RIBBON BLENDERS

Design, Capacities and Dimensions

PAUL O. ABBE®
Since 1911

Applications

Ribbon blenders are ideal for mixing most solids up to 90 lbs/ft³. The action of the inner and outer ribbons provide efficient and economical blending. Ribbon Blenders are used in all process 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

phone 630.350.3012 **fax 630.238.7584**
sales@pauloabbe.com **www.pauloabbe.com**

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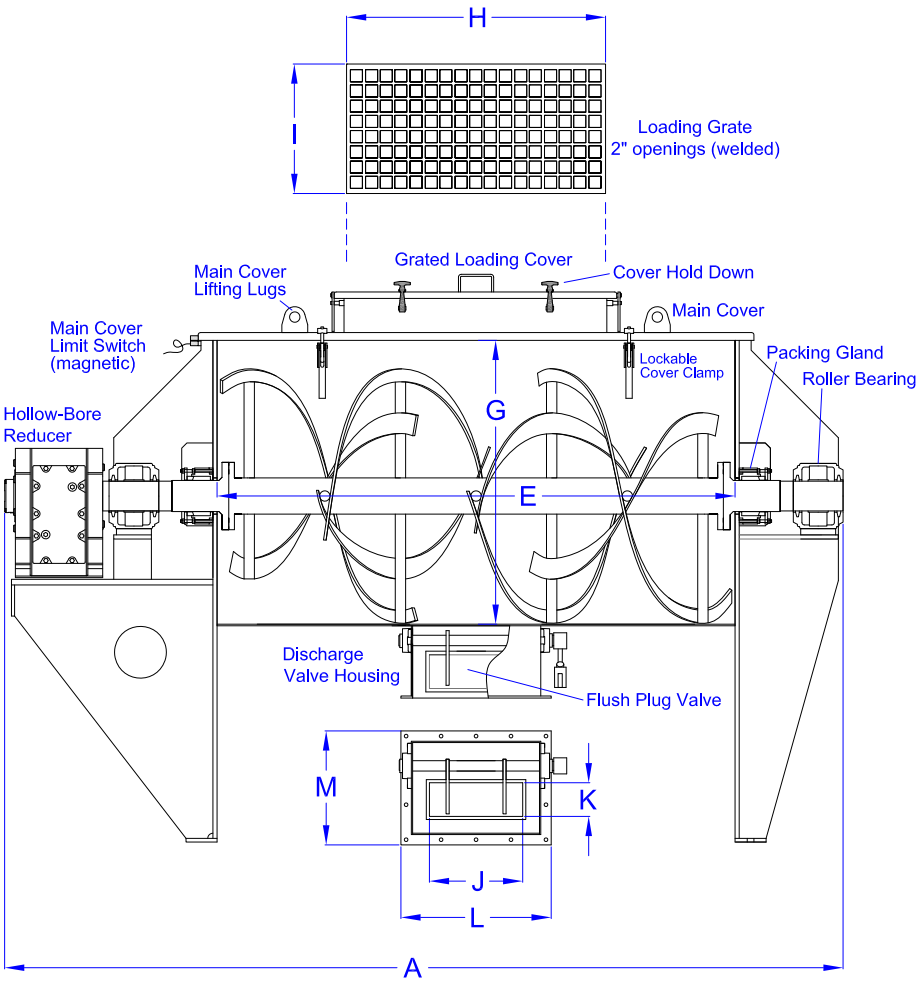

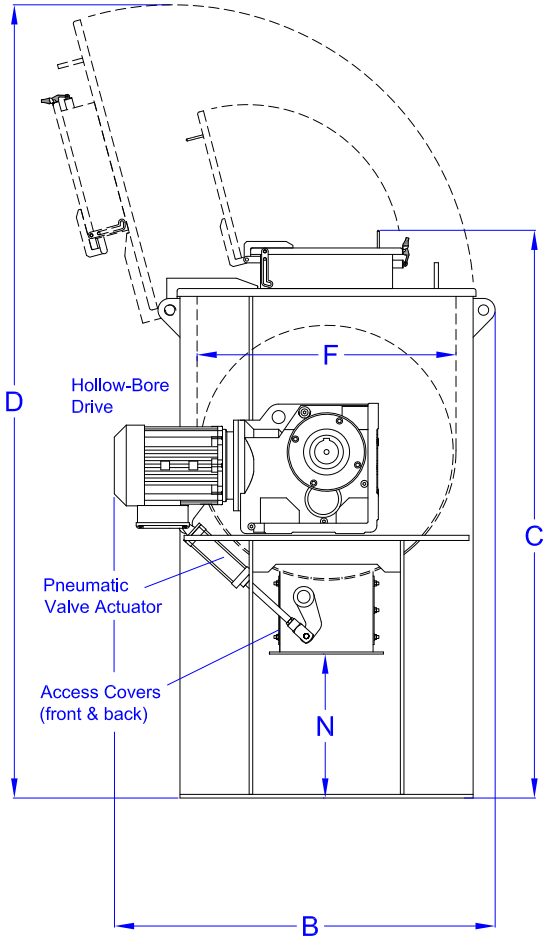

					Overall Dimensions				Trough Dimensions			Loading Cover		Discharge Valve		Discharge Housing			
					length	width	height	height with main cover open	length	width	height	length	width	length	width	length	width	outlet to floor clearance	
Model	**Working Capacity**	**Total Volume**	**HP**	**RPM**	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**I**	**J**	**K**	**L**	**M**	**N**	**weight (lbs.)**
RB - 10	9.7	11	5	66	76.4	36.4	81.4	103.5	38.6	22.1	25.0	19.7	11.8	9.9	3.2	19.3	15.4	35.5	1,320
RB - 15	15	18	7.5	63	86.6	41.1	86.6	111.0	48.9	24.4	28.8	19.7	11.8	14.2	4.7	24.0	18.5	35.5	1,870
RB - 35	34	39	20	41	107.5	52.7	84.3	117.7	59.1	33.4	37.4	31.5	19.7	14.2	4.7	24.0	18.5	24	2,860
RB - 65	63	72	25	33	131.4	60.6	90.3	129.7	78.8	39.4	44.1	50	30	14.2	4.7	24.0	18.5	23	5,060
RB - 100	98	108	30	29	146.4	63.3	80.8	125.7	93.8	44.9	49.3	50	30	14.2	4.7	24.0	18.5	8	7,260
RB - 135	134	146	30	29	158.3	64.8	84.7	134.3	105.5	49.6	53.6	50	30	19.7	4.7	28.4	20.5	8	7,920
RB - 165	164	180	40	29	167.0	74.0	85.5	139.1	110.3	53.6	58.3	50	30	19.7	4.7	28.4	20.5	4	10,164
RB - 195	197	220	50	26	183.0	76.4	93.8	150.5	118.2	56.7	62.6	50	30	19.7	4.7	28.4	20.5	4	11,660
RB - 265	267	289	60	26	206.5	81.0	94.8	157.8	130.0	63.0	67.8	50	30	27.6	4.7	36.2	20.5	4	14,960
RB - 315	313	356	75	19	218.4	87.8	100.4	165.8	141.8	65.4	73.3	50	30	27.6	5.5	36.2	20.5	4	19,580
RB - 375	373	441	75	19	237.1	91.9	104.7	172.4	157.5	67.7	78.8	50	30	27.6	5.5	36.2	20.5	4	20,944
RB - 460	460	552	100	17	260.9	96.3	106.4	177.3	177.3	70.9	83.5	50	30	27.6	5.5	36.2	20.5	1	21,890
RB - 660	622	724	100	16	266.9	101..8	118.4	199.5	183.1	81.1	93.0	50	30	27.6	5.5	36.2	20.5	1	29,700
RB - 800	799	938	125	16	280.7	108.3	125.9	214.5	196.9	88.6	102.4	50	30	27.6	5.5	36.2	20.5	1	38,500
RB - 1000	1007	1,116	150	11	332.9	112.7	130.0	228.5	200.9	98.5	108.0	50	30	27.6	5.5	36.2	20.5	1	42,900

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

JH 6-2017

RIBBON BLENDERS

Design Features & Options

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Since 1911

Center loading cover with welded grate - 2” square openings

Magnetic limit switch on main hinged cover. *Limit switch(es) must be wired into motor control circuit to disconnect power when the cover is opened.*

Lockable main cover holddown clamps (locks not included)

Flush plug discharge valve

Heavy-duty pillow block bearings

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

High-speed choppers (optional)

Design Options

- Liquid spray bar
- 316L SS contact surfaces
- Choppers
- Heating/cooling jacket
- Explosion Proof Motors
- Controls: NEMA-12, 4, 4X, 7&9
- Variable frequency drives
- Load cells

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MIXING APPLICATION

PAUL O. ABBE® Since 1911

Talk with the Experts
630-350-3012

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^3 or liters per _____ hour(s)
or by Weight _____ □ lbs. or □ kgs. per _____ hour(s)

SOLID COMPONENTS

Name(s)_____
Bulk Density (lowest/min.) _____ □ lbs./ft^3 / □ g/cc
Bulk Density (tapped/max.)_____ □ lbs./ft^3 / □ 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 □ 1st □ 2nd □ 3rd □ 4th Qtr., 20_____
Is Project Funded: □ Yes □ No
Installation Location (State or Country)_____