

BASS Automatic Sampler Products

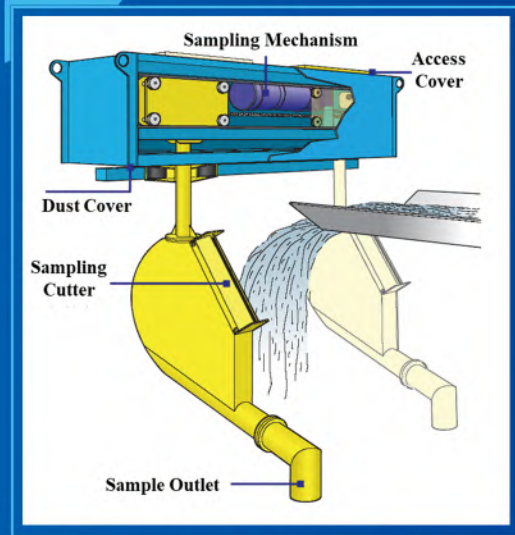
The Automation Institute of BGRIMM Technology Group has conducted technical cooperation with Heath & Sherwood (1964) Limited, a professional manufacturer of online sampling equipment in Canada, following the correct sampling theory proposed by the founder of sampling theory Pierre. Gy and specifically developed the BASS series sampler product to address the common problems of poor sampling representativeness, difficult control of sampling quantity, and easy blockage of sampling pipeline in mines. We can provide a complete solution for sampling in the mining industry, meeting the sampling needs of different media. The BASS series "Customer Customized Design Sampler" with its unique mechanism can ensure good sampling representativeness and stability of the sample flow. The parameters such as sampling interval and sampling time can be easily adjusted, and the sampling pipeline and sampling cutter can be cleaned regularly, making it convenient and reliable to use.

The technical characteristics of the BASS series sampler are:

The "D" cutter structure is specially designed based on the particle size, concentration, and flow parameters of the ore slurry, ensuring that every "piece" of slurry cut enters the sampling cutter body without resistance or splashing.

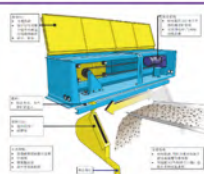
The linear moving cutter intercepts the entire process flow of slurry at a reasonable speed and cuts out a "piece" of slurry, instead of taking a fixed or several positions of slurry as a sample.

The size and moving speed of the linear moving cutter are customized according to the slurry concentration, particle size, flow rate and other parameters to ensure that every particle in the slurry has an equal chance to flow into the cutter body.

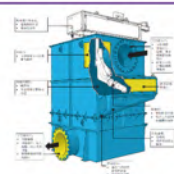


Schematic Diagram of the Most Sampling Representative Linear Moving Cutter Sampler

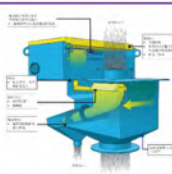
Primary slurry sampler, used for metal balance calculation and process control



M1330 Series

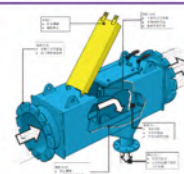


M1350 Series



M1500 Series

Primary slurry sampler, used for process control only

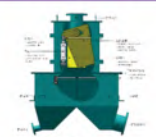


TMC Series (Gravity)

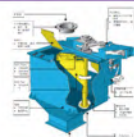


PPV Series (Pressure)

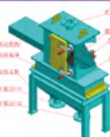
Slurry divider, used for secondary or multiple sample reduction, or directly used for small flow sampling



M1880 Series



M3000 Series

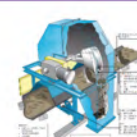


M1800 Series

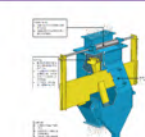


M1600 Series

Solid particle sampler

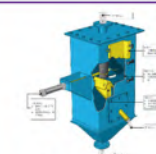


BARM Belt Middle Sampler

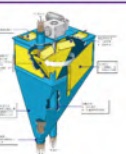


M1200 Belt Head Sampler

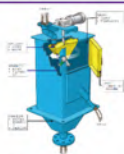
Shift sampler, used to take the final sample into the sample barrel



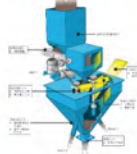
M1860 Series



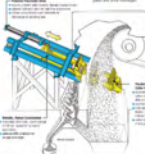
M4810 Series



M4510 Series

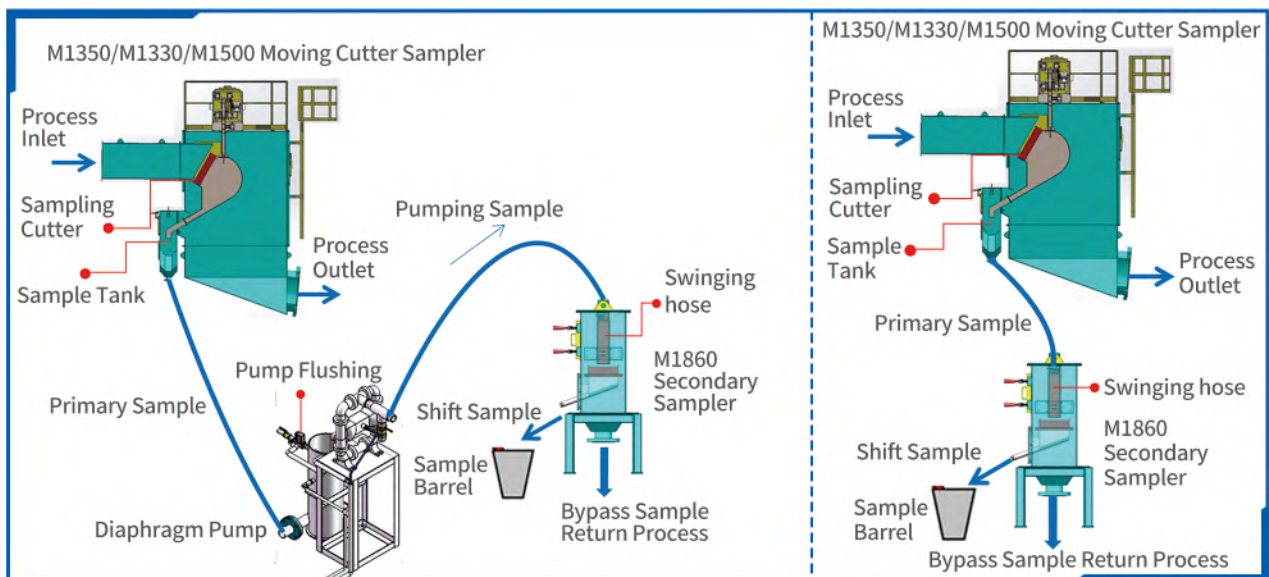


M4810 Series Divider

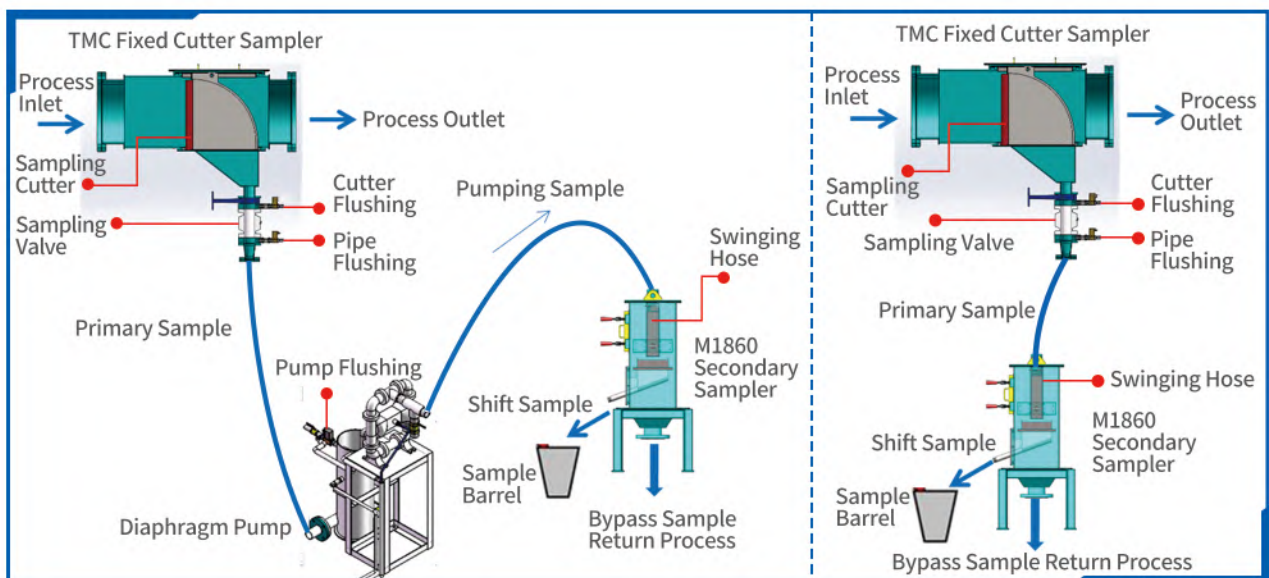


M1400 Belt Head Sampler

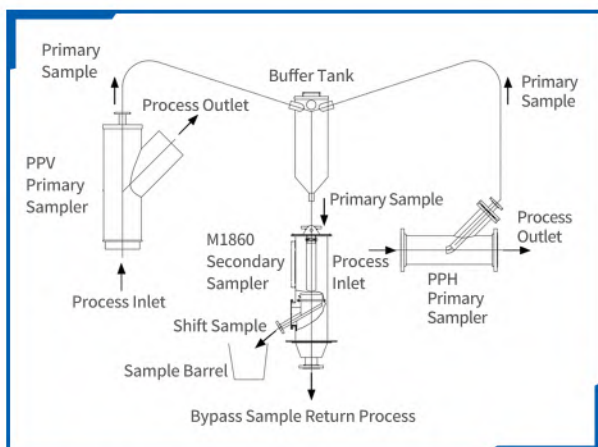
BASS Series Sampler Products that Meet the Needs of Different Working Conditions



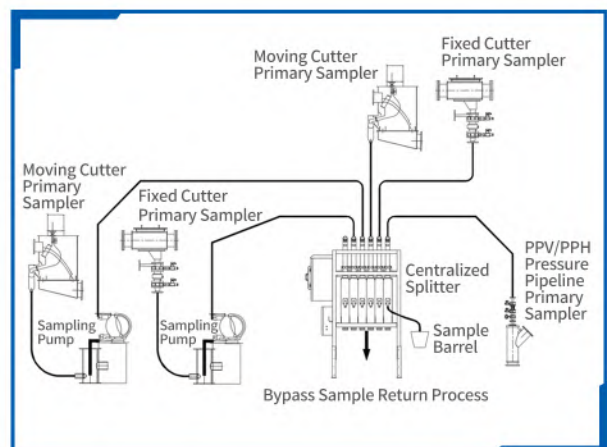
Typical Shift Sampling Process of Moving Cutter Sampler



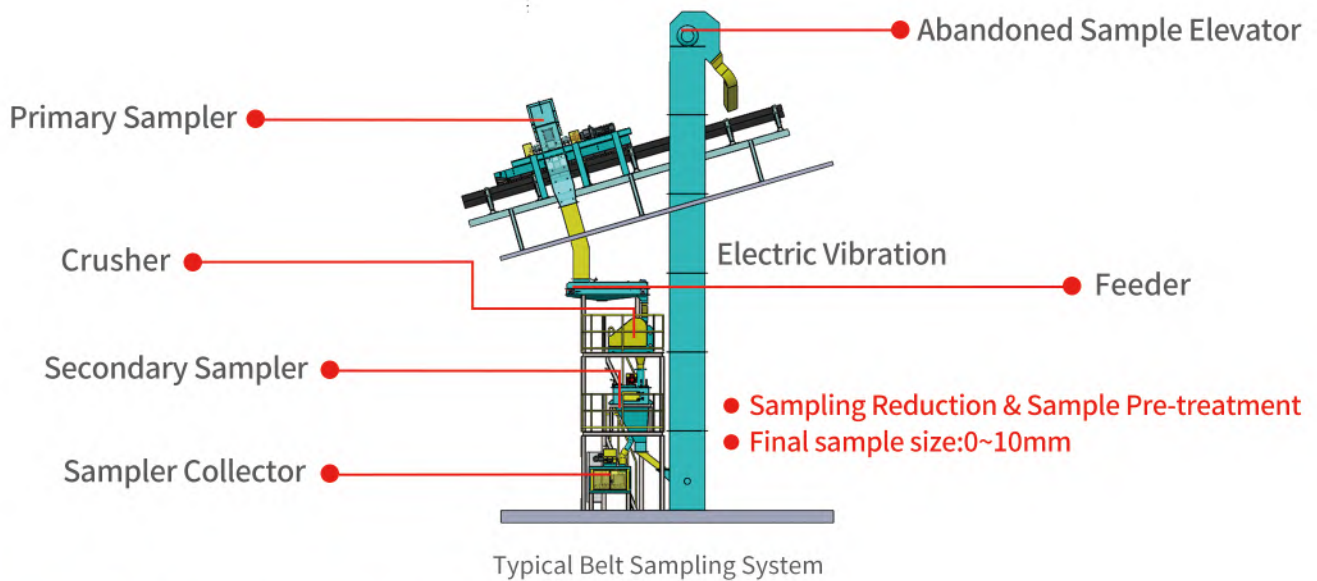
Typical Shift Sampling Process of Fixed Cutter Sampler



Typical Shift Sampling Process of Pressure Pipeline Sampler



Typical Shift Sampling Process of Centralized Splitter



Application examples

BASS sampler products have high quality, high stability and reliability, high sampling representativeness, and can be customized and flexibly designed to meet different needs for high flow rates and complex working conditions. Thanks to the excellent performance of the BASS series samplers in industrial sites, since its launch in 2014, there have been over 60 domestic and foreign mining customers, with a cumulative sale of over 700 samplers/set of various models, including over 100 sets of moving cutter samplers.



Main Customers of BASS Samplers



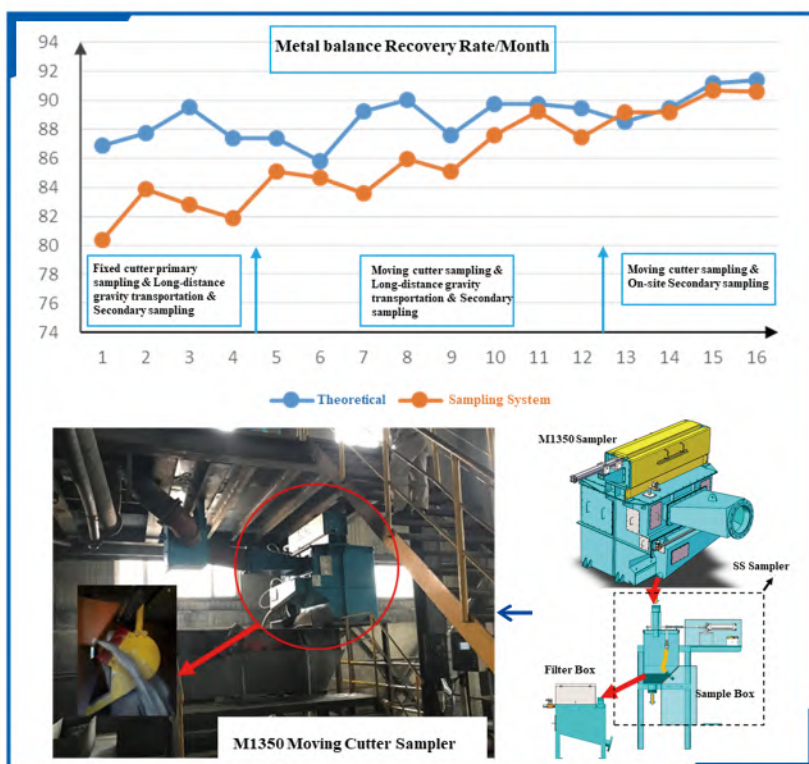
Photos of BASS Sampler Production



Example of BASS Series Sampler Installation in Domestic Plants



Example of BASS Series Sampler Installation in Foreign Plants



Practice of Customized Representative Sampling System to Solve Metal Balance Problems