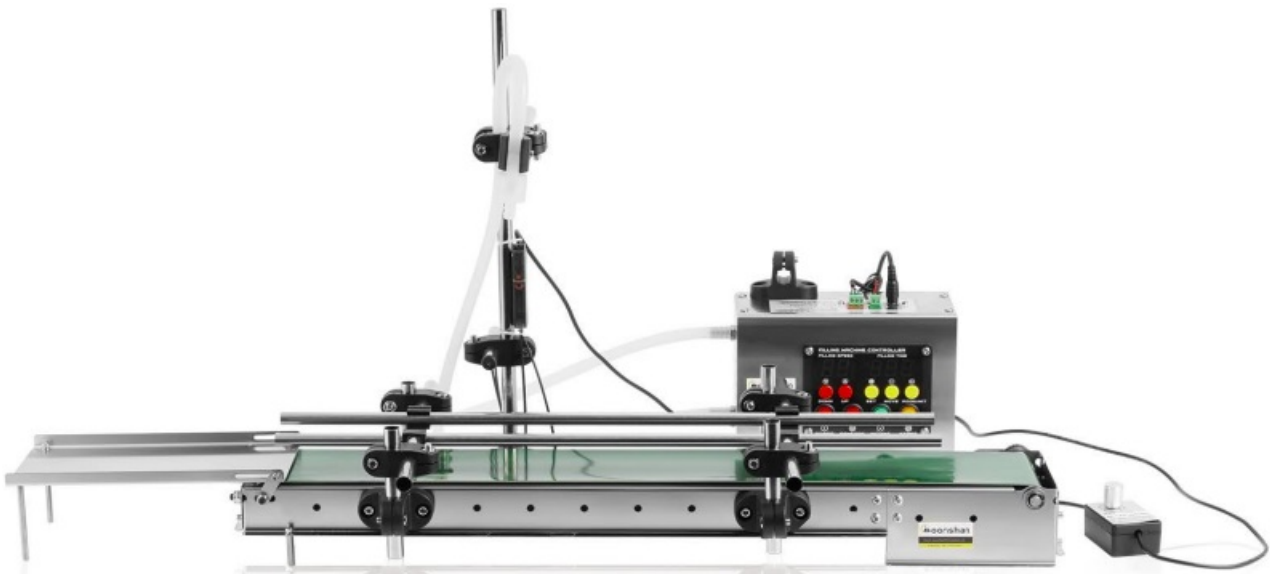


Moonshan Automatic Filling 23.6 Inch and Fiber Optic Sensor User Guide

[Home](#) » [Moonshan](#) » Moonshan Automatic Filling 23.6 Inch and Fiber Optic Sensor User Guide 

Moonshan Automatic Filling 23.6 Inch and Fiber Optic Sensor User Guide



Contents

- [1 Introduction.](#)
- [2 About Diaphragm Pump](#)
- [3 MS-3L Intelligent Liquid Filling Machine](#)
- [4 MS-1011 Conveyor Belt](#)
- [5 Installation](#)
- [6 Specification](#)
- [7 custommation](#)
- [8 Documents / Resources](#)
 - [8.1 References](#)
- [9 Related Posts](#)

Introduction.

Desktop automatic filling production line is our newest self-developed automatic filling equipment. It is designed to provide more people with convenient and sammitive automation equipment, and is especially suitable for factory or that need to perform batch work every day

In addition, we have different equipment for different needs of customers:

- If you want a standard mini fitting line
Choose our starter kit: MS-3L filling machine+ MS-10TT conveyor belt you have a liquid fitting machine with connection for pedal, and want to has a conveyor belt far it:
- Choose our supporting device for filling machine MS-1011 conveyor belt with controller Of course, we also have belt conveyor Pro series for option, please see the "Customization entroduction or contact us for more information

About Diaphragm Pump

If there is water comes out after remove these two black rubber caps, it is the clean water we left in the pump to maintain the pump. Because diaphragm pump may cannot draw water if it is dry in pump, and some new machines will encounter this kind of issue. If this issue happens, please manually add water into diaphragm pump, we put a syringe into the package too:

1. Use the syringe to add liquid into the inlet nozzle.

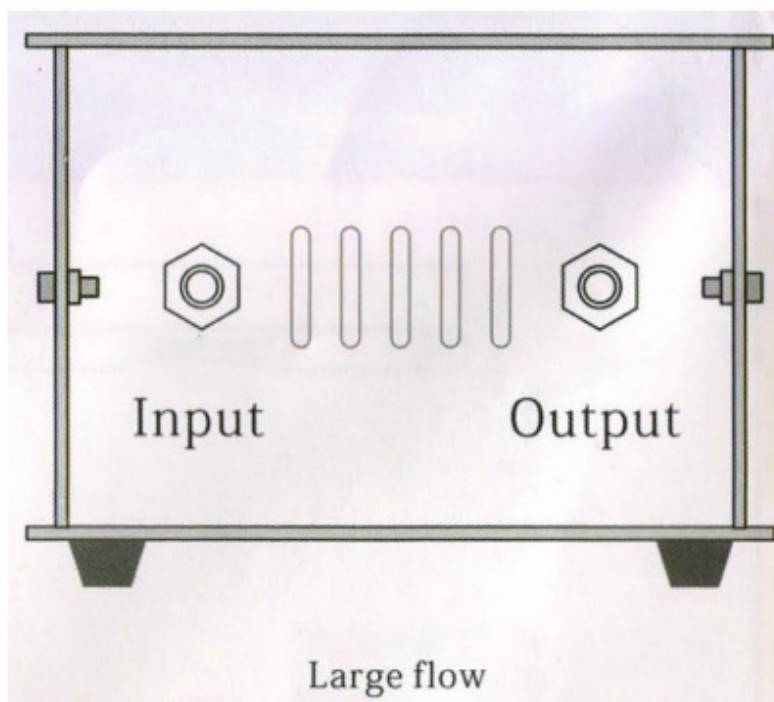
2. Start machine to check whether filler machine can work, if not, please repeat the second step.

During daily using, it is also recommended to leave some clean water in pump to maintain it.

After a long period of non-use of the machine, you may also encounter this situation, it is recommended to save the syringe.

If there is any question while using, please feel free to contact us.

MS-3L Intelligent Liquid Filling Machine

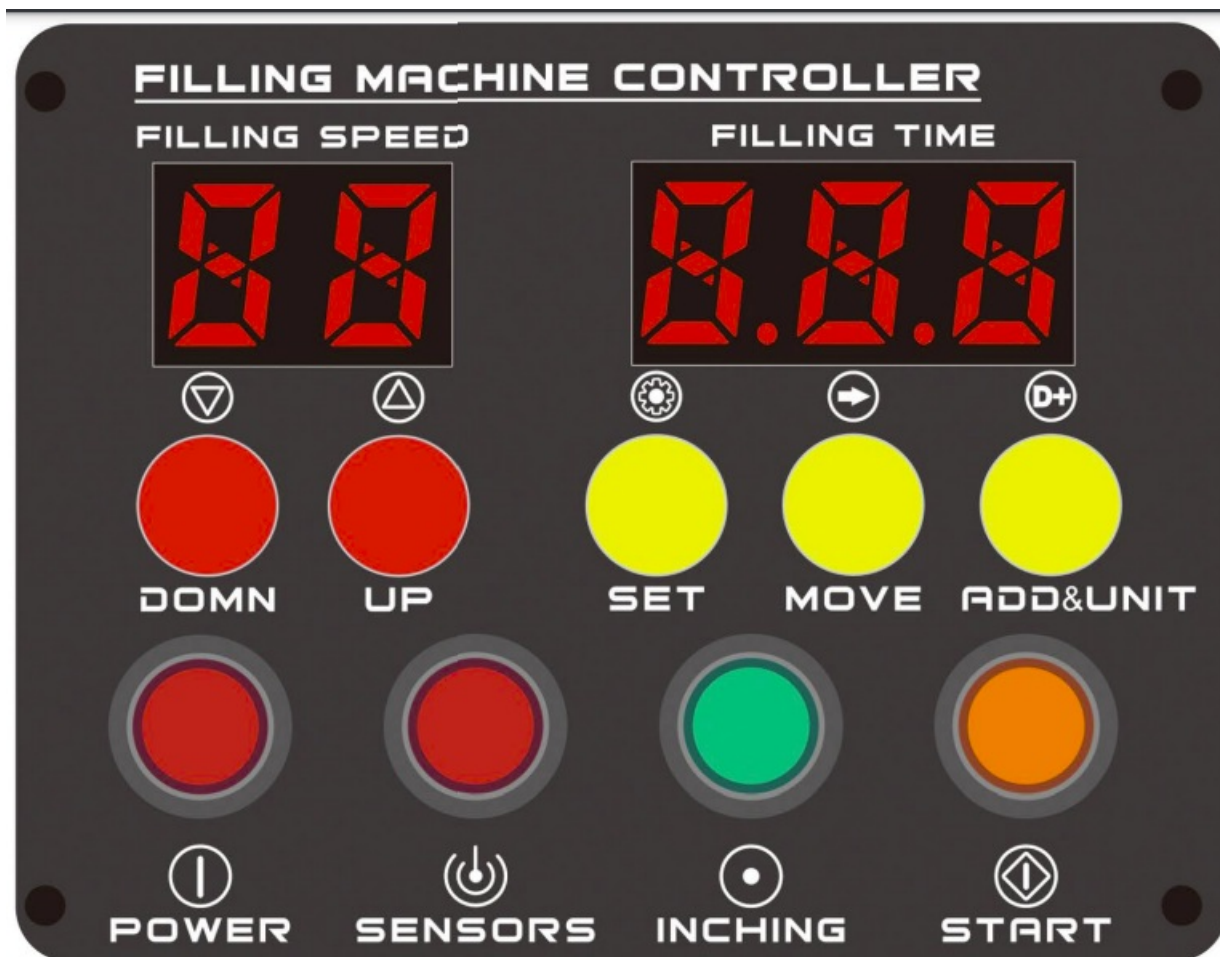


Inlet nozzle and outlet nozzle

Specification

Model	MS-3L(large flow version)
Voltage	100-240V
Input voltage	DC15V, 5A
Power	60W
The maximum flow rate	3000ml/min
Filling accuracy	+1%
Default diameter of filling nozzle	9mm
Maximum suction	6.6 ft
Maximum lift lift	0.8 f
Service life of pump	2000-3000hrs
Filling time	0.01-999s
Adjustment range of speed	PWM output, 01-99
Power-off memory	Support
Working mode	automatic, manual, induction
Dimension of machine body	7*5*3.5 Inch

Control Panel



Press the button to turn on/off the device



Press the button to turn on/off the sensor function(foot pedal, fiber optical sensor)



Press and hold the button to keep filling



Press the button to fill once Control Panel



Filling speed: press DOWN and UP button to adjust output speed @ Adjustable range: 00-9



00 is the minimum speed, the smaller the number, the slower the speed 99 is the maximum speed, the higher the number, the faster the speed

Filling time: set pump running time



Press the SET button to enter setting mode of filling time



Press the ADD&UNIT button to increase the number, the number increases, 0-9 cycles



Press MOVE to shift the decimal point one digit to the right, adjustable range: 00.0-99.9

Connection Ports

Power Input: power adaptor

Conveyor: belt conveyor

Sensor: fiber optical sensor

Troubleshooting

Issue	Further Judgment	Cause	Solution
Machine cannot pump water	Sound of pump can be heard.	Pump is not broken, it cannot pump water because it is dry inside.	Remove the mesh filter and use a syringe to manually add liquid into inlet nozzle. Start machine to check whether it can work, if not, please repeat this step.
	Sound of pump can not be heard.	1.Inner connection of pump and controlboard is disconnected 2.Pump is broken	1.Open the filling machine to connect the wire. 2.Replace the pump.
Whatever speed I set, the actual speed is not the same	/	1.Speed controller is disconnected 2.Speed controller is broken	1.Open the machine and connect the wires. 2.Replace the speed controller.
Screen will not light	/	1.Power adaptor is not connected. 2.Power connection is broken.	1.Connect the adapter. 2.Replace one.
Foot pedal won't work	/	"SENSORS" button is off	Press "SENSORS" button to turn on sensor function
There is foam when filling	/	The liquid you fill is prone to foaming	1.Try to tilt the bottle slightly. 2.Connect another short section of tube under the filling nozzle and bend it a little bit.

Maintenance and Cleaning Advice

1. Leave some clean water inside the tube and pump to prolong the service life of pump.
2. Use filler machine to fill clean water or mild detergent for several times to clean it after use. (Strong oxidant, strong acid or strong alkali are not recommended, or the pump will be destroyed)

MS-1011 Conveyor Belt

Package list

- Spare mesh filter *1

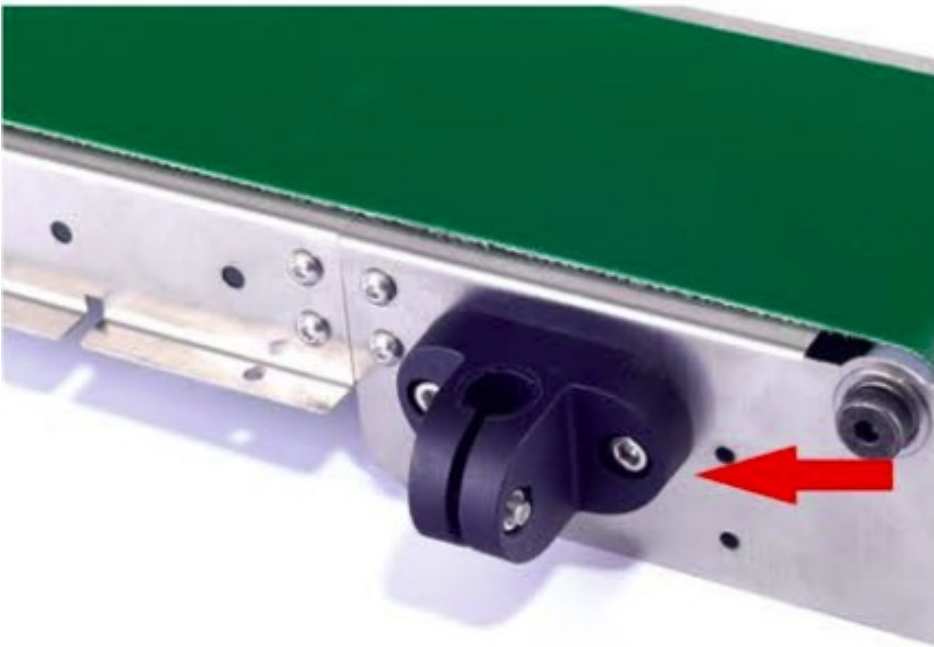
- Bottle collector plate *1
- Six-sided long copper rod *2
- Six-sided short copper rod *2
- 50cm Guardrail *2
- Short bars *4
- Short bars for holding guardrail *4
- 40 cm bar for installing fiber sensor *1
- T type black buckle *4
- | type black buckle *5
- Fixing screws *7
- Nut *3
- Slim hex wrench *1
- Big hex wrench *1

Installation

1. Install the two six-sided short copper rods conveyor belt.



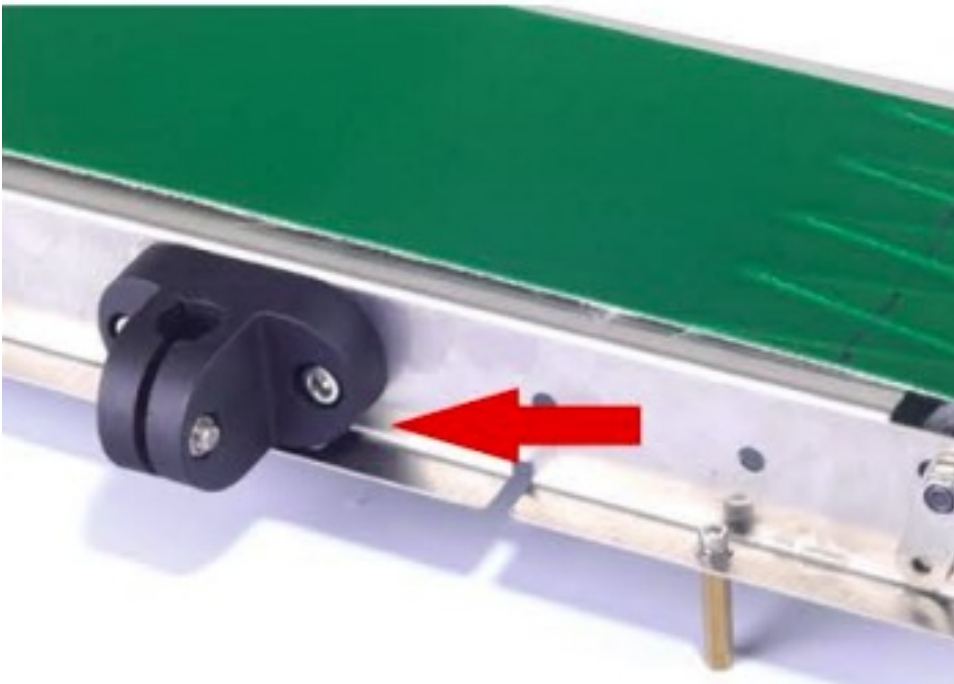
2. Install four T type black buckle.



3. Install the show bars and two guardrail rods.



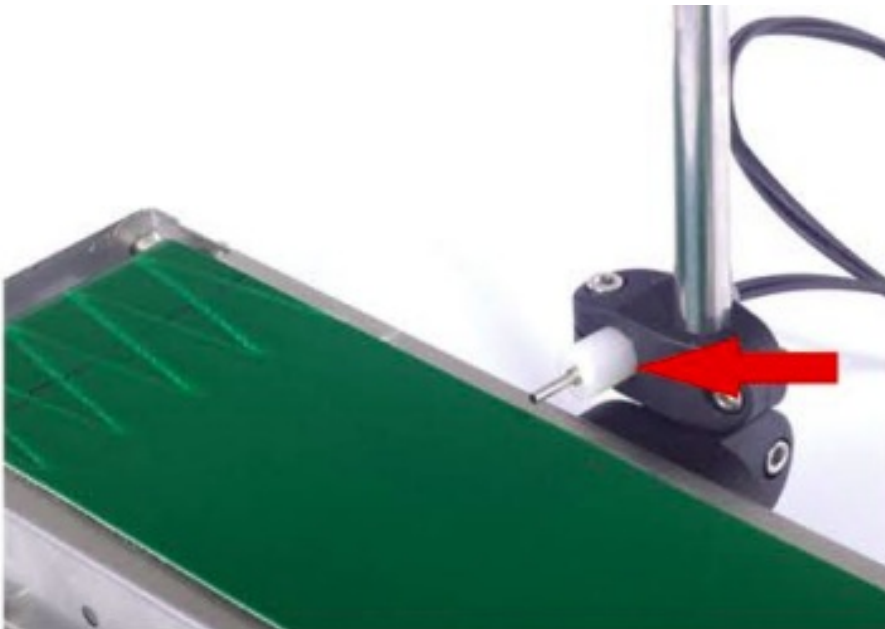
4. Take off the T type black buckle on your filler machine to install it aside the conveyor belt.



5. Install the supporting rod filling nozzle



6. Install the fiber optical sensor. The tip of sensor should be exposed from the silicone glove

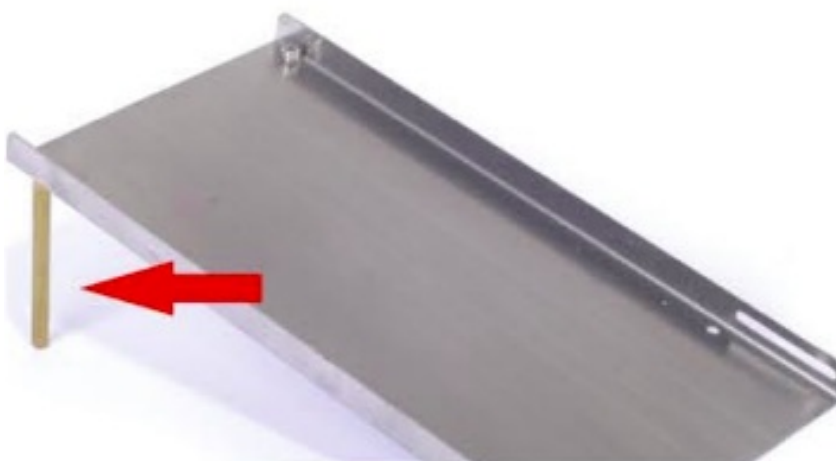


7. Install the filling nozzle.

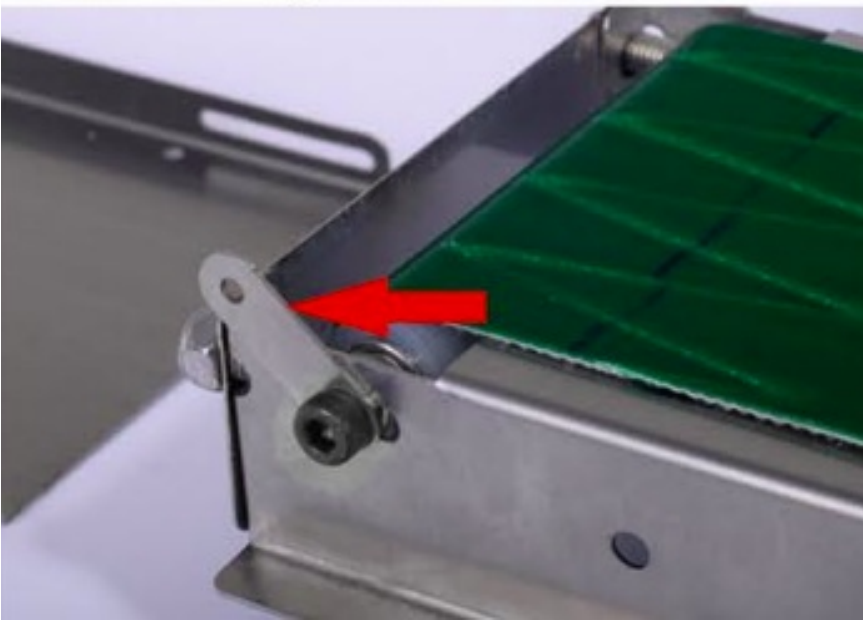


NOTE: the arrow on it is the direction of water flow, DO NOT reversely install it

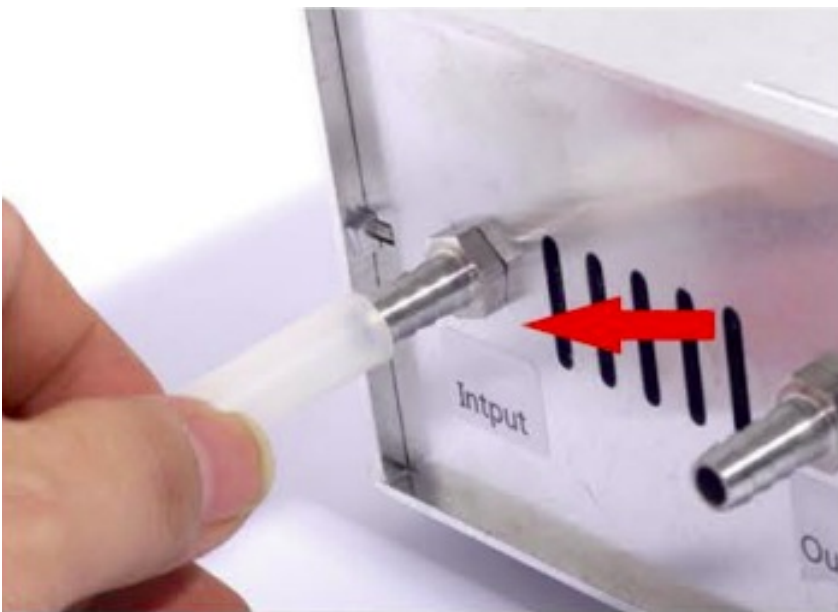
8. Install the two six-sided long copper rods



9. Use fixing screws to connect the bottle collector plate.



10. Connect the inlet tube and outlet tube. DO NOT reversely install them.



11. Install the mesh filter



12. Connect the corresponding port



13. Connect the belt conveyor and adjust the speed controller



14. This is the fiber optical sensor.



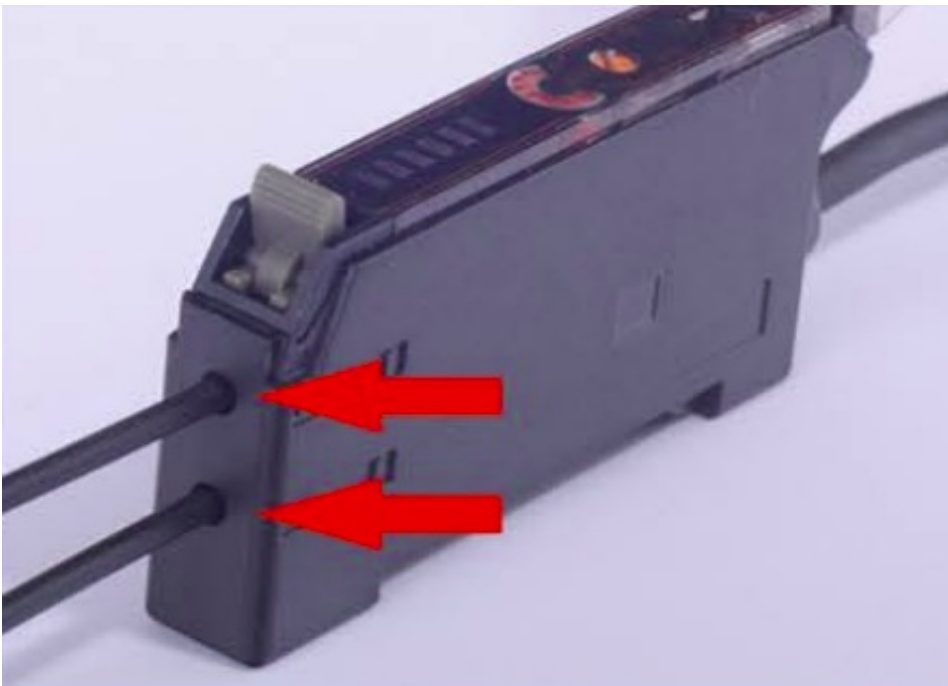
15. Open the cover.



16. Open the cable buckle.



17. Insert the cables to the fiber optical sensor.



18. Close the cable buckle.



19. Close the cover.



As for the Detailed Video Instruction, please search “Moonshan Conveyor Belt Installation” on YouTube or contact us to get it.

Introduction of the fiber optical sensor

Specification

Model : MS-1101 belt conveyor

Conveyor belt size : 23.6*3.9*2.2 Inch

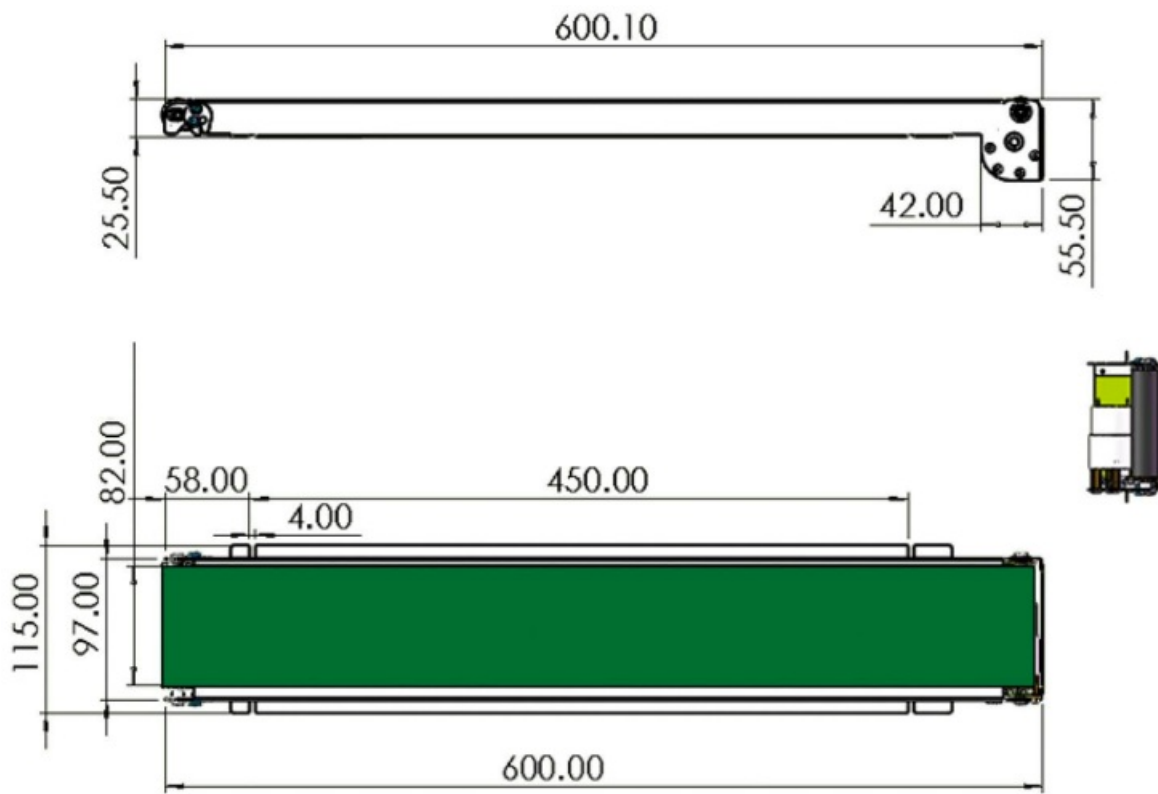
Height of filling nozzle: 0-11.8 Inch adjustable

Conveyor load weight: 13 Lbs

Sensor: fiber optical sensor

Power adaptor 1: 5V 5A 115.00

Length of bottle collector plate : 7.8 inch



custommation

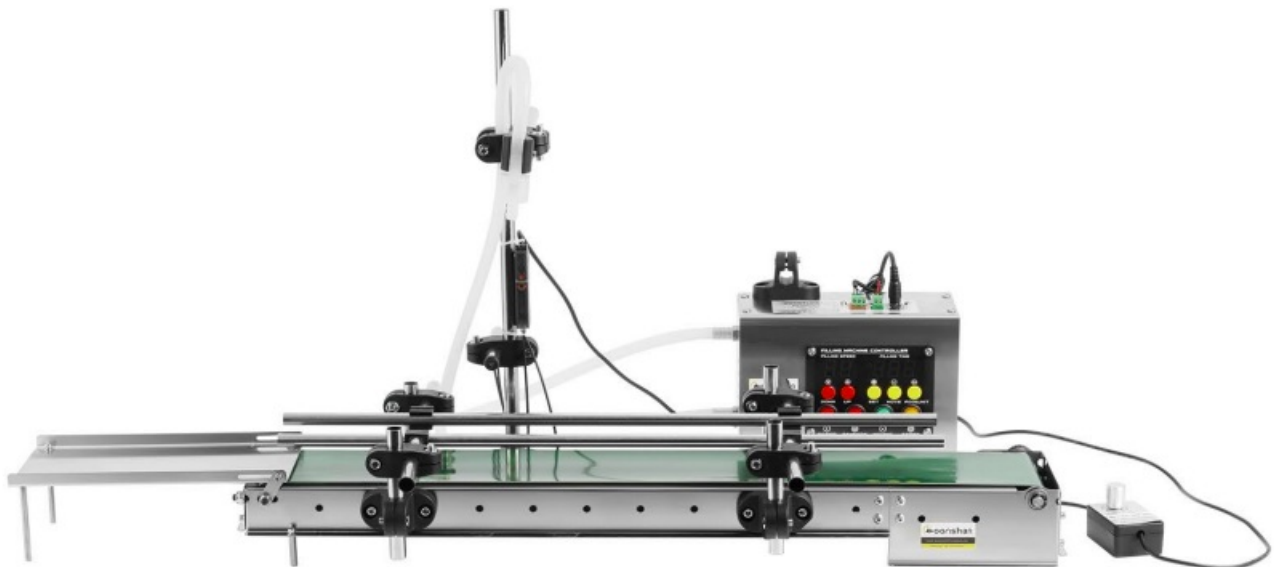
We have a wide range of mini automatic filling lines that can be customized for customers with different needs. Please contact us for more information. Contact us: Email: moonshan2021@outlook.com

MS-1011 Belt Conveyor Filling Machine Line Series

Filling head: 1,2, 4,6, 8,12

Pump type: diaphragm pump, 400ml/min peristaltic pump, 6L/min magnetic pump

Conveyor belt size: 23.6"(L) x 3.5"(W), 36.4"(L) x 5.5"(W), 59"(L) x 5.5"(W), 70"(L) x 5.5"(W)

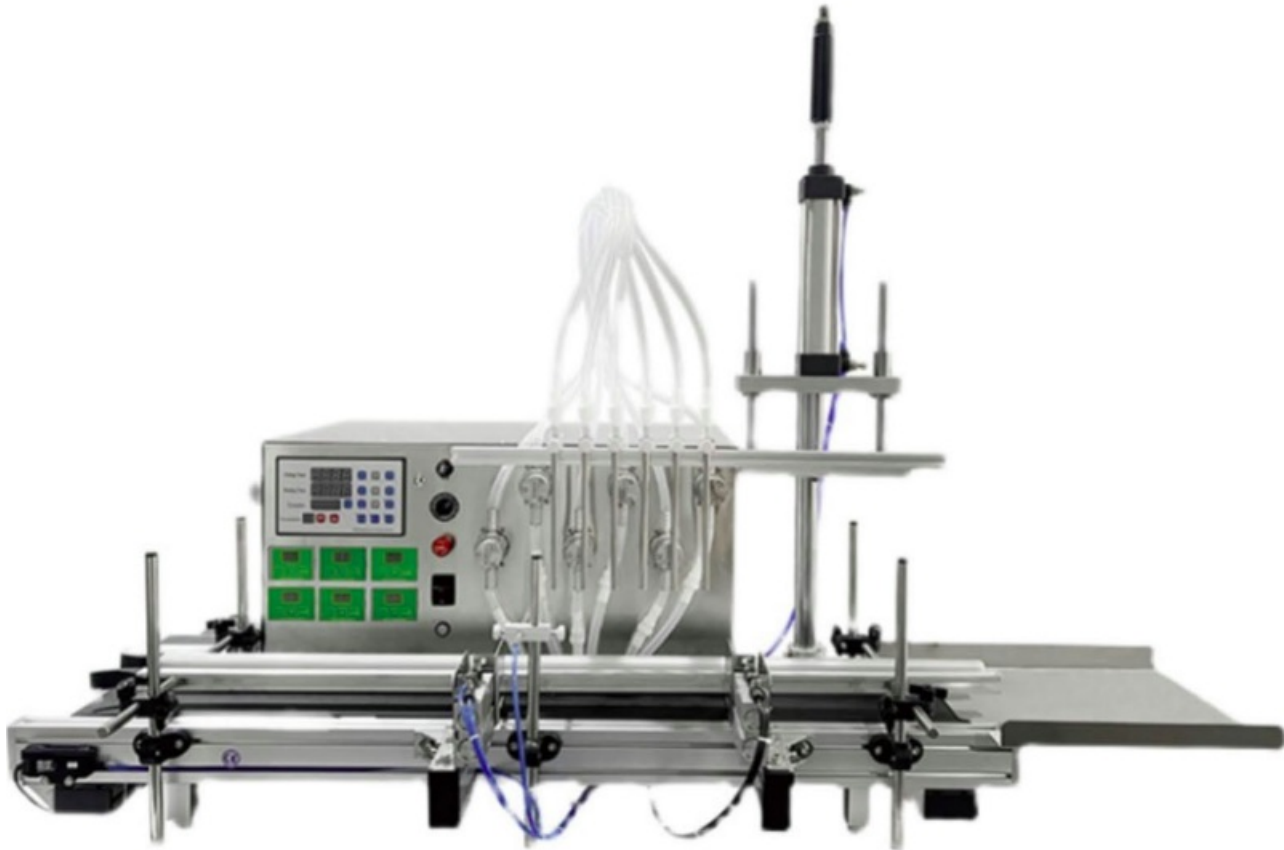


MS.1021 Pro Belt Conveyor Filling Machine Line Series

Filling head: 1, 2,4, 6, 8,10, 12

different needs. Please contact us for more information. Pump type: diaphragm pump, peristaltic pump(650ml/min,

2L/min, 4L/min, 5L/min, 6L/min, Contact us: 11L/min), magnetic pump(2L/min, 3L/min, 4L/min, 5.5L/min, 8.5L/min)
~ Email: moonshan2021@outlook.com Conveyor belt size: 3.2ft, 6.5ft, .



S-3110 Pro Belt Conveyor Filling Machine Line Series

Automatic filling machine with dust cover version Conveyor length at least 2m/6.5ft, can be extended



MS Pro Full Belt Conveyor Filling Machine Line Series

A complete production line solution Bottle arrangement machine, liquid filling machine, bottle capping machine, label machine, bottle collector machine, etc.



Documents / Resources

	Moonshan Automatic Filling 23.6 Inch and Fiber Optic Sensor [pdf] User Guide Automatic Filling, 23.6 Inch and Fiber Optic Sensor, Fiber Optic Sensor, Optic Sensor, Sensor
---	---

References

- [User Manual](#)