

Brief Description

The CGA Series gravimetric batch blending system features precision auger metering of all ingredients. They should be used if more than one regrind is required, or when difficult and hard-to-meter materials will be used.

Each CGA blender features machines metering augers, precision load cells, cast aluminum feed auger assemblies and heavy-duty industrial design. The CGA Series offers superior batch control and reliable feeding of difficult materials.

CGA Series Batch Weigh Blenders

All CGA Series Batch Weigh Blenders include these common features:

- Mitsubishi PLC-based control system with PanelView touch screen interface and 8' cable
- Spun material supply hoppers
- Precision auger feeding of all materials with constant speed AC gearmotor-variable speed DC optional
- "HC" mixer design promotes homogeneity (012 & 060 models)
- OptiMixer on 002 model
- Precision 1/10% span-accurate offset cantilever load cell
- Convenient compressed air clean-out hose with blowoff tool included
- Machine-mount standard; optional aluminum spool mounting flange with drain port is available
- Serial printer port
- Drain tube below each feeder housing – for quick drain of material supply hoppers
- Target versus actual set point verification
- English or metric display
- Safety-interlocked access that shuts off both air supply and electricity if blender is opened
- Alarm output (115 V)
- *Three (3) types or recipe entry procedures available to user:*
 - ◆ Percentage recipe entry. Ingredients metered as a percentage of the batch.
 - ◆ 6-component "EZ" mode recipe entry. Color and additives metered as a percentage of the virgin.
 - ◆ "Parts" mode ratio recipe entry (i. e. 500:1)
- Hopper lids arranged for Colortronic receivers and loaders (Standard cutout for non-Colortronic loaders at no charge if drawings are provided.)

Model CGA-012 Blender (with standard "HC" Style Mixer)



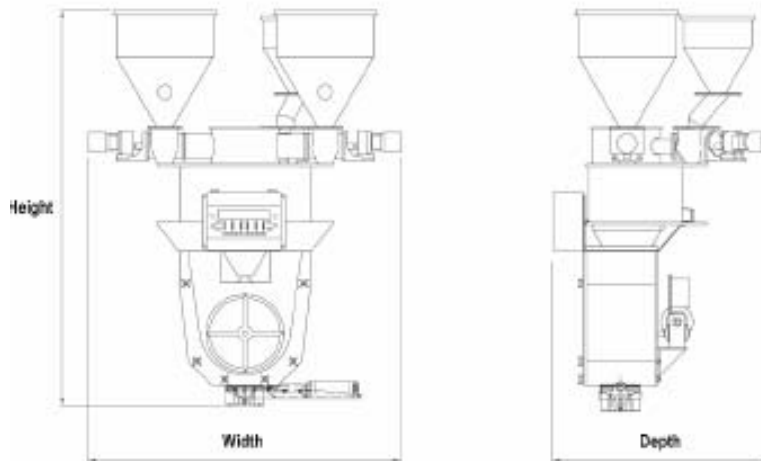
CGA Series Batch Weigh Blender Model Availability

Model	CGA-002	CGA-012	CGA-060
Approximate blending rate, lbs./hr. (kg/hr) ①	100 (45)	400 (180)	3,000 (1,360)
Number of materials blended	2 to 4	2 to 6	2 to 6
Supply hopper capacity in cu. ft. (l)	0.2 (5)	0.9 (25)	2.0 (56)
Weigh hopper capacity in cu. ft. (l)	0.10 (2.8)	0.17 (4.8)	1.4 (39)
Typical batch size, in lbs. (kgs)	3.0 (1.4)	5 (2.2)	30 (13)
Mixer capacity in lbs. (kgs)	6 (2.7)	40 (18)	75 (34)
Mixer motor size in HP (kw)	1/6 (0.125)	1/2 (0.373)	1 (0.746)
Load cell(s) capacity	2 @ 2 kg	1 @ 10 kg	1 @ 30 kg
Blended material discharge, in inches (mm)	3 (76) dia.		4 (101) dia.
Machine weight, in lbs. (kg)	145 (66)	400 (182)	800 (364)
Shipping weight (approximate), in lbs. (kgs)	200 (91)	600 (273)	1000 (455)
Dimensions (approximate), in inches (mm)	Height	38 (965)	31 (787)
	Width	58 (1473)	33 (838)
	Depth	64 (1628)	40 (1016)

① See p. 3 for important rate information and standard disclaimer concerning each base unit maximum blending rate listed.

CGA Series Standard Ingredient Recipe Ranges-Consult Factory for others

Model	Auger metering ranges in percentage- select one per ingredient (component)						
All models	1/2 to 2-1/2 %	1 to 5%	2 to 10%	5 to 25%	10 to 50%	25 to 75%	50 to 100%



- See Page 3 for available CGA Series options -

- See Page 4 for CGA Series blender dimensions and specifications -

Important disclaimer concerning each base unit's maximum blending rate listed:

- The standard blender's maximum blending rate (capacity) shown above is based on a 3-component blend running the following standard recipe:
 - 80% virgin, 18% regrind (free-flowing) or second virgin, 2% color.
- Recipes with a high percentage of regrind, i.e. more than 50%, will significantly reduce the maximum throughput of the blender as well as the accuracy of the minor ingredients. Consult the factory for acceptable minimum and maximum recipes when regrinds will be used at more than 30%.
- Rates and capacities are based on use with free-flowing virgin pellets having a bulk density of 35 lbs./ft³. Bulk density of materials, particularly regrinds, can greatly impact blender performance and output rate.
- Throughput rates will vary as a result of number of blender components, the materials, and the recipe(s) used.
- All materials must be free-flowing and **dry**.
- Material samples are required for testing prior to shipment for guaranteed rates. Consult the Colortronic Sales Department for shipping instructions and for the amounts of each material to send for testing. Typical amounts required are 300 lb. for major ingredients and 30 lb. for minor ingredients.

CGA Series Option Availability

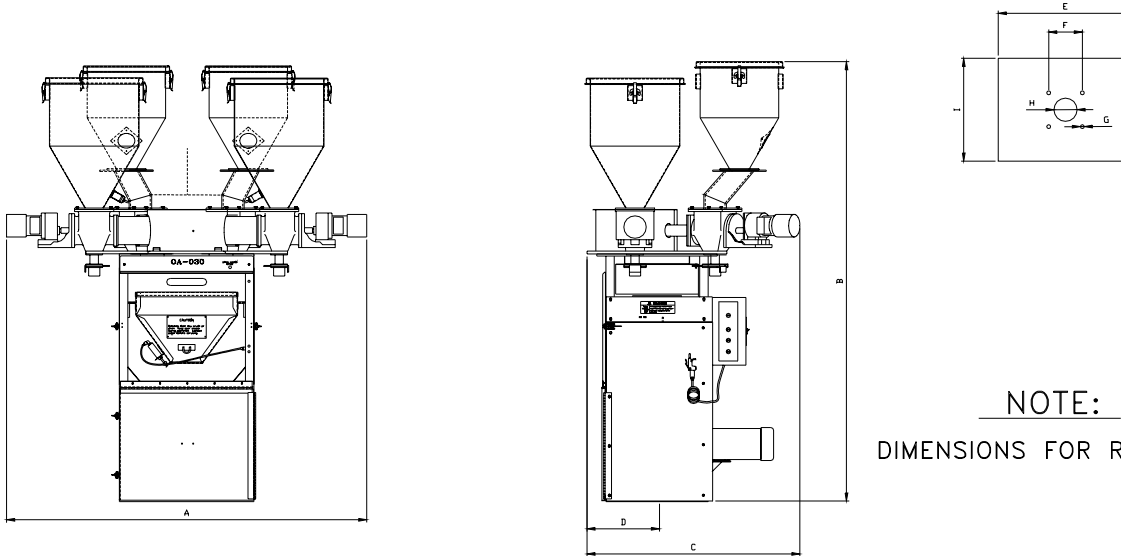
✓ denotes availability

Description	Availability	
12" high extension for major ingredient hoppers, for use with 14", 16" and 20" diameter hoppers; per hopper	✓	
SCR variable-speed DC drive motor in lieu of standard constant-speed AC motor; per component	✓	
Material shutoff slide gates above feeder housing; per feeder	✓	
Agitated straight wall regrind hopper with gear motor; per hopper (not available with CGA-002)	✓	
Stainless steel material supply hoppers ①	✓	
Powder feeder for most powder additives, including calcium carbonate, sodium bicarbonate, etc. – consult factory for difficult to feed materials	✓	
Supply hopper lids cut for non-Colortronic customer-supplied vacuum receivers or loaders; per hopper. Includes cutout and bolt hole pattern <u>only</u> .	✓	
Low level solid state proximity sensor for each supply hopper without alarm panel (alarm functions and indicators included in PLC control system)	2-components	✓
	3-components	✓
	4-components	✓
	5-components	✓
	6-components	✓
Mezzanine mount, gaylord fill and drum fill blender stands (<i>supplied with Pneumatic slide gate and controls</i>)	Mezzanine, 14" height and 4" OD tube stub for gravity feed	✓
	Drum fill, 42" height	✓
	Gaylord fill, 56" height	✓
Off-line floor stands (<i>supplied without Pneumatic slide gate or controls</i>)	Off-line floor stand, with 1.9 cu. ft. surge hopper ②	✓
	Off-line floor stand, with 3.5 cu. ft. surge hopper ②	✓
Pneumatic slide gate below mixer with controls (required for off-line floor mount, or for use with customer supplied stand or special configuration).		✓
Low-profile drawer magnet (3 bar)	Suitable for 2.5" square or 3.5" round feed throat	✓
	Suitable for 4" square or 6" round feed throat	✓
Vacuum take-off boxes mounted below the floor stand; 1.5", 2", 2.5" or 3" OD	1-position (FCO type, mild steel)	✓
	2-position (aluminum)	✓
	3-position (aluminum)	✓
	4-position (aluminum)	✓
Opti-Mxer in lieu of "HC" style mixer	CGA-002	STD
	CGA-012, CGA-030 or CGA-060	✓
Premium aluminum spool mounting flange with drain port (8" x 8" square flange)	✓	
Clean-out doors in spun material supply hoppers, includes safety grate or lock-out safety switch	✓	
Electrical / Control		
PanelView 1000 (10' Color Touch Screen) in lieu of standard PanelView 550	✓	
Additional touch screen interface for remote control of blender, with 8 ft. (2.4m) cable	✓	
50 foot (15 m) cable in lieu of standard 8 foot (2.6 m) for touch screen interface – consult factory for longer distance	✓	
Parallel printer adapter and 6 foot (1.8m) cable	✓	
Ethernet module for remote communication	✓	
A3 communication software and Mitsubishi RSLinx software for unlimited number of <u>new</u> SGA blenders	✓	
220 V operation (includes CE compliance) – 24 volt controls and 220 V mixer motor	✓	

① Allow additional delivery lead times.

② Vacuum take-off box not included.

CGA Series with "HC" Dimensions



NOTE:
DIMENSIONS FOR REF. ONLY.

CGA Series Dimensions ①

Blender	A	B	C	D	E	F	G	H	I
CGA-002	37.50"	32.50"	30.50"	15.25"	6"	4"	0.38"	2"	6"
CGA-012	58"	46"	33"	8"	9"	6"	0.63"	3"	7"
CGA-060	64"	77"	40"	12"	13"	6"	0.63"	4"	10"

① To convert to *cm*, multiply by **2.54**.

CGA Series Specifications

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Load cell capacity	2 @ 2 kg ea.	1 @ 10 kg ea.	1 @ 30 kg ea.
Blended material discharge, in inches (mm)	3 (76) dia.	3 (76) dia.	4 (101) dia.
Maximum blending rate, lbs./hr. (approx.)	100	600	3000
Machine weight (approx.), in lbs. (kg)	145 (66)	400 (182)	800 (364)
Shipping weight (approx.), in lbs. (kg)	200 (91)	600 (273)	1000 (455)

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