5E-CYH Railway Wagon Sampler Road Wagon Sampler

5E-CYQ

The railway and road wagon sampler are used for random sampling of bulk materials in the carriage of train or truck. It consists of sampling system, electrical control system, automatic ultrasonic positioning system and coal surface detecting device

Features

- 1. Two augers can be equipped to meet the demands of sampling different materials.
- 2. Full section sampling fully comply with the mechanical sampling standard.
- 3. Single point sampling and multipoint sampling are available to increase the efficiency.
- 4. Automatic ultrasonic positioning technology an sampling ensures reliable results without human interference.
- 5. Reduction and division of the material by online sample preparation system is available if it is needed.
- 6. Capable to connect with information management system.
- 7. Control methods: Touch Screen Controller+PLC/Automatic/Semi-Auto/Manual.

Auger for Raliway and Road Wagon Sampler -Rotary Cylinder Auger

Specification

Maximum sampling size: ≤220mm

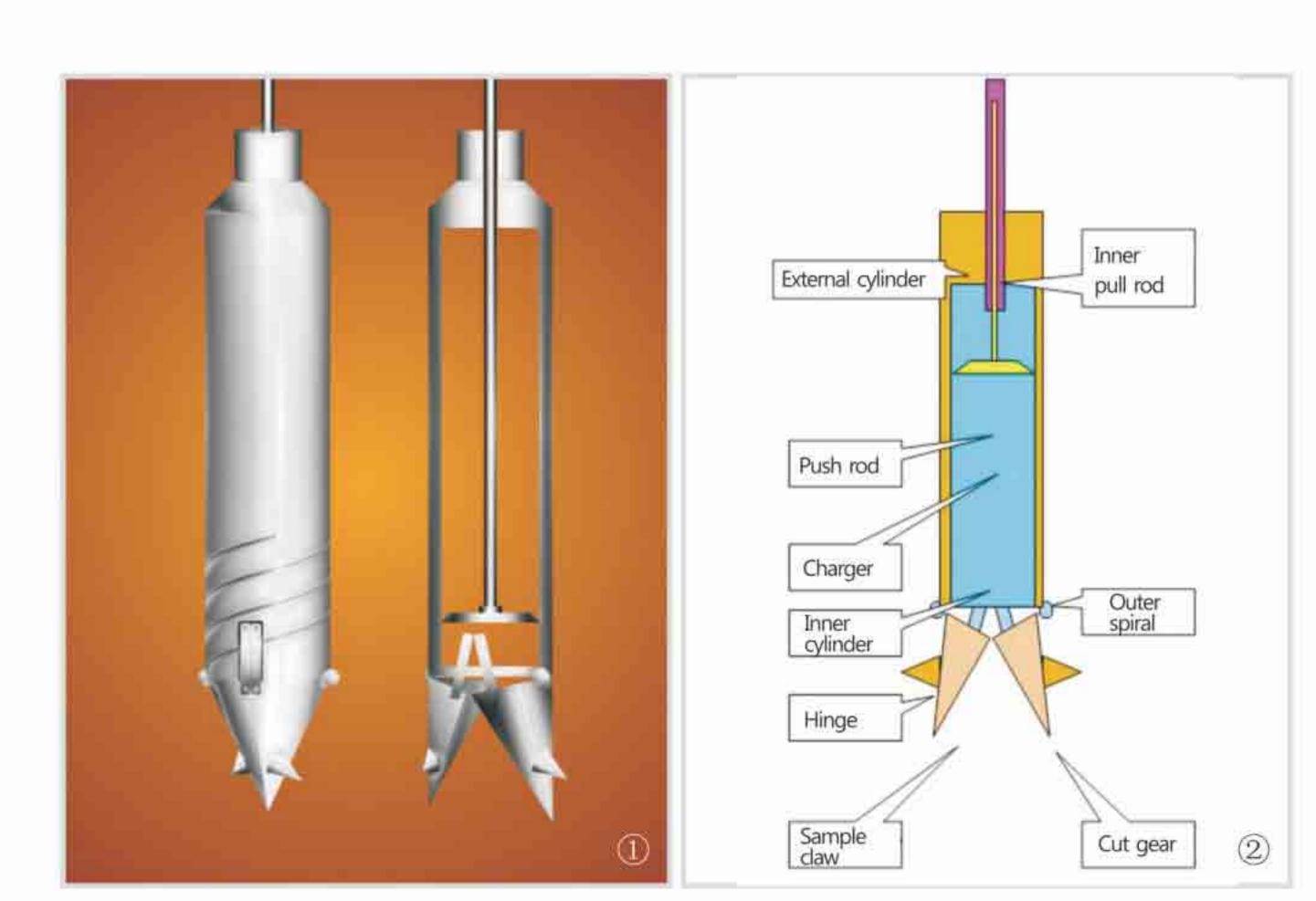
Self-cleaning devices: Yes

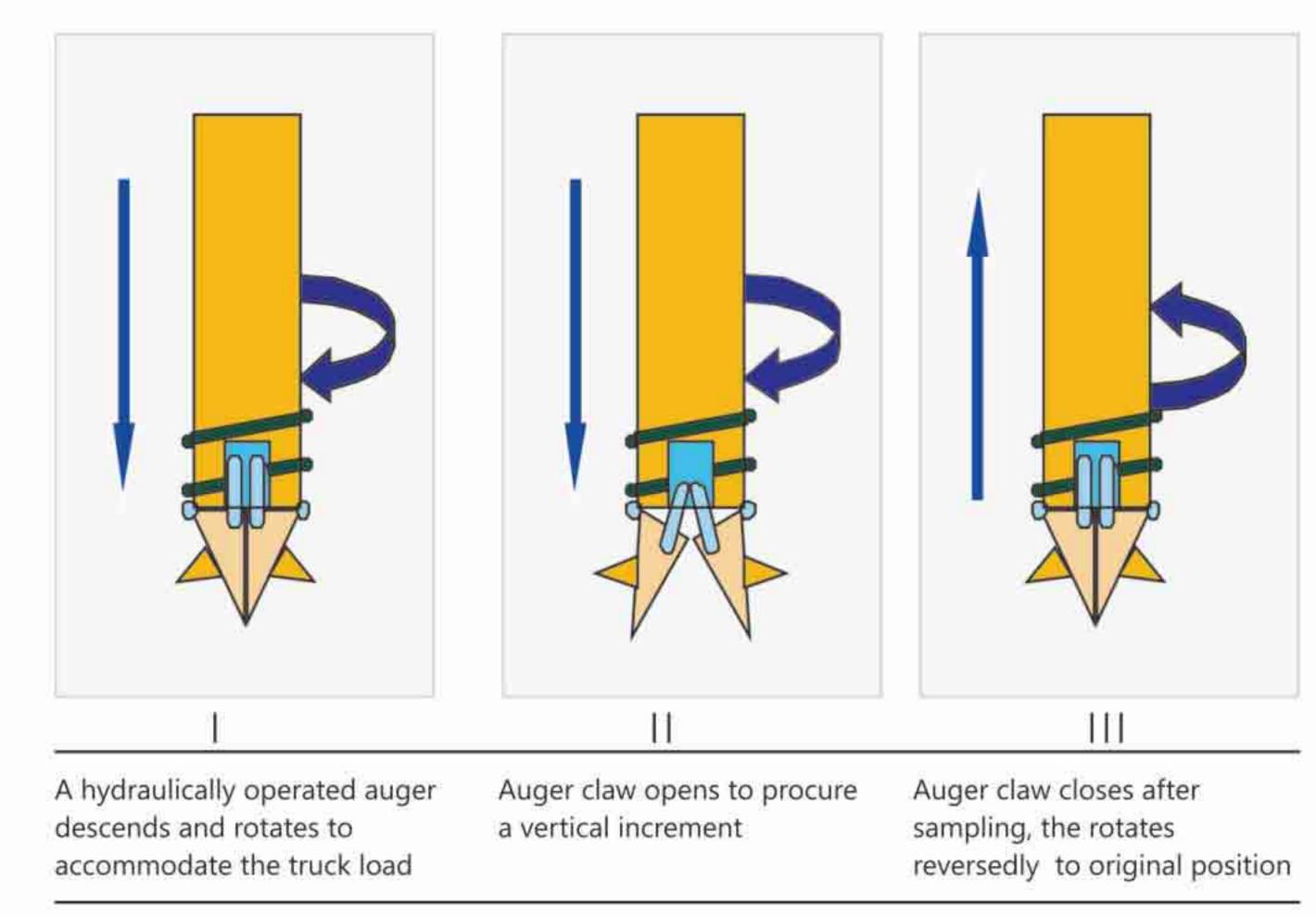
Sampling method: stratified single point random sampling

- ① 5E Rotary Cylinder Auger
- ② Structural Diagram of Auger

Features of Rotary Cylinder Auger

- 1. Prevent the leakage of coal during sampling to assure the sample integrality.
- 2. Hollow-type structure suitable for material in bigger nominal top size.
- 3. Inner self-cleaning push rod with high moisture adaptability to solve the sample blockage.

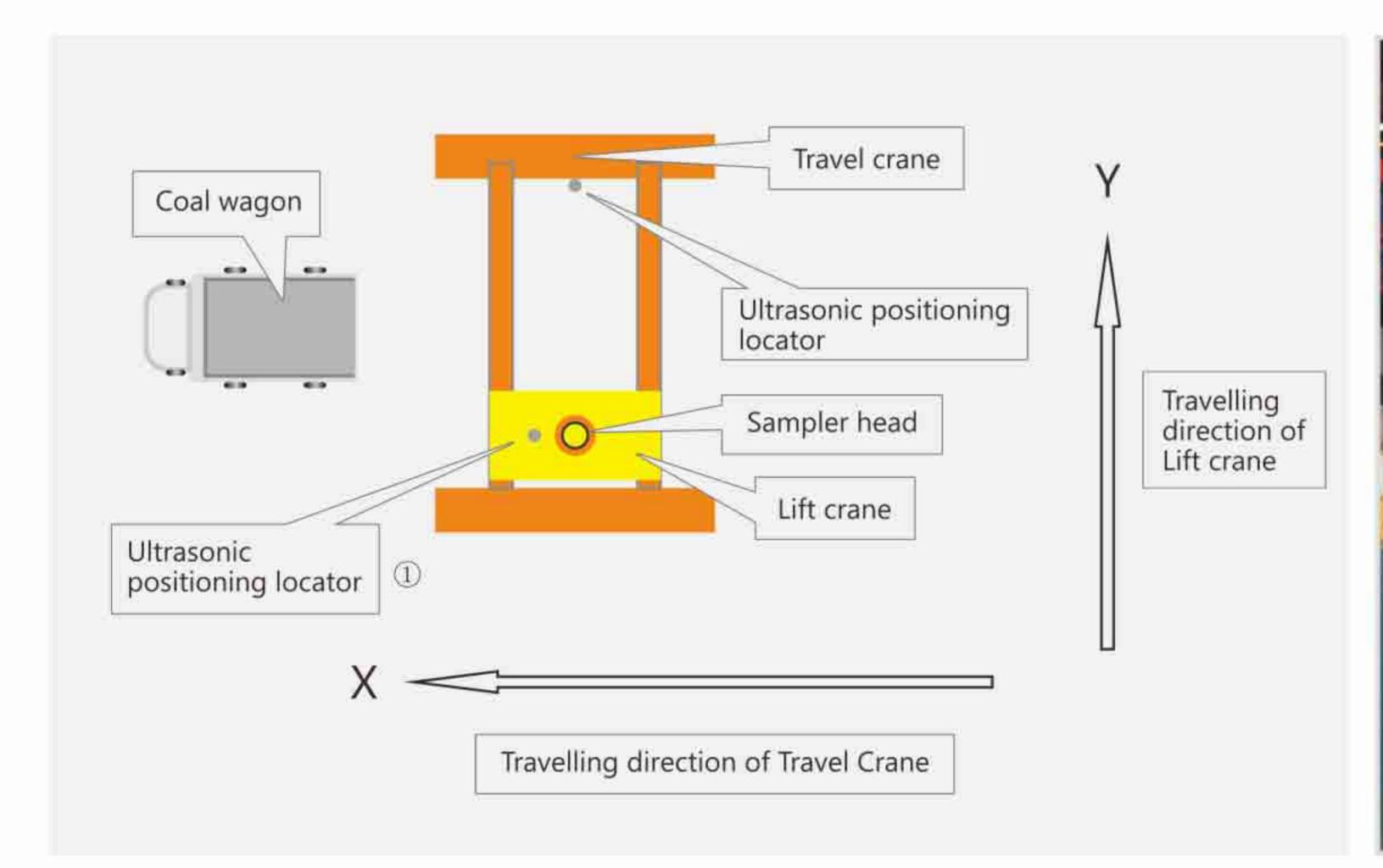




Flow Diagram of Rotary Cylinder Auger

Automatic Ultrasonic Positioning System

It's used to locate vehicle parking position automatically and confirm the original sampling point accurately without human interference.



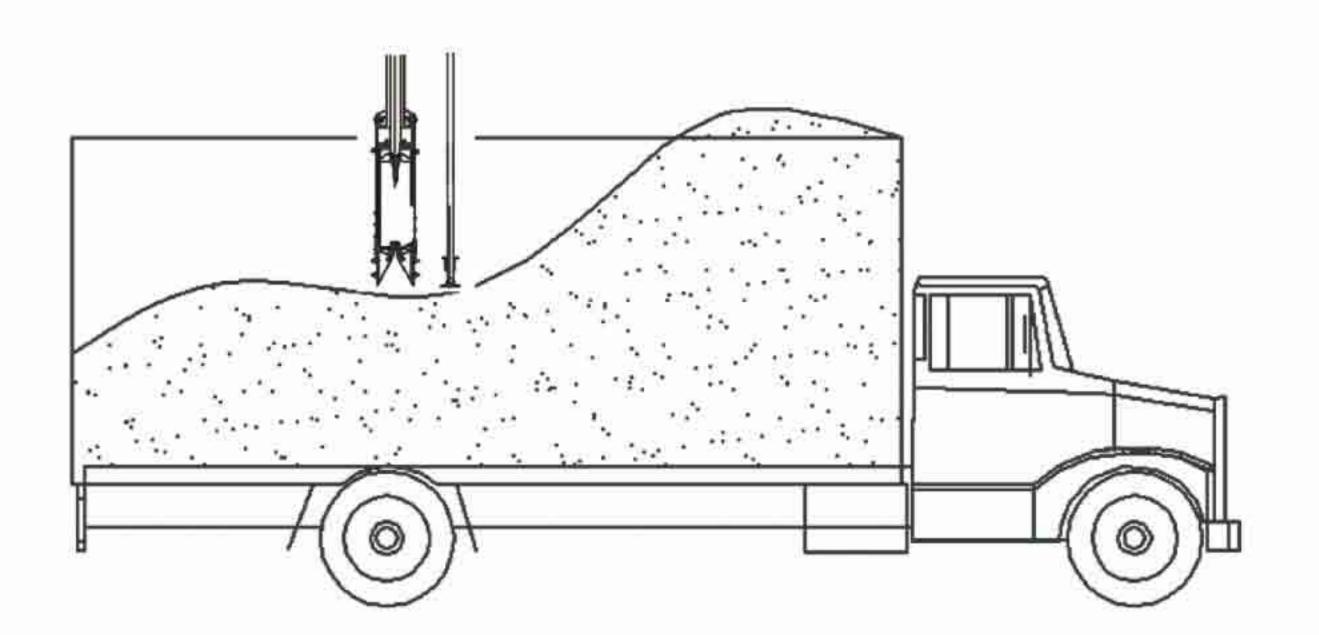


Operating Principle

When the coal wagons are parked well in the sampling area, the travel crane moves in X direction with the ultrasonic locator transmitting signal continuously, once the tail of the carriage are detected, the lift crane and the other ultrasonic locator will move immediately to locate the tail in Y direction, after that the position of coal car wagons are confirmed thus sampling points will be selected to continue the following process.

Coal Surface Detecting Device

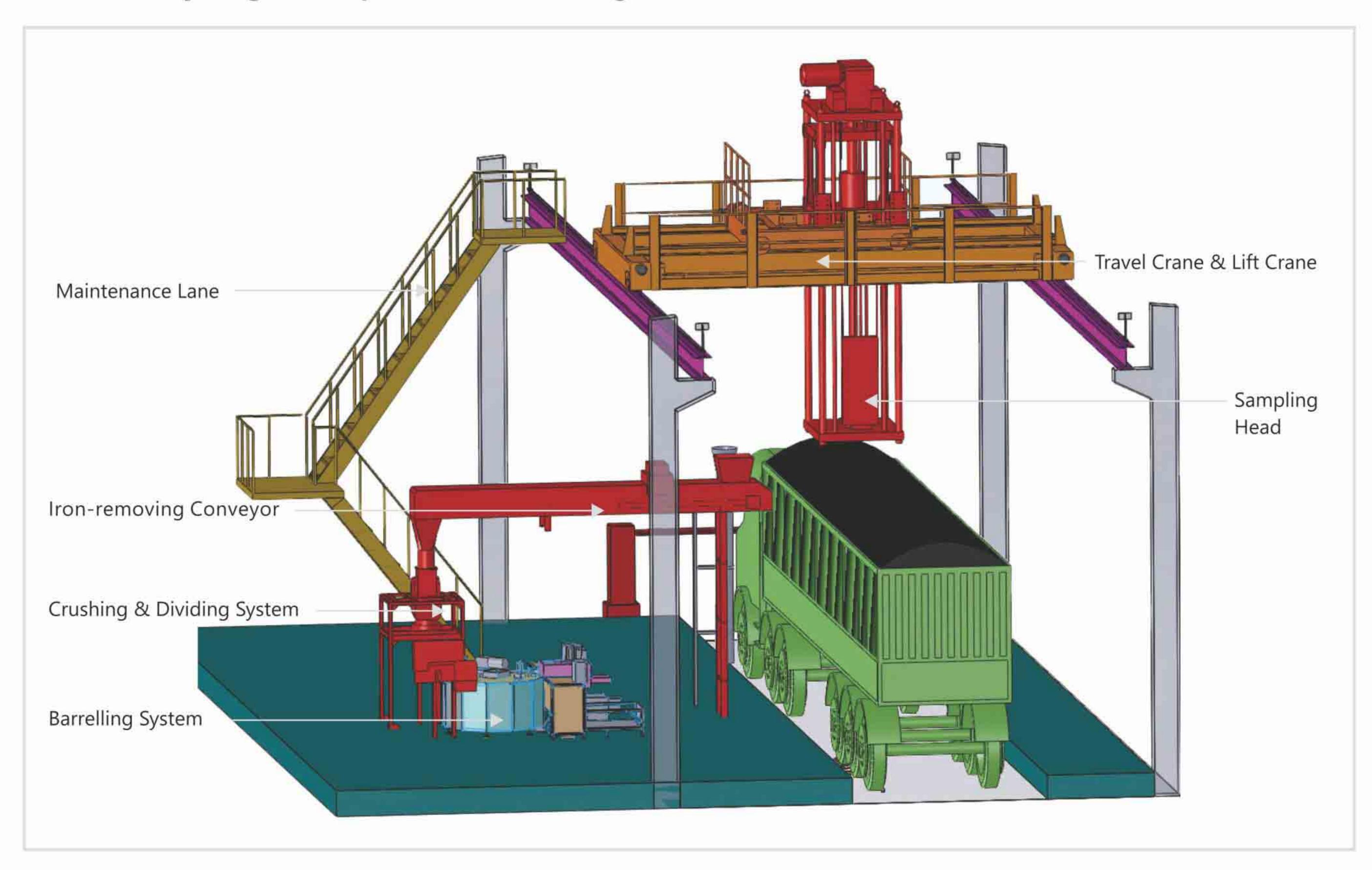
It's used to detect the height of the sampling point accurately and effectively avoid the empty sampling caused by the rugged coal surface.





Integration Solution for Sampling and Sample Preparation

Road/Railway Wagon Sampler + Auto Barreling + Manual Transfer



Railway wagon Sampler + Conveyor Belt(60m) + Automatic Sample Preparation System

