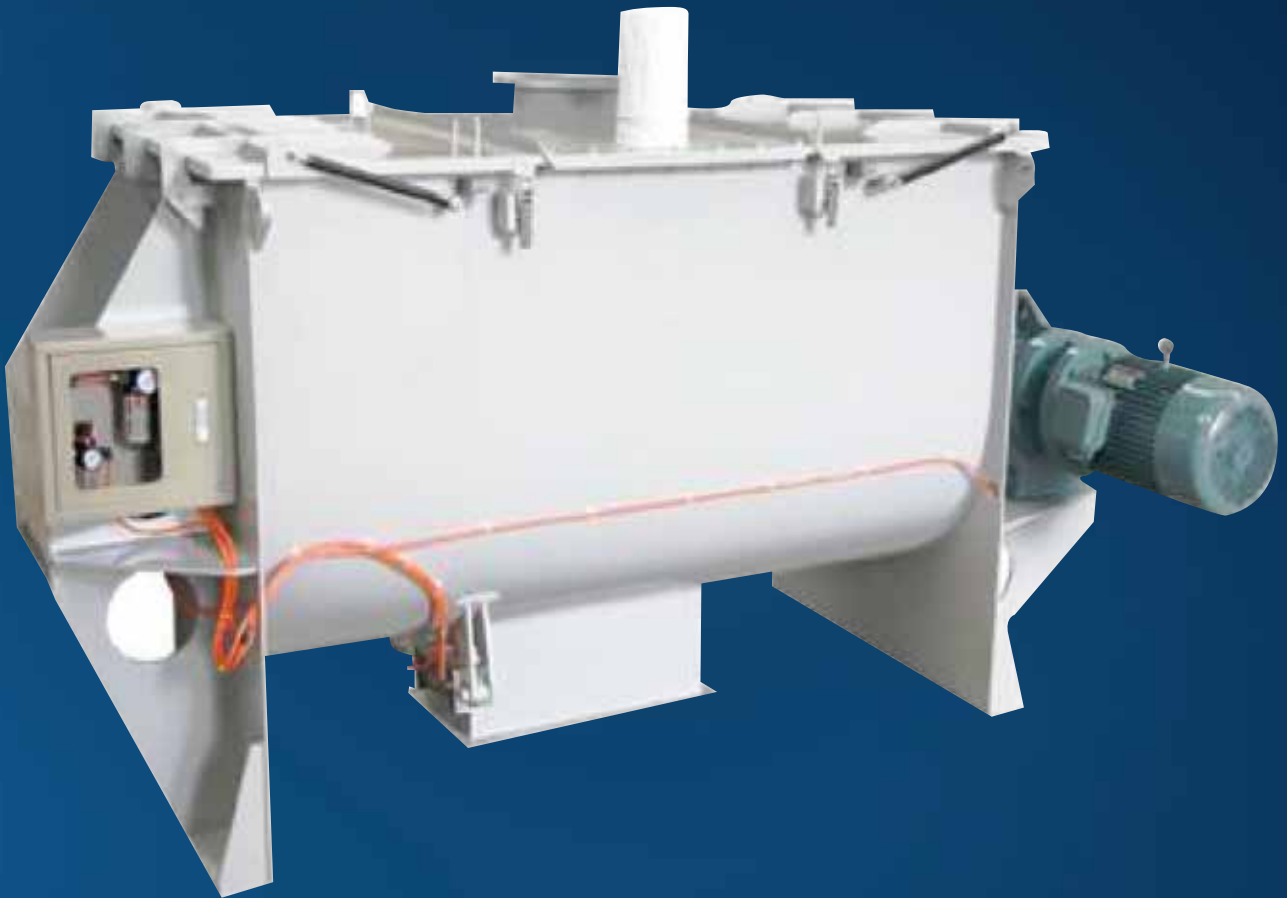




Ribbon Mixer

The Ribbon Mixer is ideal for blending powder & granular ingredients of similar Size, Shape & Density





Ribbon Mixer



The Ribbon Mixer is ideal for blending powder & granular ingredients of similar size, shape & density, although gas and liquid streams can also be added. If you're mixing free-flowing solids or slurries of similar size & density, then the Ribbon mixer would be the best solution.

The Ribbon Mixer can be configured, for either batch or continuous mixing. They come in sizes ranging from 100- to 20,000-litre working capacity.

Choppers can be added, when blending liquids or pastes and dispersing small ingredients.

Stainless Steel Ribbon Mixers are mainly used in the food industry, where bulk materials are blended repeatedly.

Ribbon Mixer Working Principle



The Ribbon Mixer has a U-Shaped Horizontal trough, which is fitted with a customised doubled Ribbon Agitator, to suit your products being mixed. Ribbon Agitators are designed to mix by scrubbing the material against each other. This is done with Ribbon Agitator having 2 sets of blades, Inner & Outer Helical Blades. The Inner ribbons move the material to the outside of the Ribbon Mixer. The Outer ribbons move the material to the centre of the trough.



- ▶ Bradwood Packaging uses universal and industrial components to give the machinery extra long life cycles. The way machinery should be built (this way you're not locked into expensive proprietary systems).
- ▶ **Manufactured to comply with Australian and International Machine Safety & Electrical Standards.**
- ▶ Bradwood Packaging prides itself on providing plain English proposals, there's no hidden surprises. You'll know what you're getting.
- ▶ **Bradwood Packaging manufactures complete lines from raw material, conveying, dosing, mixing, packaging through to palletising.**

What You Get With Ribbon Mixer

1. Ribbon mixer is of wide range applications in different fields. It applies to various materials and particle sizes with high homogeneity.
2. Ribbon mixer is highly efficient within short time. For different raw materials and particle sizes, the homogeneity is very high.
3. For viscous or cohesive materials, ribbon mixer performs much better than other horizontal mixers.
4. The minimal gap between ribbon and vessel ensures mixing efficiency and minimal dead spots.
5. The performance of packing seal and air purge seal for the main shaft seal is airtight. Packing glands are made of waterproof PTFE which is abrasion-resistant and guarantees long life in service.
6. Ribbon mixer is easy to clean through clean-out door or top lid.
7. During mixing and homogeneity is high, Ribbon Mixers add >15% liquid additive by spray nozzles.
8. Jacket of different types such as steam jacket, dimpled jacket, electric heating bars jacket, water jacket, heat transfer oil jacket, are widely used for different applications.
9. Discharges including flap valve, slide gate valve, ball valve and butterfly valve are optional for different solutions. Different controls like manual, pneumatic, and electric drives are also available.
10. Vacuum or air inflation is also applicable for some special purposes.
11. Ribbons can be changed into blades or non-continuous as the case maybe for different raw materials or purposes.
12. High-speed choppers are optional.
13. The vessel fabrication is stable, robust and easy to install and maintain. The whole mixing process is reliable which results in low maintenance and low wear.



Pneumatic Control Panel



Main Shaft Seal & Bearing



Ribbon Mixer Structure

Ribbon Mixers consist of drive unit, vessel, main shaft, inner and outer ribbon flights and discharge system.



Ribbon Mixer Advantages

- ▶ Optimal mixing homogeneity
- ▶ Short mixing time
- ▶ Excellent reproducibility of batch production
- ▶ Minimum wear and low maintenance
- ▶ Easy access to mixer/ Easy to clean
- ▶ Excellent mixing at any product level
- ▶ Low power consumption
- ▶ Wide applications

Bradwood Packaging Offers Complete Bulk Materials Handling, Filling, Packaging & Weighing Solutions

Applications of Ribbon Mixer

- ▶ Chemical
- ▶ Pharmaceuticals
- ▶ Food
- ▶ Pesticide
- ▶ Pigment & Dye
- ▶ Cosmetics
- ▶ Animal Feed
- ▶ Metallurgy
- ▶ Battery
- ▶ Construction Material
- ▶ Ceramic Powder
- ▶ Mining Industry

Ribbon Mixer Specification


Model	Total Volume (M ³)	Loads Coefficient	Motor Power (KW)	Size (mm)	Main Shaft Speed (rpm)
ARM-0.1	0.1	0.4-0.6	3	1410×810×759	101
ARM-0.3	0.3	0.4-0.6	4	1830×910×860	56
ARM-0.5	0.5	0.4-0.6	7.5	2050×1100×1060	52
ARM-1	1	0.4-0.6	11	2580×1250×1310	43
ARM-1.5	1.5	0.4-0.6	11	2780×1310×1440	38
ARM-2	2	0.4-0.6	15	3050×1460×1530	35
ARM-3	3	0.4-0.6	18.5	3420×1610×1710	30
ARM-4	4	0.4-0.6	22	3730×1720×1830	27
ARM-5	5	0.4-0.6	22	3930×1770×1930	23
ARM-6	6	0.4-0.6	30	4210×1920×2100	23
ARM-8	8	0.4-0.6	37	4570×2080×2260	21
ARM-10	10	0.4-0.6	45	5110×2120×2610	19
ARM-12	12	0.4-0.6	45	5420×2250×2710	17
ARM-15	15	0.4-0.6	55	5740×2390×2830	17



Powder Mixing Data Sheet

Consult with our Bradwood Packaging sales engineers for sizing, correct feeding methods, particle sizes, densities, air pressure, or types of componentry to be used.

We recommend filling out the attached basic data sheet to assist you best with your specific requirements.

 Bradwood Packaging Australian Weighing Equipment	Sydney +61 2 8717 3333 Melbourne +61 3 9330 1011 Brisbane +61 7 3423 1388	Date: _____ Quotation Due Date: _____ Name: _____ Company: _____ Phone: _____ Job Reference: _____ QUOTE TO: _____ _____ Phone: _____ Fax: _____	NOTE If there are any Special Fabrication, Structure, Engineering or Testing Requirements, Please Attach Data to This Sheet
	INQUIRY FORM <input type="checkbox"/> Firm Quote <input type="checkbox"/> Budget Quote		

Equipment Data			
Operation condition		<input type="checkbox"/> NPT	<input type="checkbox"/> Vacuum
Design capacity (Kg/batch)			
Bulk Density of final product (Kg/L)			
Start mixer after load		<input type="checkbox"/> Yes	<input type="checkbox"/> No
Power supply(V/HZ/P)		Voltage: _____	Frequency: _____ Phase: _____
Vessel		Design Temp. (°C): _____	Working Temp(°C): _____
		Design Press. (Mpa): _____	Design Press. (Mpa): _____
Jacket	Needed	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Temperature	Design Temp. (°C): _____	Working Temp(°C): _____
	Pressure	Design Press. (Mpa): _____	Design Press. (Mpa): _____
	Function	<input type="checkbox"/> Heating	<input type="checkbox"/> Cooling
	Way	<input type="checkbox"/> Electric heating	<input type="checkbox"/> External cycle source
	Media	<input type="checkbox"/> Water	<input type="checkbox"/> steam <input type="checkbox"/> heat transfer oil
Liquid addition	Needed	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Type	<input type="checkbox"/> Manual	<input type="checkbox"/> Mechanical
	How much	Percentage:_____ or Volume:_____ L	
Construction material		Contact area with raw material:	
		Non-contact area:	
		Jackets:	
Surface treatment		Painting for outside CS part (RAL colour)	
		Polishing for inside SS part (Grade:_____)	
		Sandblasting for outside SS part	
Feeding		<input type="checkbox"/> Manual	<input type="checkbox"/> Mechanical
Discharge		<input type="checkbox"/> Pneumatic	<input type="checkbox"/> Manual <input type="checkbox"/> Electric
Discharge valve		<input type="checkbox"/> dislocation valve <input type="checkbox"/> butterfly valve	
		<input type="checkbox"/> ball valve <input type="checkbox"/> slide gate valve <input type="checkbox"/> rotary valve	

Bradwood Packaging Offers Complete Bulk Materials Handling, Filling, Packaging & Weighing Solutions

Motors & Gearing

Motor	Type	<input type="checkbox"/> Normal	<input type="checkbox"/> Variable frequency
	Protection	<input type="checkbox"/> Explosion-proof	<input type="checkbox"/> High efficiency
	Brand	Enclosure protection: IP_____ Insulation: Grade_____	
Gear reducer	Brand	<input type="checkbox"/> SEW <input type="checkbox"/> Siemens	<input type="checkbox"/> ABB <input type="checkbox"/> Others
	Brand	<input type="checkbox"/> Omitter <input type="checkbox"/> SEW	<input type="checkbox"/> Siemens <input type="checkbox"/> Others
Control Panel	Needed	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Starting	<input type="checkbox"/> Normal (power $\leq 7.5KW$)	<input type="checkbox"/> soft start
		<input type="checkbox"/> variable frequency	<input type="checkbox"/> Step-down voltage
Electric components	<input type="checkbox"/> Schneider brand		

Note: 1. Options for construction material: CS, SUS304, SUS316, SUS316L and others.
2. Any special requirements shall state clearly.

Customer's Experience for Using Mixer

Mixer type	Remarks
Total volume	
Batch capacity (Kg)	
Motor power (KW)	
Rotating speed (rpm)	

Raw Material Specifications

Items	Material A	Material B	Material C	Material D	Material E
Name					
Properties					
Percentage (%)					
Bulk density					
Particle size					
Moisture					
Feeding way					
Viscosity					
Flowability					
Abrasivity					
PH value					
Magnetism					
Corrosion					

Note: 1. Properties include: powder, granule, flaky, crystal, liquid etc. please state clearly if the raw materials are not allowed to be damaged.
2. Please illustrate a similar material if no exact data or related to confidential info.

Remarks

Here you can write down your desired mixing process or work flow. Other points or major considerations you may have should be expressed to us or may be written below in detail.

.....

.....

.....



Who is Australian Weighing Equipment & Bradwood Packaging

Jeff & Trevor Baillie started AWE in 1981, focusing on weighing solutions based on engineering principles. For the last 30 years AWE has built its reputation as a leading supplier of robust Packaging & Bulk Handling Equipment. Our innovative engineering, and continuous product improvement have led to designs that will stand up to the rigours and demands your product line will throw at it.

Bradwood Packaging's bulk handling & packaging equipment can reduce or eliminate the need to manually perform repetitive tasks of filling, packaging and palletising.

We know that one size does not fit all. If our 'Out-of-the-box' equipment does not suit your needs, then talk to us about a custom solution. We are ready & able to engineer a cost effective design based on our 30 years experience.

The biggest compliment we hear is, "Your packaging equipment is Over-Engineered". Our response: "Bradwood Packaging knows most packaging equipment operates in a harsh environment. They cop a pounding.

We must engineer to survive these conditions. Bradwood Packaging understands our reputation depends on this. So we prefer to build our packaging equipment based on our experience to anticipate and cope with the harsh conditions of factory life.

Bradwood Packaging's bulk handling & packaging equipment is built to "Our Standards" to Protect Your Investment.

Based on this experience, we're constantly called in, to consult on setting up product lines, tailored to suit unique packaging and bulk handling applications.

AWE Investment in the Future

To help provide a seamless packaging solution, AWE has just increased its investment in our manufacturing facilities now giving us over 3,200 square metres of factory in Sydney with a

- ▶ A CNC Machine Shop
- ▶ Bending & Rolling Shop
- ▶ Heavy Metal Fabrication Shop
- ▶ Plus further room for our team of qualified tradesman

Acquisitions of Bradwood Packaging, Dendy Packaging and Design Engineering increased our packaging and engineering experience.

In 2008, AWE established a manufacturing facility in China - China Weighing and Bulk Materials Handling Equipment.

China Weighing and Bulk Materials Handling Equipment, currently occupies a purpose built 2,300m² factory in Suzhou China (70kms From Shanghai).

All Equipment is Australian designed and manufactured under Bradwood Packaging's strict quality control system in our own factories both locally and internationally.

Bradwood Packaging Offers Complete Bulk Materials Handling, Filling, Packaging & Weighing Solutions

Bradwood Packaging Guarantee

Bradwood Packaging supply and backup what they sell - That's a Guarantee from the manufacturer. **The directors stand by all the equipment sold by Bradwood Packaging, if it's not suitable, or doesn't work, then we will fix it, replace it or you don't pay.**

To deliver on our commitment of providing quality, reliable packaging and bulk handling equipment, Bradwood Packaging understands its more than just delivering a well built & designed packaging machine. It also requires a team of dedicated people who care and are there to back you up with great Service & Support.

The quality of our team sets us apart. Most companies choose to outsource these services to contractors, or buy machinery from overseas as a so called agent. They do not have the knowledge base to support or maintain this equipment long term.

Bradwood Packaging's solutions are designed to fit your factory systems, to do this requires a team of professionally trained tradesmen.

When Bradwood Packaging starts building your equipment, an army of skilled tradesmen engineers, draftsmen are on the job.

We're Talking About

- ▶ Licensed Tradesmen
- ▶ Mechanical Engineers
- ▶ Electrical Engineers
- ▶ Structural Engineers
- ▶ Draftsmen
- ▶ Fitter & Turners
- ▶ Boilermakers
- ▶ Fully Qualified Scale Makers
- ▶ Electronic Technicians
- ▶ Instrument Fitters
- ▶ Electricians
- ▶ Service Technicians
- ▶ Project Managers
- ▶ Formworkers
- ▶ Concreters

They are all lead by your own personal project manager assigned to make your project run smoothly. Which means there's one point of contact, you won't get the run around. They're responsible for managing the design team, installation, commissioning and documenting your project.

Reliability

Bradwood Packaging's bulk materials handling and packaging equipment is designed for Australian conditions and a lifetime of heavy duty filling, bagging & packing. Our proven and robust designs are engineered and manufactured in house to the highest standards to provide our customers with a lifetime of reliable and accurate service.

In the unlikely case of breakdown, we know downtime is costly and service is required, quickly with accurate attention.

Bradwood Packaging's Service Technicians Are On Call 24/7 , Because We Know Breakdowns Don't Always Happen In Business Hours.

The service guys are there when you need them. When your line goes down, 5.00pm on a Friday, you need technicians to turn up. If you need them at 11pm Saturday, they will be there. That's a promise, because we stand behind our equipment.

So If You Have Questions About Factory Layout Bulk Materials Handling or Packaging Equipment, Then Talk To Bradwood Packaging About Our Solutions

Bradwood Packaging prides itself on providing plain english proposals, there's no hidden surprises. You'll know what you're getting.

Bradwood Packaging manufactures bulk materials handling, filling, sealing to palletising lines, as well as designing complete plant lines.

So if you have questions about factory layout and materials handling or packaging equipment, then talk to Bradwood Packaging about our solutions.

Call or email us today and find out how our sales team and project engineers can assist you in finding the best solution for your needs.

Companies in the AWE Group



Australian Weighing Equipment P/L



All State Machining



Rite-Weigh Scales P/L



Bradwood Packaging P/L



Bendfab P/L



Dendy Packaging (Australia)



China Weighing and Bulk Materials Handling Equipment

Australian Weighing Equipment P/L

50 Mandarin Street
Fairfield East, Australia NSW 2165
Email: sales@awe.com.au
PH: (+61) 2 8717 3333
www.awe.com.au

Rite-Weigh Scales P/L Melbourne Office

37 Barrie Road
Tullamarine, VIC, 3043
Ph: (+61) 3 9330 1011
Email: sales@rite-weigh.com.au

Bradwood Packaging P/L

52-56 Mandarin Street
Fairfield East, Australia NSW 2165
Email: sales@awe.com.au
PH: (+61) 2 8717 3355
www.awe.com.au

Rite-Weigh Scales P/L Queensland Office

7 Darnick Street,
Underwood, QLD, 4119
Ph: (+61) 7 3423 1388
Email: sales@rite-weigh.com.au

China Weighing and Bulk Materials Handling Equipment China Factory

No. 66 Jiangpu Rd, Singapore
Industrial Park, Suzhou City, China
Ph: (+86) 512 6292 3790
Email: sales@chinaweighing.com
www.chinaweighing.com



Sydney



Melbourne



Brisbane



China

Dealer's Information:

For Links to AWE Website please scan your smartphone here

