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Fertilizer Industry High-Speed Packaging Solution



General Measure Technology Co.,Ltd.

Address: Room2208, Block A, Building 6, Shenzhen International Innovation Valley,
Nanshan District, Shenzhen, Guangdong Province, P.R.China.

Tel/Wechat/Whatsapp : +86 185 6585 5789

E-mail: xjlv@szgmt.com

Website: www.gmweighing.com



PACKING FILLER AF-50K (High-Speed Version for Fertilizer Industry)

The AF-50K fully upgraded granular packing filler is designed specifically for the characteristics of fertilizer materials. With enhanced protection, optimized hardware, and upgraded algorithms, it delivers fast, accurate, and stable performance.



10-50kg
Weighing range



± 10~25g
Accuracy range



1500 Pcs/h
Top speed



Features:

Material And Craftsmanship

- SS316L full stainless-steel structure with blasting surface for corrosion resisting.

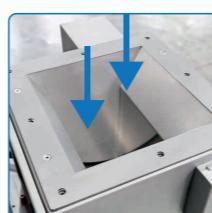


VS



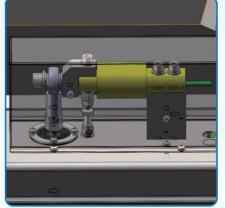
Feeding Hopper Upgrade

- Specially designed feeding hopper structure stabilize feeding pressure and improve feeding speed.



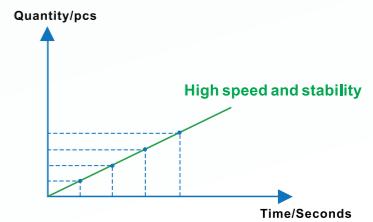
Load Cell Upgrade

- Adjusted floating direction of the load cell connection point to ensure high-speed stability.



Protection Upgrade

- Dust-proof film protection on load cell for improved protection without compromising accuracy.
- Oil seal treatment enhances gearbox protection level.
- Protective covers for the load cell, motor, and solenoid valve, plus a special cable entry design to prevent object intrusion.



Algorithm Upgrade

- Sampling rate 960 SPS
- Upgraded adaptive algorithm ensures fast, accurate, and stable weighing and packing.



Wide Material Compatibility

- Feeding gate minimum adjustment is 0.015mm.(maximum 200mm,adjustment range 1-13500).
- Capable of handling various fertilizers with different forms.

Specifically Designed For Highly Corrosive Materials

Motor gate full range opening speed is **0.085s**, with minimum vibration comparing to pneumatic version.



Mettler Toledo Load Cell
Model: MTB-100KG
Material: Stainless steel
Capacity:100kg C3



Siemens Servo Motor
Model: Sinamtic v90
Power Voltage:220V



Festo Cylinder
Model: CRDNG-50*160-PPV-A
Air buffer at both ends
Piston diameter: φ50mm
Stroke: 160mm



Festo Solenoid Valve
Model:VUVG-L18-M52-MT-G14-1H2L-W1
Power Voltage: DC24V



Siemens HMI
HMI: 10" TFT Display
Model: Smart 1000 IE V5
Power Voltage: 24VDC
Power: 6W
Storage:256MB

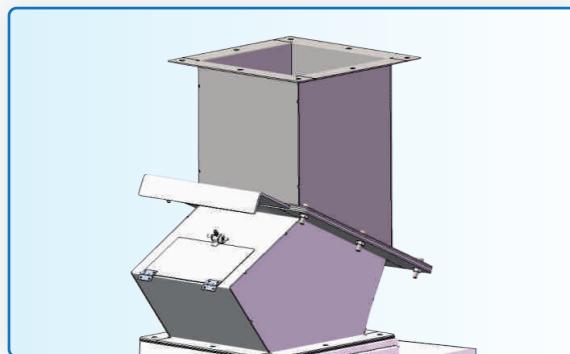


Optional Component Description

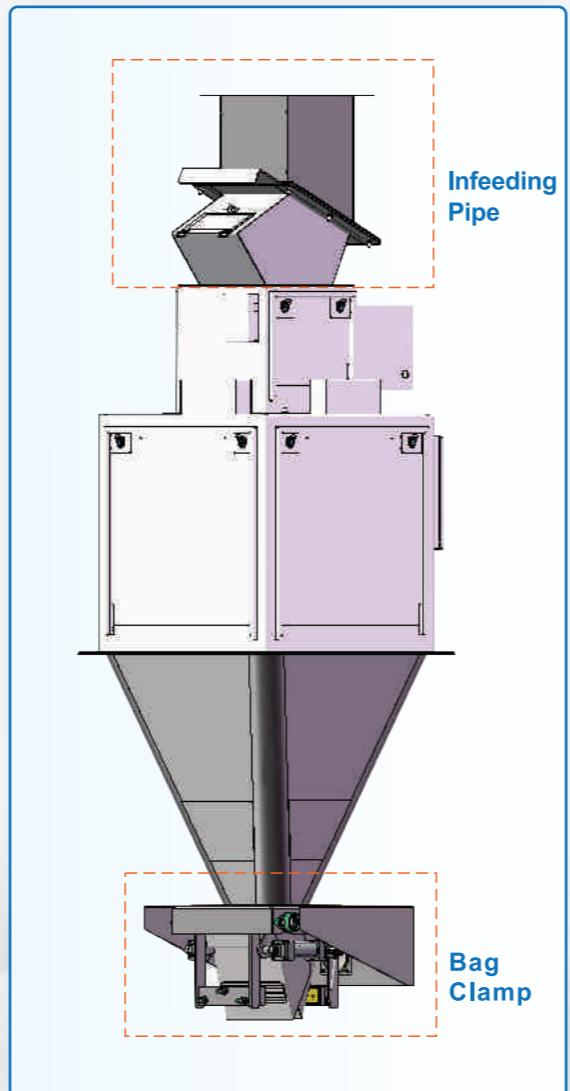
Refined key structure design makes the entire process from feeding to bagging smoother and more durable.

PaxGo Infeeding Pipe

- Provides a buffering function to ensure continuity and stability during the packaging process;
- Can cut off the material flow to allow maintenance of the packing scale;
- Equipped with an observation window for monitoring the material inside.



AF-50K/Packing Machine



Bag Clamp

- Gear surface design provides strong gripping force;
- Adjustable opening size to fit packing scales of different dimensions;
- Controlled by a non-contact proximity switch;
- Equipped with a dust removal structure to prevent dust intrusion.



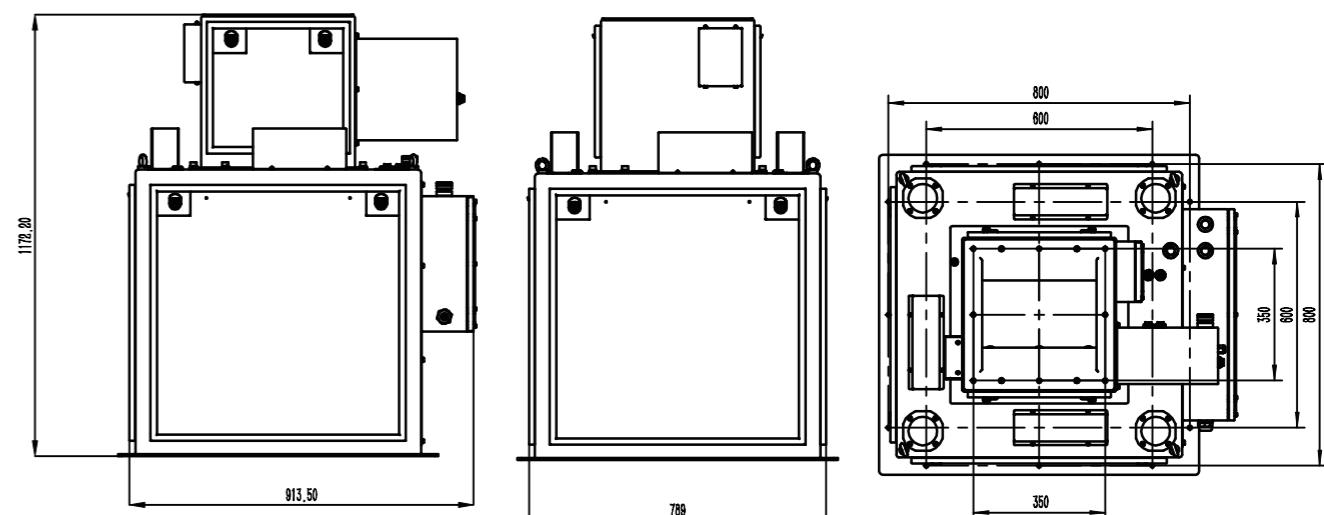
Specification

Model	PaxGO AF-50K (High-Speed Version for Fertilizer Industry)
Weighing range	10~50Kg
Division	2g
Accuracy range*	±10~25g
Top speed*	1500pcs/h
Volume	78L
Feeding method	Feeding control by servo, pneumatic discharging
Material	SS316L
I/O	8 output(5V),8 input(24V)
Communication	RS485,Modbus TCP/IP
Pneumatic	0.4~0.6MPa
Power	Single Phase AC-220V ±10%,50/60HZ,1KW
Working environment	0~40°C, 90%R.H condensation is not allowed

*Accuracy and speed depend on the material characteristics and packing weight.

Structure & Dimension

Unit: mm



*Specification and dimension may be upgraded, please consult sales manager for the latest info.