

Quantitative Supercritical Inert Gas Feeder

# 超临界非活性气体定量加注装置

## 非活性气体发泡的理想选择 精密定量加注装置

The Perfect Choice of Inert Gas Precision Quantitative Feeder System

## 适用于挤出成形和注塑成型

For Extrusion and Injection Molding



**PLASTECO**  
株式会社普勒斯太科



# 新型!!

New Model Now Available

- 比以前的型号更小，更轻  
Smaller and Lighter compared to the previous model
- 配备 12 英寸大屏幕触摸屏  
Equipped with a 12-inch large screen touch panel
  - 减少屏幕切换，缩短工作时间  
Shorten work time by reducing screen transition
  - 可同时显示更多信息  
More information can be displayed at the same time
- 与各种成形机的数据联锁，可以精密控制气体量的加注  
Through interlocking data with various molding machine precision control of gas feeder is possible



二氧化碳定量加注装置  
CO2 Quantitative Gas Feeder



氮气定量加注装置  
N2 Quantitative Gas Feeder

精密稳定的高压气体加注技术对超临界发泡塑料成形至关重要。  
Indispensable for supercritical foam molding Precise and Stable High-Pressure Gas Feeder Technology

在使用 CO<sub>2</sub> 或 N<sub>2</sub> 进行发泡成形时，CO<sub>2</sub> 或 N<sub>2</sub> 加注量的微小变化都会导致发泡直径和发泡状态的急剧变化。此外，使用基于压力控制的传统泵时，供气量会因注塑机气体注入部分的压力变化而波动。

普勒斯太科的超临界非活性气体定量装置可将进料量控制在恒定水平，进料压力自动跟随目的地的压力，从而始终精密控制进料量，实现均匀、精细的发泡成形。

此外，通过与挤出机和注塑机（可选）的数据连接，精密控制气体的添加量，可以稳定发泡比例，减轻成形产品的重量。

它的应用范围很广，从小型造型机的小流量到大型造型机的大流量，以及 RIM 造型和非发泡应用。流量控制，高压和其他选项可用于各种应用。

During foam molding with CO<sub>2</sub> or N<sub>2</sub>, slightly change in supply amount will drastically change the foam diameter and the state of the foaming. Using the conventional pressure control pump, the supply amount fluctuates according to the changes in the pressure of the gas injection section of the molding machine.

Plasteco's Quantitative Supercritical Inert Gas Feeder control the supply amount to a constant level and ensure the supply pressure automatically follow the pressure at the destination, always enabling the precise control of the supply amount, resulting in uniform, fine foam molding. Furthermore, interlocking data to extrusion or injection molding machine (optional), it's possible to stabilize the foaming ratio and reduce the weight of the molded product.

It can be used for a wide range of applications, from small flow rates for small molding machines to large flow rates for large molding machines, as well as RIM molding and non-foaming machines. Other options such as flow control and high-pressure are also available, making it suitable for a wide variety of applications.

# 屏幕操作

Screen Operation

12 英寸彩色液晶垂直触摸屏，大屏幕操作，简单易懂。

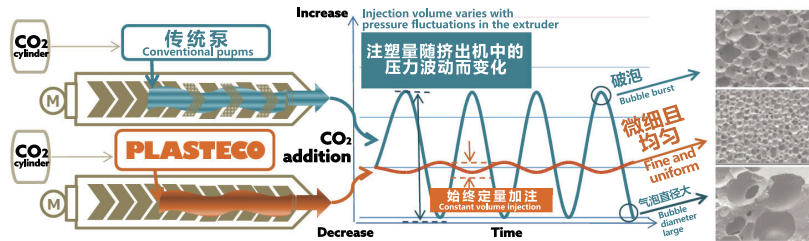
Large screen operation and easy to understand with 12-inch color LCD vertical touch panel.



每个仪器监视器，加注量趋势图显示，报警历史显示等。  
Each device monitors, trend graph displays of supplied amount, alarm history display, etc.

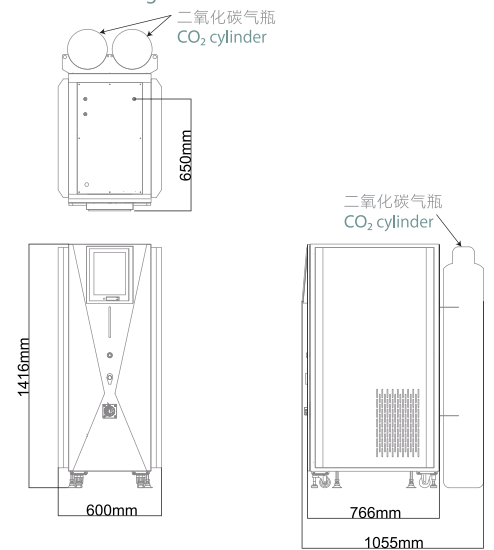
CO<sub>2</sub> 和 N<sub>2</sub> 在树脂中的溶解度很低，即使加注量的微小波动也会对发泡产生重大影响。使用传统的压力控制泵时，造型机内的压力波动会导致供料量波动。普勒斯特科的超临界非活性气体定量加注装置无论注射压力如何，都可以控制加注质量恒定可始终保持稳定的发泡状态。

CO<sub>2</sub> and N<sub>2</sub> have low solubility in resin, and even small fluctuations in supply volume have a large impact on foaming. With conventional pressure-controlled pumps, pressure fluctuations in the molding machine can cause fluctuations in the supply volume. Plasteco's Quantitative Supercritical Inert Gas Feeder always keeps stable foaming by controlling the supply mass at constant level regardless of the injection pressure.



与传统泵的比较  
Comparison with conventional pumps

## 外形图 (SFC-20N, SFC-100N) Outline Drawings



## 基本规格 Basic specifications

	SFC - 20N	SFC - 100N	SFC - 300	SFN - 10N	SFN - 40N	SFN - 80N
商品名 Product	二氧化碳定量加注机 CO <sub>2</sub> Quantitative Gas Feeder			氮气定量加注机 N <sub>2</sub> Quantitative Gas Feeder		
加注气体 Gas Type	CO <sub>2</sub>			N <sub>2</sub>		
钢瓶 Cylinder	带虹吸管的液态二氧化碳气钢瓶 (3.5-10MPa) Liquid Carbon Dioxide Cylinder with a siphon (3.5 - 10MPa)			带虹吸管的液态氮气钢瓶 (3.5-10MPa) Nitrogen cylinder (3.5 - 10 MPa)		
加注量 Injection Volume	0.2~20(g/min)	1~100(g/min)	3~300(g/min)	0.2~10(g/min)	1~40(g/min)	1~80(g/min)
加注压 Pressure	MAX 15MPa			MAX 15MPa		
泵 Pumps	无脉动柱塞泵 Pulseless plunger pump			高压增压泵*1 Hydrostatic booster pump*1		
流量计 Flowmeter	质量流量计 Mass Flowmeter			质量流量计 Mass Flowmeter		
控制系统 Control System	自动 质量反馈控制 Automatic Mass feedback control 手动 恒量供给控制 Manual Constant volume feed control			自动 质量反馈控制 Automatic Mass feedback control 手动 恒量供给控制 Manual Constant volume feed control		
加注精度 Accuracy	± 1.0% (f.s.)以下 Less than ±1.0% (during F.S. circulation operation)			± 1.0% (f.s.)以下 Less than ±1.0% (during F.S. circulation operation)		
稳定电路 Stabilization Circuit	内置自循环回路 Built-in self-circulation loop			内置自循环回路 Built-in self-circulation loop		
控制面板 Control panel	12 英寸彩色触摸屏 12' color touch panel			12 英寸彩色触摸屏 12' color touch panel		
尺寸 Dimension	W600 × D766 × H1416※ ※H1931 为至警示灯顶部尺寸 ※H1931 to the top of the signal tower		W850 × D1000 × H1585※ ※H2100 为至警示灯顶部尺寸 ※H2100 to the top of the signal tower	W600 × D766 × H1416※ ※H1931 为至警示灯顶部尺寸 ※H1931 to the top of the signal tower		
电压 Voltage	单相220V			单相100V ~ 240V		
电源 Power supply	1kVA	2kVA	5kVA	1kVA		
可选项 Options	①交替电压支持 Alternate Voltage support ②高压规格 (最大25MPa) High-pressure specification (Max. 25MPa) ③警示灯 (带蜂鸣器) Patlite (with buzzer) ④通过外部输入自动跟踪给料量 Auto-adjusting mechanism of discharge volume by external input ⑤CO <sub>2</sub> / O <sub>2</sub> 浓度报警传感器 CO <sub>2</sub> /O <sub>2</sub> sensor ⑥高精度控制 High-precision control			①交替电压支持 Alternate Voltage support ②高压规格 (最大25MPa) High-pressure specification (Max. 25MPa) ③警示灯 (带蜂鸣器) Patlite (with buzzer) ④通过外部输入自动跟踪给料量 Auto-adjusting mechanism of discharge volume by external input ⑤CO <sub>2</sub> / O <sub>2</sub> 浓度报警传感器 CO <sub>2</sub> /O <sub>2</sub> sensor ⑥高精度控制 High-precision control		

\*1 驱动压力: 压缩空气0.7MPa以上的无油空气  
\*1 Driving pressure: Compressed air 0.7MPa or more oil-free air

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