



JAIVIK RIBBON BLENDER (JVRB)

Introduction

Jaivik Ribbon Blenders are used for homogenous mixing of two or more powder materials with varying densities at a high blending efficiency in a short period of time. Even the smallest quantities added are perfectly distributed thus ensuring the final product's homogeneity.

In addition to mixing, shearing action in the interface provides mild kneading. Jaivik Ribbon Blender is designed such that the outer Ribbon conveys from the end towards the centre, whereas the inner conveys from the centre towards the end. Jacketed designs available for heating or cooling while the outboard bearings and stuffing box are useful for eliminating product contamination.

Working Principle

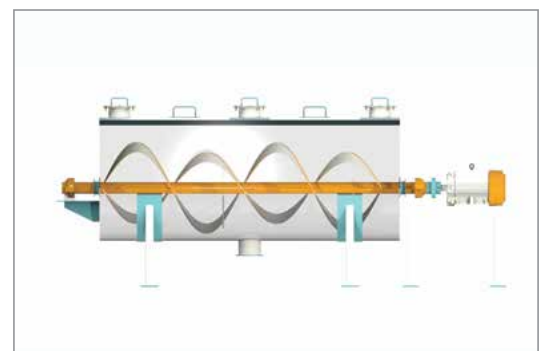
Jaivik ribbon blender equipment comes with a horizontal U shaped trough and a specially developed double helical, fabricated ribbon agitator that rotates within the trough. The direct drive arrangement is more efficient and compact compared to outmoded belt drives which relied on belts. The desired blend volume defines the capacity of the blender. It can blend solids with solids, as well as solids with low or high percentages of liquids to produce smooth pastes or slurries.

Parameters indicated below are controlled independently to achieve required result

- 1) It provides ample space for material flow on the upswing side of the agitator
- 2) Ensures complete agitator contact with batch materials
- 3) Has proper distancing of an optional spray manifold for introducing liquid additions on the downswing side of the agitator, resulting in uniform solids/liquids distribution.
- 4) Minimizes residual product in the trough following discharge, reducing material waste and cleaning time.

The equipment is designed to provide balanced material movement within the container and avoids dead spots while rapidly discharging the product.

Jaivik ribbon blender is made with user-friendly features such as wear resistance, corrosion resistance, vacuum filling and discharge arrangements, special shaft seals, heating and cooling jackets.



Design Features :

- ▶ Fabricated from heavy gauge MS or any other material of construction like SS 304, 304 L, SS 316, SS 316L with polishing
- ▶ Volumetric capacities to suit specific applications
- ▶ Built for longer trouble-free service
- ▶ Designed for maximum homogenous mixing efficiency in leakproof construction
- ▶ Versatile, economical and effective in low-energy agitation requirements
- ▶ Shorter batch time due to contra mixing ribbons
- ▶ Higher shear mixing capabilities
- ▶ Abrasion resistant
- ▶ Dust-free Operation



| Model | Capacity (kg/hr.) | MOTOR (HP) | RPM | Dimensions (L x B x W) | | | Weight (kg) |
|----------|-------------------|------------|-------|------------------------|--------|--------|-------------|
| | | | | Width | Height | Length | |
| JVRB-05 | 100 - 125 | 5 - 7.5 | 25/32 | 550 | 1200 | 1700 | 1050 |
| JVRB-10 | 500 - 600 | 10 - 12.5 | 25/32 | 1604 | 940 | 3158 | 1400 |
| JVRB-15 | 850 - 1000 | 15 - 20 | 15/20 | 1702 | 1042 | 3398 | 2000 |
| JVRB-20 | 1000 - 1200 | 20 - 25 | 20/25 | 2226 | 1192 | 4584 | 2340 |
| JVRB-30 | 1800 - 2000 | 25 - 30 | 20/25 | 2400 | 1300 | 4700 | 2650 |
| JVRB-45 | 2000 - 2400 | 40 - 45 | 20/25 | 3165 | 1368 | 5827 | 4500 |
| JVRB-55 | 2100 - 2500 | 20 - 25 | 20/25 | 2546 | 1646 | 4606 | 4900 |
| JVRB-60 | 2200 - 2500 | 50 - 60 | 15/20 | 2645 | 1646 | 6200 | 5000 |
| JVRB-70 | 2500 - 3000 | 60 - 75 | 18/25 | 2520 | 1512 | 7364 | 6000 |
| JVRB-75 | 2500 - 3200 | 75 - 100 | 20/25 | 3400 | 1746 | 7500 | 6800 |
| JVRB-100 | 3000 - 4200 | 100 - 125 | 15/20 | 4208 | 1662 | 7661 | 9000 |

Applications

Pharmaceuticals, Nutraceuticals, Food & Bakery, Cosmetics, Plastics, Spices, Drink Mixes, Cements, Grouts & Mortar, Soil Remediation, Hazardous Waste Stabilization, Sludge Recovery, Wood Flour, Resins, Coffee and Tea, Tobacco Products, Pesticides, Insecticides & Herbicides, Fertilizer, Detergents, etc.

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