



ZKS Vacuum Conveyor Series

Features:

The vacuum conveyor is designed for industrial applications incorporating heavy duty components and is the ideal transfer equipment, used for conveying powder and granular materials, for feeding directly into mixers and processing applications. These systems reduce the likelihood of dust emissions and are GMP certified. They are widely used within the pharmaceutical, foodstuff, feedstuff, chemical, and plastics industries and for general processing material handling applications.

Operating Principle

The vacuum conveyor consists of a vacuum unit (no oil, no water), feeding tube, PE filter, vacuum hopper, automatic control device, pneumatic discharging device, and a compressed air pulsing unit.

The models ZKS-5 and ZKS-6 are newly developed products having the characteristics of low power consumption, high capacity, low noise, and reliable operation. They are the ideal type of equipment for transferring powder and granular materials to mixers and processing equipment, including packers, reactors, etc.

Model	Motor Power	Transmission Capacity
ZKS-1	1.5 kW	400 kg/hr
ZKS-2	2.2 kW	600 kg/hr
ZKS-3	3.0 kW	1200 kg/hr
ZKS-4	5.5 kW	2000 kg/hr
ZKS-5	4.0 kW	3000 kg/hr
ZKS-6	5.5 kW	4000 kg/hr
ZKS-7	5.5 kW	6000 kg/hr

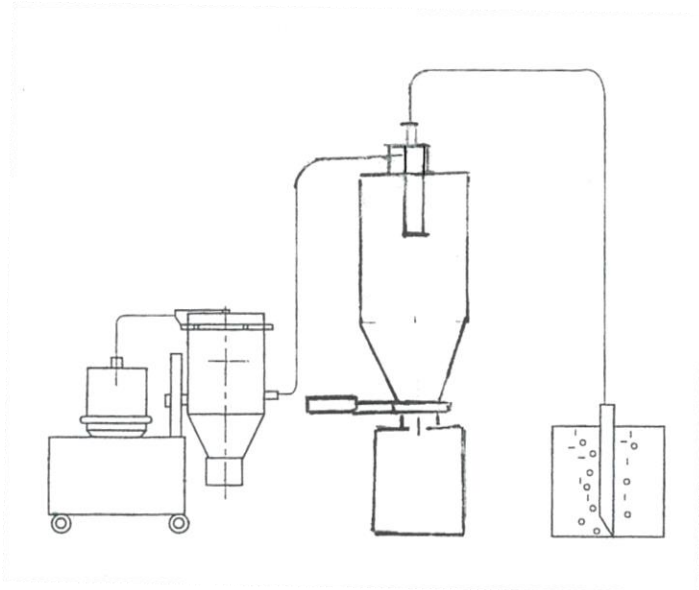


Filters:

		
PE Filters, 0.4µm	Cloth Filters, 0.4µm	316L Filters, 5 µm

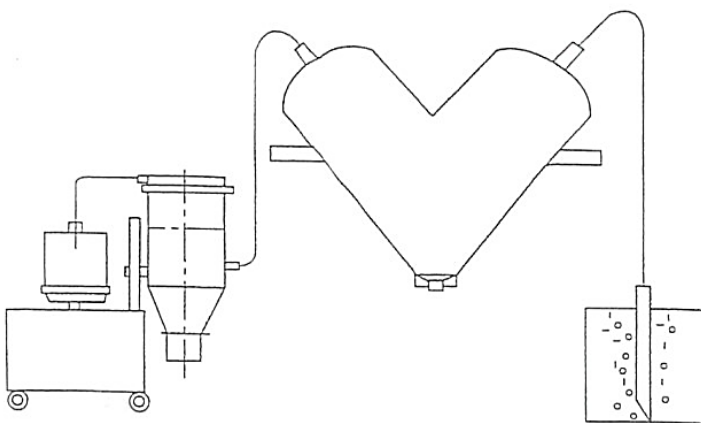
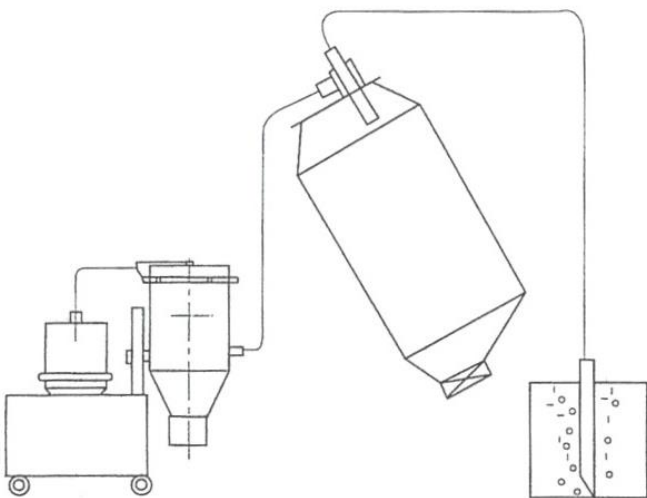


Vacuum Conveying System

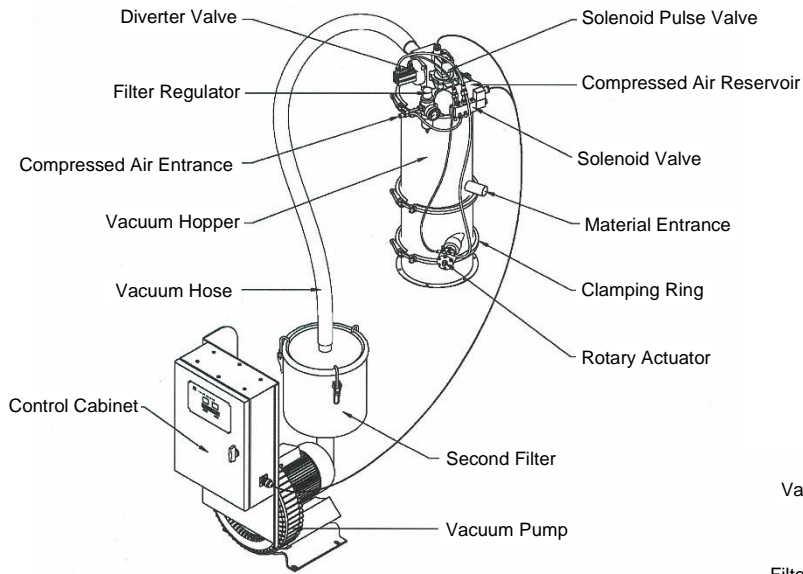


General Description

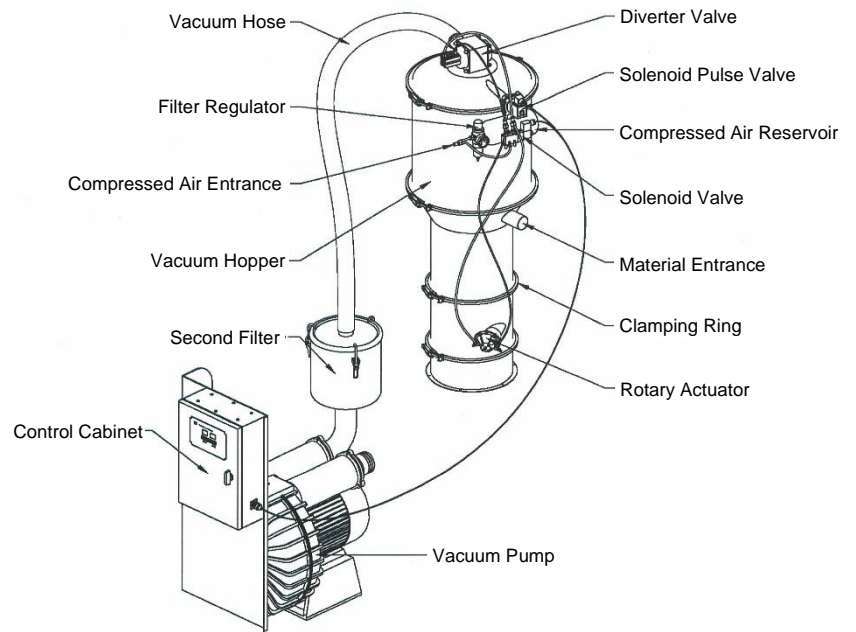
- The ZKS Series Automatic Vacuum Transfer Units operate to efficiently load powders, flakes, and granules into the likes of mixers, processing equipment, and packing stations.
- The unit consists of a suction wand, filter collector complete with reverse pulse sock cleaning, filters, and vacuum pump housed within a hygienic stainless steel assembly.
- The receiving hopper may be stationed remotely from the vacuum unit for convenient installation and may be fitted with alternative types of discharge including slide gate valve, butterfly valve, or rotary valve.



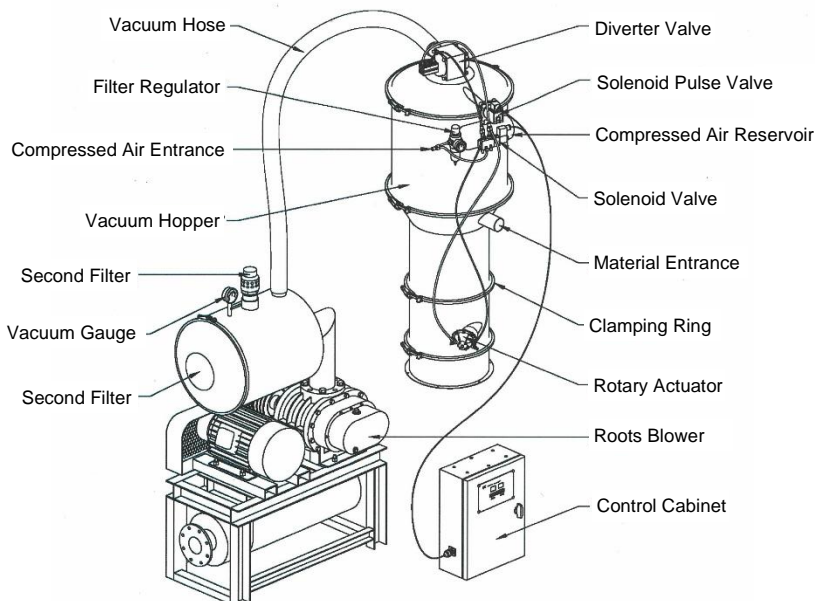
Standard Systems



**ZKS-1/2 Schematic Diagram
Drawing 1**



**ZKS-3/4 Schematic Diagram
Drawing 2**



**ZKS-5/6/7 Schematic Diagram
Drawing 3**

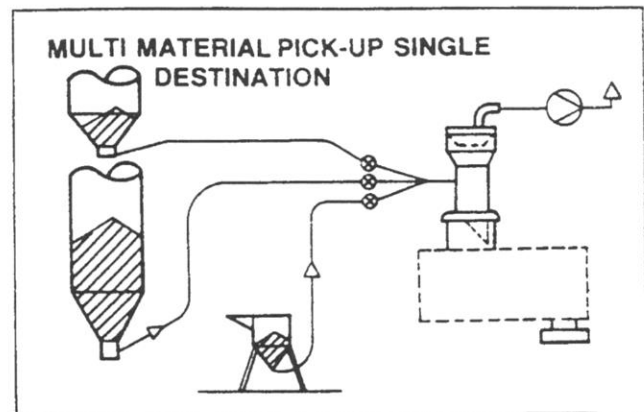
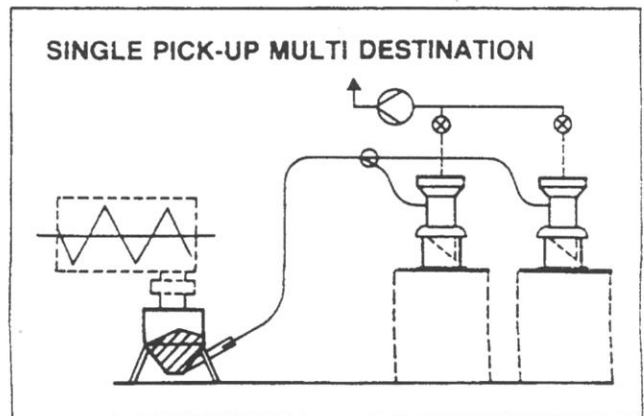
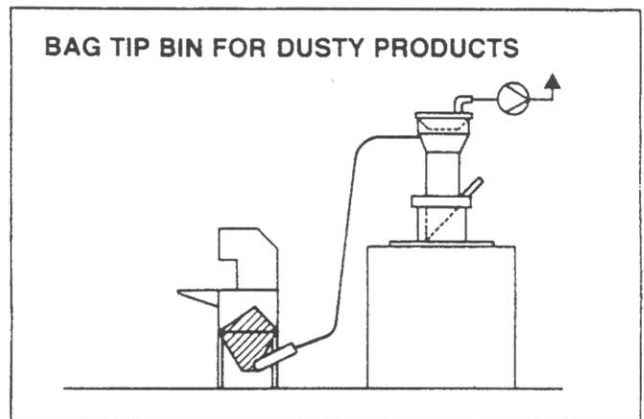
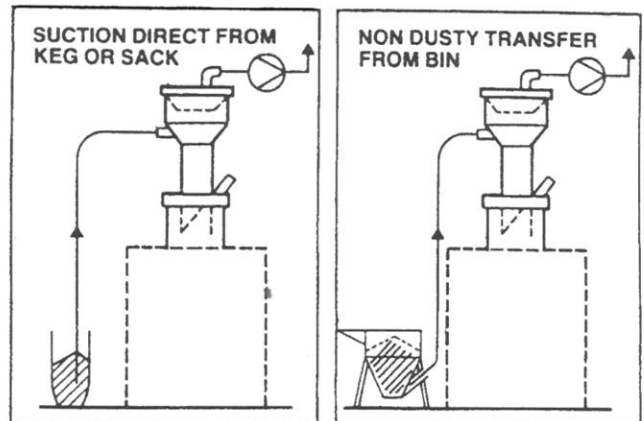
Standard Systems

With the advanced systems in lean phase pneumatic conveying technology, Grain Tech Ltd have an enviable reputation for the clean, contained conveying of dry solids. Many of these systems manage a myriad of substances for all types of processes, granules for the plastics processor, powders for the pharmacist, sugar for the food manufacturer. Each Grain Tech system is individual in providing a perfect conveying answer to each particular situation, resulting in an amazing diversity of applications.

The applications of Grain Tech Conveying Systems are limited only by the imagination it has been said, and this is still valid today. Over the years, Grain Tech Ltd has been called upon to meet the ever-changing requirements of bulk material processors, leading to this diversity.

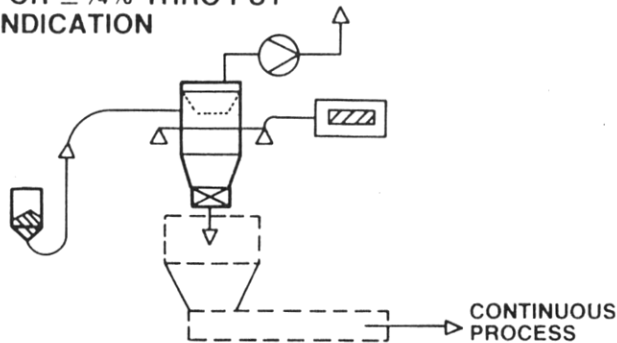
This brochure illustrates a few of the phenomenal range of duties undertaken by Grain Tech Systems and encourages the exploration of applications as yet undiscovered. Grain Tech Systems do not only convey material from one point to another, they also weigh and batch, mix and blend, sieve and sort, dose and dry. And as processors' requirements change and new variations are incorporated, so this list will expand.

Grain Tech's excellence in Pneumatic Conveying Technology is achieved through simplicity of concept and reliability of design. Each system is the result of applying well researched and already proven components to state-of-the-art technology, combined to provide the optimum conveying answer. In this way, every customer benefits from Grain Tech's System leadership, ensuring operating efficiency and guaranteeing quality and performance.

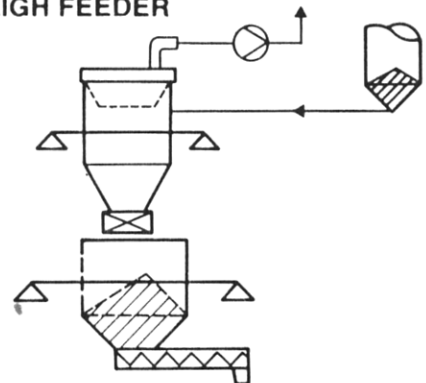


Weighing Systems

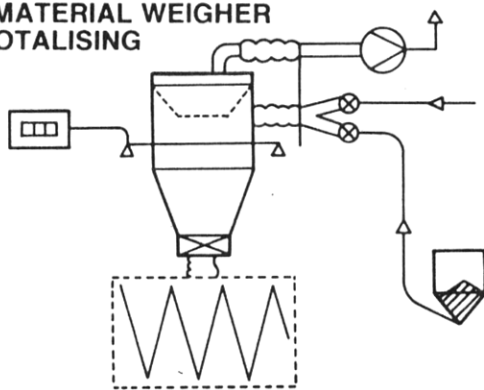
**RANDOM WEIGHT TOTALISING SYSTEM
FOR $\pm 1/4\%$ THRO'PUT
INDICATION**



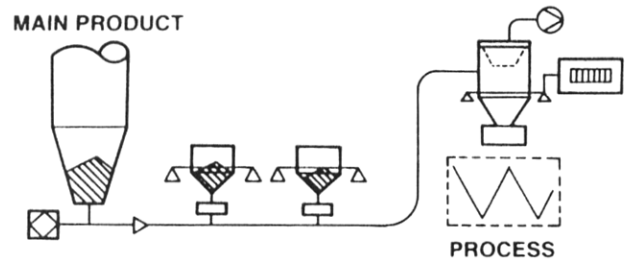
**LOSS IN WEIGH FEEDER
"TOP UP"**



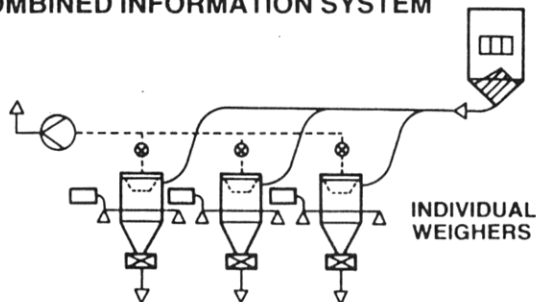
**MULTI-MATERIAL WEIGHER
WITH TOTALISING**



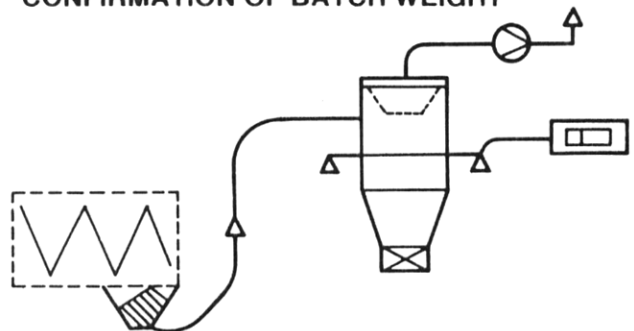
SINGLE LINE MULTI ADDITIVES WEIGHER



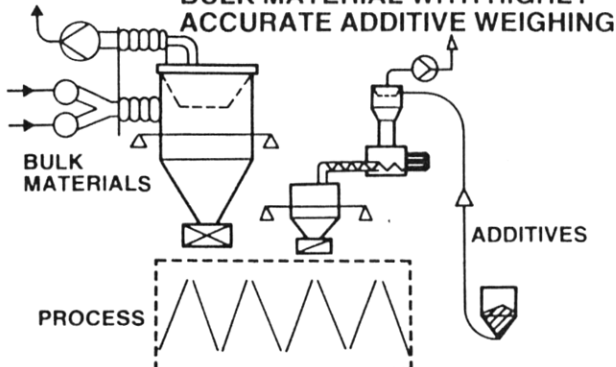
**LINE THRO'PUT & SILO CONTENTS
COMBINED INFORMATION SYSTEM**



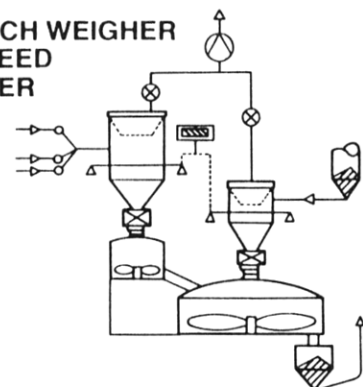
CONFIRMATION OF BATCH WEIGHT



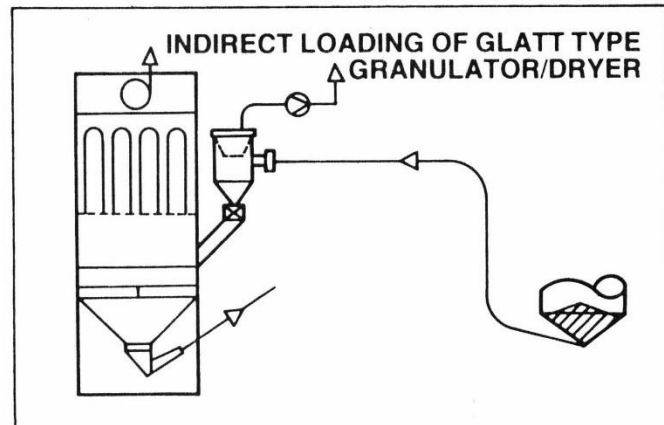
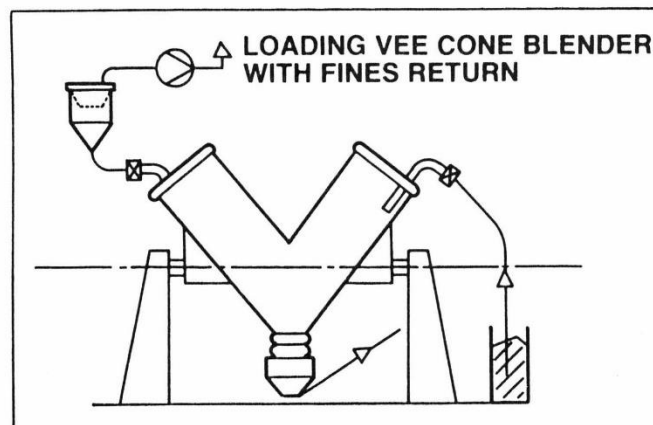
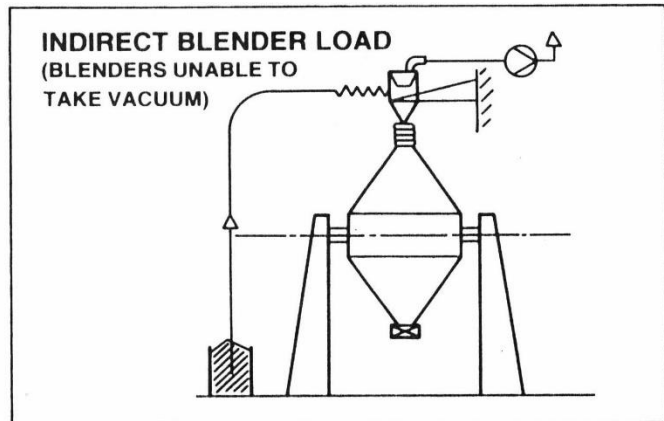
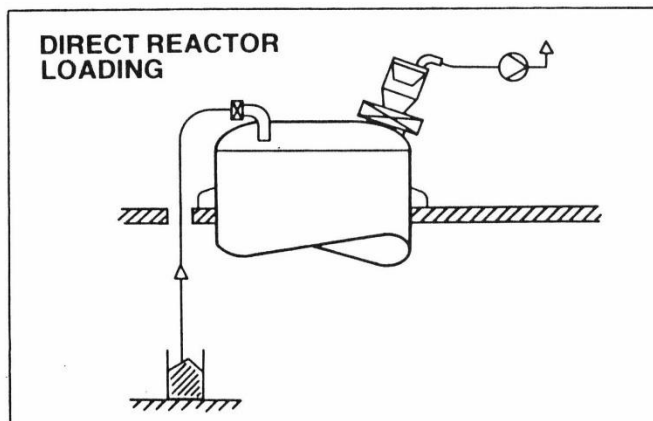
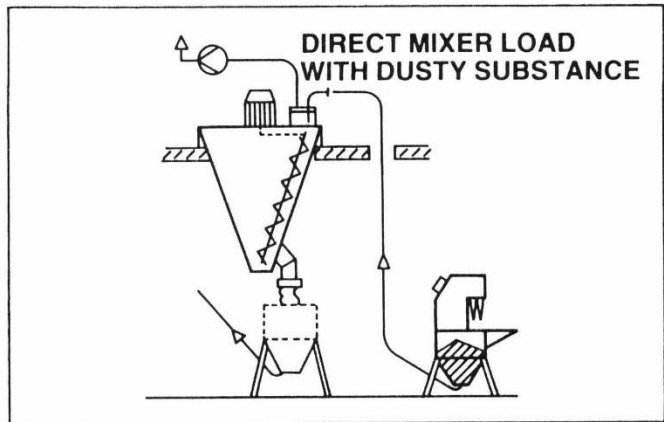
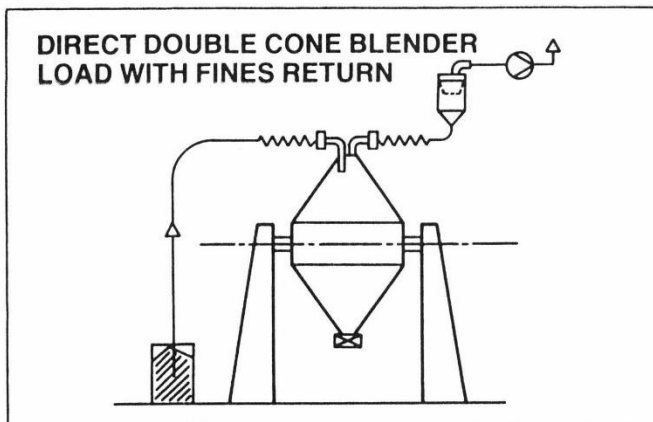
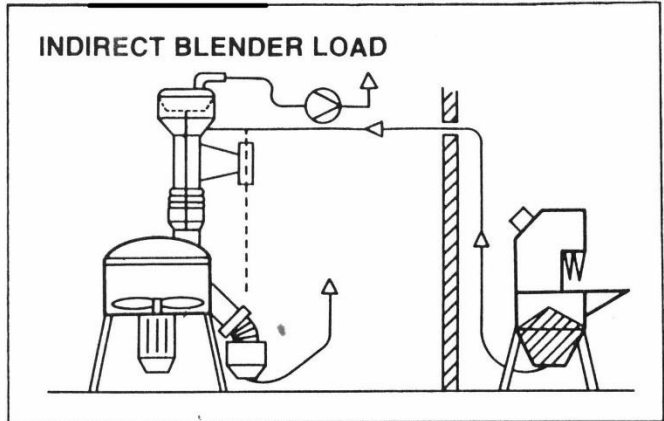
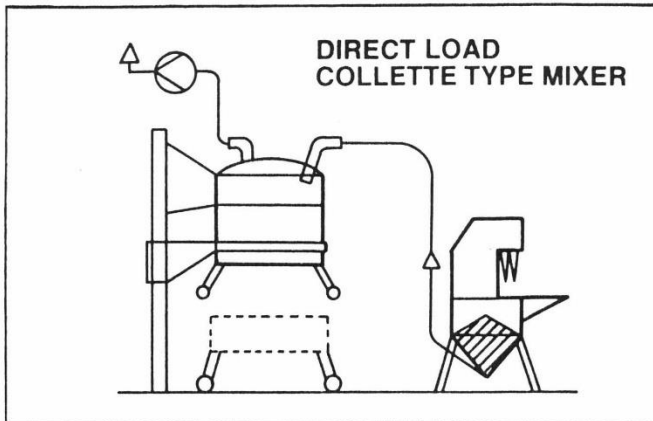
**BULK MATERIAL WITH HIGHLY
ACCURATE ADDITIVE WEIGHING**



**DOUBLE BATCH WEIGHER
FOR HIGH SPEED
MIXER/COOLER**

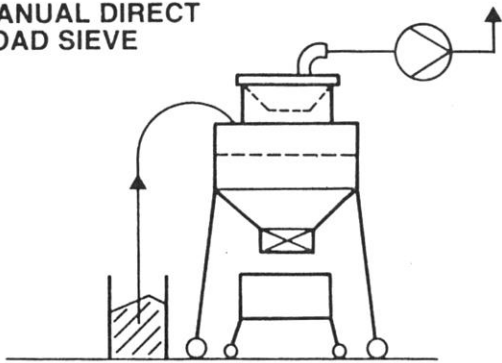


Blending Systems

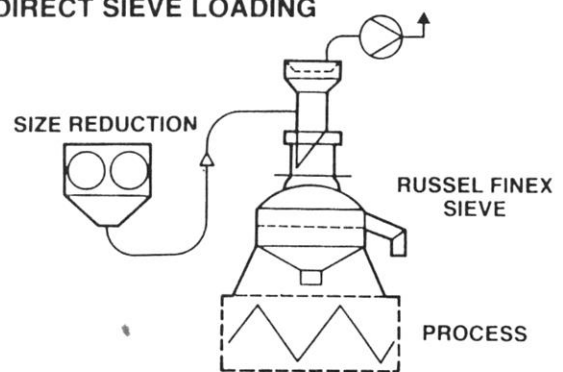


Sieving Systems

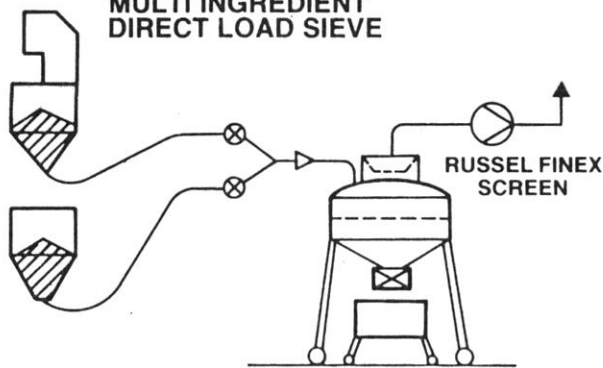
**MANUAL DIRECT
LOAD SIEVE**



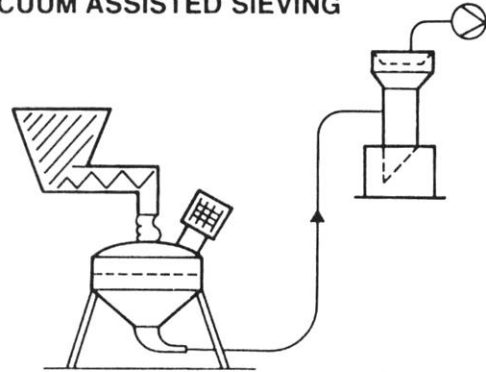
INDIRECT SIEVE LOADING



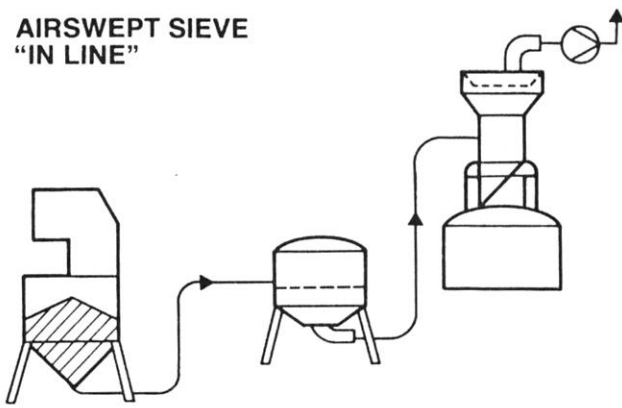
**MULTI INGREDIENT
DIRECT LOAD SIEVE**



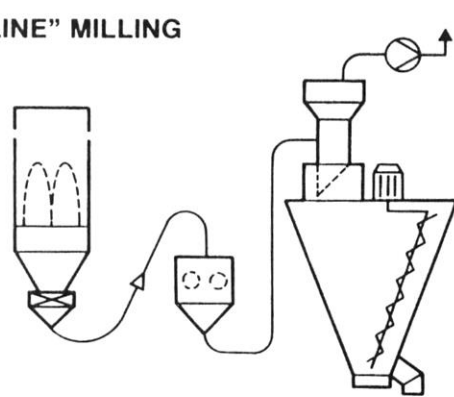
VACUUM ASSISTED SIEVING



**AIRSWEEP SIEVE
"IN LINE"**



"IN LINE" MILLING



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OFFERS TOTAL CAPABILITY IN
EQUIPMENT SYSTEMS & PROCESSORS FOR
Particle Size Reduction, Milling, Crushing, Sifting,
Classifying, Mixing, Pelleting, Agglomeration,
Extruding, Bulk Material Handling, Drying,
Cooling, Conveying & Packaging