

# Mobile And Stationary Auger Sampler Machine



## ABOUT US

- EquipTech was built to render OEM level service supports for Heavy machineries through systematic and innovative process by adopting new technologies. Today's Industrial stake holders (OEM & end user) are mainly affected due to lack of knowledgeable & experienced experts. Our aim is to build a team under such experienced OEM's technicians to provide OEM support at affordable rate with faster ways. Our advisory service is dedicated to our client to maintain Complex Heavy Machinery.
- Under Industry 4.0, we work towards technology development & implementation to cater core sectors, e.g; Mining, Infrastructure, Defence etc. Our drone based mapping to IoT solution manages the Complex Mining process and Heavy machineries which makes difference our innovative services from others. Our aim is to build better tomorrow for our next generation by developing and adaptation of smart & sustainable solutions to address productivity, safety and reliability at work site. We represent Global OEMs through promoting their technologies to address real issues in Industry.





## Vertical Coal Sampling Auger

Equiptech Services presents its advanced vertical coal sampling auger, designed for seamless integration with Heavy Earth Moving Machines (HEMMs).

It features a Double Helical screw conveyor for 30% higher sampling rates and tungsten carbide-tipped teeth for 40% longer wear life, ensuring efficient material throughput and durability. The modular, replaceable components reduce downtime and simplify maintenance.

Additionally, our auger can integrate with an IoT-enabled dashboard for real-time machine condition monitoring and automated performance tracking.

Backed by highly skilled engineering expertise, Equiptech's augers enhance efficiency, reduce sampling time, and deliver reliable, high-performance solutions for modern mining operations.

### Sampling Applications

1. Coal Quality Sampling (CHP)
2. Geological Exploration
3. Powdered material sampling
4. In-Situ Testing and Analysis
5. Soil and Overburden Sampling
6. Environmental Sampling and Monitoring:
7. Biomass pellet sampling
8. Soft Rock Mining Applications
9. Hydrogeological Sampling

**Consult us with your specific requirements and our expert team would get back to you.**





## Mobile Auger Sampling Systems

The **Mobile Telehandler Mounted Sampling Auger** is the latest innovation from Equiptech Services, India. We have been working with the schematics and small models and finally got the opportunity to develop the existing model completely which was supplied to **Jindal Power Ltd, Tamnar, Raigarh** .

Mobile Auger is specially designed and manufactured for the purpose of collecting samples from trucks/wagons for representative testing & the quality of any mineral by using a mechanized Auger. In Mobile Auger, dimension of the mechanized Auger have been designed as per **IS-436 (Part-I/ Section-I) standards**, and may be customized.

The equipment is mounted on a hydraulically operated retractable arm. It can be raised above the truck or rail wagon and then lowered to collect the designated sample. The rotary motion of the Auger enables it to go down in the heap up to the desired depth and pick up the sample as per need.

## Features of The Mobile Auger Sampling System



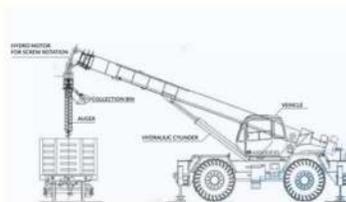
### Double Helical Auger screw

The Double Helical Auger Screw used in our models helps to increase the output of coal or other bulk materials by approximately 30% at the same time increasing the uptime of the machine and reducing cycle speeds.



### Dual Customisable exit ports

The Auger bulk material exit ports can be customised as per the specific requirements. One of the ports can be used for rejected sample as well thereby increasing the total sample pool.



### Flexible sampling technique

The Auger is mounted on a Telehandler with 7 metres boom extension providing ample flexibility. It can sample upto 240 trucks in 8 hours time in an optimum environment.



### Aggressive Cutter Teeth

The Auger comes with specially designed and replaceable Aggressive Cutter teeth tipped with Tungsten Carbide having a hardness of 9.5 on the Mohs Scale.

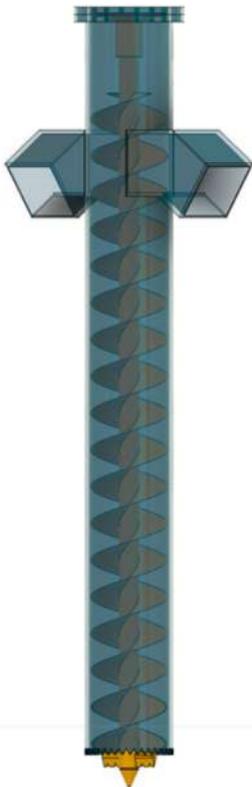
A true sample of a truck, railcar, open top shipping containers, or any other bin type of containers of coal or any minerals can only be obtained prior to unloading. Once it is unloaded, the individual load mixes with other coals, or minerals and loses its specific characteristics. This type of sample collecting device is one of the modern solution of sample collection at the entry point of Truck or Rail wagon, Auger is mounted on a vehicle and can be moved towards the truck and wagon to collect desired sample.

## Other Features and Optional enhancements

- Replaceable Auger tip and other Components
- Structural Rigidity and Stability
- Application Suitability with simple rugged design
- Penetration Depth Monitoring(PDM) and full depth penetration
- Shorter cycle time and efficient
- Machine Condition Monitoring with IoT integrated dashboard
- Fully automated sampling at randomised points
- Operator Cabinet Air Condition monitoring and HVAC
- Helix profile sharpening and profile changes
- Attachment to HEMMs customised as per requirements

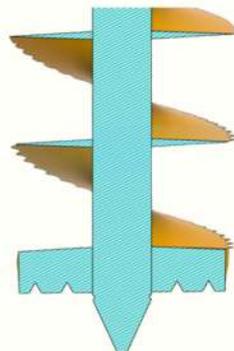


Mobile Coal Sampling Auger fitted with JCB Telehandler in Operation



### Pellet Sampling Auger

This is our specially designed Pellet sampling Auger. It is able to penetrate the sampling truck or heap with minimal intervention to the pellet sample which preserves the sample without breaking it into smaller pieces. It features a minimal slip-back of upto 3%. It comes equipped with a fully functional **Joystick Control, IoT Dashboard** controlled via mobile application and fully integrated **Machine Condition Monitoring(MCM)** System.



The Auger boasts a tapered **SS-302** Helix Profile, a **Serrated edged start**, which also caters to foreign bulk handling for longer life of the Sampler and reduced wear and tear. Our endeavour in pellet sampling has also helped us reach out to customers in **Renewable Biomass Energy Sector**.

## Automated Auger Sampler

EquipTech Services' Automated Auger Sampling System is the ideal solution for accurate, randomized, and fully unattended truck sampling. Designed for seamless integration with standard truck models, this advanced system can efficiently sample from up to **600 trucks per day** without the need for manual operation.

Equipped with a **PLC-controlled** system, the Automated Auger Sampling System ensures precise sampling by randomly positioning trucks and automatically indexing the sample collector.

While the initial investment may be higher, the system delivers a rapid return on investment by significantly reducing labor costs. In most cases, the **operational efficiency** and cost savings allow businesses to recover the investment in less than five years.



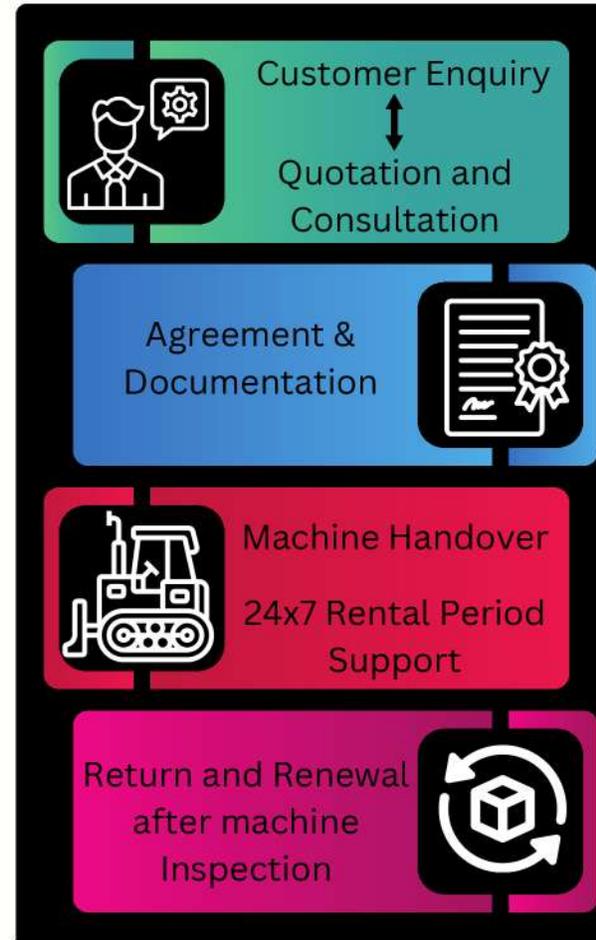
Fully automated Stationary Auger

## Rental Auger Sampler

As primarily a Service Oriented Company, it has been EquipTech's constant endeavour to make it easier for our clients to continue sampling systems without taking the burden to own a new machine. As a result we have started our **Rental Auger Sampler** for Coal Handling Plants, Limestone, ores and other minerals.

A rental auger allows you to spend minimal upfront cost in order to try out our range of **Premium Auger Sampling Systems (Mobile and Stationary)** as per availability and customisation requirements.

- **Cost Savings:** Lower initial investment, no maintenance costs.
- **Flexibility:** Short-term or long-term rentals, pay-per-use options.
- **Convenience:** **24x7** Maintenance and support included.
- **Access to Latest Technology:** Easy upgrades and model swaps.
- **Tax Benefits:** Rental expenses may be deductible.



# Stationary Auger Sampler

When bulk materials are transported via truck, rail, or other containers, direct sampling from the transport container is often the only viable method—especially in as-shipped and as-received conditions. This is where Auger Sampling Systems provide an effective solution.

A stationary auger system operates using a vertical screw mechanism housed within a pipe. At its lower end, a durable, wear-resistant cutting tip breaks apart the material, allowing it to be drawn into the hollow section of the auger for sampling. As the auger rotates, the material moves upward into the Auger Spool, where it accumulates until the required volume is reached.

If the entire auger increment is needed, the collected material is fully discharged. However, if only a portion is required, the material flows through the top of the auger tube and enters a fixed splitter, which diverts the rejected portion back into the truck or rail wagon.

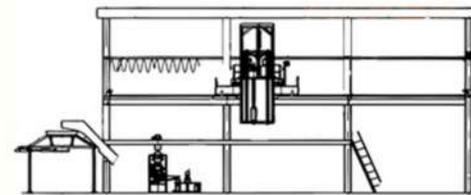
Once the sample is secured within the spool, the auger transfers it to a designated sample bin. Depending on the application, multiple bins may be used to collect different sample batches. From there, the samples can be processed further—typically moving through a primary conveyor for transport, undergoing size reduction in a primary crusher, and potentially continuing through secondary crushing and conveying. Rejected material is handled accordingly, while the final samples are packaged in smaller quantities for laboratory testing.



Pedestal Mounted Stationary Auger Sampler



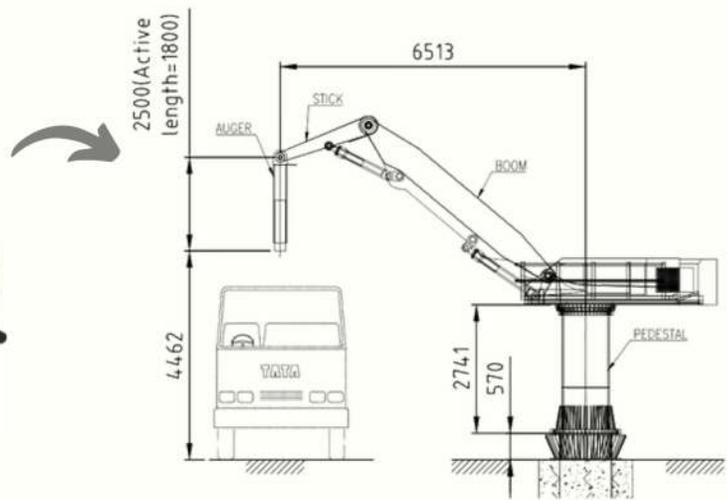
Stationary Auger Sampler for Trucks



Stationary Auger Sampler(Bridge type)



Schematics : Pedestal Mounted Stationary Auger Sampler of EquipTech Services



## Applications of the Stationary Auger Sampler

Stationary Auger sampling systems are incorporated into a wide variety of applications but are most frequently used for Truck beds, Rail wagons, open top shipping containers. Bulk materials that are frequently handled include coal, coke, crushed ores, manganese ores, pellets, Coal Tar etc.

Sampling Head	Picture	Application
Rotary Auger		Coal, Limestone, Coke, Lump
Long Spiral Auger		Coal
Short Spiral Auger		Coal Limestone, Pellet, Iron Ore, Zinc Power



fig. Stationary Auger Sampler for Trucks (Sample layout)

### Benefits of Stationary Auger Sampling:

- Multiple Auger size options are available to cover the range of common particle sizes encountered.
- Full and split auger designs are available based on the amount of sample to be drawn
- Stationary sampling unit available with complete solutions includes material handling/complete
- sample preparation OR semi portable sampling station could be a solution.
- Gantry type auger movement ( Long travel and cross travel )ensures multiple point sampling.
- Customized system design based up on customer needs.

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**OUR PARTNERSHIPS**











PROUD TO



**SERVICES BY OUR COMPANY**

 OPERATION MAINTENANCE OF SAMPLING SYSTEM	 INDUSTRIAL DIGITISATION & IIOT	 DRONES FOR SURVEY <ul style="list-style-type: none"> <li>Stockpile Management</li> <li>Hoist Road Optimization</li> <li>Trailing Dam management</li> <li>Water &amp; Sediment Flow Management</li> <li>Mining Exploration</li> </ul>
 OPERATION & MAINTENANCE OF BULK MATERIAL HANDLING EQUIPMENT	 ACCURATE DATA ON DEMAND   HIGH QUALITY DATA <ul style="list-style-type: none"> <li>3D Point Cloud</li> <li>Orthophotos</li> <li>Digital Terrain Models (DTM)</li> <li>Contours</li> <li>Volumetric Calculations</li> </ul> Survey Reports by Surveyors	 DRONES FOR MINING <ul style="list-style-type: none"> <li>SAFETY PARAMETER CHECK</li> <li>BLAST VIDEO DATA</li> <li>3D PROFILING</li> <li>FRAGMENTATION ANALYTICS</li> </ul> DRONE AS A SERVICE (DaaS)
 OPERATIONAL MAINTENANCE & RENTAL OF MOBILE AUGER	 Precision Agriculture	 Solar Panel Monitoring

