

Accurate Gravimetric Dosing

Homogeneous Mixing

Conair's Grado Adroit gravimetric batch blender is capable of batch dosing for 2-6 components, in a minimal amount of space. Designed with the blown film industry in mind, the fully modular construction and self-supporting structure make the Grado simple, yet robust for the most rigorous processes. The transparent front door allows you to watch the homogeneous mixing of your materials.

Material changes are quick, with drain spouts incorporated into each ingredient feed hopper. Clean-out doors and the round-bottom mixing chamber ensure that complete clean out of the machine is nearly effortless.



Model GA 880

Hi-capacity; Small Footprint for Blown Film Applications

The Grado Adroit utilizes a "mixer on load cell" build, which provides extremely precise extruder throughput measurement and control. These load cells are part of a high-resolution weighing system, which maximizes analog accuracy, reduces weighing cycle time, and increases throughput capacity over time as the control learns the material and process.

An integrated loading system control and gravimetric extrusion control means that the Grado Adroit control can manage more of your process, from one location.

Very versatile, the Grado can be mounted on the machine throat, a mezzanine, or a floor stand. Installation is quick, thanks to the integrated power and communications wiring. Mount the blender in place, make your main power connection (and any necessary OPC Ethernet, or TPC/IP communications connections), and any material line connections, and you're ready to test the installation.

▶ Fast material changeovers

A round-bottom mixing chamber and drain spouts on each ingredient hopper allow for quick cleaning and restart after material changes. The optional Graviclean feature adds automatic cleaning functions to empty the dosing valves. This option is ideal for applications where frequent process changes are common.

▶ Intelligent learning

The Grado control features proprietary software that is constantly learning. Batch after batch, the blender adjusts and learns the process and material. This allows for higher throughputs, faster weighing cycle time, and more accurate measurements with each batch.

▶ 2-6 ingredient hoppers

The Grado is available with 2 to 6 ingredient hoppers. From 440 lbs/hr to 2860 lbs/hr, each model size is available with 2-6 components for your application needs.

▶ Food-grade materials and finishes

Conair's Grado Gravimetric Batch Blender has food-grade materials and finishes, making sure that all the resin contact surfaces are easy to clean and maintain.

Specifications

Blender		GA440					GA880					GA1760					GA2860				
Max throughput lbs/hr {kg/hr}		440 {200}					880 {400}					1760 {800}					2860 {1300}				
Blender model		442	443	444	445	446	882	883	884	885	886	1762	1763	1764	1765	1766	2862	2863	2864	2865	2866
Loading control option		2	3	4	5	6	2	3	4	5	6	2	3	4	5	6	2	3	4	5	6
Dimensions																					
A- height above mounting plate inches (mm)		41.92 {1,065}					48.62 {1,235}					64.57 {1,640}					80.71 {2,050}				
B- mounting width inches (mm)		12.21 {310}					13.39 {340}					15.55 {395}					20.08{510}				
C- overall width inches (mm)		34.92 {887}					34.92 {887}					37.21 {945}					50.43 {1,281}				
D- depth		28.35 {720}	30.32 {770}	32.28 {820}	28.35 {720}	30.32 {770}	32.28 {820}	28.35 {720}	32.28 {820}	33.22 {920}	39.37 {1,000}	43.70 {1,110}	48.03 {1,220}								
Blender - Empty lbs(kg)		165-232 {75-105}					177-265 {80-120}					243-375 {110-170}					441-644 {200-292}				
Blender - Full lbs(kg)		209-342 {95-155}					254-452 {115-205}					397-772 {180-350}					728-1371 {330-622}				
Receivers 0.35ft3 - Empty lbs (kg)		66-198 {30-90}																			
Receivers 0.35ft3 - Full lbs (kg)		88-265 {40-120}																			
Flow control valve lbs		24 {11}										38 {17}					66 {30}				
Ambient temperature		Minimum 41°F. Maximum 104°F. {+5° C to +40°C}																			
Ambient humidity		Min 5%, Max 95%, condensation free																			
Material temperature		Minimum 41°F. Maximum 104°F. {+5° C to +40°C} High heat version: Max 320°F {160°C}																			
Compressed air requirements		87-116 psi {6-8 bar} dry, not lubricated and filtered (50µm filter recommended)																			
Air consumption		<5 CFM {<5nl/min}																			
Power supply		480 V/ 3PH,/60Hz (different power supply available upon request)																			
Full Load Amps [§]		1.35					1.35					1.8					2.3				
Noise - empty		73 dB																			
Noise - with PE resin		64 dB																			

Specification Notes

* Maximum throughput rates are based on 35 lb/ft³ pelletized material, using all standard valve sizes. .

§ FLA data for reference purposes only. Does not include any options or accessories on equipment. For full FLA detail for power circuit design of specific machines and systems, refer to the electrical diagrams of the equipment order and the nameplate applied to the machine.

Specifications may change without notice. Consult with a Conair representative for the most current information.

