑料机械股份有限公司		Shini Plastics Technologies, Inc.	
Mark	Before modification	Modified by	Modify date	Checked by	Date
					20180930
		Approved by			
		Checked by			
		Designer			
		Drawer			

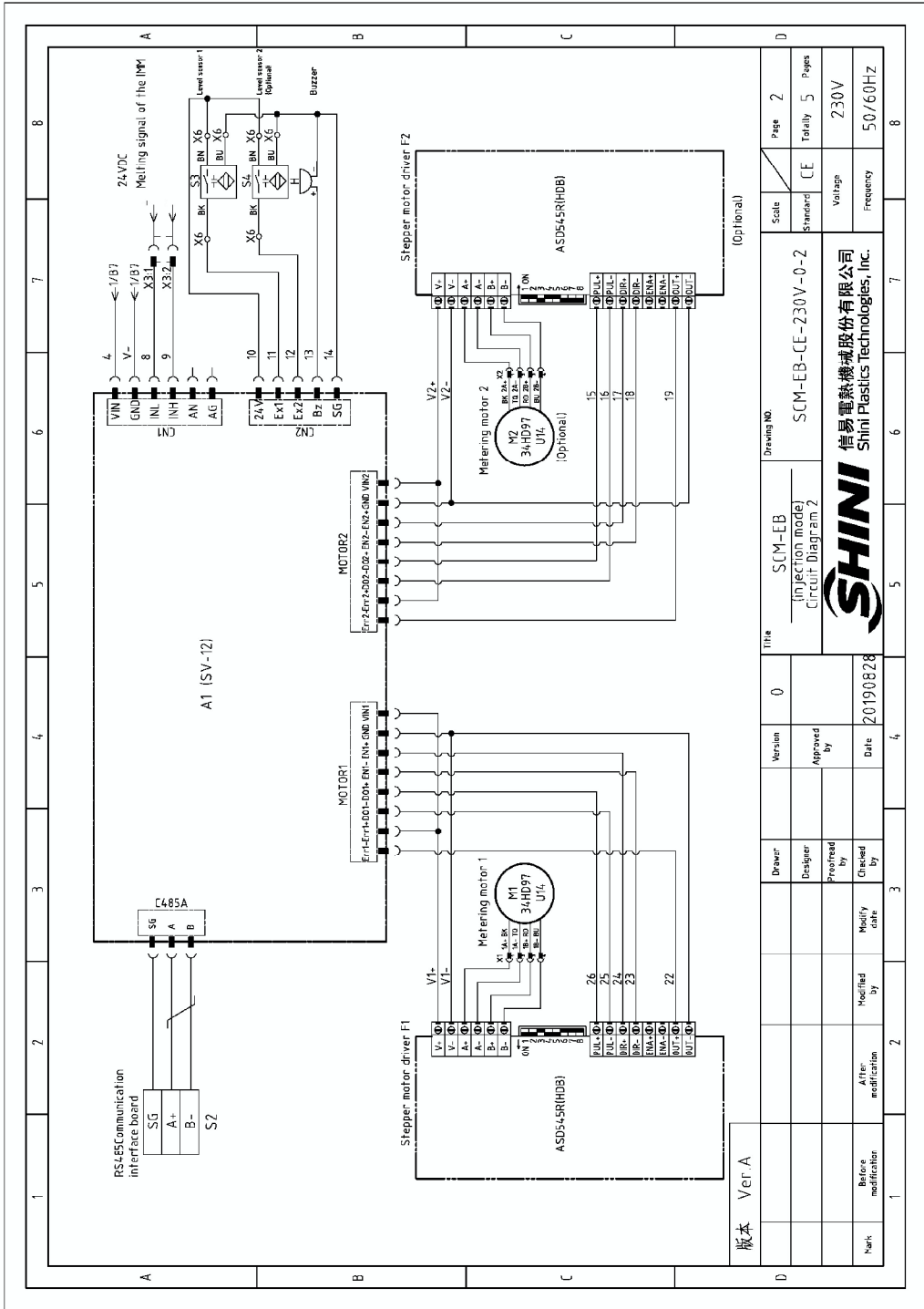


机种版本号		Ver. A	

8. Electrical Circuit Descriptions

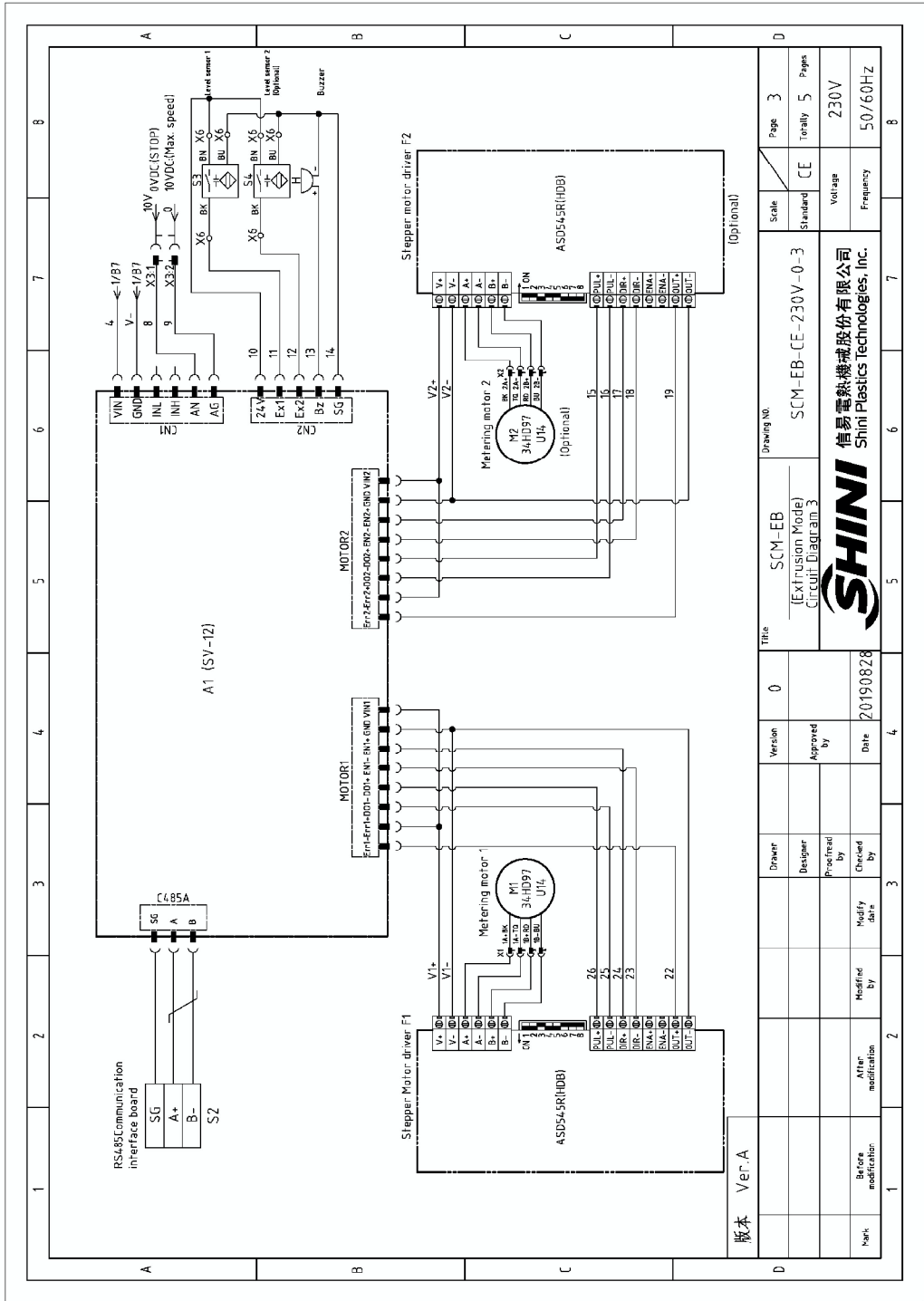


版本	Ver.A	Version	0	Title	SCM-EB	Drawing No.	SCM-EB-CE-230V-0-1	Scale	Standard	Page	1
Mark	Before production	Designer	Approved by		Circuit Diagram 1			Standard	CE	Totally	5
	After modification	Checked by	Date	20190828						Voltage	230V
	Modify date									Frequency	50/60Hz
											8



版本	Ver.A	Drawn		Version	0	Title	SCM-EB	Drawing No.	Page	2
Mark		Designer		Approved by		Injection mode	SCM-EB-CE-230V-0-2	Standard	Totally	5
		Prepared by		Date	20190828	Circuit Diagram 2		Scale	CE	Pages
		Checked by		Modified by						230V
		Modify date		After modification						50/60HZ





Mark	Before modification	After modification	Modified by	Modify date	Checked by	Practical by	Designer	Drawer	Version	0	Title	SCM-EB (Extrusion Mode) Circuit Diagram 3	Scale	Standard	Page	3	
Mark												SCM-EB-CE-230V-0-3			Totally	5	
																Pages	
																	Voltage
																	230V
																	Frequency
																	50/50Hz

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1	2	3	4	5	6	7	8
NO.	Symbol	Name	Manufacturer	Type	Specification	Number	Material number
1	A1	PCB	YUYUN	SV-12	24VDC	1	YE80122405000
2	S1	Power Line	MISUMI	APCJ-10*-1FR-03	AC90-56A-53-375-2	1	YE15111300000
3		Fuse Core	JIANDONG	5x20	10A 250V	1	YE46010250000
4	W1	EE Power Line	RENYI	10x3P	10A	1	YE50122500000
5		GB Power Line	YONGTAO	15x3C	16A	1	YE50316300000
6	Q1	Circuit Breakers	TECO	BM-63C/1006S IP	6A	1	YE4100600100
7	H1	Buzzer	JINGKANG	PK-27A/29EP	24VDC	1	YE84002700000
8	U	DC Power	LANGYUAN	PMT-24V-50W1AA	IN=115/230V OUT=24VDC 6.5A	1	YE1246500000
9	X1	Heavy-duty Connector	HARTING	Han 4A-M	4P+PE	1	YE68000401300 (1)
10		Heavy-duty Connector	HARTING	Han 4A-F	4P+PE	1	YE68000401400
11	X2	Heavy-duty Connector	HARTING	Han 4A-M	4P+PE	1	YE68000401300 (1)(3)
12		Heavy-duty Connector	HARTING	Han 4A-F	4P+PE	1	YE68000401400 (3)
13	X3	Metal Connector	CHAOYI	PLT-162-RR(※)	2P	1	YE68016200100
14		Cable Head	CHAOYI	PLT-162-PR(※)	2P	1	YE68016200000 (1)
15	X4 X5	Terminal Board	JUKUANG	PG9	----	2	YE67000940000
16	X6	Terminal Board	HONEYWELL	SK2.5	----	4	YE60002503200
17		Terminal	HONEYWELL	----	----	2	YE60000003900
18	S2	Communication interface board RS-485 (double 5pin-5pin connector)	YUYUN	----	----	1	YE90048501200
19		Shell RS485(SAL-700G-A-19)0	BINGCHENG	----	----	1	YR40048500000
20	S3	Capacitance Switch	IFM	KI5082+EV50	10-36VDC	1	YE15508200000 (1)
21	S4	Capacitance Switch	IFM	KI5082+EV50	10-36VDC	1	YE15508200000 (1)(2)
22	M1	Stepper Motor	HDB	34HD97U14-ASD545R	----	1	YM50349700000 (1)
23	F1	Driver	HDB	S-245D	----	1	YM10024500000 (1)
24	M2	Stepper Motor	HDB	34HD97U14-ASD545R	----	1	YM50349700000 (1)(3)
25	F2	Driver	HDB	S-245D	----	1	YM10024500000 (1)(3)
版本 Ver.A Notes: (1)Means it's not the material inside the control box. (2)S stand for level switch option. (3)It stands for optional SCM-L.							
Drawn			Version	Title		Drawing No.	
Designer			0	SCM-EB		SCM-EB-CE-230V-0-5	
Proofread by			Electrical Components List				
Checked by			 信易電熱機械股份有限公司 Shini Plastics Technologies, Inc.				
Modified by			Date		Scale		Page
After modification			20190828		Standard		5
Mark					Voltage		230V
					Frequency		50/60Hz