

# RIBBON BLENDERS

## Design, Capacities and Dimensions

**PAULO.ABBE®**  
Since 1911

Ribbon blenders are ideal for mixing most free-flowing solids up to 75 lbs/ft<sup>3</sup> (1.2 g/cc), depending on all particle characteristics including particle size, size distribution, particle shape, cohesiveness and moisture. Ribbon blenders are used in many industries including:

- animal feed
- bake mixes
- catalysts
- ceramics
- cosmetics
- fertilizers
- food
- instant drink mix
- nutraceuticals
- pharmaceuticals
- pigments
- plastic powders
- prill
- protein powders
- resins
- spices
- sugar blends
- vitamins



All stainless steel construction

**Talk** with the **Experts**

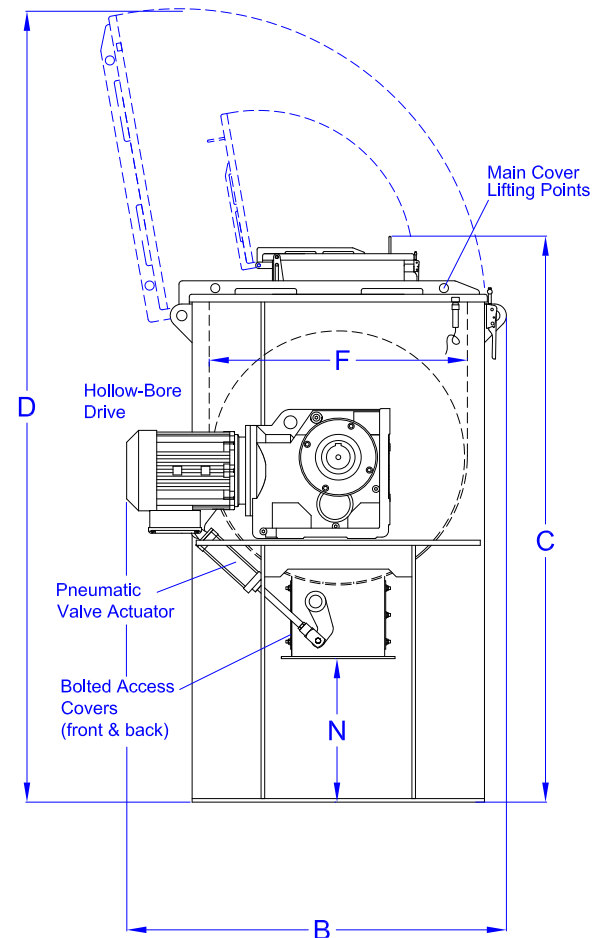
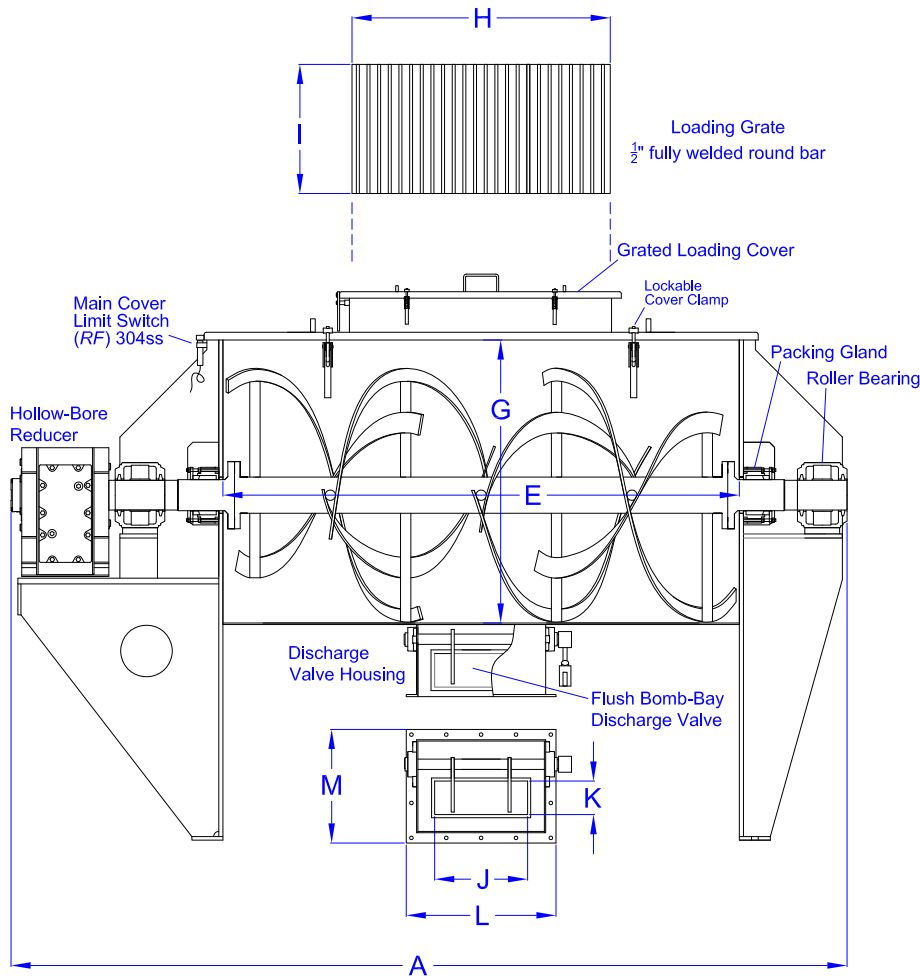
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Model	Working Capacity	Total Volume	HP	RPM	Overall Dimensions				Trough Dimensions			Loading Cover		Discharge Valve		Discharge Housing		outlet to floor clearance	Main Cover Weight (lbs.)	weight (lbs.)
					length	width	height	height with main cover open	length	width	height	length	width	length	width	length	width			
					A	B	C	D	E	F	G	H	I	J	K	L	M	N		
RB - 10	9.7	11	5	66	76	36	81	103	38.6	22.1	25.0	19.7	11.8	9.9	3.2	19.3	15.4	35.5	140	1,320
RB - 15	15	18	7.5	63	87	41	87	111	48.9	24.4	28.8	19.7	11.8	14.2	4.7	24.0	18.5	35.5	170	1,870
RB - 35	34	39	20	41	108	53	84	118	59.1	33.4	37.4	31.5	19.7	14.2	4.7	24.0	18.5	24	260	2,860
RB - 65	63	72	25	33	131	61	90	130	78.8	39.4	44.1	50	30	14.2	4.7	24.0	18.5	23	420	5,060
RB - 100	98	108	30	29	146	63	81	126	93.8	44.9	49.3	50	30	14.2	4.7	24.0	18.5	8	490	7,260
RB - 135	134	146	30	29	158	65	85	134	105.5	49.6	53.6	50	30	19.7	4.7	28.4	20.5	8	550	7,920
RB - 165	164	180	50	29	167	74	86	139	110.3	53.6	58.3	50	30	19.7	4.7	28.4	20.5	4	640	10,164
RB - 195	197	220	60	26	183	76	94	151	118.2	56.7	62.6	50	30	19.7	4.7	28.4	20.5	4	860	11,660
RB - 265	267	289	75	26	207	81	95	158	130.0	63.0	67.8	50	30	27.6	4.7	36.2	20.5	4	970	14,960
RB - 315	313	356	75	19	218	88	100	166	141.8	65.4	73.3	50	30	27.6	5.5	36.2	20.5	4	1,290	19,580
RB - 375	373	441	75	19	237	92	105	172	157.5	67.7	78.8	50	30	27.6	5.5	36.2	20.5	4	1,050*	20,944
RB - 460	460	552	100	17	261	96	106	177	177.3	70.9	83.5	50	30	27.6	5.5	36.2	20.5	1	1,280*	21,890
RB - 620	622	724	100	16	267	101	118	200	183.1	81.1	93.0	50	30	27.6	5.5	36.2	20.5	1	1,430*	29,700
RB - 800	799	938	125	16	281	108	126	215	196.9	88.6	102.4	50	30	27.6	5.5	36.2	20.5	1	1,750*	38,500
RB - 1000	1007	1,116	150	11	333	113	130	229	200.9	98.5	108.0	50	30	27.6	5.5	36.2	20.5	1	2,320*	42,900

\*2-piece cover

Dimensions are in inches. Dimensions and capacities are approximate and subject to change. Do not use for installation.

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# RIBBON BLENDERS

## Design Features & Options

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Center loading cover with welded round bar grate.

Non-defeatable radio frequency safety switch on main cover. *Limit switch(es) must be wired into motor control circuit to disconnect power when the cover is opened.*



Flush discharge valve



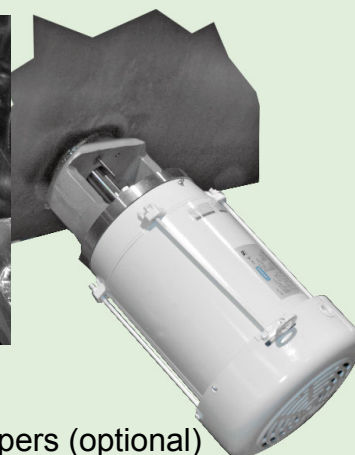
Heavy-duty pillow block roller bearings



Lockable main cover clamps (locks not included)



Discharge housing, pneumatic actuator, access panels (on both side of housing)



High-speed choppers (optional)

### Design Options

- Leg Extensions
- Liquid spray bar
- 316L SS contact surfaces
- Choppers
- Heating/cooling jacket
- Electric Cover Lift
- Explosion Proof Motors
- Controls: NEMA-12, 4, 4X, 7&9
- Soft-start or VFD
- Load cells

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JH 8-2021

Date \_\_\_\_\_ 20\_\_\_\_

Company \_\_\_\_\_

Contact \_\_\_\_\_

Title \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ St \_\_\_\_\_ Zip \_\_\_\_\_

Country \_\_\_\_\_

Phone \_\_\_\_\_

Mobile \_\_\_\_\_

Fax \_\_\_\_\_

E-mail \_\_\_\_\_

How did you learn about **PAUL O. ABBE**? \_\_\_\_\_

## **MIXING EXPERIENCE** (describe your present mixing method)

Type of Mixer & Size \_\_\_\_\_

How is this method performing? \_\_\_\_\_

## **SOLID & LIQUID PRODUCT CHARACTERISTICS**

Product is: ☐ Dry ☐ Wet ☐ Paste ☐ Mastic Compound

### **CAPACITY**

by Volume \_\_\_\_\_ ☐ ft<sup>3</sup> or liters per \_\_\_\_\_ hour(s)

or by Weight \_\_\_\_\_ ☐ lbs. or ☐ kgs. per \_\_\_\_\_ hour(s)

### **SOLID COMPONENTS**

Name(s) \_\_\_\_\_

Bulk Density (lowest/min.) \_\_\_\_\_ ☐ lbs./ft<sup>3</sup> / ☐ g/cc

Bulk Density (tapped/max.) \_\_\_\_\_ ☐ lbs./ft<sup>3</sup> / ☐ g/cc

Other Characteristics: ☐ Friable ☐ Dusty ☐ Cohesive

☐ Abrasive ☐ Paste ☐ Agglomerates ☐ Hygroscopic ☐ Oxidizes

### **If a Paste, Mastic or Compound:**

Viscosity \_\_\_\_\_ cps @ \_\_\_\_\_ °F / °C

Rheology: ☐ Thixotropic ☐ Pseudoplastic ☐ Dilatent ☐ Newtonian

### **If Solids:**

Particle Size Distribution: ☐ mesh or ☐ μ microns

\_\_\_\_\_ % less than \_\_\_\_\_

\_\_\_\_\_ % less than \_\_\_\_\_

\_\_\_\_\_ % less than \_\_\_\_\_

### **PRESSURE**

Mixing is performed under:

☐ atmospheric pressure

☐ vacuum \_\_\_\_\_ "Hg

☐ pressure \_\_\_\_\_ psig

### **TEMPERATURES**

Incoming product \_\_\_\_\_ °F / °C

During mixing \_\_\_\_\_ °F / °C

After mixing \_\_\_\_\_ °F / °C

### **LIQUID ADDITION**

Are liquids added during the process? ☐ Yes ☐ No

Name(s) \_\_\_\_\_

Liquid Viscosity \_\_\_\_\_ cps @ \_\_\_\_\_ °F / °C

Quantity \_\_\_\_\_ ☐ usg / ☐ liters

Rate of Addition \_\_\_\_\_ ☐ gpm / ☐ lpm

### **HEATING/COOLING JACKET**

Required for heating to \_\_\_\_\_ °F / °C

Required for cooling to \_\_\_\_\_ °F / °C

Medium: ☐ water ☐ steam ☐ hot oil

Jacket Rating: ☐ 14.7 psig non-code

☐ ASME code stamped for \_\_\_\_\_ psig

### **DISCHARGE** The final product is a:

☐ free-flowing powder that can be bottom discharged.

☐ free-flowing liquid or paste that can be bottom discharged.

☐ non-free flowing powder that must be dumped.

☐ solid, mastic or compound that will be dumped.

☐ solid, mastic or compound that will be extruded with a screw.

### **CLEARANCES**

Clearance below discharge \_\_\_\_\_ "

Height/ceiling restrictions \_\_\_\_\_ "

### **PRODUCT CONTACT MATERIAL**

☐ 304, ☐ 316 ☐ 316L Stainless Steel

☐ Other Alloy \_\_\_\_\_

☐ Coating \_\_\_\_\_

### **EXTERNAL & SUPPORT MATERIALS**

☐ mild steel ☐ 304 ☐ other \_\_\_\_\_

### **SURFACE FINISHES**

Internal: ☐ mill, ☐ 2B, ☐ #4, ☐ bead blast, ☐ \_\_\_\_\_ grit, ☐ \_\_\_\_\_ Ra (μ inch)

External: ☐ mill, ☐ 2B, ☐ #4, ☐ bead blast, ☐ \_\_\_\_\_ grit, ☐ \_\_\_\_\_ Ra (μ inch)

External Structural: ☐ coated, ☐ other \_\_\_\_\_

### **UTILITIES AVAILABLE**

Electrical \_\_\_\_\_ voltage, \_\_\_\_\_ phase, \_\_\_\_\_ Hz

Vacuum \_\_\_\_\_ "Hg, \_\_\_\_\_ cfm

Air \_\_\_\_\_ psig, \_\_\_\_\_ cfm

Water \_\_\_\_\_ °F / °C, \_\_\_\_\_ gpm, \_\_\_\_\_ psig

Steam \_\_\_\_\_ psig, \_\_\_\_\_ lbs./hour

### **ELECTRICAL CLASSIFICATION**

Will *mixer* and *controls* be in different areas? ☐ Yes ☐ No

Motor Classification:

☐ non-classified TEFC

Class: ☐ Cls. I (gas/vapor), ☐ Cls. II (dust)

Division: ☐ Div. 1 (Class substance is present in normal conditions)

☐ Div. 2 (Class substance is present in abnormal conditions)

Electrical Enclosures: ☐ NEMA-12, ☐ NEMA-4 (washdown)

☐ NEMA-4X (washdown & corrosive), ☐ NEMA-7&9 (XP)

☐ NEMA-4,7&9, ☐ other \_\_\_\_\_

### **SUPPORT EQUIPMENT REQUIRED**

☐ Vacuum System

☐ Solvent Recovery

☐ Heating

☐ Cooling

☐ Liquid Addition

☐ Lump Breaker

☐ Inert Gas Purge

☐ Solids Sampler

☐ Loading/Unloading

☐ Controls

### **PROJECT SCHEDULE**

Start-Up Scheduled for ☐ 1<sup>st</sup> ☐ 2<sup>nd</sup> ☐ 3<sup>rd</sup> ☐ 4<sup>th</sup> Qtr., 20\_\_\_\_

Is Project Funded: ☐ Yes ☐ No

Installation Location (State or Country) \_\_\_\_\_