

# SGBD SERIES

## Gravimetric Blender



## Technical Specifications

The SGBD Series batch weigh blenders are setting new industry standards for accuracy and homogeneous blend quality with quick-acting diamond slide gates, unique mix chambers, and an easy to use touch-screen interface.

With 3 different ways to enter blend recipes, the SGBD Series blender is perfect for Injection Molding, Extrusion, Blow Molding or any other process. Combined with its easy to clean design, the SGBD series blender allows you to minimize material changes and maximize machine efficiency.

### Features

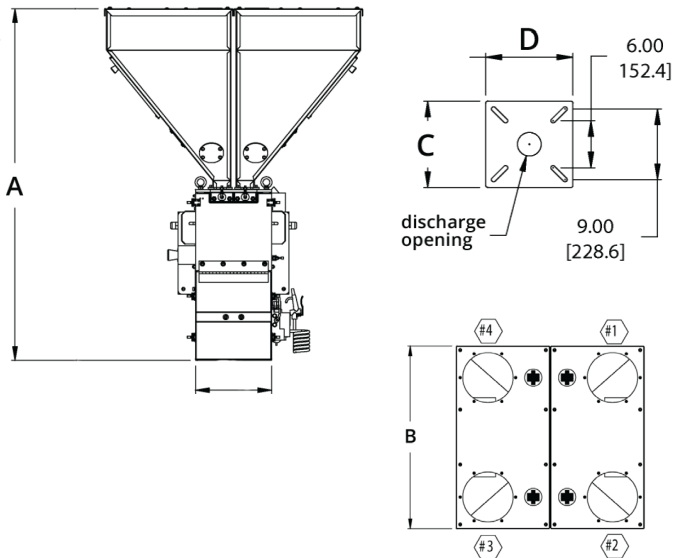
#### Standard Features

- Color Touch-Screen display and 8' (2.5m) cable, serial printer port, 100 recipe storage book, alarm light, audible alarm, and 3 modes of recipe entry
  1. Percentage recipe entry - Ingredients metered as a percentage of the batch.
  2. 8-component "EZ" mode recipe entry - Color and additives metered as a percentage of the virgin.
  3. "Parts" mode ratio recipe entry (i.e. 500:1)
- Powder coated, mild steel material supply hoppers with access doors
- Heavy-duty diamond metering gate assemblies
- Oversized square gate assembly for Re grind
- Adjustable stroke limiters for all ingredients
- Precision 0.02% span accurate cantilever load cell weigh system
- Removable, stainless steel weigh hopper
- Removable stainless steel mixer agitator
- Stainless steel mixer assembly, with proximity style level sensor
- Interlocked safety system shuts off air and power if mix chamber is opened
- "H" models include two large hoppers with diamond gates and two removable hoppers with vertical gates
- 7th and 8th components include additive feeders
- 115/1/60 and 220/1/50 - 60 supply voltage

#### Optional Features

- Low-level proximity sensor for each supply hopper
- Re grind Auger Metering (RAM) assembly with agitated straight wall hopper (model 900 and larger)
- Bowl shaped mixing chamber on SGBD-200
- Stainless steel supply hoppers
- Blender stands with air operated mixer discharge knife gate for gaylord or barrel filling
- Low-profile blender stand for mezzanine mounting
- Low-profile drawer-magnet
- Blender stand with mixer valve and surge hopper with integral take off stub or vacuum take off box mounting
- Aluminum spool with drain port
- Drain tube with slide gate on supply hopper
- Removable hoppers with integral metering gates
- Ethernet Port for remote communications

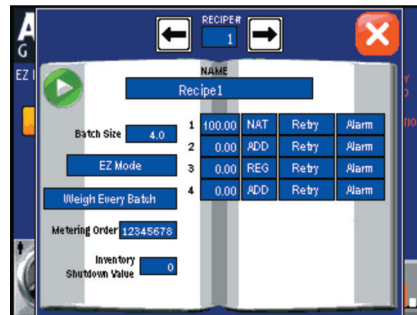
## Product Diagrams



Model	A, in. (mm.)	B, in. (mm.)	C, D, in. (mm.)	Weight
200	41.5 (1054)	37.5 (952)	11x11 (280x280)	375 (170)
500	51.5 (1308)			
900	56.5 (1435)	37.0 (940)	14x15 (355x457)	450 (205)
2500	69.5 (1765)	45.5 (1156)	17x18 (432x453)	650 (295)
4000	85.5 (2172)	57.5 (1461)	22x24 (559x610)	1100 (500)
6000	89.5 (2337)			

## Advanced Controller

- Advanced Controller with Color Touch Screen
- Proven Reliability
- User-friendly recipe entry
- Remote Mount Display
- Can be networked and accessed by PC based A3 software
- A3 is not compatible with BD Blenders controlled by a Micro850 PLC



## Specifications

Model	Max. Blending Rate* lbs./hr. (kgs./hr.)	# of materials to be blended	Slide gate size, in. (mm.)		Supply hopper capacity		Weigh hopper cap., cu.ft (l)		
			Majors	Minors	Majors	Minors			
200	200 (90)	2-4	2.0 (50)	1.5 (38)	0.7 (20)	0.2 (5)	0.18 (50)		
500	500 (227)	2-6			1.4 (40)	1.0 (28)			
900	900 (410)	2-8	2.5 (63)	2.0 (50)	3.0 (85)	2.7 (77)	0.38 (11)		
2500	2500 (1135)				4.0 (100)	3.0 (75)	7.5 (212)	6.0 (170)	0.82 (23)
4000	4000 (1815)								1.23 (34)
6000	6000 (2725)								2.17 (61)

\* Maximum blending rates based on running three components at 80% virgin pellets, 18% free-flowing regrind and 2% pelletized additive

Model	Typical batch size lbs. (kgs.)	Mixer			Load cell capacity kgs.	Discharge opening in. (mm.)
		Capacity cu.ft. (l)	Motor size HP (kW)	RPM		
200	4 (1.8)	0.25 (7)	1/6 (0.124)	21	2 @ 3 kgs.	3.0 (76.2)
500						
900	8 (3.6)	0.56 (16)	1/3 (0.25)	22	2 @ 5 kgs.	4.0 (102)
2500	25 (11.3)	1.1 (31)			2 @ 10 kgs.	
4000	35 (15.8)	2.72 (77)	1 (0.75)	2 @ 15 kgs.		
6000	45 (20.4)			2 @ 20 kgs.		