

Dosing and Mixing Equipment

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FGB Series Gravimetric Blenders

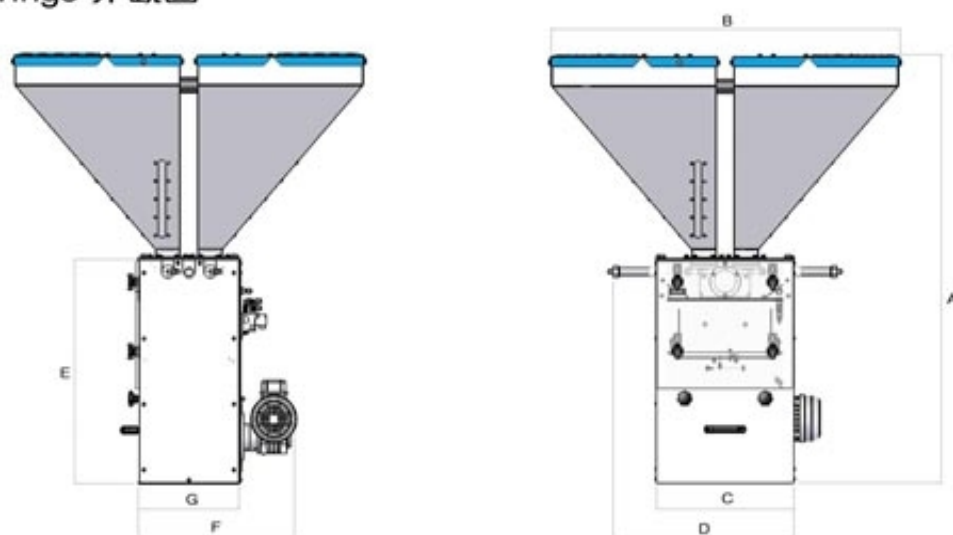
重量式自動計量機



Features 特點

- Compact, space saving and modular design. 結構緊湊，節省空間，模組化設計。
- Simple setting of required percentages and ratios. 可設定原料之間的比例或百分比，操作簡便。
- Accurate and repeatable process. 精確穩定的連續運轉計量。
- While blending the next batch is weighted. 在混合原料的同時對下一批次原料進行稱重計量。
- Self calibration. During the dosing cycle the control automatically corrects differences from the preset values.
自動調校補償功能，在配料過程中，控制器能自動修正與預設值偏差。
- Easy installation on, or next to the processing machine. 可安裝在機器上或機器旁邊。
- More flexibility because of different types of control. 多種控制方式，運用靈活性強。
- Suited as central-blender for several machines. 可同時控制多台稱重式計量機(標準型)。
- Hopper loaders of your own choice. 可配合吸料機自動補料。
- Gravimetric / volumetric mode to increase throughput. 稱重/體積生產模式增大配料能力。
- Easy cleaning of weigh pan and mixing chamber. 稱重倉和混料倉清洗簡單方便。
- Security password levels. 分級安全密碼控制(標準型)。
- More languages on the display. 多種語言供您選擇(標準型)。
- Accuracy of 1/100 th of a gram. 稱重精度1/100克。

Outward drawings 外觀圖



Slide gate:

Made in stainless steel, secured mounting double acting cylinders.

滑動門裝置：

不銹鋼材質製成，安裝有安全的雙滑動氣缸裝置。

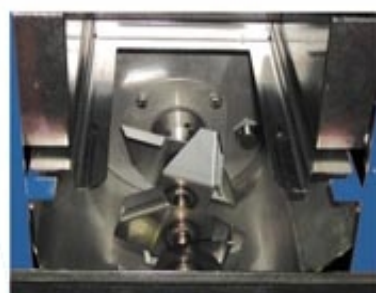


Auger feeder:

Easy clean out, removable screw, 3 phase motor.

螺桿式計量站：

拆裝清理方便，螺絲可拆換，三相電源。



Efficient homogeneous mixing chamber featuring easy access to removable scale hopper, mixer liner and mixing blade for complete clean-out. Safety switch on door assembly is also standard.

稱量倉、混料倉和原料攪拌裝置，拆卸方便、清潔便利，門上的安全開關為標準配備。

Specification 規格

Model型號	FGB-M05	FGB-1	FGB-1.5	FGB-2	FGB-5	FGB-10	FGB-25
Dimension A mm	637	775	805	1115	1261	1674	2150
Dimension B mm	446	650	697	972	972	1370	1663
Dimension C mm	167	275	250	375	375	500	650
Dimension D mm	266	395	390	492	492	620	770
Dimension E mm	331	391	424	585	735	870	1200
Dimension F mm	236	420	467	455	455	645	833
Dimension G mm	170	275	250	275	275	460	650
Weight approx. kg	25	60	60	75	85	160	185

Capacity list / 各型號輸出量：

Model型號	FGB-M05	FGB-1	FGB-1.5	FGB-2	FGB-5	FGB-10	FGB-25
Number of component	2~4	2~4	2~4	2~6	2~6	2~7	2~10
Kg/hr max.*	35~45	90~130	250~300	195~420	355~945	1200~1600	1500~2500

Note 註:

1 - The capacity is depending on number of components.最大輸出量依計量混合的原料種類多少而不同。

2 - The theoretical throughput is based on: free flowing new materials, bulk density appr. 0.7kg/L. 輸出量基於下列條件：流動性較好的新料，假密度0.7kg/L。

FLIWF Series Loss-In- Weight Feeders 系列減重式計量機



Features 特點

- Use Japan "MU Group" MUC Series Loss-In-Weight controller, feeding accuracy higher than $\pm 0.5\%$.
採用日本MU精機生產 Loss In Weight 重量控制器，計量精度可達 $\pm 0.5\%$ 。
- A/D board can accept 0~10V or 4~20mA signals from extruder screw rotation sensor.
可接受押出機0~10V或是4~20mA訊號，可與押出機連鎖控制及比例控制。
- Additional 0~10V or 4~20mA output signals which can connect to recorder.
多一組 0~10V或4~20mA OUTPUT訊號輸出，可連結記錄器。
- 24bit signal transfer, the output signals can be subdivided into 1 / 4000, more precise dosing and feeding.
獨步全球的24bit高效能傳輸計算，可將輸出訊號細分為1/4000，使計量及餵料量更精準。
- Auto P.I.D. calculation, or the manual setting individually.
可設定P.I.D.值，尋求最佳化運作。
- Special software that can link to a general PC, notebook computer, for timely monitoring, facilitate the adjustment of operating conditions.
有專用軟體，可連結一般PC，筆記型電腦，作及時監控，方便調整作業條件。
- According to different materials, user can choose different type of feeders. Like Vibration type, Single Screw type, Twin screw type or Circle feeder type.
減重式計量機，有多種送料型式可供選擇；例如：螺旋輸送式、震動式、皮帶輸送式、震動+皮帶輸送式、迴轉離心式等等。可完全依據使用不同原料特性，選擇不同送料型式。

Specification 規格

Model 型號	Throughput 處理量	Hopper Capacity 儲料桶容量	Refill 補料次數	Feeder type 餵料型式
FLIWF-010	2~10 KG/HR	6 L	1~3 次 / 小時 (times/hour)	SS、TS、V、VB、C
FLIWF-050	10~50 KG/HR	20 L	1~4 次 / 小時 (times/hour)	SS、TS、V、VB、C
FLIWF-100	30~100 KG/HR	45 L	1~4 次 / 小時 (times/hour)	SS、TS、V、VB、C
FLIWF-300	100~300 KG/HR	90 L	2~6 次 / 小時 (times/hour)	SS、TS、V、C
FLIWF-500	150~500 KG/HR	120 L	2~6 次 / 小時 (times/hour)	SS、TS、C

Remark備註：

SS : Single screw feeding type 單螺旋輸送型式

TS : Twin screw feeding type 雙螺旋輸送型式

V : Vibration feeding type 震動式輸送型式

VB : Vibration + Belt convey feeding type 震動+皮帶輸送型式

C : Circle Feeding type 迴轉離心型式

FSD Series Screw Dosers

螺桿式色母計量機



Features 特點

- Constructed of stainless steel, ensuring a long production life.
全不銹鋼材質，使用壽命長。
- Microprocessor control includes a digital readout and setting for the metering screw.
微電腦處理控制器，數位顯示及設定。
- Quick-change design, easy to change screw and sleeve.
採用Quick-change理念設計，可快速且容易更換螺桿及套管。
- The roof-shaped quick-change (the dosing section can be removed without granule leaking from the neckpiece), large opening on the side of the neckpiece, large window and improved static blending.
計量站可以從承接座拆除而不會漏料，在承接座側邊附可視窗裝置，容易觀察原料。
- Electrical circuit built to comply with CE safety requirement.
符合CE安全要求的電路迴路。

Options 選購配備：

- Customer screw and sleeves can be manufactured upon request.
可依客人需求製作之螺桿及襯套。
- Special polished treatment for optical parts upon request.
可對光學零件進行拋光處理。
- Level sensor in dosing hopper.
在計量料斗中裝置料位感應器。



The removable Microprocessor Control.
移動式的微電腦控制器。



The transition neckpiece can be equipped with quick connection adapter plates.
承接座側邊可視窗裝置，容易觀察原料。

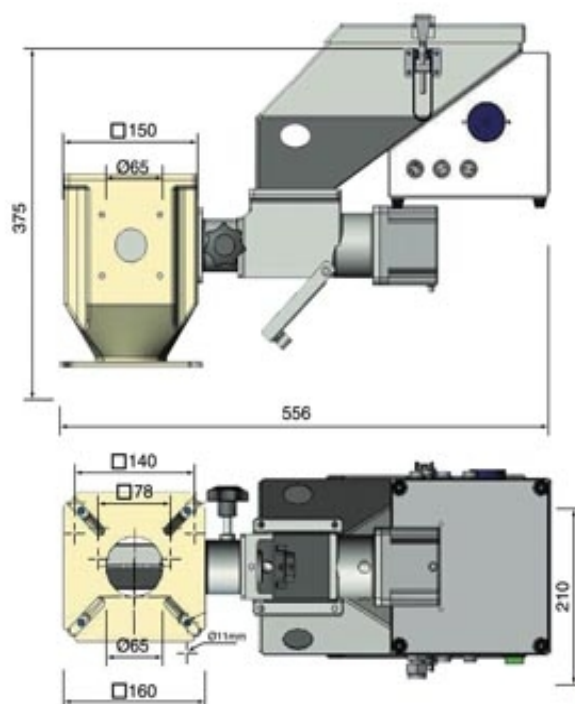


Screw / Sleeves Sets.
精密的計量螺桿及襯套組。

Technical Features 技術特點

Control 控制	Microprocessor with digital display 微電腦控制器及數位顯示
Input signal 輸入信號	Potential free contacts / 24VDC contacts / Tacho input voltage 電壓的任意接點 / 24VDC接點 / Tacho輸入電壓
Motor 馬達	Accurate stepping motor (brush less) 精確的步進馬達
Injection molding 射出機	Jog mode and continue mode 寸動模式及連續模式
Extrusion 押出機	Jog and synchronic mode 寸動模式及同步模式
Hopper 料斗	Stainless steel 6 liter 不銹鋼 6L
Volt / frequency 電壓 / 頻率	220 Volt / 50-60Hz

Dimensions 尺寸圖



Specification 規格

FSD40	Screw / Sleeves 螺桿 / 套管	Grams / Hr 克 / 小時
	5/6	0~175
	6/13	0~1200
	9/16	0~4200
	12/19	0~9000
	15/22	0~16000
	18/25	0~23000
	21/28	0~28000

50B/150B/500B Series Volumetric Blenders 體積式自動計量機(批次式)

This series of 50B/150B/500B Volumetric Blender is suitable for batch processing with additive in either granule or power form. It will support material throughput of injection molding machines up to 400 kg per hour. The 50B/150B/500B series is capable of processing up to 3 different additives, the main component flows directly into the mixing bowl and then additives are metered proportionally according to the shot weight and are then mixed with the raw material together to achieve a homogenous blend. The corrosion-free mixing motor and stainless steel mixing arm ensure greater reliability and longer service life. With level sensor probe in metering hopper, it is easy to monitor the level of material at all time.

50B/150B/500B 系列經濟型體積式計量機適用顆粒或粉末狀的添加進行批次計量，依注塑機的總用料量，計量機的輸出量可達400公斤/小時。50B/150B/500B 系列體積式計量機最多可以對三種不同的添加劑進行計量，主原料被直接輸送進入攪拌筒，然後根據每種用料量，按比例添加計量送入攪拌筒，與主原料攪拌筒中混合均勻。攪拌馬達配合不銹鋼攪拌臂和不銹鋼攪拌筒能保證較高的可靠性和較長的使用壽命。在計量筒上有料位感應器(選購配件)，可隨時監控料位狀況，並提供缺料警報。



There are three model types available 有三種型號可供選擇:

- 50B : Max. throughput 50 kg/hr
- 150B: Max. throughput 120 kg/hr
- 500B: Max. throughput 400 kg/hr



Masterbatch 色母

The free-flowing pellet materials as the colorants or additives. 流動性好的粒狀原料，做為色料或添加劑。



Powder 色粉

The non-free-flowing materials, like pigment, CaCO₃, Talc, etc. 流動性較差的粉狀原料，如色粉、碳酸鈣、滑石粉等。



Regrind 粉碎料

It is recycle materials after crushed. 粉碎後的回收原料。

TS Control 控制器：

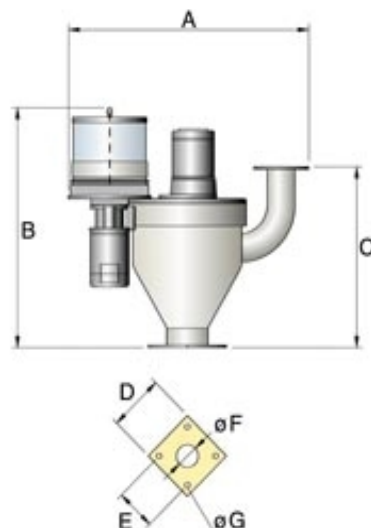
This is simple non-communicative Time-Step control is designed for processing 1 additive only, and is depending upon machine cycle time. (CT-100B Control for processing 3 additives is by option)

非通訊式時間步進控制器，能根據成型機的成型周期時間計量一種添加劑。(另可選購CT-100B型控器可以達到對三種添加劑進行計量。)

Specification 規格

Series 系列		50B	150B	500B
Max. throughput	最大輸出量 Kg / Hr	50	120	400
Shot weight	射出重量 Gm	300	1200	4000
Metering accuracy	計量精度 %	0.05~2 / 1 min. Metering time (Depending on the material shape)		
Voltage, three-phase	三相電壓 V	220 / 380		
Power requirement	所需電壓 Kw	0.5~1 (60hz)		
Dimension A	尺寸A mm	575	662	890
Dimension B	尺寸B mm	580	640	880
Dimension C	尺寸C mm	442	482	677
Dimension D	尺寸D mm	152	152	204
Dimension E	尺寸E mm	110	110	152
Dimension F	尺寸F mm	60	60	100
Dimension G	尺寸G mm	14	14	14
Weight, approx.	重量 Kg	35~50	45~60	75~100

Dimensions 尺寸圖



150/500 Series Volumetric Blenders 體積式自動計量機(連續式)



There are two model types available
有二種型號可供選擇:

- 150: Max. throughput 120 kg/hr
- 500: Max. throughput 400 kg/hr

This series of 150/500 volumetric blender is suitable for continuous processing with additives in either granulate or powder form. It will support material throughput of processing machine up to 400 kg per hour.

The 150/500 series has been designed for precisely metering and mixing up to 4 components. Into the mixing bowl, these are mixed together to achieve a homogenous blend. The corrosion-free mixing motor and stainless steel mixing arm ensure greater reliability and longer service life. With level sensor probe in metering hopper, it is easy to monitor the level of material at all time.

150/500系列體積式計量機適用於連續計量顆粒狀或粉末狀的加劑。輸出能力可達400公斤/小時。150/500系列產品的設計可精確計量和混合多達4種不同的原料。在混料筒內，各種材料被充分攪拌得到均勻的混合料，馬達配合不銹鋼攪拌臂，和不銹鋼攪拌筒提供優良的可靠性和較長的使用壽命。在計量筒上有料位感應器(選購配件)，可隨時監控料位狀況，並提供缺料警報。



"MG" metering unit for free-flowing pellets, granulate or powders.
"MG"型計量站，用於計量流動性好的顆粒狀或粉狀添加劑。



"MP" metering unit of non-free-flowing powders.
"MP"型計量站，用於計量非流動性的粉狀添加劑。

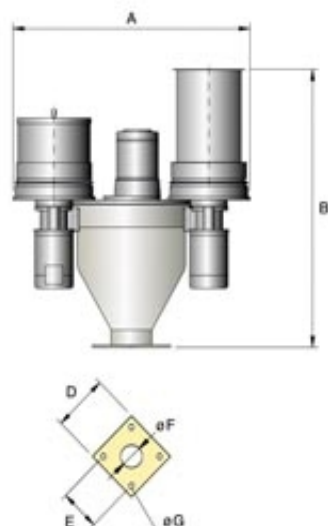


Mixing motor and stainless steel mix arm.
攪拌馬達和不銹鋼攪拌臂。

CT-100 Control 控制器：

This sophisticated communicative control is capable for processing up to 4 components. It offers up to 100 recipes which are permanently stored in the memory.
高精密的通訊式微電腦控制器由德國原裝進口，可以同時處理4種原料。記憶體中可永久存儲多達100多種配方，以供選用。

Dimensions 尺寸圖



Specification 規格

Series 系列			150	500
Max. throughput	最大輸出量	Kg / Hr	120	400
Shot weight	射出重量	Gm	1200	4000
Metering accuracy	計量精度	%	0.05~2 / 1 min. Metering time (Depending on the material shape)	
Voltage, three-phase	三相電壓	V	220 / 380	
Power requirement	所需電壓	Kw	0.5~1 (60hz)	
Dimension A	尺寸A	mm	655	868
Dimension B	尺寸B	mm	738	880
Dimension D	尺寸D	mm	152	204
Dimension E	尺寸E	mm	110	152
Dimension F	尺寸F	mm	60	100
Dimension G	尺寸G	mm	14	14
Weight, approx.	重量	Kg	70~130	120~180

CPV Range Proportioning Valves 新次料比例閥

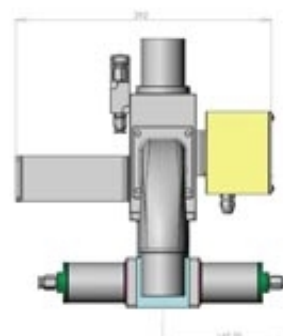
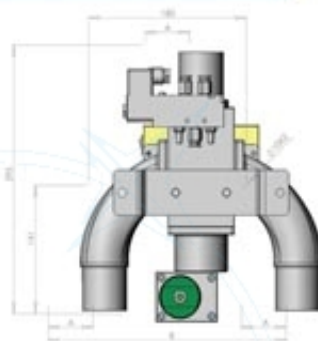
The CPV Two-component Proportioning Valve is designed to convey virgin and regrind material. For this application, regrind material is fed back via a granulator located beside the process machine. The CPV valve reduces labor cost and eliminates the possibility of cross contamination by automating the feeding of the virgin and the regrind materials.

新次料比例閥是專門為輸送新料和次料而設計的。利用本裝置，澆口、澆道及料頭可以被安裝在成型機旁的粉碎機粉碎成為粒狀次料供料，而直接被重新利用。本裝置大大減少了人工成本，自動把新料和次料供料給成型機，避免因人工供料過程所造成的污染。



Dimensions 尺寸圖

Dimension 尺寸	A	B
CPV-40	38	257
CPV-50	50	270
CPV-65	65	283



AVM & AHM Series mixers 混合機



AVM & AHM Series Mixer is designed to save labor costs, high efficiency, and high quality production. It makes the material color well-mixed.

AVM & AHM 系列混合機可減少人力，提高工作效率，提高產品品質，使塑膠品色彩更均勻。

Features 特點

- Full stainless steel hopper and stainless steel mixing vane, high strength & easy to clean. 全不銹鋼桶及攪拌葉，清洗容易，避免鏽蝕。
- Installed with castor steel & vertical designed, small occupation and easy to move. 四輪直立式設計，少占空間，移動方便。
- Safety protection and power multiple protection system. 設有安全保護裝置及電源連鎖保護系統。
- Motor overload protection. 馬達超載保護裝置。
- Mixing timer is able to set within 0~30 minutes. 計時器可設定0~30分鐘混料時間。
- Full SUS304 stainless steel mixing vane, adopt overlapping two layers design. 全不銹鋼SUS304葉，採用上下重疊雙層式設計。

Specification 規格

Model 型號	Power 功率/HP	Capacity 混合量 (kg)	Rotating speed 轉速 (r/min)	Net weight 淨重 (kg)	Dimensions 外型尺寸 (LxWxH)
Vertical type / 立式					
AVM-50	2	50	85	160	895x895x1075
AVM-100	4	100	85	260	1035x1035x1225
AVM-200	7.5	200	85	330	1200x1200x1400
AVM-300	10	300	85	410	1400x1400x1520
Horizontal type / 臥式					
AHM-100	3	100	58	270	1070x940x1320
AHM-150	5	150	58	320	1500x1165x1355