



5E series

Mechanical sampler

Why is sampling important?

A faultless and comparable analysis is closely linked to accurate sample handling. Only a sample representative of the initial material can provide meaningful analysis results.

Significance of Mechanical Sampling

Full Section Sampling

Full section sampling or stratified full-section Sampling ensures that the sample is true representative of the bulk material.

Random Sampling

Sampling points are selected by mechanical sampling system randomly to ensure that every portion of the sampling lot has the same chance to be sampled.

High Efficiency

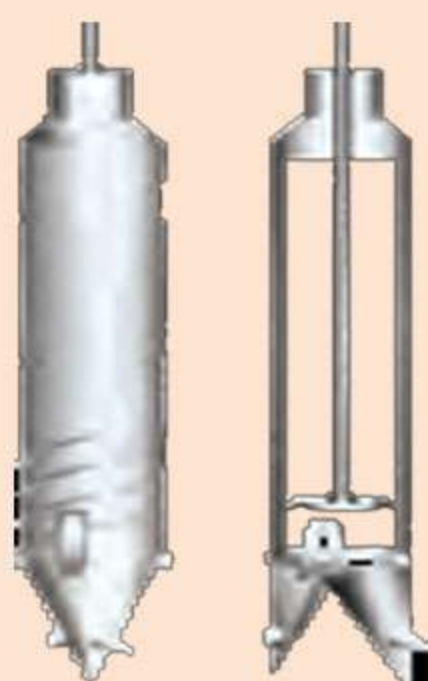
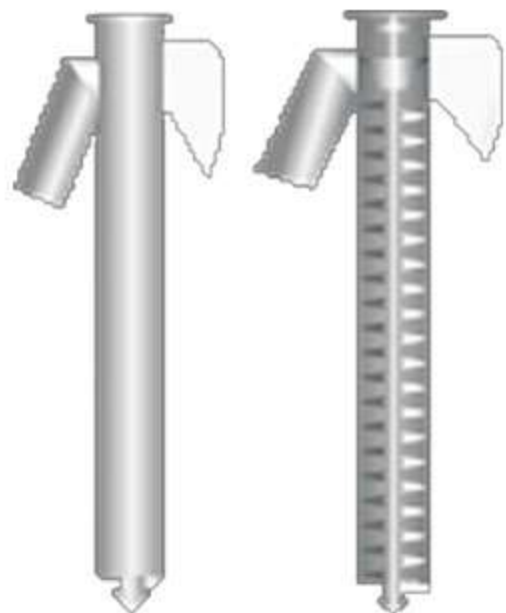
Time saving compared with manual sampling.

Safety operation

Indoor operation provides good working environment.



Different types of sampling head for bulk material (nominal top size ≤50 mm) is as follows.

NO	Sampling Head	Pictiure	Applicaiton	Moisture adaptability	Model	Aperture of Cutter	Max Sampling mass
1.	Rotary Cylinder Auger		Limestone, coal, coke Lump ore, Iron ore zinc powder	≤35	CTB20N.00	Ø200	16L
					CTB22N.00	Ø220	20L
					CTB15N.00	Ø150	10L
2.	Long Spiral Auger		Coal	≤20	LLC26033J.00	Ø273	110L
					LLC31033J.00	Ø325	150L
3.	Sort spiral Auger		Limestone, pellet, iron Ore zinc power, coal	≤10	LCT2773.00	Ø273	15L
					LCT325.00	Ø325	25L
4.	Cross-Belt sweep Type		Coal, limestone, pellet, Iron Ore Zinc power	≤40	ZPC1015.00 ZPC1420.00 ZPC1630.00	100-300	10-40L

Note :

Due to keeping innovation, the specification and Machine pictures or color are subject to alteration without notice!



5E – CYH & 5E- CYQ

Railway Wagon Sampler

The railway and 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 and sampling ensures reliable results without human interference.
5. Reduction and divion 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 Railway an Road Wagon sampler - Rotary cylinder Auger

Specification

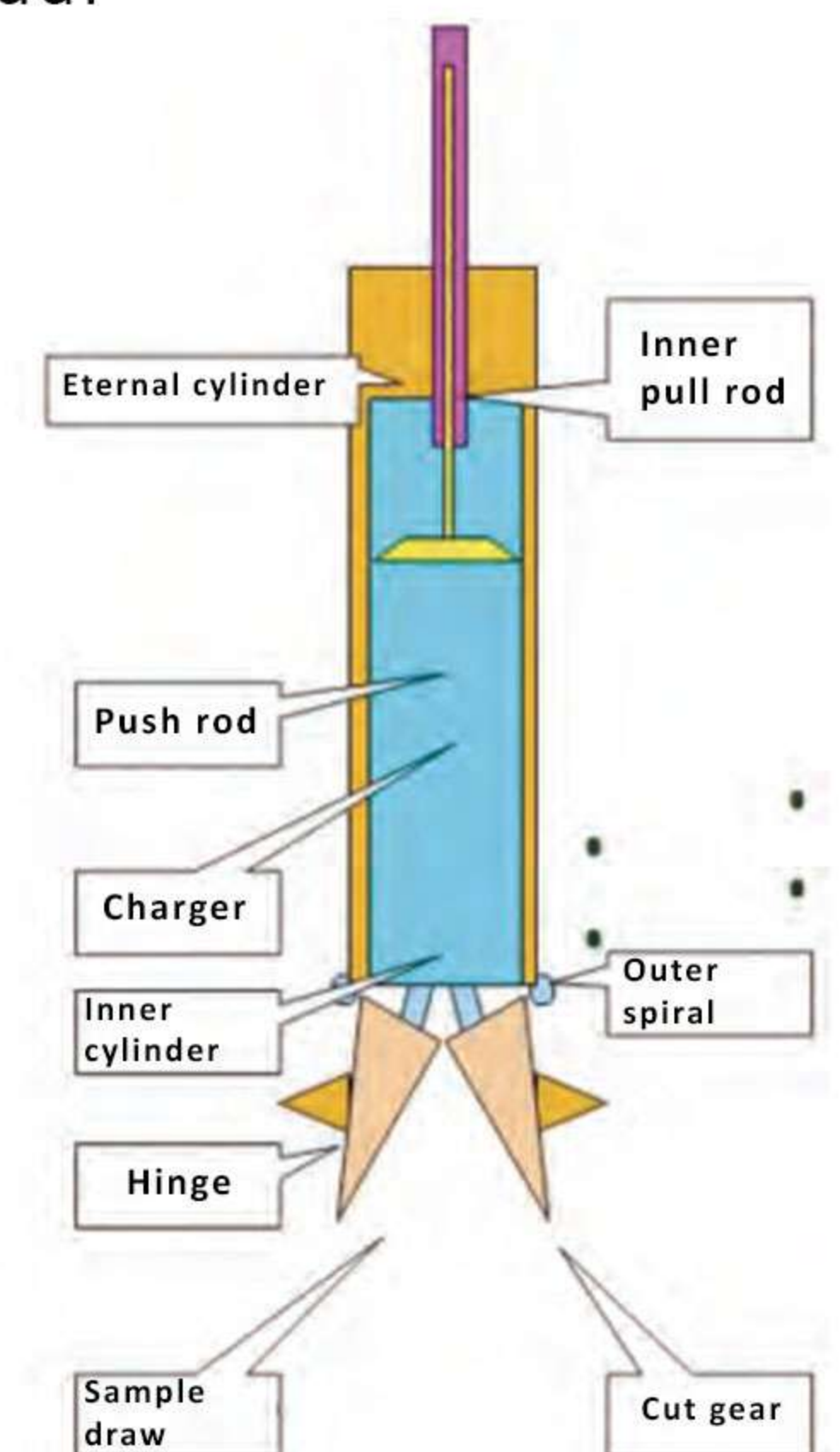
Maximum sampling size : $\leq 220\text{mm}$

Self – cleaning devices : yes

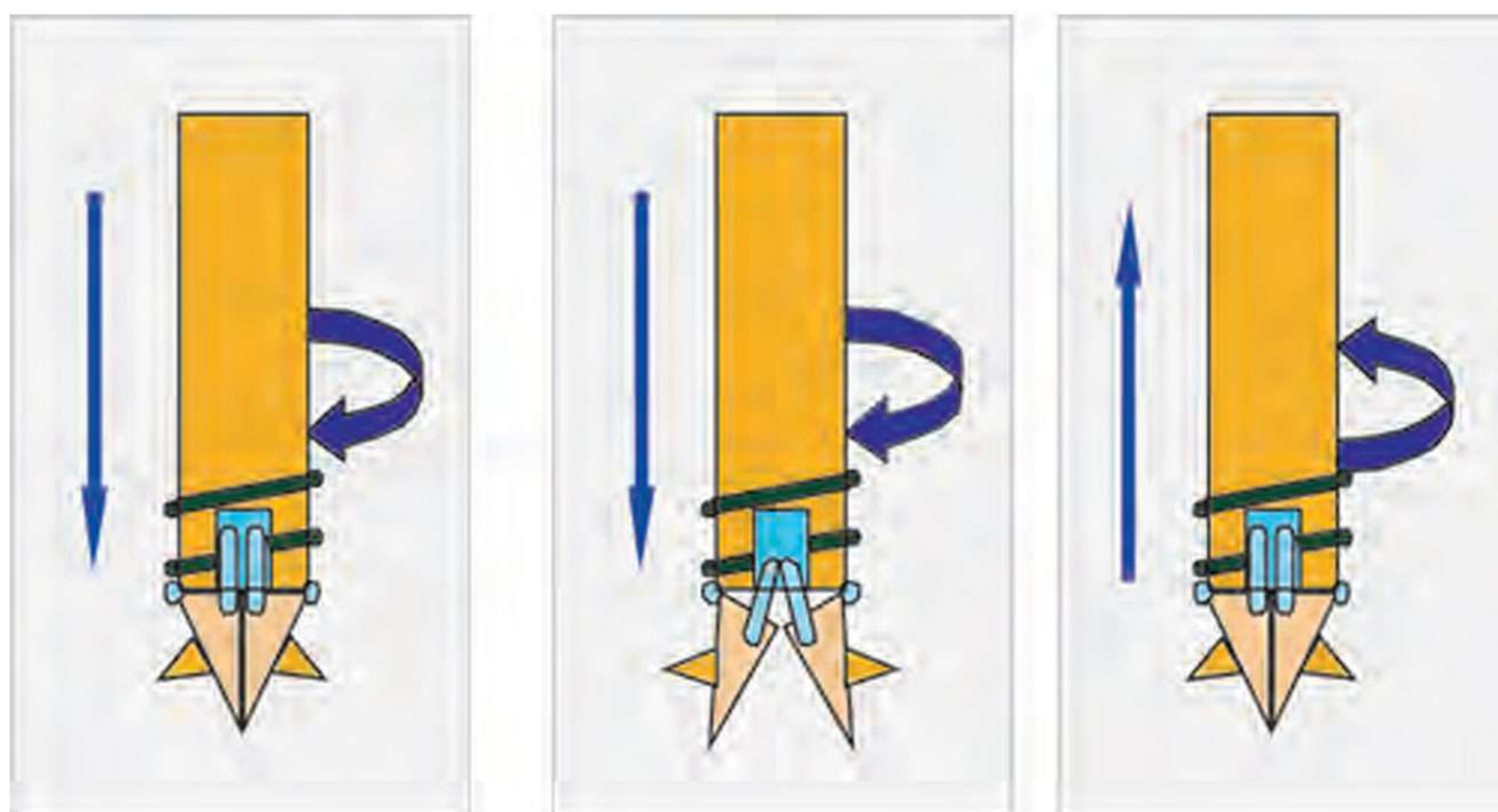
Sampling method: stratified single point random sampling



1.SE Rotary Cylinder Auger



2.structural Diagram



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Features of Rotary Cylinder Auger

1. Prevent the leakage of coal during sampling to assure the sample integrity.
2. Hollow –type structure suitable for material in biggernominal top size.
3. Inner self – cleaning push rod with high moisture adaptsbility to solve the sample blockage.



5E – CYP

Cross-Belt Sample

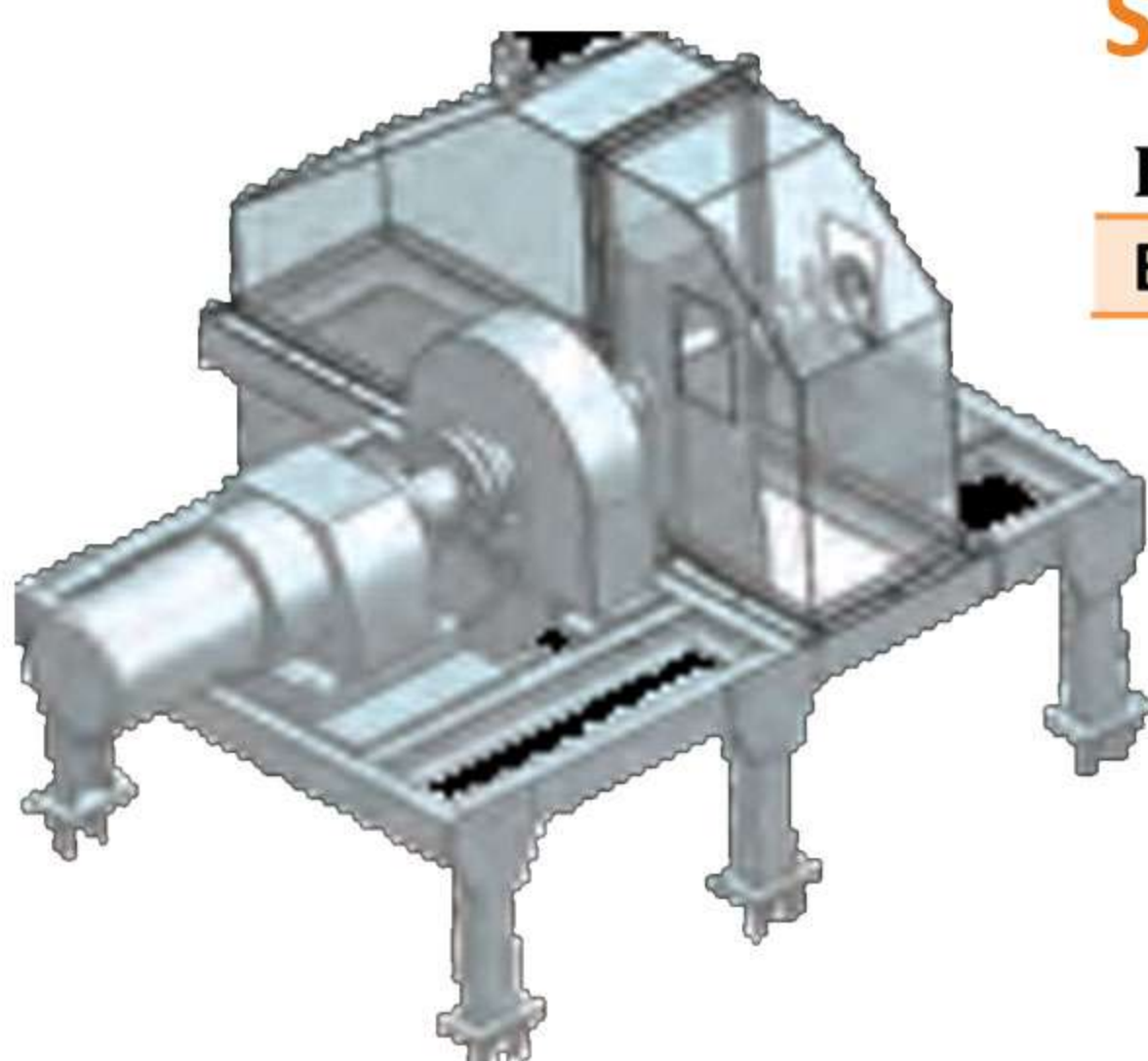
The cross –belt sampler for extracting samples from the moving streams on the middle position of the belt conveyor.



Features

1. Mass-basis sampling and time-basis sampling method for sampling method for choice.
2. Support Rollers under the belt form a circular arc shape to make every cut smoothly.
3. Auto sensor available to detect sample stream for automatic sampling.
4. Reduction and division of the material by online sample preparation system.is available if it is needed.
5. Control methods : Touch Screen Controller + PLC / Automatic / Semi-Auto / Manual mpling utter for Cross – Belt Sampler – Cross – Belt Sweep Type

Sampling Cutter for cross-Belt Sampler-Cross-Belt Sweep Type



Specification

Belt Width	650 – 2000mm	Flow rate	600 – 2000t/h
Belt speed	2.5 – 4.25m/s	Sampling method	Full section sampling

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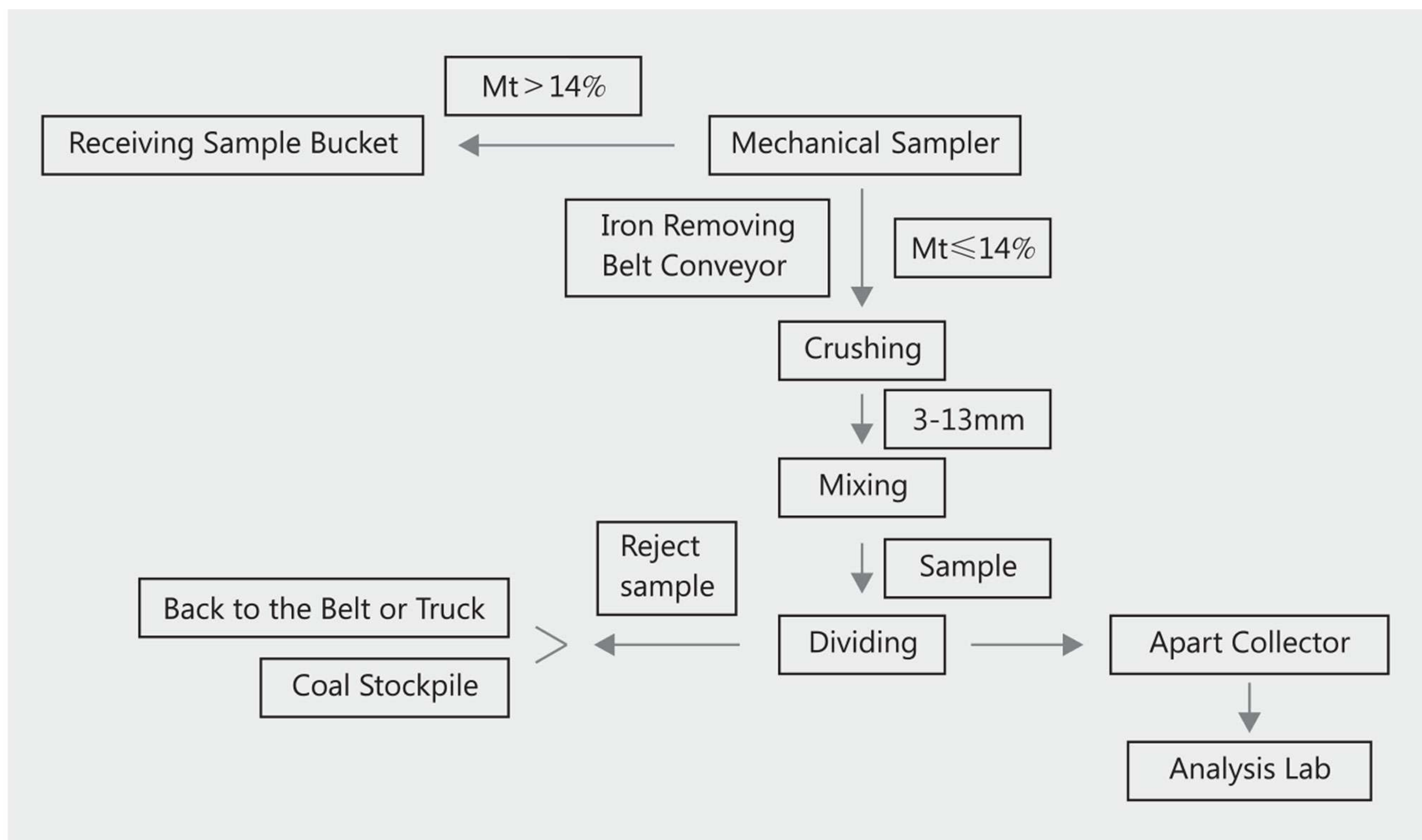


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Online Sempelpreparation System

Reduction and division of the material by online sample preparation system is available.

Process : (take GB as an example)

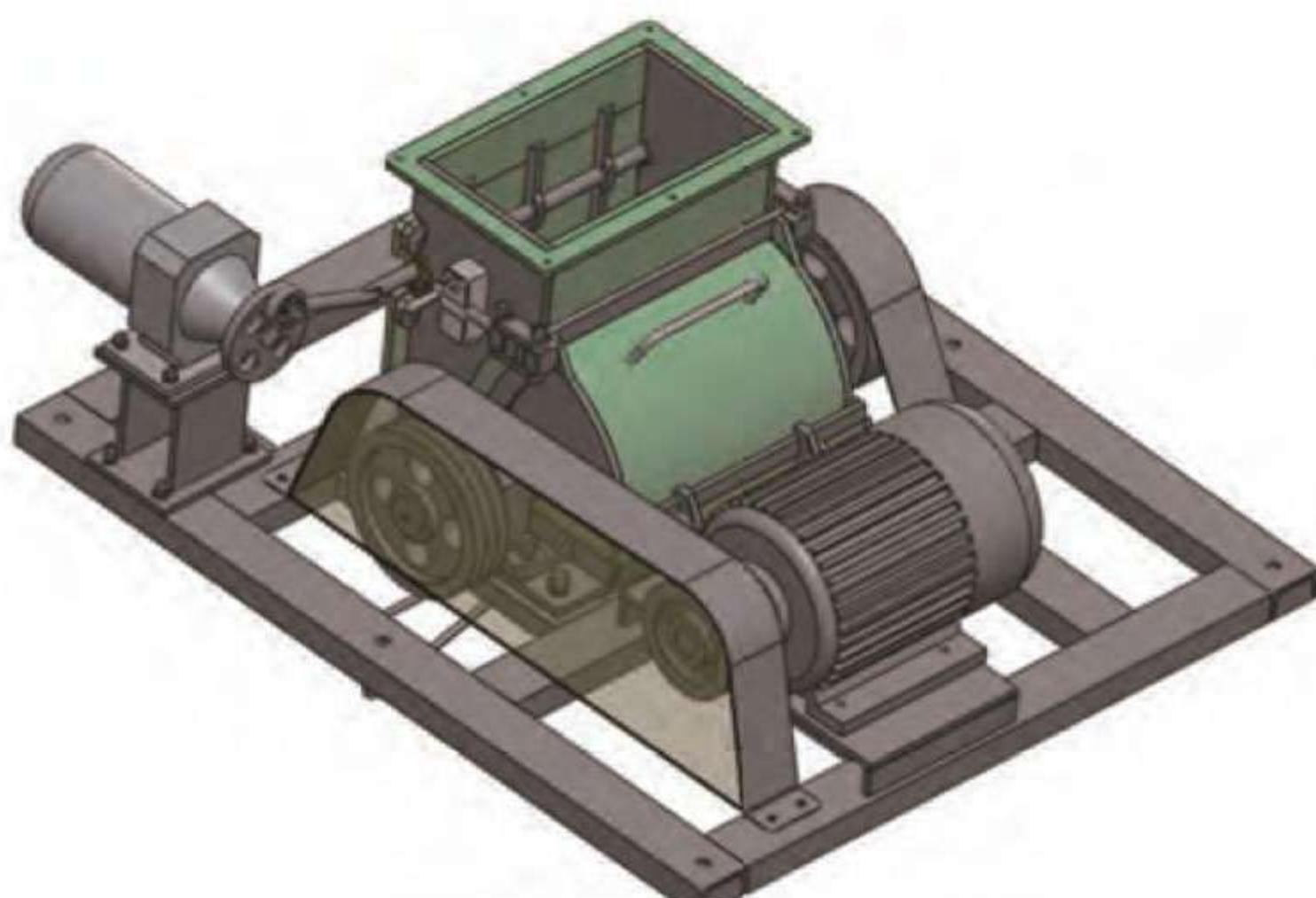


Sample Reduction – Hammer Crusher

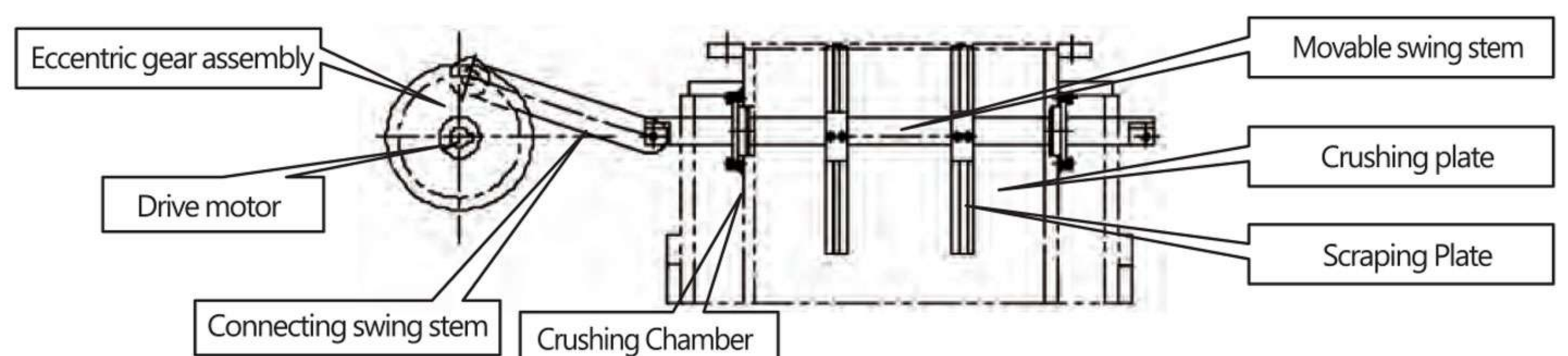
During the crushing, the sample with high moisture easily adheres to the crushing plate. CKIC Provides two kinds of cleaning devices to improve the moisture adaptability considerably.

Cleaning Device for PC 0303 Hammer crusher

Equipped with cleaning device of crushing chamber, which consists of driving motor and scraper Components, etc. During the crushing, the scraper will wipe the adhesive material on the crushing Plate continuously.



Cleaning Device of Crushing Chamber



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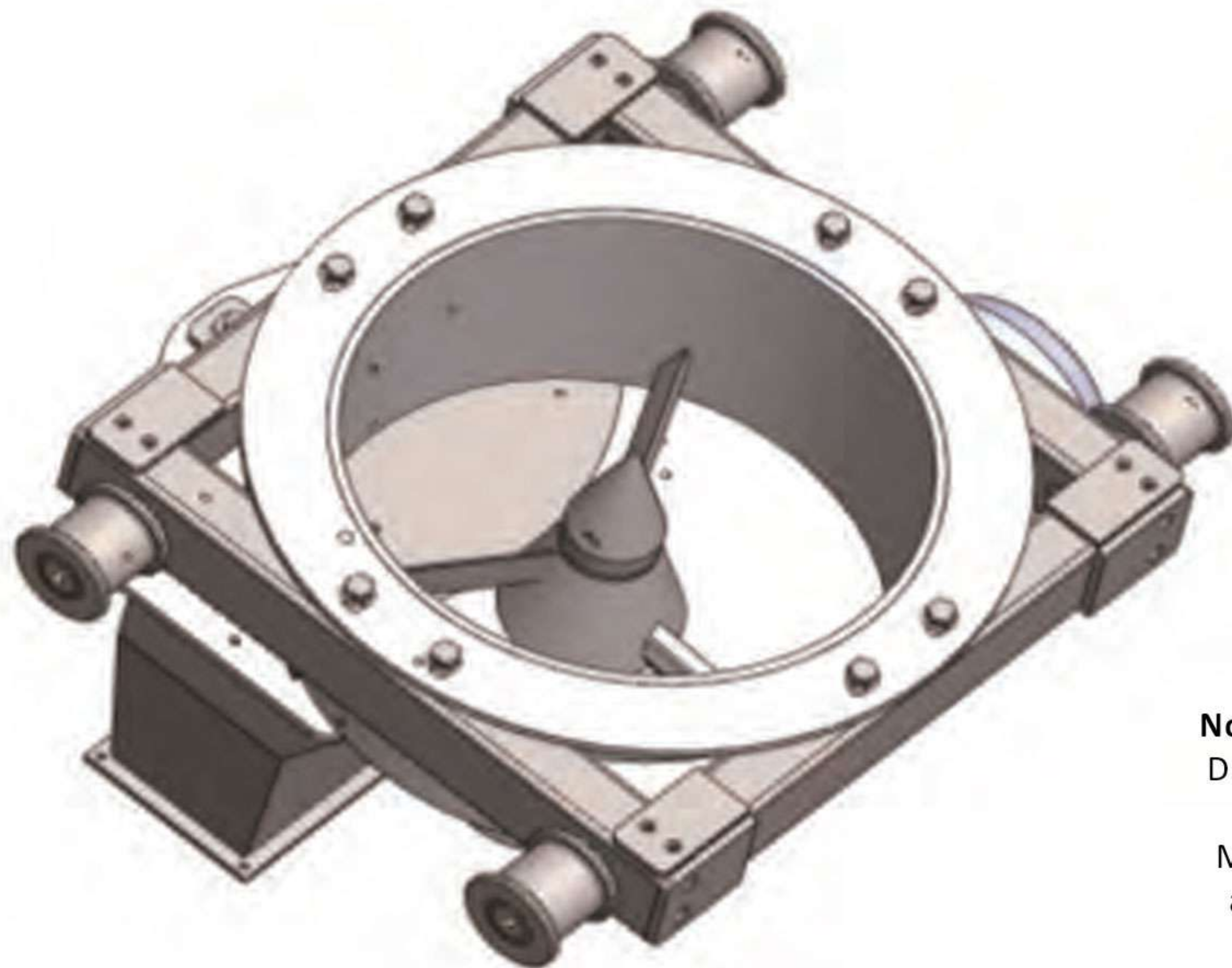


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Online Sempel preparation System

Sample Mixing – Material Mixing and Rectifying Device

The sample stream will be mixed uniformly after reduction to make sure
The sample is more representative in the following dividing process.



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Sample Division – scraper Diving Device

Equipped on belt conveyor, which is well matched with the belt surface.
Capable to extract a sample on full cross section completely.

