

**FORMAX<sup>®</sup>**

HERE BEGINS YOUR ULTIMATE VALUE

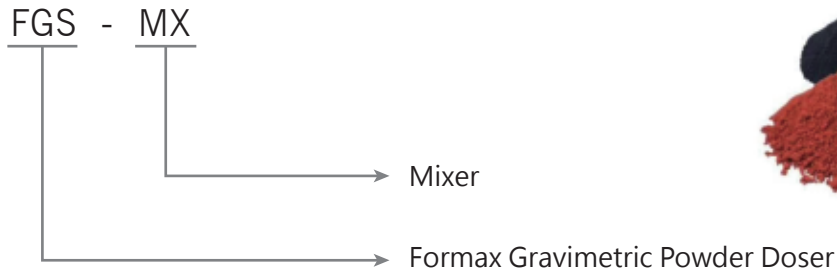
## FGS-P Series Gravimetric Powder Doser

FGS-P



Please read the brochure carefully before operation.

## ■ Coding Principle

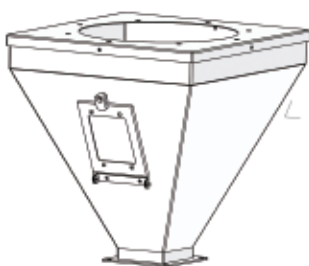


## ■ Features

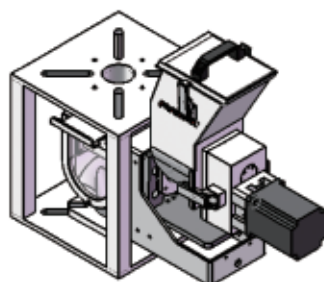
- Double spiral design for reliable dosing of non-free flowing powders.
- Agitator avoid material clogging or rat holing.
- All stainless steel and high grade polished hopper.
- Modular assembly structure,easy to dismantle, clean and interchange
- Record existing operating modes, unaffected by power outages, start running after power is restored
- With weighing function, automatic calibration, automatic monitoring of powder additive metering
- With "Ethernet communication", can transfer data, can record the same day storage
- With color difference compensation function, it can be auto regulation
- With loss-in-weight technology to meet extremely high production accuracy requirements
- With recipe storage function, up to 100 recipes can be stored
- Suitable for extruder and injection molding machine
- Stepping motor with weighing controller for accurate measurement, the accuracy is 0.1~0.5%

## ■ Options

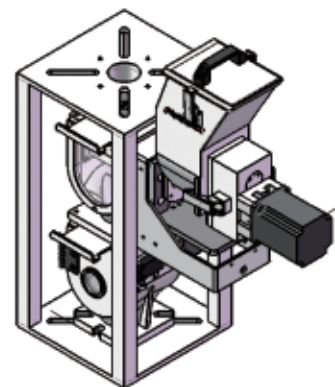
- Heavy base is optional for using with FHD-100~FHD-300.
- Optional main hopper to facilitate double mixing needs



MIH-S24



Heavy Base (optional)

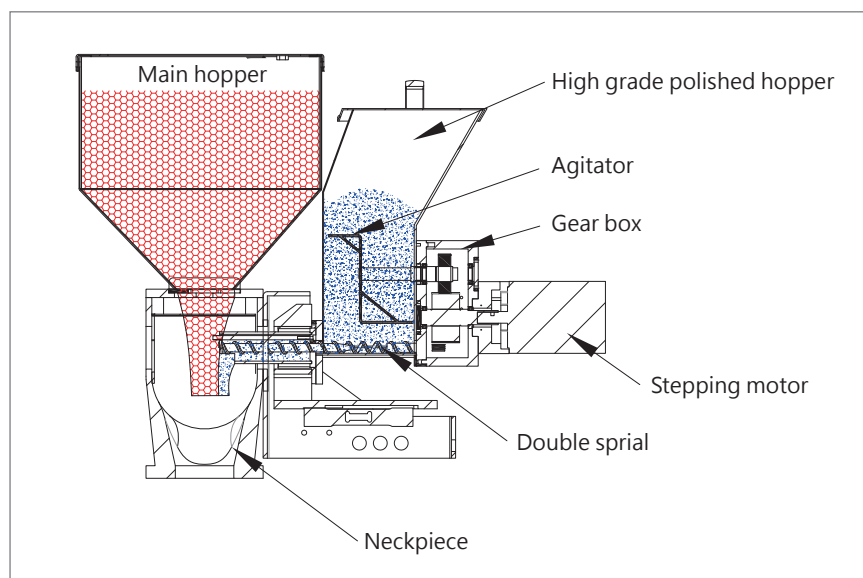


Heavy Base with Mixer (optional)

## ■ Working Principle

FGS-P measuring hopper and dosing components as a whole unit, placed on the weighing platform, the weight signal is transmitted through the meter's non-stop symmetry, calculate the change ratio of weight in unit time as instantaneous flow rate, then through various filtering techniques of hardware and software, the

actual flow can be obtained as the control object. Through Formax's self-developed controller via PID feedback compensation for approximating target, ensuring that the metering accuracy of the equipment can be achieved 0.1~0.5%

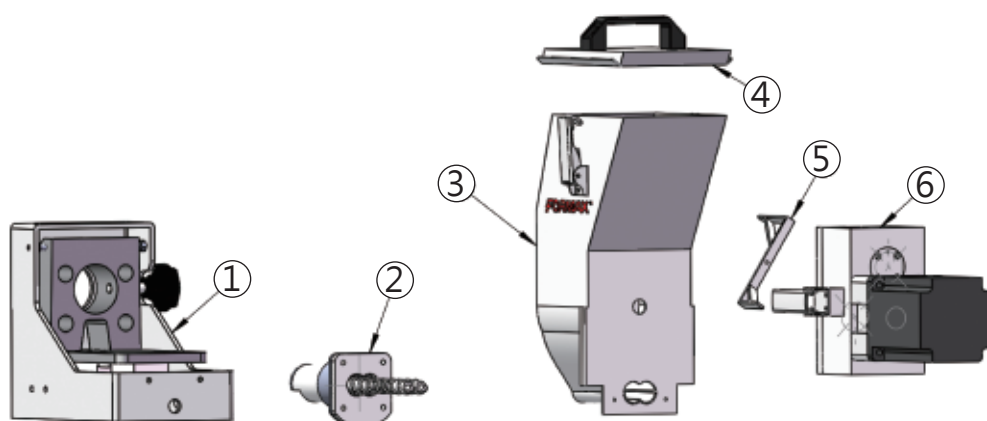


## ■ Applications

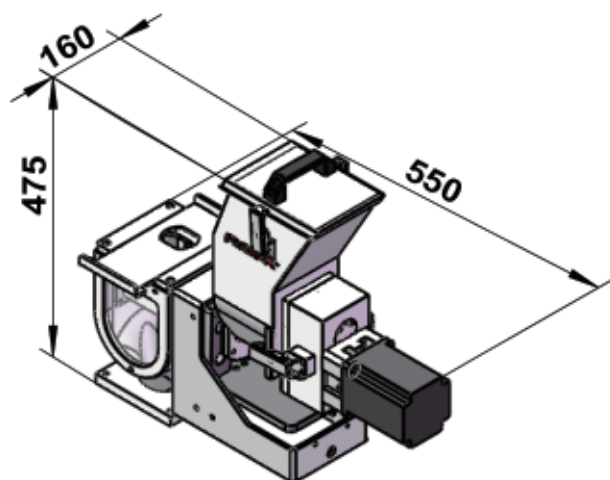
FGS-P Series suitable for automatic proportional mixing of non-free flowing powders, stepping motor for this product 0~200RPM.

## ■ Explosion Drawings

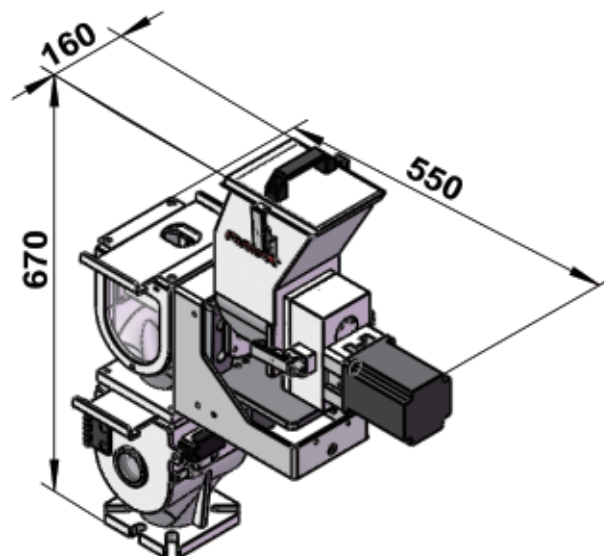
- ① Weighing Device
- ② Double Spiral
- ③ Hopper
- ④ Hopper Lid
- ⑤ Agitator
- ⑥ Motor and Gear Box



## ■ Outline Drawings



FGS-P



FGS-P-MX

Model		FGS-P
Motor Power	kW	0.2
Motor Speed	rpm	1~200
Spiral OD	mm	15
Max. Output	kg/hr	0.1~40*
Powder-Color Hopper	Ltr	4
Main Hopper Capacity	Ltr	( Optional MIH-S24 )
Mixer Motor Power	kW	0.09 ( Optional )
Mixing Chamber Capacity	Ltr	3L or ( Optional 6L )
Voltage		1Ø, 220VAC, 50/60Hz

Note : \* Output capacity base on powder bulk density 0.6kg/L

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