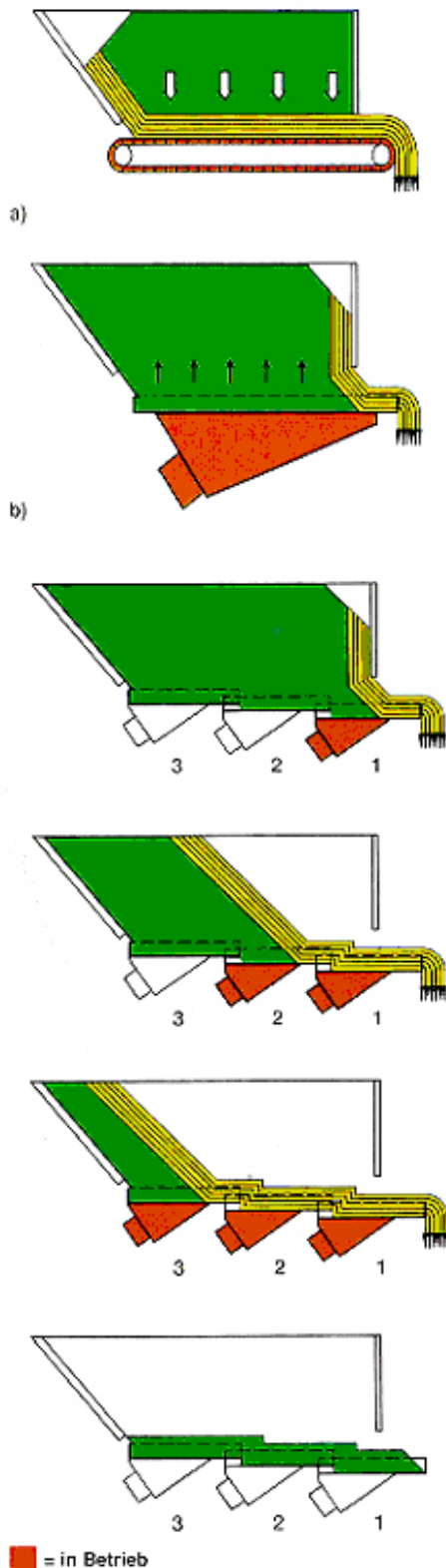


## DISCHARGING SYSTEM EXTROVIB



### APPLICATION AND OPERATION:

Apron feeders (Fig. 1a), chain conveyors or reciprocating feeders are typically used in applications that require bulk materials to be discharged from long slotted hoppers, stockpiles or unloading stations. With these types of conventional discharging systems, the product is conveyed from the back of the hopper to the front that facilitates material compaction at the discharge end, high energy consumption and significant wear.

For conventional hoppers arrangements with square openings, bin discharge feeders (Fig. 1b) have been field proven for many years. However, hoppers with long slotted openings limit the use of typical bin discharge feeders due to the significant material head load the feeder must overcome. Additionally, material flow problems persist because the material is discharged only at the end of the feeder and compacted in other areas.

The patented Extrovib System provides the best solution for these type applications because it alleviates the aforementioned problems. In lieu of one long conveyor, the Extrovib incorporates several heavy duty vibratory feeders connected in series (Fig. 2). The individual vibratory feeders are electronically interlocked so that the feeder (1) at the discharge end operates when the hopper is completely full. Feeder (1) continues to run as it discharges the scarp of material overhead and feeder (2) is activated. The same sequence occurs until all three feeders are running simultaneously and the material is completely discharged from the hopper. The system is set up so that a residual layer of material remains on the feeders for protection against impact damage during the charge of material into the hopper.

Ideally Suited for:

- Long Slotted Hopper Outlets
- Stock pile Unloading

### YOUR BENEFIT:

- Low Energy Consumption as only the feeder(s) at the underneath the material scarp are in operation.
- Electronically Adjustable with pre-set capabilities to handle various types of materials from the same hopper.
- Material Compaction Avoided with unique front (discharge end) to back material flow out of the hopper.
- Machine Wear and Maintenance Costs – minimal wear and maintenance associated with the low maintenance vibratory feeders and efficient average system duty.
- High Storage Capacities up to 3.000 m<sup>3</sup>/h.