

MECHANICAL SAMPLING SYSTEMS



PRECISION SAMPLERS, INC

The Source For All Your Mechanical Sampling Requirements

PRECISION SAMPLERS, INC.

PRECISION SAMPLERS, INC. (PSI) Specializes in the design, manufacture, and installation of state-of-the-art heavy-duty mechanical sampling systems. Since our inception in 1979, PSI has provided over 400 sampling systems to the domestic coal industry as well as ports and terminals worldwide.

TURNKEY SERVICES

PSI Engineering uses the latest software including AutoCadd and SolidWorks 3D to ensure the sampling system is designed to fit.

PSI has over 20,000 square feet of dedicated fabrication space to allow us to take on the largest of sampling system projects.

PSI's turnkey installation services guarantee that each system is installed in a professional and timely manner with great detail that ensures the system will operate as designed when completed.



SERVICES AFTER THE SALE

PSI offers a wide range of services after-the-sale that include:

- Spare Parts Supply
- Operation and Maintenance Services tailored to the customer's requirements.
- System Inspections complete with recommendations
- Field Services



As an active Member of ASTM, PSI monitors new requirements that impact the design of sampling systems. All PSI Mechanical Sampling Systems are designed in accordance with ASTM standards D-7430 Standard Practice for Mechanical Sampling of Coal.

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AUGERS

- TRUCK-MOUNTED AUGER
- TRUCK-MOUNTED AUGER WITH REMOTE OPERATED PROCESSING STATION
- STATIONARY AUGER SYSTEM
- TRAILER-MOUNTED AUGER SYSTEM
- AUTOMATED AUGER SYSTEM



Auger Truck



Modular Truck Auger



Trailer Mounted Auger



Automated Truck Auger



THE SOURCE FOR ALL YOUR MECHANICAL SAMPLING SYSTEM REQUIREMENTS

PHONE: 304.744.5534 FAX: 304.744.3113

WWW.PRECISIONSAMPLERS.COM

PSI

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PRECISION SAMPLERS, INC.

SAMPLING SYSTEMS YOU CAN DEPEND ON

PRECISION SAMPLERS, INC.

PSI exclusively designs and manufactures state-of-the-art, heavy duty mechanical sampling systems.

The PSI Rotary Sweep Belt Sampling System performs under the most extreme temperature and operational conditions, consistently providing representative "unbiased" samples.

PSI's rugged belt sampling systems are the workhorses of the industry providing extremely reliable longterm performance.



CUSTOM DESIGN FLEXIBILITY

All PSI Rotary Sweep Belt Sampling Systems are custom designed to meet the client's specific application and requirements.

Our engineering staff is one of the most experienced in the industry. Since the 1970's PSI has provided hundreds of well designed, cost effective sampling systems.



ASTM REQUIREMENTS

PSI is an active member in ASTM. PSI constantly monitors any new requirements that change sampling procedures. PSI Rotary Sweep Belt Sampling Systems comply with all applicable ASTM standards, including:

- D2234 - Collection of a Gross Sample of Coal
- D2013 - Preparing Coal Samples for Analysis



PSI

TURNKEY INSTALLATION

PSI excels at turnkey installations of our mechanical sampling systems. A dedicated team is assigned to each phase of the project, from the initial design concept through erection and start-up, to assure a quality product.



Modular Processing Building

MODULAR PROCESSING

PSI's modular designed Rotary Sweep Belt Sampling Systems are completely pre-tested, compact, easily installed, and ideal for either retrofit or new construction. A PSI modular designed sampling system will minimize installation downtime, and save you money.

OTHER SERVICES/BENEFITS

Inspection and Maintenance Program

PSI offers inspection services for your sampling systems and provides preventative maintenance services to keep your systems running with exceptional availability.

Integration with On-Line Analyzers

PSI sampling systems can be designed to interface with any on-line analyzers.

Spare Parts and Field Service Programs

PSI's warehouse keeps major components in stock to reduce your down time. All members of PSI's field service team are factory trained and provide exceptional on-site work.

MEETING YOUR SAMPLING REQUIREMENTS.



Primary Rotary Sweep Sampler
Hydraulic Drive



Primary Rotary Sweep Sampler
Electric Drive



Secondary Traveling Hopper Sampler
Hydraulic Drive



Primary Baffle Plate Sampler
Hydraulic Drive



Secondary Rotary Sweep Sampler
Reversible Electric Drive



State-Of-The-Art Control Systems

FOR COMPLETE INFORMATION WRITE OR CALL:

PSI

PRECISION SAMPLERS, INC.

147 11th Ave.

South Charleston, WV 25303

Phone: 304-744-5534

Fax: 304-744-3113

E-mail: PSIsampler@AOL.com



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Primary Rotary Sweep Sampler
W/Electric Drive



Rotary Sweep Sampler
Electric Drive W/Hydro-Static Clutch



Traveling Hopper Secondary Sampler
Electric or Hydraulic Drive



Primary Baffle Plate Sampler
Electric or Hydraulic Drive



Secondary Rotary Sweep Sampler
Reversible Electric Drive



State-Of-The-Art PLC Control Systems

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EQUIPMENT INSPECTION AND MAINTENANCE PROGRAM

PSI Expands Product Support Program

Precision Samplers, Inc., PSI, offers a comprehensive Equipment Inspection and Preventative Maintenance Program designed to keep your mechanical sampling systems in top operating condition.

Qualified PSI Field Service Technicians provide regularly scheduled inspections and perform routine repairs and necessary preventative maintenance to ensure maximum equipment availability at minimum operating costs.

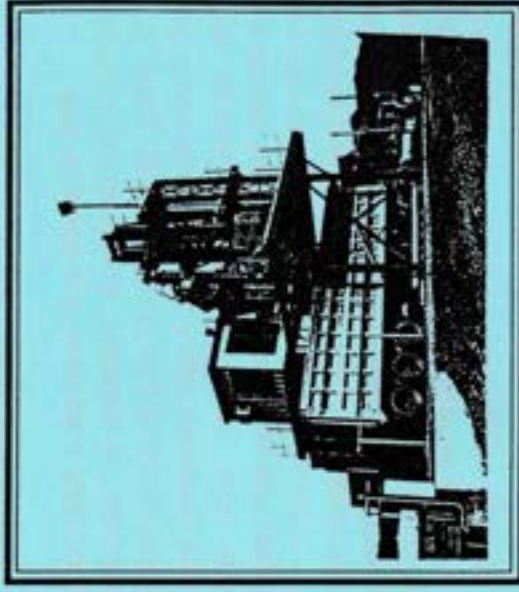
PSI's Inspection and Maintenance Program will help to minimize costly downtime due to failures or for unscheduled repairs. It also enables you to plan ahead and schedule major refurbishments or retrofits at your convenience.

For more information, call Rick Mitchell, Field Service Supervisor, at 304-744-5534.

PSI MECHANICAL SAMPLING SYSTEMS

- ROTARY SWEEP BELT SAMPLING SYSTEMS
- CONVENTIONAL CROSS-STREAM SAMPLING SYSTEMS
- AUGER SAMPLING SYSTEMS
- AUTOMATED AUGER SAMPLING SYSTEMS
- MECHANICAL SUB-SAMPLERS
Optional single or dual
save sample capability
- TOTAL WEIGHING/SAMPLING AND COAL BLENDING INTEGRATION PACKAGES

**TOTALLY AUTOMATED
PSI AUGER SAMPLING SYSTEM**



Totally Automated PSI Truck Weighing and Auger Sampling System for sampling run-of-mine coal.

PRECISION SAMPLERS, INC.

147 ELEVENTH AVENUE, SUITE 200
SOUTH CHARLESTON, WV 25303
PHONE: 304-744-5534
FAX: 304-744-3113

EMAIL: PSIsampler@aol.com

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PRECISION SAMPLERS, INC.

PSI AUGERS

PSI TURKEY INSTALLATION WHITES CREEK TERMINAL

Automated Auger Sampling System

PSI supplied and installed a large turkey project at Whites Creek Terminal in Galtysburg, KY, which features a **TOTALLY AUTOMATED PSI Truck Weighing and Auger Sampling System**. The system consists of 2 truck scales and an automated truck auger for weighing and sampling run-of-mine coal entering the facility. The completely unattended system automatically weighs and samples as many as 600 trucks a day without any operators. The auger automatically samples at a computer generated random location in the truck. The system automatically segregates samples by supplier.

PSI also supplied the coal blending system including required belt scales, a PSI Rotary Sweep Belt Sampling System on out-bound coal, and a certified out-bound belt scale which eliminates the need for barge drafting.

* * *

PSI SAMPLING SYSTEMS MEET ALL
APPLICABLE ASTM STANDARDS

D2234 D4916 D2013

PSI AUGER SAMPLING SYSTEMS

* Truck-Mounted Auger

* Truck-Mounted Auger with Optional Processing Station This unit has a Portable Processing Station that contains a crusher and a PSI Mechanical Sub-Sampler. Reject handling can be custom designed if required.

* Self-Contained Unit Truck-Mounted Auger with the processing unit mounted on truck. Contains own power source.

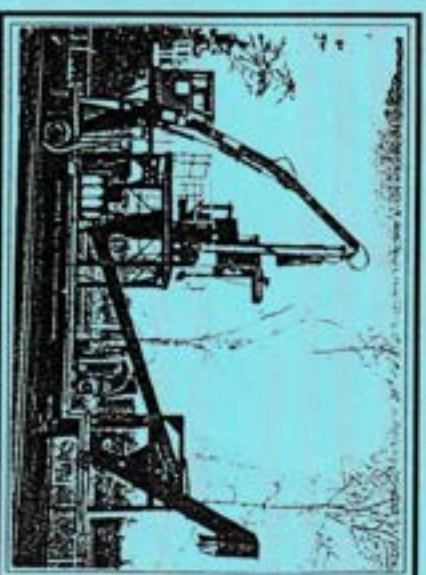
* Trailer-Mounted Auger Complete sample reduction and reject handling. Unit is readily transportable.



Shown is the PSI truck auger sampling system for in-bound coal at Big Sandy Terminal.

* Complete Stationary Turkey Installation Frequently integrated with the scales. Can be run by a single technician.

* Totally Automated Auger Sampling System



Trailer Mounted Auger Sampling System



Truck Mounted Auger and Portable Processing Station