



T A B L E T P R E S S E S

RBM RIBBON BLENDER USER MANUAL

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CAUTION.

Please read these operating instructions carefully before installation, starting up and repair. Inappropriate operation not recommended in the instructions may damage the machine or cause personal injury.

Introduction

The Ribbon Mixer Series consists of five high performance trough format mixing machines for combining powders or pastes into a homogenous end product. They range in size from 100 litres capacity to 500 litres. These blending machines use a thin mixing blade and carefully controlled motion to ensure that the materials are thoroughly combined, without dead spots. With stainless steel contact parts that are easy to clean, and mixing blades that are fully sealed at each end to avoid leakage, they are suitable for both dry powders and semi-liquid materials across a range of applications including the food and chemical industries.

Please read this manual carefully before starting to use your VH Series Powder Mixer.

Technical Specifications

| Model | RBM 100 | RBM 150 | RBM 200 | RBM 400 | RBM 500 |
|-----------------------------|--------------|---------------|---------------|---------------|---------------|
| Mixing cabinet capacity | 100L | 150L | 200L | 400L | 500L |
| Stirring paddle diameter mm | 410 | 480 | 520 | 600 | 700 |
| Stirring rev. | 22/m | 24/m | 24/m | 24/m | 24/m |
| Motor power kw | 1.5 | 3 | 3 | 3 | 7.5 |
| Dimension mm | 1430×540×870 | 1700×600×1100 | 1700×600×1100 | 1700×600×1100 | 2280×700×1150 |
| Weight kg | 250 | 500 | 500 | 600 | 1500 |
| Discharging motor power kw | 0.75 | 0.75 | 0.75 | 0.75 | 1.5 |

Installation

The Ribbon Blending machines should be installed in a clean, dry, well lit and well ventilated room, on a flat, stable surface. Before switching on, check the power supply is correct, and that the machine is properly earthed.

Before use, check the machine carefully to ensure it has not been damaged in transit. Clean the seals for the stirring paddle and mixing cabinet.

Operate the belt by hand to check for free movement, and check the stirring paddle and electrical equipment are in good order.

After switching the machine on check that the stirring paddle does not strike the wall of the cabinet when it moves. Also check that when the machine has been running for a while, the temperature of the bearings remains below 60c.

Operation

When filling the machine prior to use, ensure that there is enough raw material to cover the stirring paddles. This will help give the best mixing results.

Close the cover before starting the machine.

To empty the machine, stop the mixing motor and place the discharge box in front of the cabinet. Remove the top cover, then use the discharge motor or rotate the discharge wheel on the left hand side to incline the mixing cabinet, and remove the mixed product from the cabinet.

NOTE The mixing cabinet can be set at any angle and held there by locking the turbo transmission and worm.

Maintenance

Check the machine thoroughly on a regular basis for signs of wear, and replace any worn or damaged parts immediately before further use. In particular, examine the triangular belt for signs of slackness. If it is loose, adjust it to prevent the belt skidding or abrading.

NOTE Take care not to tighten it too much, as this can cause overheating.

NOTE Each end of the stirring paddle is fixed with screws that can freely adjusted. Use this mechanism to adjust the axial direction of the right power turbine to keep the axis of the worm and worm wheel aligned.

NOTE Ensure that all electrical cables are kept dry.

Lubrication

NOTE Establish a regular lubrication schedule. Proper lubrication is essential to prolonging the service life of the machine.

The stirring shaft's spinning grease cup should be spun manually about six times each shift to ensure the sliding bearings are properly lubricated.

Use 20# machinery oil to fill the turbine cabinets at each end of the machine, using enough oil to immerse the worm and the worm wheel. Change the oil every three months.

The rolling bearings should be lubricated with sufficient calcium based grease to cover one third of the rolling bearing's cavity.