

S SERIES SAMPLING SYSTEMS

Rotaport™ Cone Splitter

Mineral Exploration



Rotaport™ Cone Splitter Specifications

Rotaport Cone Splitter

Stationary sampling port cone splitters have proven to be the most representative and operator-friendly form of mineral drilling sample splitters available and are widely used throughout the world. However, by rotating the cutting ports below the sampling cone, sample representivity is dramatically improved, particularly when material flow bias is present, caused when, for example: the drill rig and/or sampling system is not or cannot be leveled correctly, or a continual fines bias or a random natural flow bias is present (inherent to wet sampling).

The RotaPort Cone Splitter is a must for geologists and drilling contractors who are serious about providing accurate, trouble-free sampling results from production, grade control and exploration mineral drilling.

Rotaport Cone Splitter Special Features

1. State of the art sampling representivity using RotaPort Cone Splitter radial cutter technology in accordance with world-best-practice sampling theory.
2. For continuous wet & dry drill sampling.
3. Material blockage, bridging, hang-up & cross contamination is minimized.
4. In wet drilling, centrifugal forces push water out of the rotating sample bag, retaining coarse & fine particulate, removing costly bulk collection & time-consuming evaporation methods post drilling to retrieve samples.
5. A fraction of the height of any other comparable splitter on the world market.
6. A lubricated eccentric vibrator improves gravity-fed material flow.
7. Fully safety interlocked with user-friendly control.
8. Sample bag loading/unloading from a single waist-height loading point.
9. Stainless steel sampling cone.
10. Visual indication of cutter rotation provided with rotating parts fully guarded.
11. Bulk waste collection ability provided and dust suppression available.
12. Multiple samples can be taken simultaneously (primary, duplicate, logging, bulk) via radial cutters with options to change split percentages by simply changing cutting blades.
13. Sample bags are loaded into buckets that are enclosed within the splitter and rotate inside during operation, ensuring total protection from: outside elements during sampling, tearing of bags, sample loss, etc. Bags can be loaded into buckets on or away from the machine.
14. As the Sampling Cone is stationary & only the Cutting Ports rotate, feed material flows off the cone without spiraling, ensuring a true 360° rotational sample cut per revolution. This enables the cutting ports to rotate faster, providing greater precision & representivity.
15. Rotation is achieved by variable speed hydraulic motor fitted with anti-friction conical thrust bearings to absorb uneven side loads.
16. Large inspection doors provide for ease of access to internals and cutters.

17. A “deflector cone” shrouding the sampling cone ensures all feed material for sampling is directed into the cutting ports, preventing delimitation bias.
18. Cutter ports are fitted with blades designed in accordance with sampling theory guidelines to prevent extraction bias.
19. Fines & flow bias through the splitter captured per revolution of the cutters.
20. The conical inlet throat is lined with a special wear-resistant, non-stick liner.

SPECIFICATIONS:

Dimensions

Ø880 mm x 1,185 mm high (including sample bag)

Estimated Weight

160 kg (empty)

Standard Splitting Range

3 to 10% (5 L)

Logging Sample Volume (if required)

Up to 25% (12.5 L)

Cutting Port Speed

15 to 40 rpm

Hydraulic Consumption

3 to 5 lpm (low pressure)

Pneumatic Consumption

15 lpm @ 90 psi (vibrator)



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