

Model 1 STINGER® Feeder with STS STINGER® Tube

APPLICATION:

Loss-in-weight, Gain-in-weight Batch Feeding, Continuous Gravimetric Feeding or Volumetric Feeding of fine cohesive powders and difficult to handle materials.

A FEW OF THE COMMON MATERIALS HANDLED:

- | | | | | |
|---------------------|-------------------|----------------|----------------------|---------------------------------|
| - Adipic Acid | - Carbon Black | - Fly Ash | - Metal Powders | - Powdered Sugar |
| - Aluminum Oxide | - Ceramic Powders | - Fumed Silica | - Sodium Bicarbonate | - Pigments |
| - Antomite | - Corn Flour | - Iron Oxide | - Powdered Minerals | - Spices |
| - Borax | - Clays | - Lime | - Polymers | - Titanium Dioxide (all grades) |
| - Calcium Carbonate | - Dextrose | - Magnetite | - Powdered Ceramics | - Zinc Oxide |

FEED RATES:

Note: Feed rates will vary based on feeder configuration and material properties. Approximate capacities listed below

Feeder Tube Size		Capacity	
Inches	mm	ft ³ /hr	Liters/hr
1.00	25	.08 - 4.3	2.3 - 121
1.50	38	8 - 11	28.3 - 312
2.00	51	2 - 30	57 - 850
3.00	76	7 - 100	198 - 2,832

Feeder Tube Size		Capacity	
Inches	mm	ft ³ /hr	Liters/hr
4.00	102	17 - 250	481 - 7,080
5.00	127	26 - 400	736 - 11,330
6.00	152	50 - 800	1,416 - 22,654



Easily removable auger and drive assy

FEED HOPPER:

STINGER® Feed Hopper with built in SilentFlow® Discharger conditions material and discharges it into the feeder tube without the use of any moving parts or vibration

Features:

- Standard hopper capacities range from .3 to 30 cu. ft. (8.5 to 850 liters)
- Standard hopper sizes range from 12" to 36" square.
- Removable covers available in painted carbon steel or stainless steel

SUPPORT FRAME:

- Skirt supported for compact low head room design
- Hanging mount frames are available as a special option

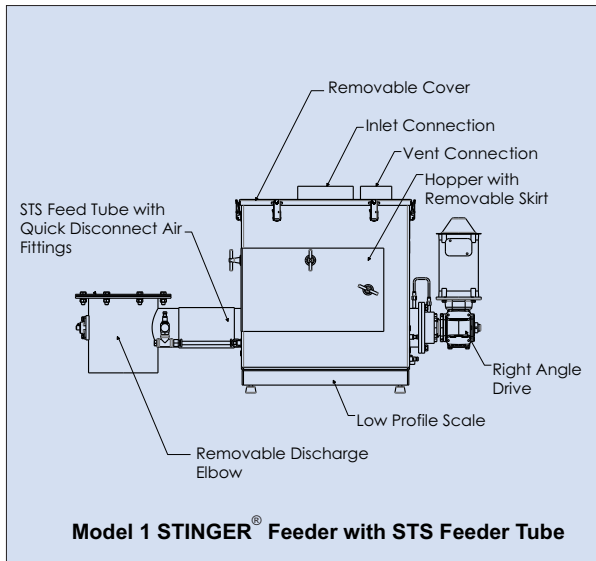
SCALE:

- Precision platform type scale for stable accurate weighing
- Available in carbon steel or stainless steel
- Standard scale capacities range from 30 to 5,000 lbs. (13.6 kg. to 2,272 kg.)

Note: Actual scale capacity needed is based on material bulk density and feeder configuration



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TECHNICAL DATA:

MATERIALS OF CONSTRUCTION:

Per customer order requirements, available options include:

Housing:

- Option 1: Painted Carbon Steel Exterior with bare metal interior
- Option 2: 304 Stainless Steel
- Option 3: 316 Stainless Steel

Standard Cover:

- 18" to 36" dia. sizes: Removable cover
- Constructed of light weight High Density Polyethylene (HDPE)

Support Frame (If Required):

- Option 1: Painted Carbon Steel
- Option 2: 304 Stainless Steel

Feeder Tube:

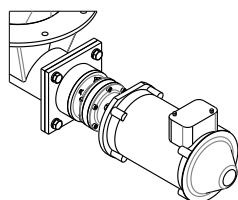
- Standard: 304 Stainless Steel Housing with 316 Stainless TransFlow Fluidizing Media
- Option 1: 316 Stainless Steel Housing with 316 Stainless Steel TransFlow Fluidizing Media

Auger:

- Option 1: Replaceable High Density Polyethylene fighting on rigid 304 Stainless Steel Hex Shaft
- Option 2: 304 Stainless Steel
- Option 3: 316 Stainless Steel

Assembly Hardware

- Standard: Plated Carbon Steel
- Optional : 8-18 Stainless Steel



Concentric Drive Option

TEMPERATURE RANGE:

Scales are temperature compensated from 14° F to 104° F (10° C to 40° C)

COMPRESSED AIR/GAS USAGE

Pressure: 10 to 30 psig

Feeder Size	Flow Rate
12"	5 - 12 SCFM
18"	11 - 25 SCFM
24"	20 - 50 SCFM
36"	36 - 90 SCFM

Air or gas volume depends on feeder hopper, tube size and materials handled.

CONTROLS:

The Young Industries Model STS-2 Feeder is suitable for either Batch Feeding, Continuous Gravimetric Feeding, or Volumetric Feeding. The controls package set up determines the actual feeder package operation. Our family of Young Industries TOUCHSTONE™ controllers are designed to work seamlessly with each of our STINGER® Feeders. Customers may choose a suitable Batch, Continuous, or Volumetric control system to meet your specific application needs.

Standard TOUCHSTONE™ features include:

- Ships pre-configured for quick setup.
- NEMA 4 enclosure with optional upgrade to explosion proof enclosure.
- Features Quick Disconnect Electrical Fittings for quick and easy maintenance.
- See Product Specification Sheet No. 270-405-1 for more information.

ELECTRICAL AREA CLASSIFICATIONS:

- Standard NEMA 4
- Optional NEMA 4X
- Optional NEMA 7/9

POWER REQUIREMENTS:

- TOUCHSTONE™ controls: Universal Input Voltage accepts 120-220 V/50-60hz, single phase electrical supply.
- Instrument power: Standard 24V DC

DRIVE:

Motor:

- Option 1: 1/8 - 5 HP, 230/460 Volts, 3 ph, 50 -60 Hz.
- Option 2: 1/16 - 2 HP, 90 or 180 Volts, DC Motor.
- Option 3: Stepper Motor, NEMA 4 or NEMA 7/9.
- ** Explosion proof and wash down rated motors are also available as special options. Contact Young Industries for further information.

Gear Reducer Orientation:

- Option 1: Right Angle Drive
- Option 2: Concentric Drive
- Standard features - Neither drive is orientation specific and can be located where needed in 90 degree increments.



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