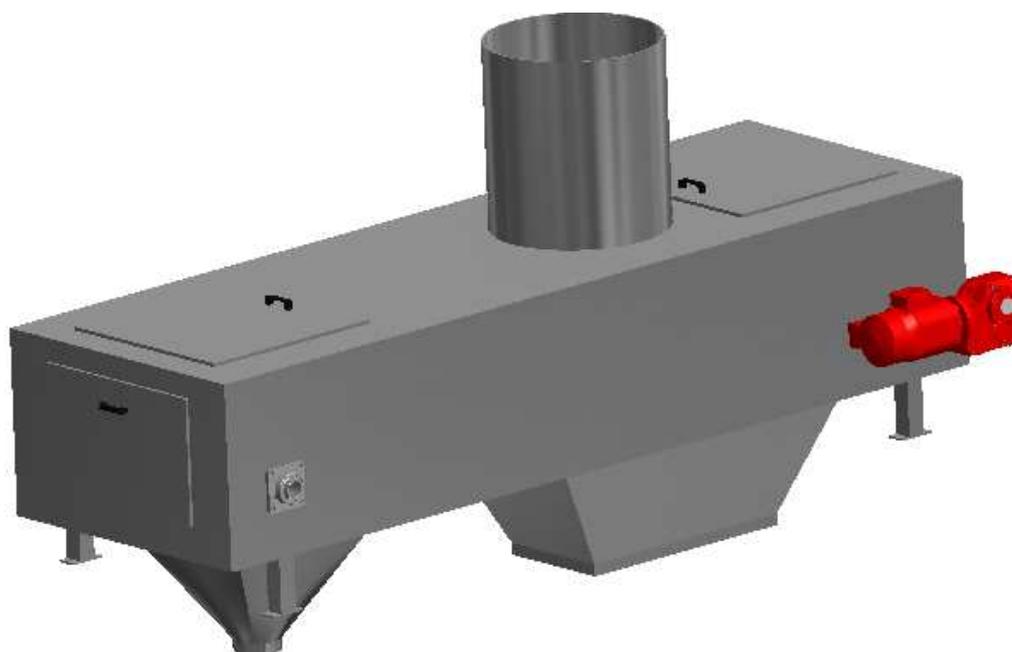


CBS – CHAIN BUCKET SAMPLER

REPRESENTATIVE SAMPLING FROM PIPES



- CBS takes a representative sample of free falling material from a closed pipe system.
- CBS collects a full cross section of the material flow.
- The bucket is replaceable and the speed of it is adjustable.

PRINCIPLES OF OPERATION

The Chain Bucket Sampler (CBS) is designed to extract a representative sample of granular material from a free falling flow of material in a closed pipe system. Representability of the sample is ensured by collecting a complete cross section of the free falling material.

GENERAL DESCRIPTION

The Chain Bucket Sampler (CBS) consists of one or more buckets that are secured to two hollow pin chains, suspended between the sprockets, so the bucket is movable in a horizontal direction. The sprockets are driven by one geared brake motor, which is directly connected to one of the shafts.

The design of the cutter is plant based and therefore custom made to fit the specific system. The parts that vary:

- The **bucket** that collects material in a certain quantity.
- The **slot** integrated in the bucket is one of two factors to determine the quantity of collected material.
- The other factor is the **velocity** of the chain drive which is directly proportional to the quantity of collected material.
- The **length** of the machine is determined by the distance between the two drive axles.

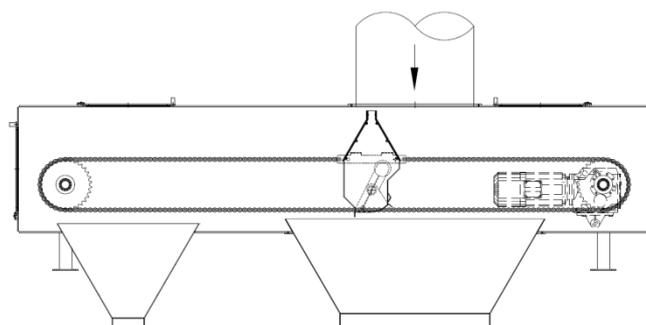
TECHNICAL DATA

Drive unit:	Geared brake motor
Voltage:	400V/230V-50Hz or as required
Particle size:	< 40 mm
Adjusting:	Frequency converter
Housing/bucket:	Stainless steel
Inductive sensors	- Decelerating the bucket - Positioning the bucket

CUTTER VOLUME CALCULATIONS:

Slot width (SP):	Speed (V):	Volume (N):
3 x max. particle size	0,6 m/s	$N = \frac{Q \times SP}{3,6 \times V}$
N = cutter volume	[litres]	
Q = material flow	[m ³ /h]	
SP = slot width	[m]	
V = speed of the cutter	[m/s]	

DRAWING



COMPANY PROFILE

M&W JAWO HANDLING IS AN INTERNATIONALLY WORKING ENGINEERING COMPANY SPECIALISED IN DESIGN, MANUFACTURING AND SUPPLY OF INDIVIDUAL MACHINE UNITS AND SYSTEMS FOR REPRESENTATIVE SAMPLING OF POWDER AND BULK MATERIAL. SEVERAL HUNDRED SYSTEMS ARE SUCCESSFULLY SAMPLING IN THE INDUSTRY WORLD-WIDE.