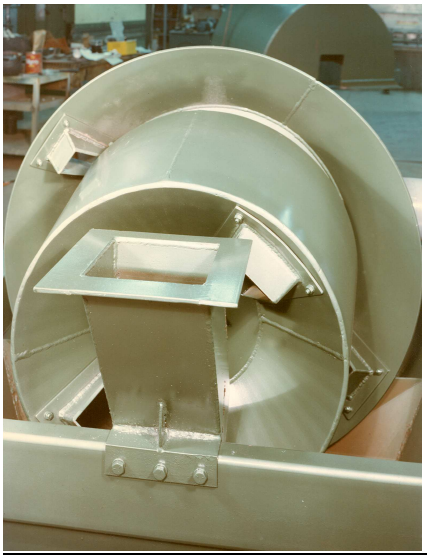
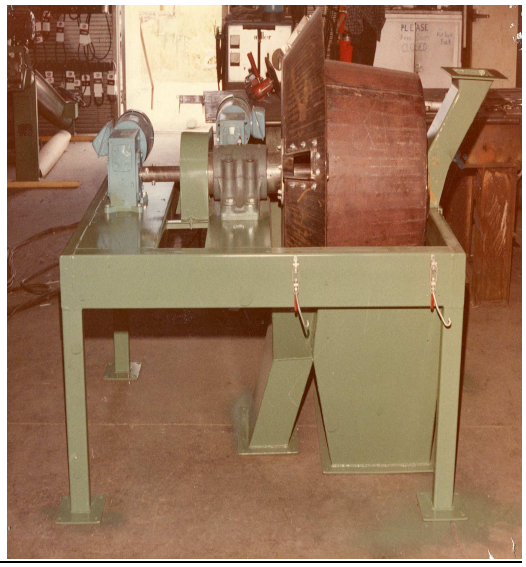
QUINN PROCESS EQUIPMENT CO.

24" x 40" QUINN DUPLEX SNYDER-TYPE SAMPLER

Bulletin QPEC S-001



Feed View of Sample Splitter



Sample View of Sampler Splitter

Applications

Quinn Duplex Snyder-type Samplers provide a simple, positive, inexpensive, and accurate solution to obtaining small representative samples of large or small flows of relatively dry solids. Two stages of sample reduction are performed in the single unit. Ideal for sampling uranium ore, coal, sulphide, and non-metallic ores, industrial products, etc.

The nature of the feed material must be of a consistency that permits the removal of a representative sample in the size range of feed involved. The sampler unit will mechanically produce a predetermined percentage of feed material as a sample.

Advantages

1. Eliminates one stage of sampling which reduces capital cost and operating expenses.
2. Mixing barrel is provided between the two stages to assure a well mixed feed to the second stage.
3. The sample cutters have individual motor drives. They rotate in opposite directions and at different speed to minimize short circuiting.
4. The unit is of enclosed design with a removable cover. A vent is provided in the cover for connection to the plant dust control system.
5. Cutter blades are replaceable and are fabricated of AR steel plate.
6. Cutter openings are a minimum of 2-1/2 to 3 times the size of the largest feed particle.
7. Cutters are radial and intersect the feed stream at right angles.
8. Normally, 2 to 4 cutters are provided in each sampling pan to take a total 10% to 20% sample. Assuming each pan is equipped with 10%, the resulting sample from the unit will be 1% of the total feed. Cutter openings are available to suit the application.
9. Reject discharge chute is vertical and sample chute is at 70' slope. This permits handling solids with higher moisture content and facilitates clean-up between sampling lots.

(Dimensions and specifications on reverse side.)

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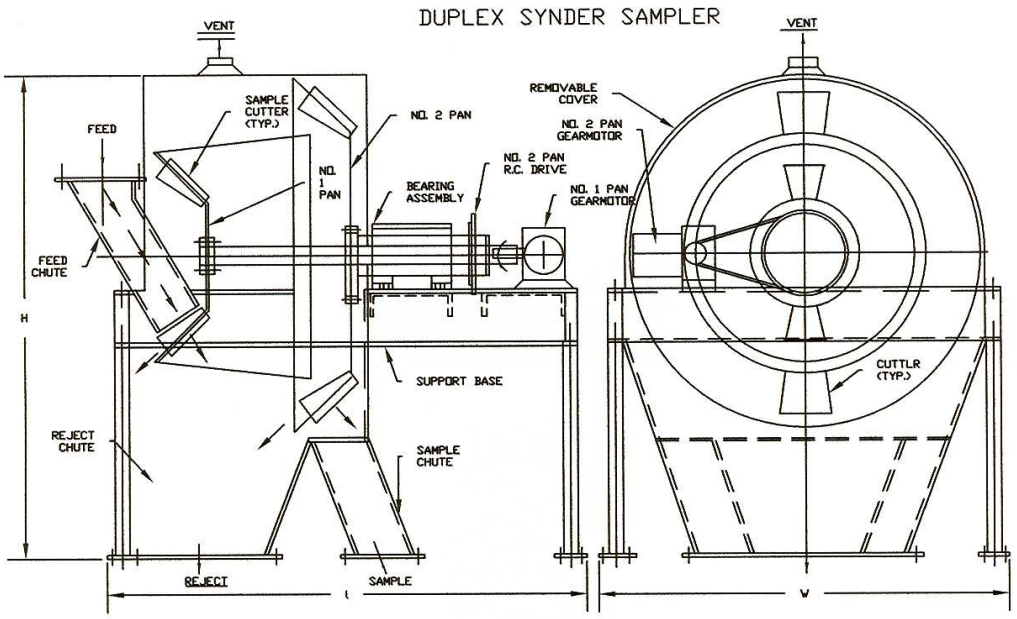

DIAM MIX BARREL

OUTSIDE DIAM #1 PAN	OUTSIDE DIAM #2 PAN	*FINAL SAMPLE CUTTERS/PAN 2	*FINAL SAMPLE CUTTERS/PAN 4	**WIDTH CUTTER OPENING #1 PAN	**WIDTH CUTTER OPENING #2 PAN	DIAMX SMALL END	DIAM LARGE END	LENGTH	MOTOR hp TOTAL (2 MOTORS)	APPROXIMATE OVERALL DIMENSIONS L	APPROXIMATE OVERALL DIMENSIONS W	APPROXIMATE OVERALL DIMENSIONS H	APPROXIMATE WEIGHT lb
24	40	1%	4%	2-¾	3-¾	24	28	18	1	72	54	54	1100
36	54	1%	4%	3-¾	5-11/16	36	40	18	1-½	81	72	86	1750
48	72	1%	4%	5-⅜	7-⅜	48	52	18	1-½	90	90	102	2400

ALL DIMENSIONS IN INCHES

* BASIS 5% CUTTER OPENINGS

** BASIS 5% CUTTER OPENINGS. FOR 7-½% INCREASE, DIMENSIONS 50% AND FOR 10% INCREASE DIMENSIONS 100%.

Pans: Fabricated of heavy AR plate. Bolted to shaft flanges.

Cutters: Replaceable, radial with beveled blades of AR plate. 5% cutter opening standard; other openings to suit.

Feed chutes: AR plate (flanged).

Hopper: Sample and reject hopper of mild steel with flanged outlets.

Bearings: Pillow block, oil lubricated.

Drive: Roller chain (#2 pan). Direct connected (#1 pan).

Drive guard: OSHA type.

Gearmotor: 2 required. Totally enclosed, fan cooled.

Cover: Easily removable cover with snap connections, felt seals around shaft and feed chute opening. Provided with flanged dust vent connection.

Paint: Wire brushed, primed, and enamel finish.

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