



Model 2 STINGER® Feeder with ST Feeder Tube

APPLICATION:

Fastest batch weighing of fine difficult to handle materials without the use of any moving parts.

DESIGN FEATURES:

- Modular design provides easy, economical configurations that best suits your needs.
- No motors or moving parts are needed to condition or convey material.
- Highest turn down rate (500:1) for reducing your process time.
- Batch Accuracy up to +/- .1 Lbs.
- Standard inlet to discharge lengths from 1' to 20'. Longer lengths are also available as options.
- Wide range of standard hopper sizes
- Feed rates up to 50,000 lbs./hr. provide fast accurate batches
- Feeder Tube features Young Industries STINGER® Technology
- STINGER® Feed Hopper features a built in Young Industries SilentFlow® Discharger that conditions material without any moving parts or vibration
- Available in NEMA 4 or Explosion Proof designs

UNIQUE DESIGN QUALITIES:

- No Auger means no moving parts to wear out or replace
- Low energy costs
- No safety hazards common to screw augers
- No vibration to disrupt scale
- No bearings or motors to maintenance or replace
- Minimal maintenance
- Dependable service

A FEW OF THE COMMON MATERIALS HANDLED:

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

FEED RATES:

Note: Feed rates will vary based on feeder configuration and material properties.

Approximate capacities listed below

| Feeder Tube Size | | Maximum Capacity | |
|------------------|----|------------------|-------|
| Inches | mm | Lbs/hr | Kg/hr |
| 1.50 | 38 | 3,600 | 1,636 |
| 2.00 | 51 | 6,000 | 2,727 |
| 3.00 | 76 | 12,400 | 5,636 |

| Feeder Tube Size | | Maximum Capacity | |
|------------------|-----|------------------|--------|
| Inches | mm | Lbs/hr | Kg/hr |
| 4.00 | 102 | 24,000 | 10,909 |
| 5.00 | 127 | 36,000 | 16,364 |
| 6.00 | 152 | 50,000 | 22,727 |

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 1 to 500 cu. ft. (27 to 14,160 liters)
- Standard diameters range from 18" to 96" Diameter (45.7 cm to 244 cm)
- Removable covers available in carbon steel or stainless steel
- Optional manway access hatch available for sizes 48" - 96"

SUPPORT FRAME:

- Standard support frame with three rigid support legs providing sure footed design and maximum scale accuracy.
- Hanging mount frames are available as a special option

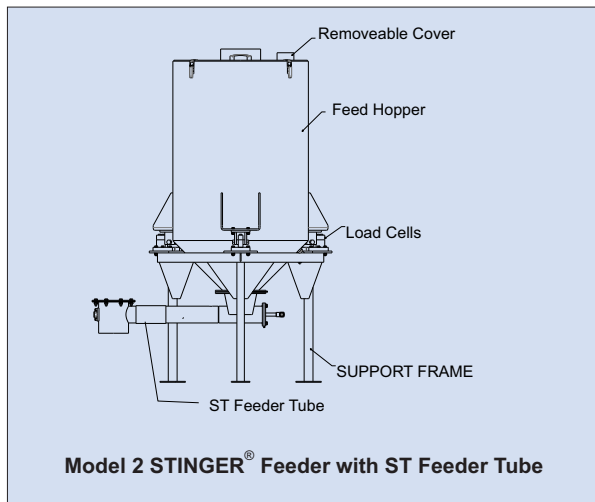
SCALE:

- Three modules centered under load scale for stable accurate weighing
- Available in carbon steel or stainless steel
- Standard scale capacities range from 300 to 60,000 lbs. (136 kg. to 27,000 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:
Feed Hopper:

- Option 1: Painted Carbon Steel Exterior with bare metal interior
 - Option 2: 304 WPC Stainless Steel
 - Option 3: 316 WPC Stainless Steel
- Note: All interior TransFlow® lined surfaces constructed of 316 Stainless Steel

Standard. Hopper Cover:

- Removable cover for sizes 18" to 36" diameter of High Density Polyethylene (HDPE)
- Welded cover with hatch for 48" to 96" diameter sizes.

Support Frame:

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

Feeder Tube:

- Standard - 304 Stainless Steel Housing with 316 Stainless Steel TransFlow® Fluidizing Media
- Option 1: Carbon Steel with 316 Stainless Steel TransFlow® Fluidizing Media
- Option 2 - 316 Stainless Steel Housing with 316 Stainless Steel TransFlow® Fluidizing Media

Assembly Hardware: 8-18 Stainless Steel

INTERIOR PRESSURE:

Operates at ambient pressure
Standard Design Pressure - 10" W.C.
Custom Design Pressure up to 150 PSIG

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
Volume:

| Feeder Size | Flow Rate |
|-------------|----------------|
| 18" | 4 - 11 SCFM |
| 24" | 8 - 21 SCFM |
| 36" | 20 - 50 SCFM |
| 48" | 35 - 90 SCFM |
| 60" | 56 - 150 SCFM |
| 72" | 80 - 200 SCFM |
| 96" | 140 - 400 SCFM |

Usage dependent on feeder hopper, tube size and materials handled

CONTROLS:

The Young Industries Model ST-2 Feeder is suitable for use loss-in-weight or gain-in-weight batch applications. The controls package 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, control to meet your feeder and 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

ELECTRICAL AREA CLASSIFICATIONS:

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

POWER REQUIREMENTS:

TOUCHSTONE™ controls: Universal input voltage accepts 110 - 220Volts, 50/60hz single phase electrical supply. Instrument power: Standard 24V DC

DRIVE: (Not Required)

Because the "ST-2" STINGER® Feeder uses STINGER® Technology and is capable of making fast, accurate, consistent weighments without any moving parts, there is no need for a drive system or a motor. This smart, economical design not only saves money through reduction in spare parts but also results in savings via reduced utility and maintenance costs.



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