

Synergy Technologies (Ahmedabad) is an ISO 9001:2008 company, is manufacturer of high-tech Material Handling Equipments and Process & Analytical Instruments systems used in Power Generation, Petroleum, Petrochemicals, Polymer processing, Fertilizers and other process industries requiring very high standards of process operations and control. Synergy Technologies has been dealing with bulk ingredient feeding, weighing, discharging and flow metering Application. During this time, it has grown to become one of well-known suppliers in these fields With Head office in Ahmedabad & regional offices in Chennai, Mumbai. Our range includes volumetric feeder & Gravimetric feeder system with single Screw (for free flowing pellets and powders) and twin screw (for Difficult to flow material) feeding system.

1) Single Screw Gravimetric Feeder

Application

The LWSSF feeder is designed to provide gravimetric feeding of pellets, granules, free flowing powders and other bulk materials.

Design

Single screw feeder with interchangeable feed screws is mounted on C2 scale. The scale material is stainless steel and the scale housing is completely enclosed. All parts contact with material being fed are stainless steel. The feeder is easily disassembled for cleaning or change-over. Special design of feeding bowl is unique and patented. Controller and Operation Interface (see separate specification sheet) The Operation Interface allows for individual unit and recipe control. Each feeder has its own control board. Connection between control boards and operation interface is supported by industrial protocol.



Feed Model	Feeding rate	Material	Hopper
LWSSF-S28	20-200 L/h	Pellet, free flowing powder, etc.	40 L
LWSSF-S46	100-500 L/h	Pellet, free flowing powder, etc.	40/80/150L
LWSSF-S64	400-1600 L/h	Pellet, free flowing powder, etc.	40/80/150L

2) Twin Screw Gravimetric Feeder

Application

The LWTSF feeder is designed to provide high accuracy and feeding program for a wide variety of materials including poor flowing powders, fibers and flakes.

Design

Twin screw feeder with interchangeable feed screws is mounted on C2 scale. The scale is stainless steel and the scale housing is completely enclosed. All material contact parts are stainless steel. The feeder is easily disassembled for cleaning or change over. Special design of feeding bowl is unique and patented, horizontal agitator is equipped to improve material filling into screw flight. Vertical agitator is an option for poor flowing powder in case of bridging.

Controller and operation interface (see separate specification sheet) The LWTSF operation interface allows for individual unit and recipe control. Each feeder has its own control board. Connection between feeder, control boards and operation interface is via industrial protocol.



Feed Model	Feeding rate	Material	Bulk Density	Hopper
LWTSF-T28	10-100 Kg/hr.	Fiber, poor flowing powder, flake, etc.	0.5-0.6	10L/40L/80L/120L
LWTSF-T38	60-600 Kg/hr.	Fiber, poor flowing powder, flake, etc.	0.5-0.6	10L/80L/120L/180L
LWTSF-T46	600-3000 Kg/hr.	Fiber, poor flowing powder, flake, etc.	0.5-0.6	120L/180L/300L

3) Single Screw Volumetric Feeder

Application

The VSSF feeder is designed to provide volumetric feeding for a wide variety of materials including pellets, granules and free flowing powders.

Design

Single screw feeder with interchangeable feed screws is mounted on Painted steel base plate. All material contact parts are stainless steel. The feeder is easily disassembled for cleaning or change-over. Special design of feeding bowl is unique and patented.

Motor speed Controller

Frequency Inverter will be used for motor speed controller. Frequency Inverter also can be supplied by customer.



Feed Model	Feeding rate	Material	Hopper
VSSF-S28	2-100 L/h	Pellet, free flowing powder, etc.	40 L
VSSF-S46	100-500 L/h	Pellet, free flowing powder, etc.	40/80/150L
VSSF-S64	400-1000 L/h	Pellet, free flowing powder, etc.	40/80/150L

4). Twin Screw Volumetric Feeder

Application

The VTSF feeder is designed to provide volumetric feeding program for a wide variety of materials including poor flowing powders, fibers and flakes.

Design

Twin screw feeder with interchangeable feed screws is mounted on painted steel base plate. All material contact parts are stainless steel. The feeder is easily disassembled for cleaning or change over. Special design of feeding bowl is unique and patented, horizontal agitator is equipped to improve material filling into screw flight.

Controller

The VTSF control system allows for easy adjustment and precise control. Each feeder's governor is selected by customers to fulfill open-loop control.



Feed Model	Feeding rate	Material	Bulk Density	Hopper
VTSF-T28	10-150 Kg/hr.	Pellet, free flowing powder, etc.	0.5-0.6	10L/40L/80L/120L
VTSF-T38	100-500 Kg/hr.	Pellet, free flowing powder, etc.	0.5-0.6	10L/80L/120L/180L
VTSF-T46	600-3000 Kg/hr.	Pellet, free flowing powder, etc.	0.5-0.6	120L/180L/300L