

MATERIAL SAMPLING

AUTOMATIC GRAIN SAMPLERS



IS InterSystems®
GSI

PROVEN & DEPENDABLE™

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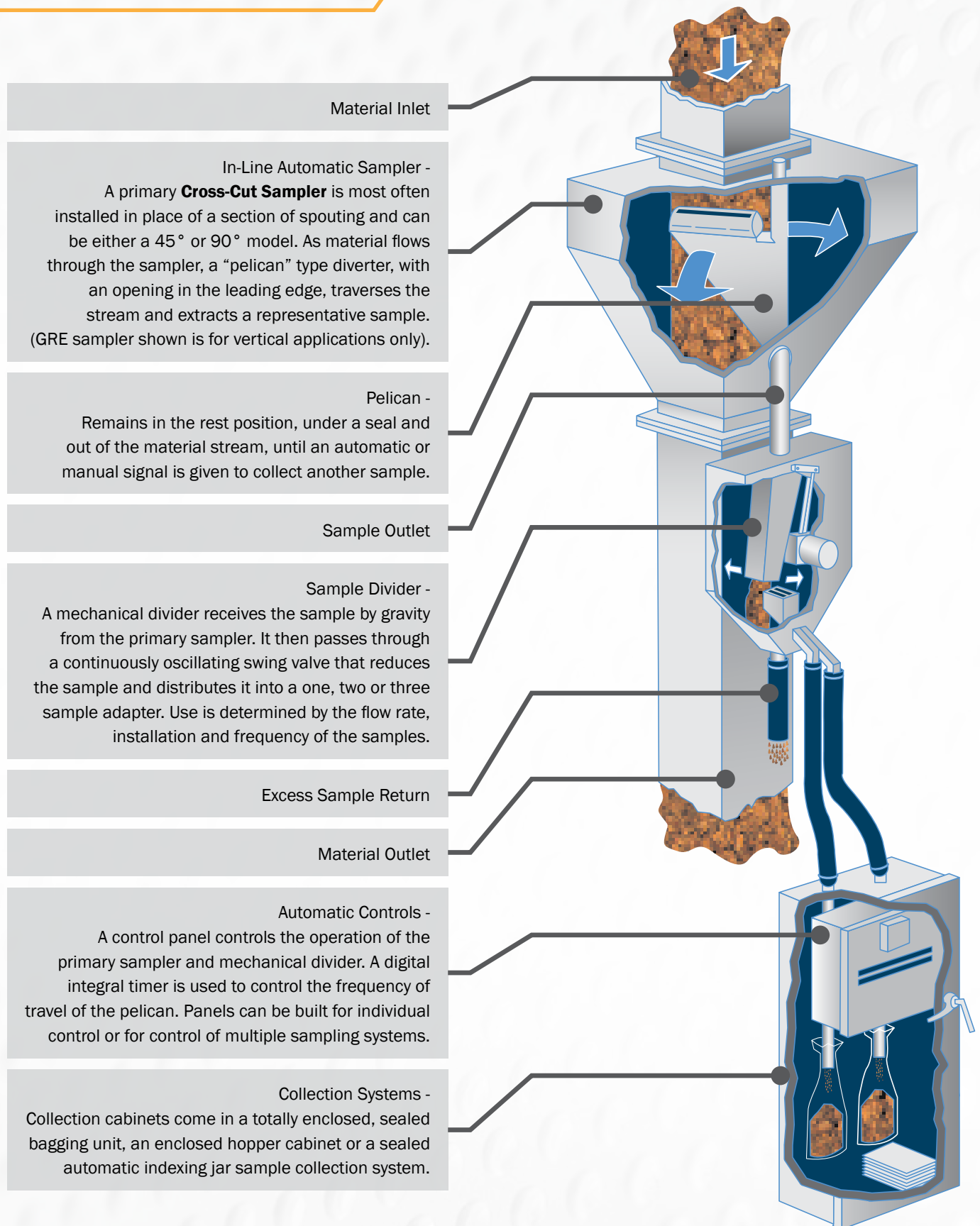
AUTOMATIC GRAIN SAMPLERS

Accurate, representative samples begin with the right equipment. With individual design and component construction,

InterSystems' Automatic Samplers adapt readily to your particular application, regardless of capacity, layout or material - all backed by decades of industry success.

AUTOMATIC GRAIN SAMPLERS

TYPICAL CONFIGURATION

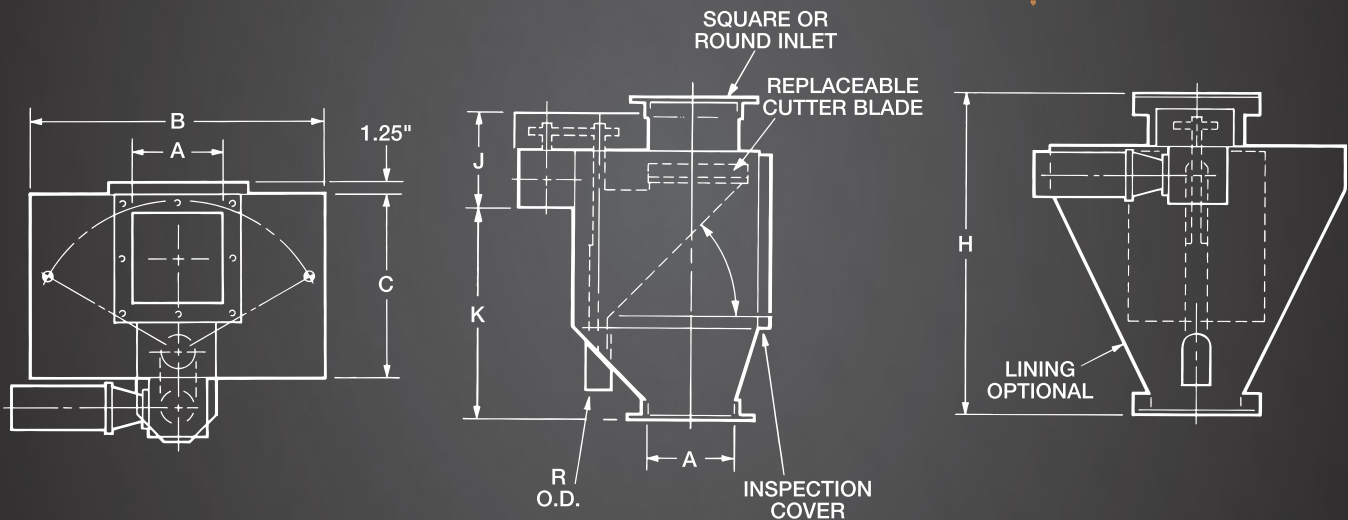
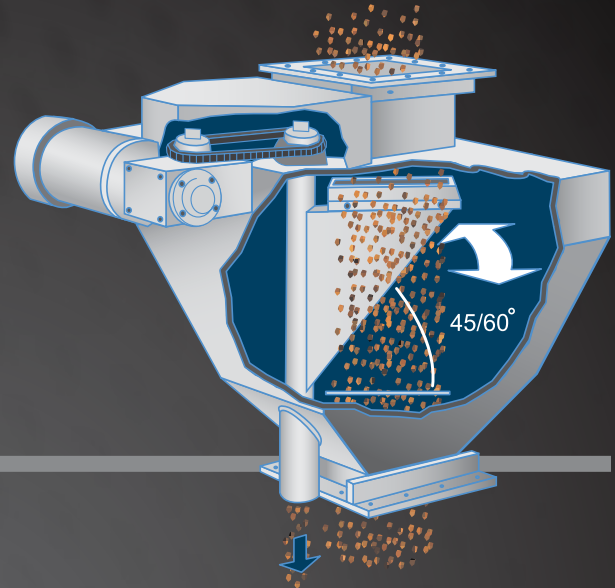


GRE ROTARY CROSS-CUT GRAVITY SAMPLER

VERTICAL (90°) GRAVITY FLOW SPOUTS/CHUTES

The internal pelican traverses through the material stream to obtain an accurate sample and moves out of the stream when not taking a sample. The unit features dust tight design with heavy gauge steel, 5/16" EMBU lining and replaceable cutter blades on the pelican. Pelicans can be either 45° or 60° styles depending upon the flow characteristics of the material. Electric drive is standard.

GRE Rotary Cross-Cut Samplers are FGIS and CGC approved.



SPECIFICATIONS

SAMPLER SIZE	A (MAX)	B	C	H @ 45°	H @ 60°	J	K @ 45°	K @ 60°	R	SIZE	WEIGHT @ 45°	WEIGHT @ 60°	MAX BPH
GRE - 6	6.0"	22.62"	14.50"	28.0"	39.75"	9.8"	16.7"	28.4"	3.0"	1/3 HP	200 lb.	300 lb.	2,500
GRE - 10	10.0"	32.12"	20.00"	34.5"	51.06"	9.8"	23.3"	39.9"	3.0"	1/2 HP	275 lb.	425 lb.	7,000
GRE - 14	14.0"	41.75"	25.56"	42.0"	63.50"	11.0"	29.6"	51.1"	3.0"	3/4 HP	450 lb.	675 lb.	14,000
GRE - 18	18.0"	51.25"	31.06"	48.5"	74.87"	11.0"	36.3"	62.6"	3.0"	3/4 HP	625 lb.	975 lb.	23,000
GRE - 22	22.0"	60.75"	36.65"	56.0"	87.19"	11.0"	42.9"	74.1"	3.0"	1 HP	825 lb.	1300 lb.	34,000
GRE - 26	26.0"	70.62"	42.12"	63.0"	99.12"	11.0"	49.6"	85.8"	3.0"	1 HP	1350 lb.	2100 lb.	47,500
GRE - 30	30.0"	80.12"	47.62"	70.0"	111.00"	11.0"	56.3"	97.3"	3.0"	1 HP	1650 lb.	2600 lb.	63,000
GRE - 34	34.0"	93.75"	56.25"	84.0"	133.00"	13.0"	66.0"	74.1"	4.0"	1.5 HP	2200 lb.	3500 lb.	81,000
GRE - 38	38.0"	103.88"	61.81"	91.0"	145.00"	13.0"	72.8"	85.8"	4.0"	1.5 HP	2600 lb.	4200 lb.	101,000
GRE - 42	42.0"	112.88"	67.31"	98.0"	156.50"	13.0"	79.4"	97.3"	4.0"	1.5 HP	3100 lb.	5000 lb.	123,500

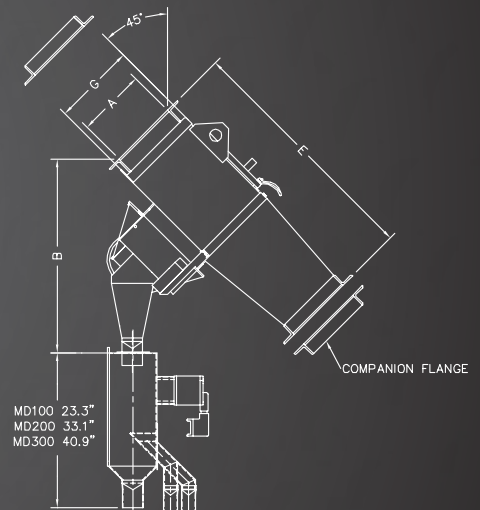
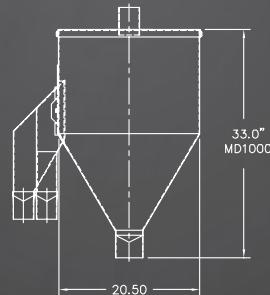
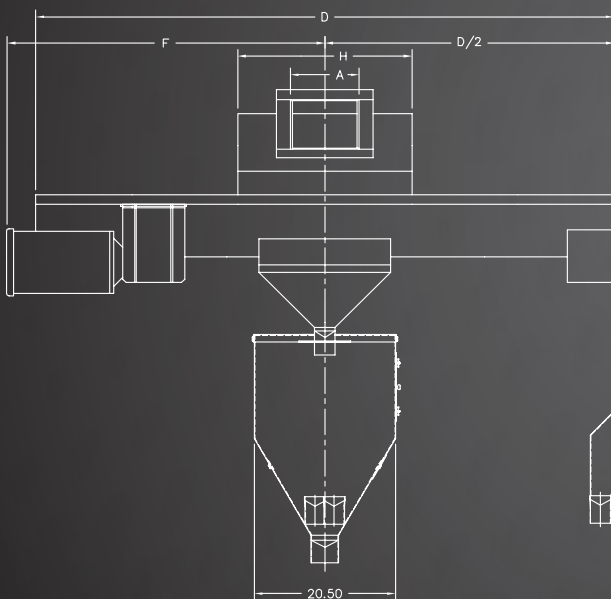
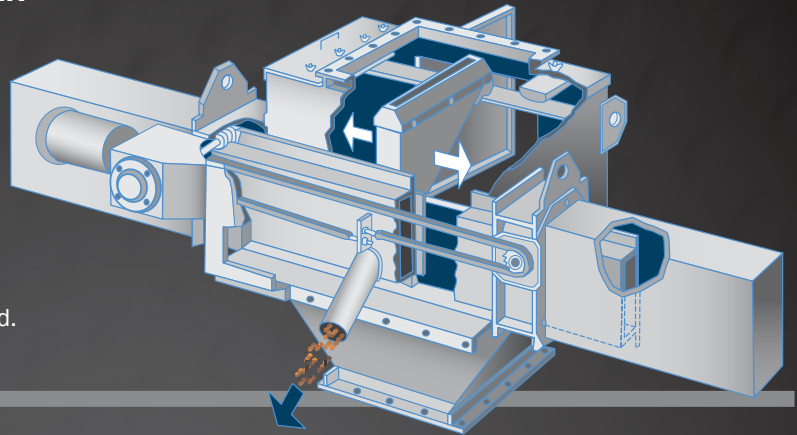
45 and 60 degree reference the hopper and pelican slide angles. GRE samplers are for vertical chutes only. Use GCE in angled applications. Additional engineering detail is available from the factory. Remember to take the divider into consideration in your design dimensions.

GCE CROSS-CUT GRAVITY SAMPLER

HIGH VOLUME, HEAVY DUTY OPERATION IN 45°, 60° OR 90° SPOUTS/CHUTES

The Sampler is constructed of carbon steel with 5/16" EMBU lining. Standard features include steel slide plate, slide plate cam followers, fabricated box slide plate, bolt-in pelican, heavy duty drive, large inspection door and flip out dust seals. Electric drive is standard.

GCE Cross-Cut Samplers are FGIS and CGC approved.



SPECIFICATIONS

A	B	C	D	E	F	G	H	70 BU/SQ IN.	65 BU/SQ IN.
								MAX BPH VERTICAL	MAX BPH 45°
8-10	28"	2"	56"	36"	33"	12"	26"	7,000	6,500
12-14	28"	2"	56"	36"	33"	12"	26"	10,000	9,400
16-18	32"	2"	84"	40"	46"	20"	38"	22,750	21,000
20-22	36"	4"	96"	42"	48"	24"	42"	34,000	31,500
24-26	40.4"	6"	108"	46"	50.3"	28"	46"	47,500	44,000
28-30	44"	8"	120"	48"	52.3"	32"	50"	63,000	58,500
32-34	46"	8"	132"	48"	62.3"	36"	53.5"	81,000	75,250
36-38	49"	9"	144"	50"	68"	40"	58"	101,000	94,000
40-42	53"	10"	156"	52"	74"	44"	62"	123,500	114,750

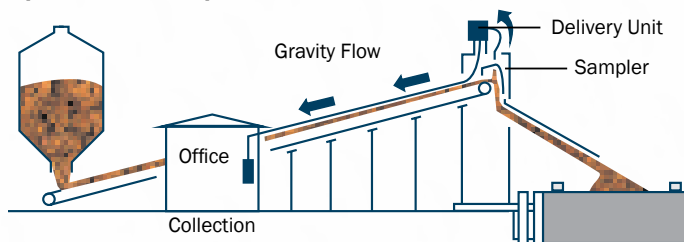
AUTOMATIC GRAIN SAMPLERS

BELT END CROSS CUT SAMPLERS

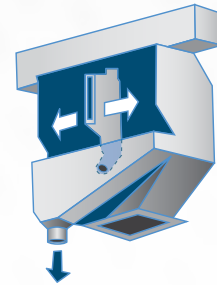
All models feature sample delivery by gravity or pneumatics and are custom designed to meet your operation's needs. Features include internal access for serviceability, rugged heavy-gauge steel construction, heavy-duty drive components, abrasion-resistant liners at all wear points and replaceable cutter blades. These models are designed as "drop-in" models or as complete discharge hoods. The pelican rests behind the dust seal and out of the material stream when not operating. Electric drive is standard.

Belt End Cross Cut Samplers are FGIS and CGC approved.

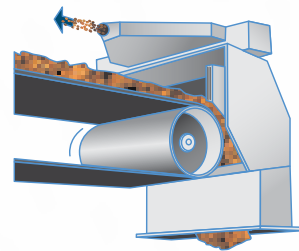
Operational Example



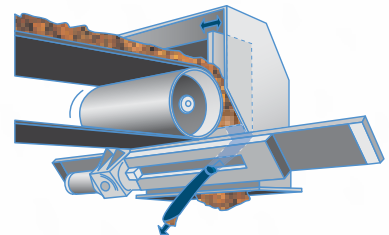
SLIDING TUBE



TOP DRAW
(PNEUMATIC
REMOVAL)



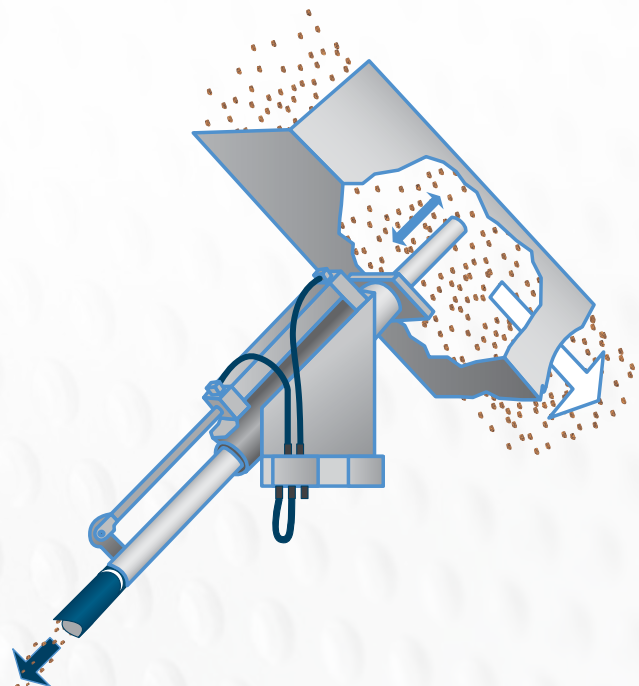
SLIDE PLATE



GRAVITY CHUTE SPOT SAMPLER (GP)

Inclined or Vertical 45° or 90° Applications

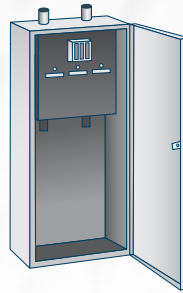
This Sampler features easy installation and simple operation with one moving main part. Adjustable sampling frequency with automatic or manual operation is standard. When activated, the slotted, stainless steel sample tube enters the product stream and takes a sample. The sample then flows by gravity to a sealed container. When not sampling, the sample tube is retracted and out of the product stream. Drives can be electric, pneumatic or hydraulic. Not legal for trade.



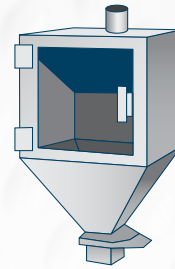
AUTOMATIC GRAIN SAMPLERS

COLLECTION SYSTEMS

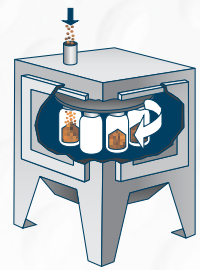
Collection systems are available as lockable cabinets or hopper style. With an automated collection system such as the Rotating Indexing Cabinet, you can receive and store samples virtually unattended. An adjustable timer is pre-set to determine the number of samples (or duration) per container. When it is time, the system automatically positions the 8, 16 or 24 sealed containers for the next filling. Other collection systems provide for automated or manual bag filling.



Rectangular Style - puts collection bags and controls under lock key



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



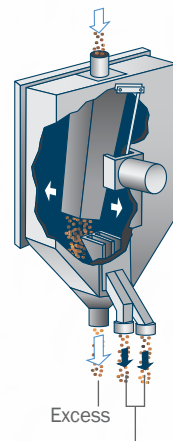
Automated Rotating Indexing Cabinet and Jar Collection

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. Manufactured in four models: MD 100, MD 200, MD 300 and MD 1000, with one, two or three sample discharges. MD 50/50 Sample Splitter also available.

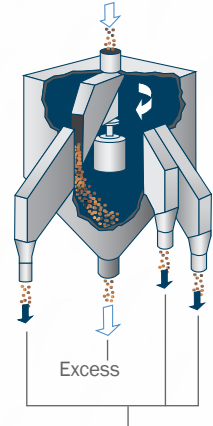
MODEL	CAPACITY RANGE
MD 100	Up to 10,000 BPH
MD 200	11,000 - 30,000 BPH
MD 300	30,000 - 40,000 BPH
MD 1000	Over 40,000 BPH

MD 100
MD 200
MD 300



Divided Sample

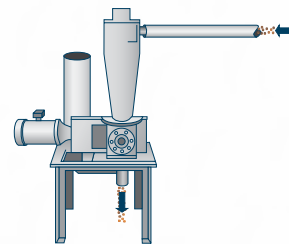
MD 1000



Divided Sample

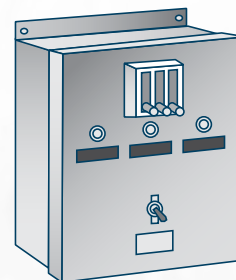
PNEUMATIC SAMPLE DELIVERY UNITS

Sample delivery units are used to transport bulk samples from one point to another, with efficient motor operation of blower and air lock. Units are available in 2" and 3" diameter sizes. Use is dependent upon volume of sample and distance to be transported.



AUTOMATIC CONTROLS

- Adjustable digital timers
- Manual and automatic sampling modes
- NEMA 12 enclosure



COMPLETE YOUR GSI SYSTEM

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40-SERIES™ GRAIN BIN

When determining the best system for your operation, we know that what's protected inside the bin is what counts most. Each GSI bin is efficiently designed to handle maximum loads for unmatched strength. All GSI bins are constructed using the highest-strength steel available.



TOWERS AND CATWALKS

GSI offers a full line of structures to support material handling equipment. Built to perform for the long haul, GSI's all new QuickBolt™ Towers and Catwalks are engineered to your facility's layout, taking wind, seismic and snow loading into consideration. GSI structures feature bolt-up assembly and hot-dipped galvanized finish.



ZIMMERMAN TOWER DRYERS

Not all tower dryers are created equal. What sets Zimmerman dryers apart is over 50 years of innovative design expertise and industry proven drying principles. The result is an easy-to-operate, easy-to-maintain, durable, fuel-efficient grain dryer, supported by an expert dealer network.



PREMIUM TRAINING, SERVICE AND SUPPORT

InterSystems reaches a worldwide market and numerous industries with expertise in the manufacturing of material handling products and industrial sampling systems. Purchased by GSI in 2014, InterSystems is based in Omaha, Nebraska and operates out of a 200,000 square foot state-of-the-art manufacturing facility. InterSystems is ISO 9001 and 14001 certified.



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