

Semi Automatic Powder Auger Filling Machine



High quality packing machines manufacturer welcome to visit us!



One. General description

This type can do dosing and filling work. Due to the special professional design, so it is suitable to the fluidic or low-fluidity materials, like coffee powder, wheat flour, condiment, solid drink, veterinary drugs, dextrose, pharmaceuticals, powder additive, talcum powder, agriculture pesticide, dyestuff, and so on.

Video: https://youtu.be/GyY6hUT8Fac

Two. features

- Lathing auger screw to guarantee the precise filling accuracy
- PLC control and touch screen display
- Servo motor drives screw to guarantee stable performance
- Quick disconnecting hopper could be washed easily without tools
- Can be setting to semi-auto filling by pedal switch or auto filling
- Full stainless steel 304 material
- weight feedback and proportion track to materials, which overcomes difficulties of filling weight changes due to materials' density change.
- Save 20 sets of formula inside the machine for later use
- Replacing the auger parts, different products ranging from fine powder to granule and different weight can be packed
- Multi language interface

Three. specification

Model	TP-PF-A10	TP-PF-A11	TP-PF-A11S	TP-PF-A14	TP-PF-A14S
Control system	PLC & Touch Screen	PLC & Touch Screen		PLC & Touch Screen	
Hopper	11L	25L		50L	
Packing Weight	1-50g	1 - 500g		10 - 5000g	
Weight dosing	By auger	By auger	By load cell	By auger	By load cell
Weight Feedback	By off-line scale (in picture)	By off-line scale (in picture)	Online weight feedback	By off-line scale (in picture)	Online weight feedback
Packing Accuracy	≤ 100g, ≤±2%	≤ 100g, ≤±2%; 100 – 500g, ≤±1%		≤ 100g, ≤±2%; 100 – 500g, ≤±1%; ≥500g,≤±0.5%	
Filling Speed	40 – 120 times per min	40 – 120 times per min		40 – 120 times per min	
Power Supply	3P AC208-415V 50/60Hz	3P AC208-4	15V 50/60Hz	3P AC208-4	15V 50/60Hz
Total Power	0.84 KW	0.93 KW		1.4 KW	
Total Weight	90kg	160kg		260kg	



Overall	500 560 1070	200, 700, 4000,	4440.070.0000
Dimensions	590×560×1070mm	800×790×1900mm	1140×970×2200mm
Dimensions			

Four. Configuration list



No.	Name	Pro.	Brand	
1	PLC	Taiwan	DELTA	
2	Touch Screen	Taiwan	DELTA	
3	Servo motor	Taiwan	DELTA	
4	Servo driver	Taiwan	DELTA	
5	Switching powder		Schneider	
	supply		30	
6	Emergency switch		Schneider	
7	Contactor		Schneider	
8	Relay		omron	
9	Proximity switch	Korea	Autonics	
10	Level sensor	Korea	Autonics	

Five. Detailed Photos

1, hopper



Level split hopper It is very easy to open hopper and do cleaning.



Disconnect hopper it is not easy to take hopper apart and do cleaning.



2, the way to fix auger screw



Screw type

It will not make material stock, and easy



Stainless steel type

It is easy for cleaning and beautiful.

4, level senor (Autonics)



hang type

it will make material stock, and become rust, not easy for cleaning.



cloth type

it has to change termly for cleaning.



it gives signal to loader when material lever is low, it does feeding automatically.



5, hand wheel

It is suitable for filling into bottles/bags with different height.



6, Leakproof acentric device

It is suitable for filling products with very good fluidity, such as, salt, white sugar etc.





7, auger screw and tube

In order to make sure filling accuracy, one size screw is suitable for one weight range, for example, dia. 38mm screw is suitable for filling 100g-250g.





Production and processing:





Six. Semi automatic packing line

1, screw feeder + auger filler



2, ribbon mixer + screw feeder + auger filler





3, ribbon mixer + screw conveyor + storage hopper + screw conveyor + auger filler



4,screw feeder + ribbon mixer + screw feeder + auger filler





Seven: Factory Show





Eight: Customer site service

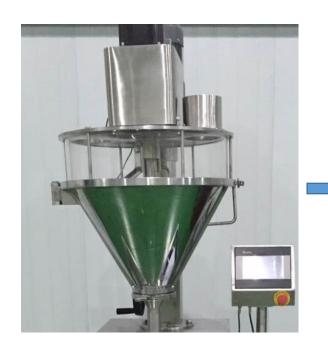
Our two engineers went to client's factory in Spain for after-sales service in 2017



Nine: Qualifications



ADVANTAGE OF NEW DESIGN AUGER FILLER





No.	Item	Current type	New type
1	Level senor	Easily disturbed	tuning fork type level sensor, P+F brand, it is more suitable for all kinds of materials, especially dusty materials.
2	hopper	It is easy for organic glass to become aged and deformed after lone time	Stainless steel 304, strong and durable, arc design, no material stock, easy to clean
3	Feed inlet & air outlet	Screw type	Quick connection type, more convenient installation and dis-assembly.
4	Feed inlet	Vertical, easy to impact the hopper when feeding	With Radian, reduce impact for hopper
5	Hopper opening & closing		Accurate slot to guarantee the hopper close properly

Detailed pictures to explain the new auger filler head's improvements:







SHANGHAI TOPS GROUP CO.,LTD









New level sensor PEPPERL + FUCHS brand, originally made in Germany

Current design type's pictures



level sensor





Hopper opening & closing

support plate