



VR-60 - INSTALLATION & OPERATION MANUAL



INTRODUCTION

The Ibis VR-60 is mainly used as a reserve hopper for the VF-12 Volumetric Feeder, to re-introduce reclaim FLUFF & SAP into a production line. Material is conveyed on-demand by means of a signal sent from controls from the VF-12 to the VR-60 feed rolls drive. The VR-60 is started and material is fed into the VR-60 discharge transition, which is transferred to the VF-12. The levels of material in the VR-60 are controlled by a high & low level sensor. When the low level sensor sees no material, the VR-60 calls for material to be sent. (typically from an Ibis Fluff Separator System) When material reaches high level, the VR-60 high level sensor sends a signal for material to stop feeding into the AVR-60. The VR-60 is designed to partially meter material before the infeed transition, to prevent material surge and promote even feeding.

THEORY OF OPERATION

Soft disposables FLUFF & SAP are conveyed into the VR-60 by means of an Ibis Rotary Condenser or Ibis Pneumatic Separator. On demand from the Ibis VF-12 Volumetric Feeder, the VR-60 feed rolls dose material out the bottom of the VR-60, which is conveyed to the VF-12, until the VF-12 sends a signal to stop. The VR-60 provides a reserve amount of material to feed up to two VF-12's and keeps the VF-12 stocked with material, to prevent a lapse in material feeding into the production line.

INSTALLATION

The Ibis VR-60 comes assembled. Required components are as follows:

- 1) Outlet transition to fluff transfer fan
- 2) Infeed Rotary Condenser or Pneumatic Separator
- 3) Motor and sensor wiring

Please refer to the system layout drawings for additional information regarding assembly.

ELECTRICAL REQUIREMENTS

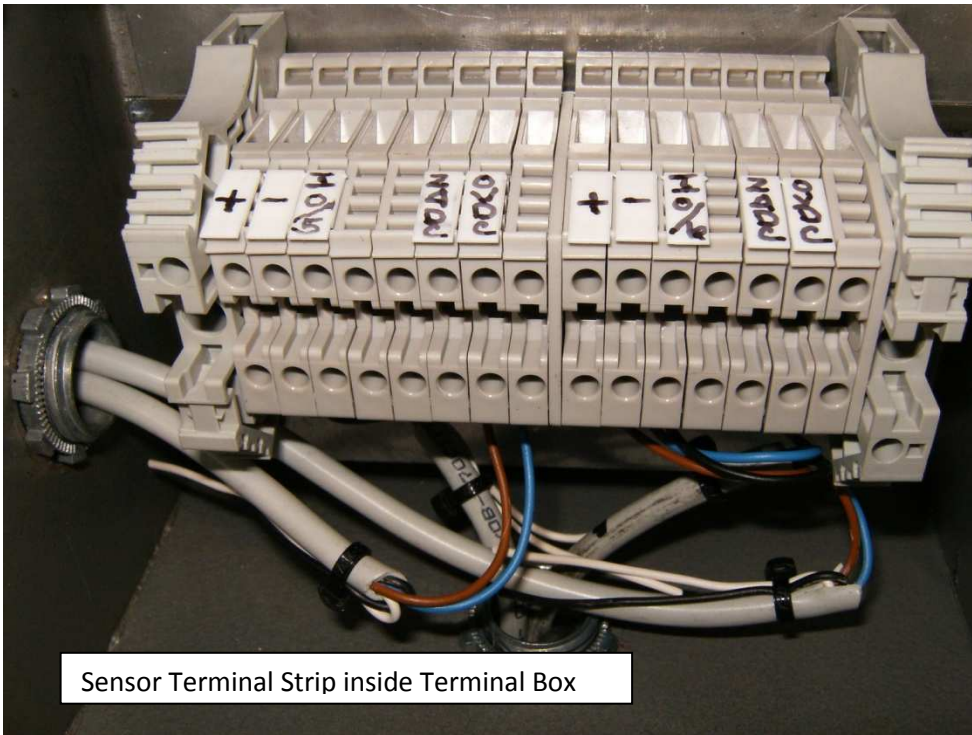
All electrical components correspond to required plant voltage at 50-60HZ and are required to be wired to the control panel for operation and control. Refer to local codes for wire sizes and cabling practices. There is one motor that requires wiring:

- 1) Pin roll drive motor
- 2) Feed Roll Drive Motor
- 3) Level sensors – connection is made by a terminal strip in the conduit box located inside the bottom doors. See Figure 1



Pin Roll Drive Motor

Terminal Box



All controls of the VR-60 are typically controlled by the Ibis control panel. Please refer to the electrical drawings for wiring instructions.

ADJUSTMENTS

There is one adjusting point on the VR-60 that affects the operation. These adjustments are static in nature and must be adjusted according to actual ambient conditions and cannot be set at the factory:

- 1) Feed Roll Speed: Adjusting the VR-60 Feed Roll Speed is made through the HMI on the control panel. Although the VR-60 makes frequent starts and stops, feed roll speed can be adjusted to 'fine tune' the material feed rate to the VF-12.
- 2) Low level delay timer: When material is below the low level sensor, a timer starts to allow the Fluff Separation System to feed material into the VR-60. If there is a problem at the Fluff Separation System and no material is sent, an alarm will be produced to notify the operator of this condition. The length of time before the alarm is made, can be adjusted at the control panel HMI.
- 3)

MAINTENANCE

The VR-60 needs a dedicated operator to add product.

Hourly: Inspect the flow of material through the VR-60 to make certain there are no clogs in the product path or material stuck in front of the sensors.

Daily: Inspect the feed roll and pin roll drives.

Weekly: Inspect the drive belt and chain for any signs of wear.

Monthly: Lubricate all bearings with the proper grease. Check drive reducer oil level and fill if needed.

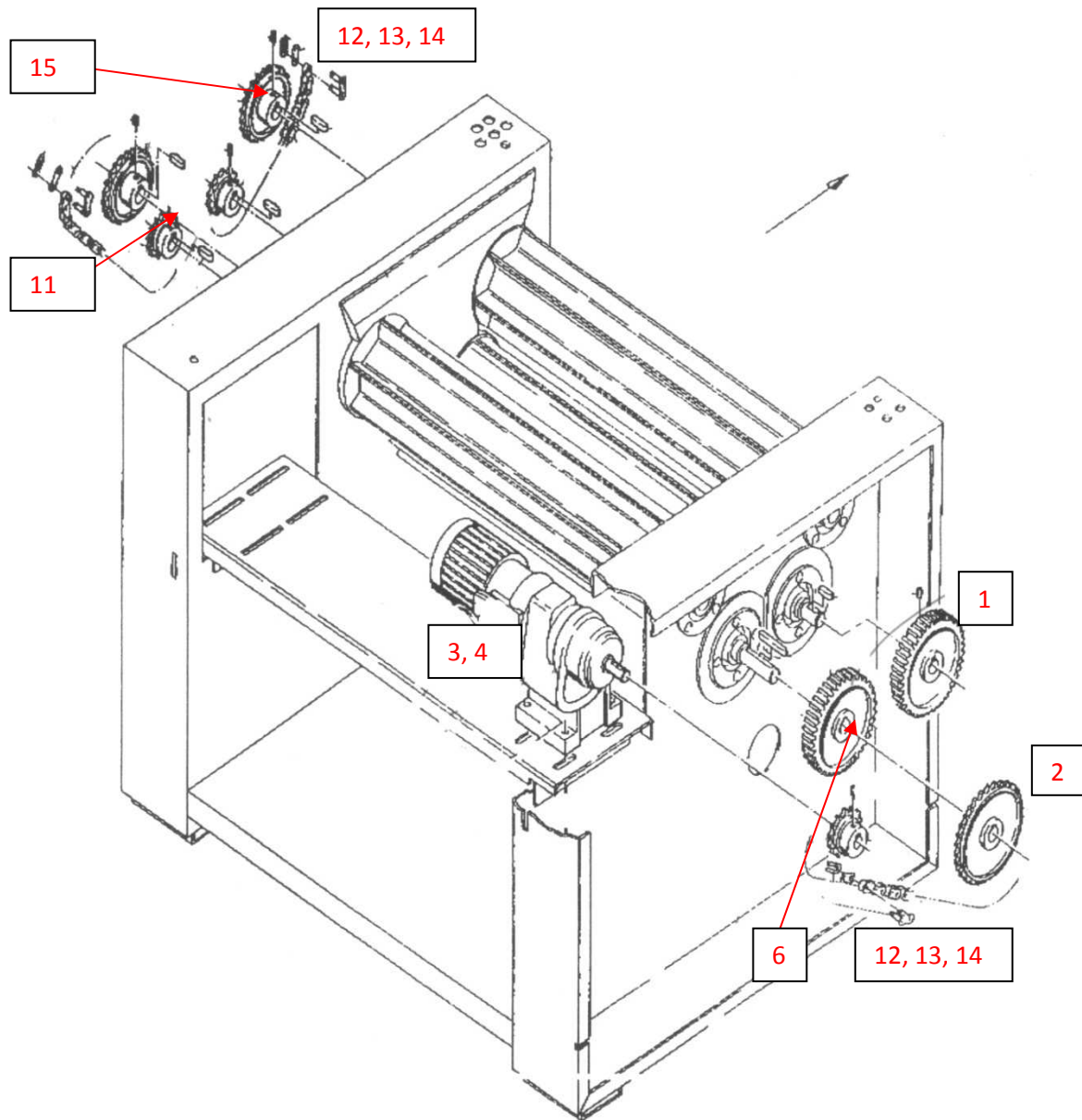
GENERAL NOTE

In high humidity areas, SAP tends to stick to any surface, which is the nature of this product. SAP reacts to water/humidity and steps should be taken to keep the humidity level at or below 55%. Above 55% and you will see a marked change in the behavior of the SAP. SAP will build up on any contact surface if the humidity is above 55% and this is not a design flaw in the Ibis equipment, this is the nature of Sup Absorbent Polymer.

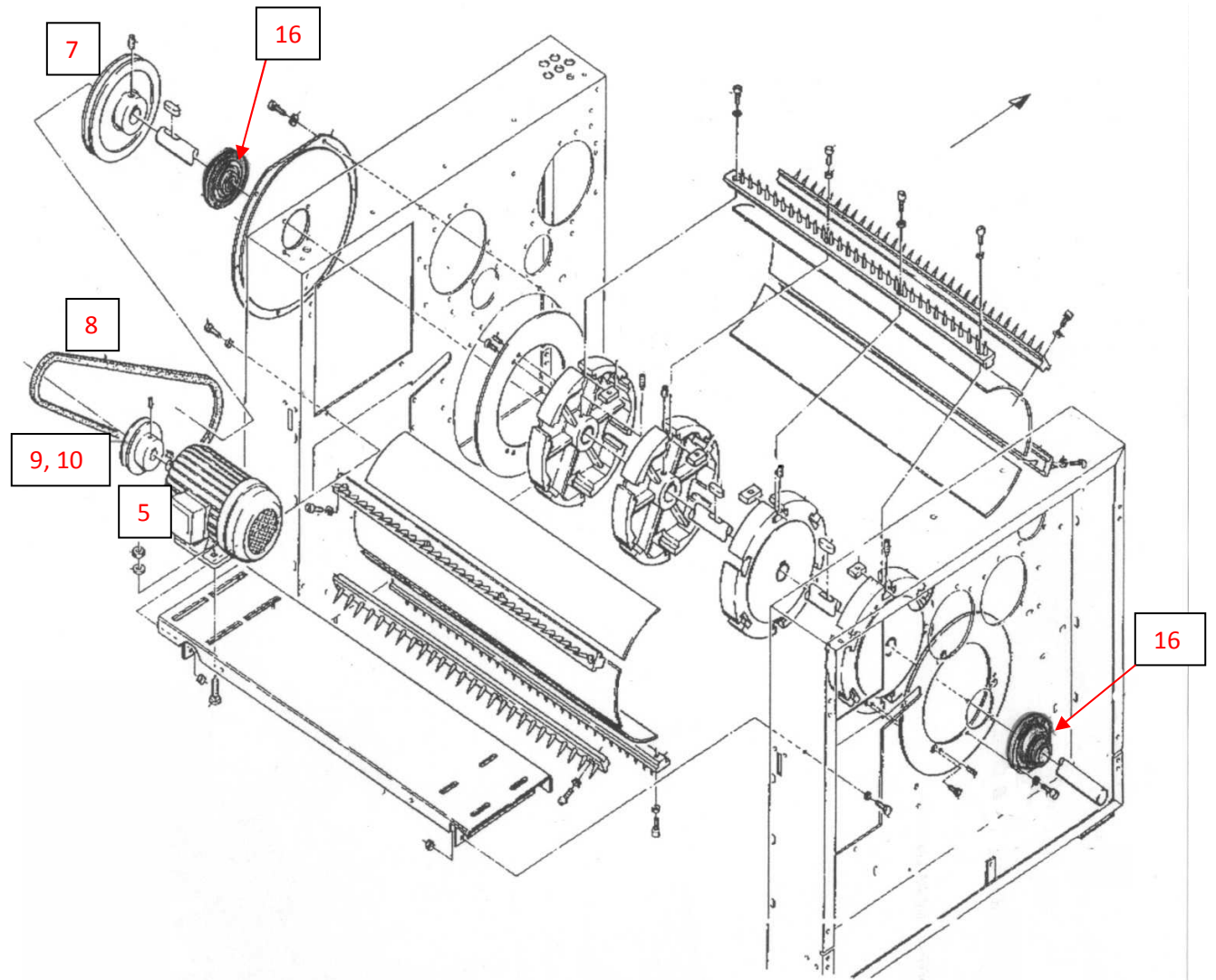
Spare Parts List

When ordering spare parts, please have the following information:

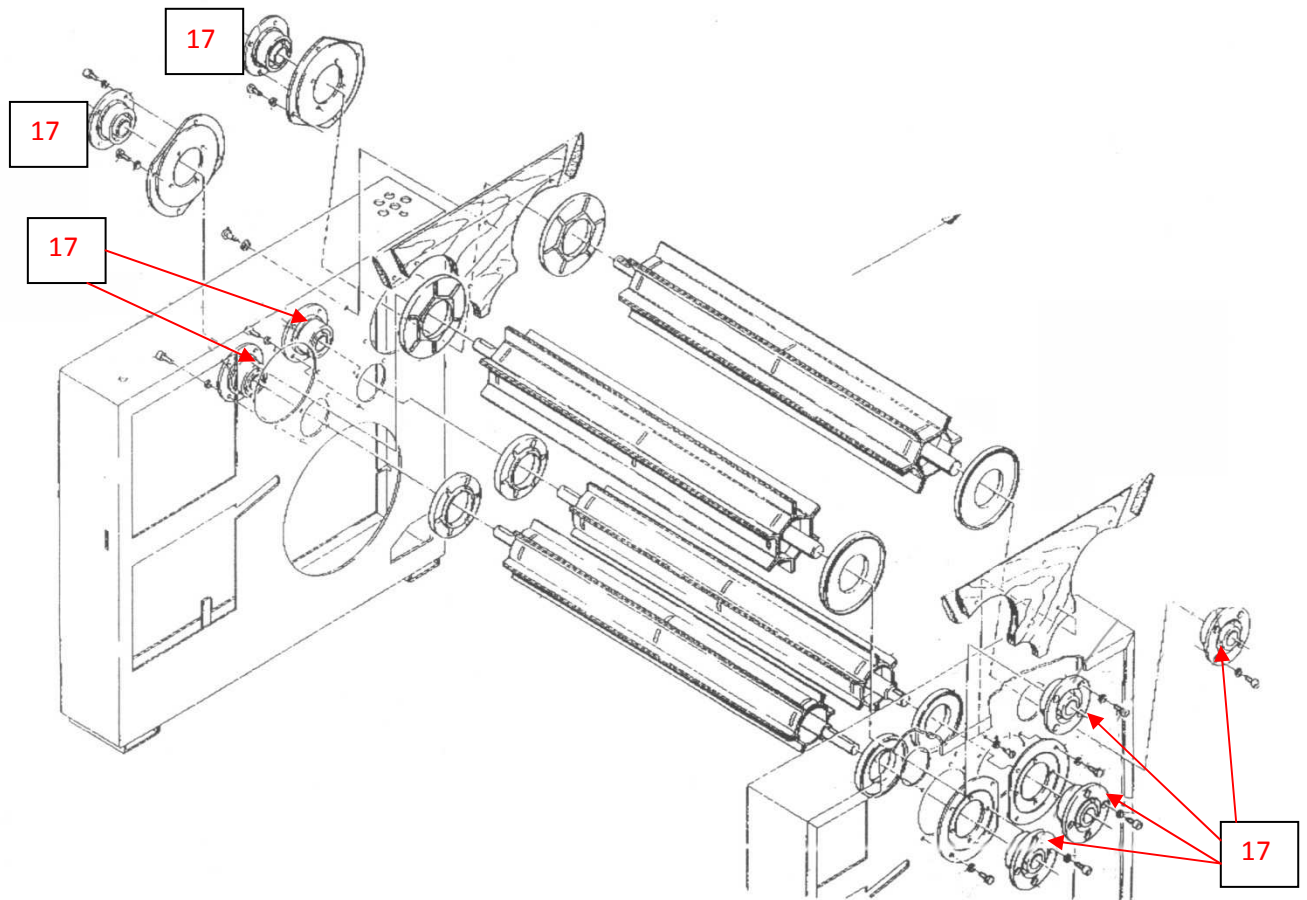
- 1) Equipment Serial Number
- 2) Plant Primary and control voltage



Feed Roll Spare Parts



Pin Roll Parts



Feed Roll Bearings

ITEM		DESCRIPTION	NOTES
1	VR-001	VR-60 Spur gear	
2	VR-002	VR-60 Feed roll driven sprocket	
3	VR-003	VR-60 Feed roll drive motor	460/3/60hz - 380/3/50hz
4	VR-004	VR-60 Feed roll drive reducer	
5	VR-005	VR-60 Pin roll drive motor	460/3/60hz - 380/3/50hz
6	VR-006	VR-60 Feed roll drive sprocket	
7	VR-007	VR-60 Pin roll driven sheave	
8	VR-008	VR-60 Pin roll drive belt	
9	VR-009	VR-60 Pin roll drive sheave	
10	VR-010	VR-60 Pin roll drive bushing	
11	VR-011	VR-60 Bottom feed roll drive sprocket	
12	VR-012	VR-60 Feeder roll drive chain	
13	VR-013	VR-60 Feeder roll drive chain offset link	
14	VR-014	VR-60 Feeder roll drive chain connector link	
15	VR-015	VR-60 Top feeder roll drive sprocket	
16	VR-016	VR-60 Pin roll flange bearing	
17	VR-017	VR-60 Feed roll flange bearing	
18	VR-018	VR-60 # level sensor (emitter)	24VDC
19	VR-019	VR-60 # level sensor (receiver)	24VDC

