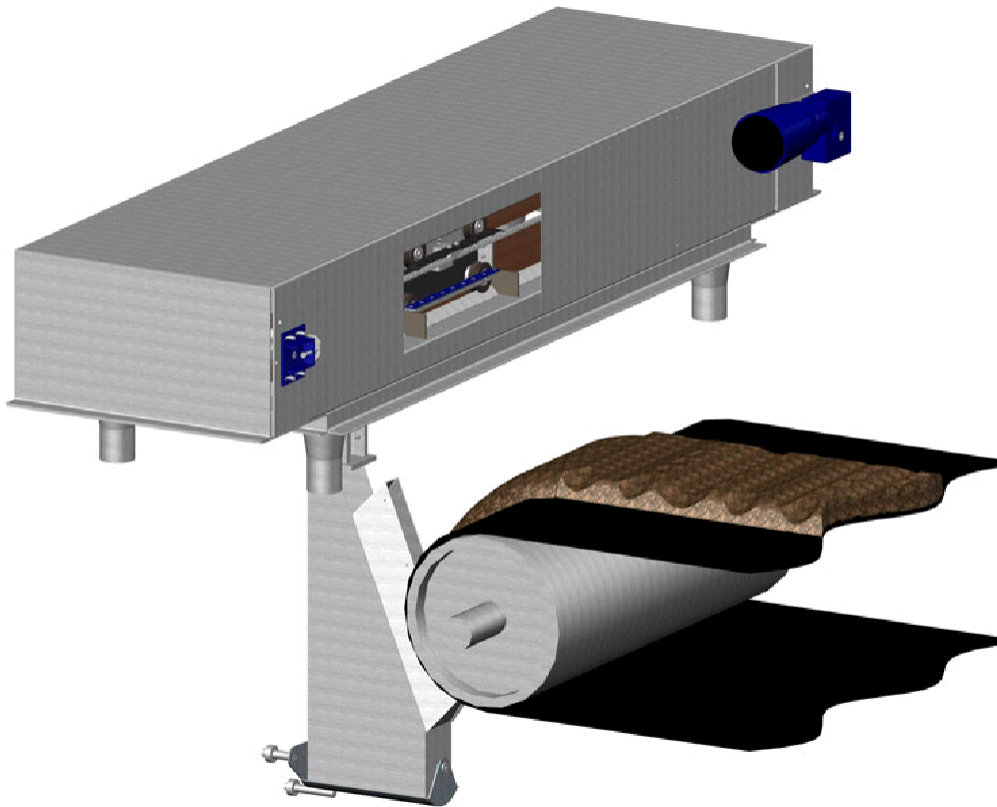


CROSS BELT BUCKET SAMPLER TYPE CBBS



The **Bucket Sampler Type CBBS** is designed to take out a representative sample of powdered material and lumps up to 100 mm, from a free falling flow of materials.

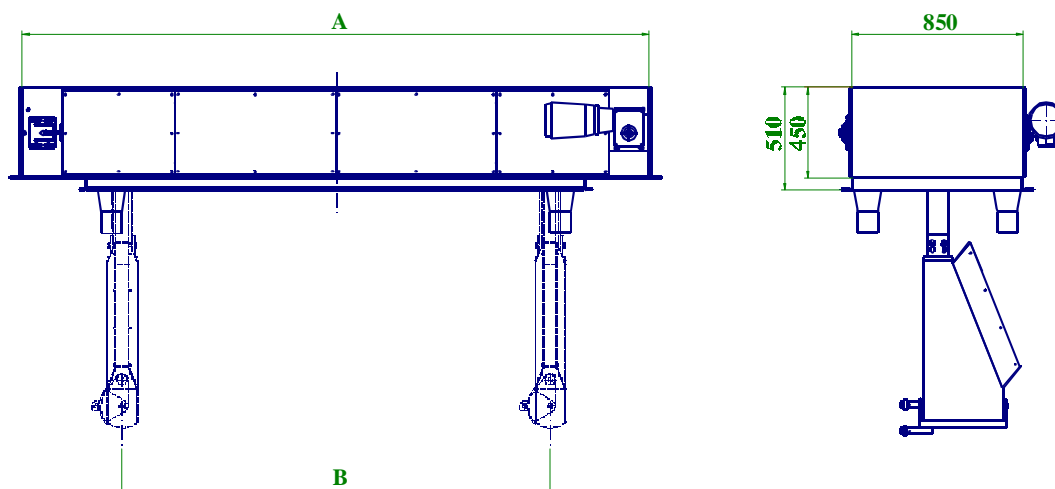
General Description:

The Bucket Sampler Type CBBS consists of a cutter attached to a carriage running on a double rail system. The carriage is driven by an electric motor via two roller chains.

The cutter is individually selected based on layout conditions, size of sample and maximum particle size. An additional supporting beam with rail can be added, depending on cutter design.

The sampling can be based on tangential or vertical vectors of the material flow and the degree of admission is chosen so that overloading does not occur while the cutter passes through the material flow. The cutter is available in S235 JRG2 or stainless steel depending on the material to be sampled.

The cutter is mechanically opened/closed outside the material flow for sample discharge into a hopper. The resting position of the cutter between two samples is outside the material flow.



Drive:

Type: Helical geared motor with brake, 2.2 kW
 Voltage: 3 x 400 V, 50 Hz

Main dimensions:

SAMPLER TYPE	A: Total length mm	B: Travel distance mm	Weight Kg
CBBS 500	2500	1700	220
CBBS 650	2650	1850	229
CBBS 800	2800	2000	238
CBBS 1000	3000	2200	250
CBBS 1200	3200	2400	262
CBBS 1400	3400	2600	275
CBBS 1600	3600	2800	286

The cutter is individually designed based on layout conditions, particle size, required sample size, etc.

Cutter Type:	Slot width: (SP)	Speed: (V)	Nett volume: (N)
ST (tangential)	3 x max particle size	Max 0.8 m/sec	$N = \frac{Q \cdot SP^{1.33}}{3.6 \cdot V}$
SL (vertical)	3 x max particle size	Max 0.8 m/sec	$N = \frac{Q \cdot SP^{1.33}}{3.6 \cdot V}$

where N is cutter volume in litres, Q is material flow in m³/h, SP is slot width in m and V, is cutter speed in m/s.



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