

GSI INTERSYSTEMS

INDUSTRIAL SAMPLING

**SAMPLING SYSTEMS
FOR BULK MATERIALS**



Take control.

INDUSTRIAL SAMPLING

GSI InterSystems Industrial Sampling systems are engineered to deliver accurate, repeatable, and representative samples. Built for rugged, real-world conditions, our samplers integrate seamlessly into gravity or pneumatic lines and can be installed in chutes or at the end and middle of moving belts.

With robust construction and flexible configurations, including automatic collection and control options, GSI InterSystems sampling solutions help you protect product quality, maintain compliance, and make better decisions. GSI InterSystems sampling solutions are used across a wide range of industries where consistent sampling is critical to maintaining product quality and process control.



BIOFUELS

GSI InterSystems equipment is supplied to the ethanol industry for conveying, elevating, weighing and sampling the feed stocks needed to produce ethanol and the DDG (dried distilled grains) byproduct. InterSystems equipment has been installed in more than 50 ethanol plants across the U.S.



CEMENT

Several models of GSI InterSystems industrial sampling systems are ideal to suit the diverse needs of the cement industry where unattended systems ensure a representative and repeatable sample. Samplers and the collection systems are applied in the truck and rail loadout areas.



FRAC SAND

GSI InterSystems samplers are the best choice for the frac sand and silica industry, providing the means to automatically collect samples for evaluation. Our sampling equipment obtains representative samples from conveyor belts, gravity chutes, and truck and rail loadout systems.



FOOD AND FEED PROCESSING

In addition to handling feed and food ingredients, equipment from the our material handling line can be manufactured in food-grade to be used for inbound and outbound transferring. GSI InterSystems sampling systems obtain representative samples and ensure quality control.



MINING AND MINERALS

GSI InterSystems is a leader for automatically collecting samples for the mining and mineral industries, utilized in gypsum, precious metals, coal, rock, sand and gravel mines worldwide. Our mid-belt sampler is the standard in the construction and mining industry. Processing is simplified with the use of an InterSystems automatic gravity chute sampler and automated collection system.



CHEMICAL AND PETROCHEMICAL

GSI InterSystems provides custom sampling systems to chemical and oil companies in domestic and foreign markets. Standard stainless steel construction provides a long-term solution in the most corrosive of environments.

MID-BELT SAMPLER

RS model for aggregates, coal, limestone, minerals & wood chips

Designed with a direct motor drive [no belts or chains] for horizontal or inclined operations. Mid-Belt Samplers provide accurate, unbiased samples from moving belts. The rotating scoop, with a built-in adjustable and flexible wiper, obtains a sample from pre-determined intervals, without touching or damaging the belt. The collected sample, including fines, is deposited into a gravity side chute for delivery to an InterSystems collection system. This sampler is fully assembled for ease of installation and meets ASTM D-2234.

Standard construction:

• Carbon steel housing • Structural angle frame • Carbon steel sample cutter cover

1. Electric Braking

2. Motor Drive (shown with gear reducer)

3. Rotating Scoop (at the ready position) with adjustable wiper

4. Section Hood for Easy Access

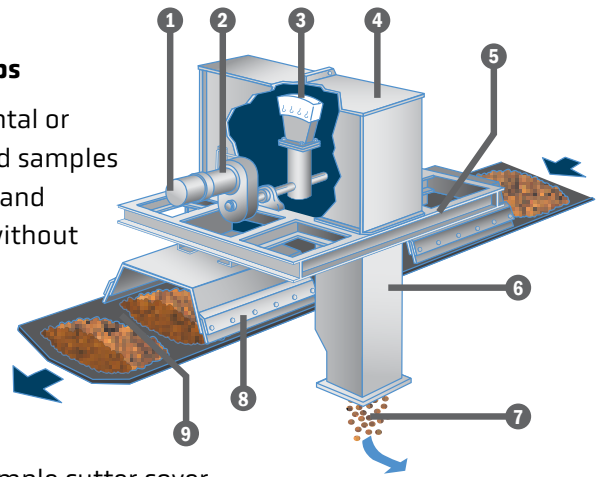
5. Structural Tubing Frame

6. Heavy I-Beam Construction

7. To InterSystems Collection System

8. Adjustable Belt Skirting

9. Removed Sample Area



PNEUMATIC LINE SAMPLER

For free-flowing materials from microscopic powders to large granules & pellets or heavy viscosity liquids with solid suspensions

PS Pneumatic Line Samplers collect samples from gravity or pneumatic conveying systems (positive or negative, dense or dilute phase). They may be mounted in vertical or horizontal lines, spouts or chutes. When activated, a sample tube extends into the product stream and collects a sample. The tube then fully retracts, seals the line and eliminates product stream obstruction. A low clearance auger then moves the sample to the discharge.

Standard construction:

• Aluminum seal housing • Stainless steel sample tube
• Stainless steel machined & polished auger with Teflon seals

1. Pneumatic (or Gravity) Line with Product

2. Gear Motor Drive

3. Air Cylinder Actuation

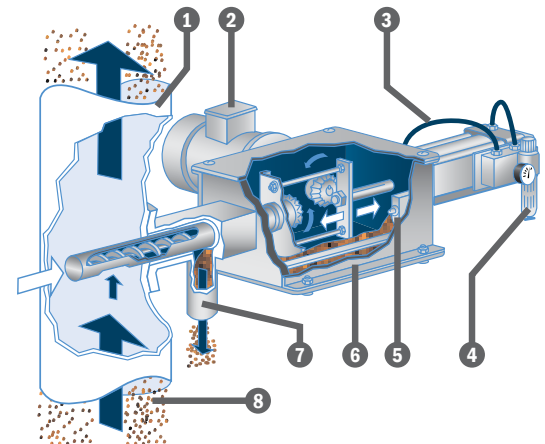
4. Pressure Regulator

5. Limit Switch

6. Sealed Housing with Removable Access Panels

7. Sample to Discharge (gravity)

8. Material Flow

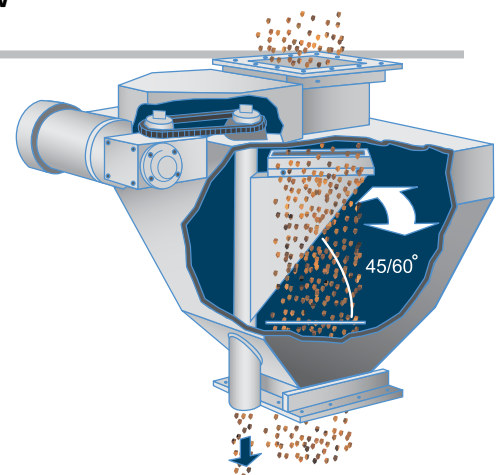


GRAVITY CHUTE SAMPLERS

GRE model for free-flowing materials including granules, powders and pellets

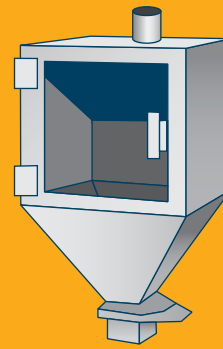
Collects representative samples from gravity spouts and requires very little space. When activated, a sample receiver pivots through the product stream, sweeping over a 120° arc, collecting a true cross-section sample. The sample cutter is out of the product stream and is sealed when not sampling. This sampler meets ASTM D-2234.

Standard construction: Carbon steel or stainless steel

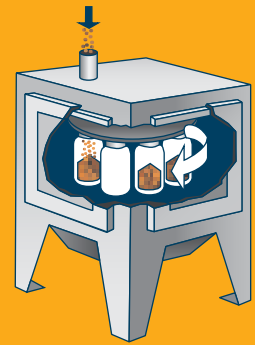


COLLECTION SYSTEMS

With an automated collection system such as the Rotating Indexing Cabinet, you can receive and store samples virtually unattended. An adjustable timer is pre-set to determine the number of samples [or duration] per container. When it is time, the system automatically positions the sealed containers for the next filling. Other collection systems provide for manual bag filling. Container size, type and quantity can be varied as required by application.



Hopper Style – Includes Hinged Plexiglass Door and a Sliding Manual Gate



Automated Rotating Indexing Cabinet and Jar Collection

MECHANICAL DIVIDERS

Mechanical dividers divide the extracted sample from the primary sampler down to a workable size while allowing the excess to return to the main material stream. These dividers are designed to maintain representative sample integrity and accuracy with lower handling costs.

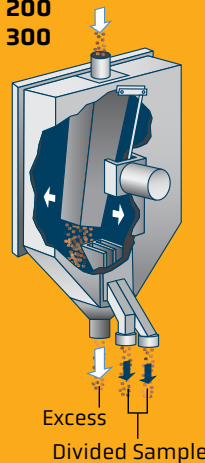
MD 100, MD 200, MD 300:

Swinging Spout Models

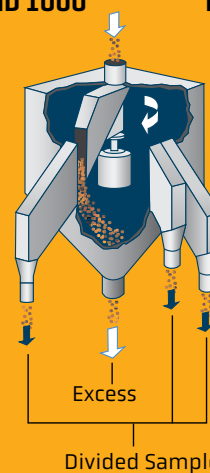
MD 1000: Rotating Spout Model for high volume applications

MD 50/50: Sample Splitter

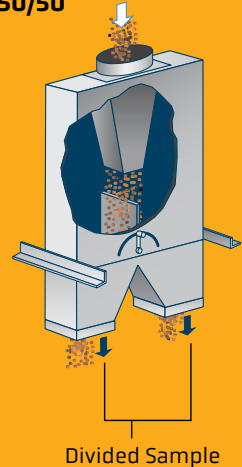
**MD 100
MD 200
MD 300**



MD 1000



MD 50/50

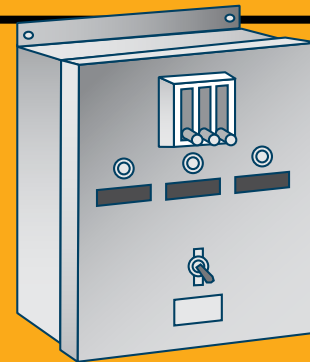


AUTOMATIC CONTROLS

PLC driven control.

Automatic and/or manual operation.

Accommodates individual systems including sampler and rotating index cabinet. Enclosed in a dust and watertight Nema 4 enclosure.



Visit grainsystems.com
for product specs and info

CONTACT YOUR GSI DEALER FOR MORE INFORMATION.

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IS-201 / MAY 2026

