



## Plastic Volumetric Doser

Plastic Volumetric Doser: Aumax CM Series Volumetric Metering Plastic Masterbatch Dosing Unit is suitable for automatic proportional metering and feeding of new and inferior materials, masterbatch or additives in plastic molding production. This series of models uses high-efficiency DC brushless motors. According to the pre-set addition ratio and parameters,

the all-digital microcomputer control system automatically converts the set conditions into rotational speed, and drives the stainless steel 304 precision metering screw through the coupling to the injection molding machine or extruding (calendering) The material that needs to be added is spit out from the sol tube. For example: color masterbatch, recycling (nozzle) materials, additives, etc. The error value is not higher than 1%. The product has two modes, which are suitable for plastic injection and extrusion molding; the metering screw is divided into 8, 12, 16, 20, 24, etc., and the DC brushless motor has different collocations High-efficiency parallel gear reducer with reduction ratio. It can derive a variety of models such as double-station and multi-station measuring machines, and provide different output volumes of 0.1-100kg/h for customers to choose. According to the needs of users, it can meet the needs of different occasions and different fields.

## Plastic Volumetric Doser

### 1. Plastic Volumetric Doser Introduction

Aumax CM Series Volumetric Metering Plastic Masterbatch Dosing Unit is suitable for automatic proportional metering and feeding of new and inferior materials, masterbatch or additives in plastic molding production. This series of models uses high-efficiency DC brushless motors. According to the pre-set addition ratio and parameters, the all-digital microcomputer control system automatically converts the set conditions into rotational speed, and drives the stainless steel 304 precision metering screw through the coupling to the injection molding machine or extruding (calendering) The material that needs to be added is spit out from the sol tube. For example: color masterbatch, recycling (nozzle) materials, additives, etc. The error value is not higher than 1%. The product has two modes, which are suitable for plastic injection and extrusion molding; the metering screw

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## 2. Plastic Volumetric Doser Parameter (Specifications)

Name	Single Dosing Unit					Double Dosing Unit		
Model	CM30-24	CM30-20	CM30-16	CM30-12	CM30-08	CM-D30/30	CM-D30/50	CM-D50/50
Motor Power (W)	30	30	30	30	30	30×2	30×2	30×2
Motor Speed (rpm)	3000	3000	3000	3000	3000	3000	3000	3000
Mixing Base	Optional (90W)					Optional (90W)		
Screw Diameter (mm)	24	20	16	12	8	*	*	*
Output(kg/h)	0.8~38	0.4~20	0.2~10	0.1~3	0.08~1.5	**	**	**
Hopper (L)	12	12	12	12	12	12×2	12×2	12×2
Reducing Ratio	30	30	30	30	30	30 / 30	30 / 50	50 / 50
Dimensions:								
H mm	420	520	520	520	520	615	615	615
W mm	550	610	610	610	610	1045	1045	1045
D mm	295	335	335	335	335	335	335	335
Weight (kg)	20	20	20	20	20	38	38	38

Please excuse for not note if some specifications of products are changed.

Note: The standard power supply is 1Ø 220V 50/60Hz. Other power supply is available.

## 3. Plastic Volumetric Doser Features & Application

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- 1)The use of DC brushless motor, no maintenance, with screw material jam, voltage under-voltage, over-voltage, over-current, disconnection protection, to ensure the continuous normal operation of the machine.
- 2)The controller has a permanent memory and storage function of 50 sets of data, which is convenient for managing molding conditions and formulas.
- 3)The volumetric dosing unit doser machine can meet the dry contact and voltage of the injection molding machine, the extruder 0-5V, 0-10V, 4-20MA, 0-20MA, frequency, digital and other signal inputs, covering almost all plasticization signals of plastic molding equipment ( (Need to inform the signal type in advance).
- 4)Modular assembly structure, convenient disassembly and assembly, and quick replacement of materials.
- 5)Optional material level detection sensor can be equipped with material shortage alarm.
- 6)Optional mixing base to ensure uniform mixing of materials.
- 7)Optional RS485 communication synchronization operation.
- 8)The volumetric masterbatch doser can accelerate and decelerate synchronously with the main screw of the extruder (calender).
- 9)The unique compensation optimization concept of the controller ensures that the metering of additives is always accurate.
- 10)Offline simulation function, during equipment debugging, you can quickly adjust additives to the ideal weight, reduce material loss during debugging, and greatly reduce manpower and plastic material consumption during refueling and debugging.
- 11)The special mode that can be used with chemical fiber monofilament and filament spinning equipment can ensure that the speed of each melt metering pump of the

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spinning equipment can be adjusted at will and always ensure the addition of high stability additives.

12)The special controller with extended functions can be equipped with a weighing control module to realize the digital control of the proportion of added materials and to ensure the accuracy of measurement to a greater extent.

13)The reinforced mounting base with optimized and improved design of the blanking mechanism ensures that a large amount of color masterbatch can be used normally, even if it is a large amount of recycled materials, it can also be adapted. Long AC10 186-284V wide voltage input.

#### 4. Product Qualification

Aumax Plast has been focusing on R&D and manufacturing of plastic recycling machine and auxiliary equipment for injection molding machine, blowing molding machine and plastic extrusion line for more than 15years.

We have obtained various domestic and foreign certifications such as ISO9001, ISO14001, CE, etc., which fully demonstrates that our products fully comply with international standards and the quality of products is guaranteed.



#### 5. Delivery, Shipping and Serving

Normally, the delivery time of our plastic machines is 10-20 days after order confirmed and advance payment. All of Aumax volumetric plastic doser machines are packed in corrugated cases. Usually, we ship large machines by LCL or FCL ocean shipping. Sometimes, customers need machine urgently, we ship machine by air or express.

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**Packing:**



**Shipping:**



Sea Transportation



Air Transportation



Express

## 6. FAQ

**1. Q: What is the MOQ?**

A: The MOQ is 1 set for all products..

**2. Q: Where is the loading port?**

A: The nearest port to our factory is port of Ningbo, China, as well as we can send machine to Yiwu, Shanghai, Guangdong or any other cities in China.

**3. Q: What are the payment terms?**

A: The preferential payment term is T/T, while other payment terms are negotiable.

**4. Q: What are your terms of delivery?**

A: We accept FOB, CFR, CIF, EXW, and DDU. You can choose the terms which is the most convenient and cost effective to you.

**5. Q: How does your factory carry out quality control?**

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A: Powerful R&D teams and professional QC department take care of every detail during design, processing, assembling, testing and packing.

**6. Q: Can you supply OEM and customized products?**

A: Yes, we can supply OEM / ODM service. Our engineers have rich experience in design and production of plastic auxiliary equipment. We can supply special products according to your ideas and drawings.

**7. Q: What about warranty terms?**

A: We provide one year warranty for all of our products. During warranty period, if any machine parts damaged due to quality, we will send the new parts by courier immediately by free of charge. Also, we supply 24 hours online service and technical support.

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