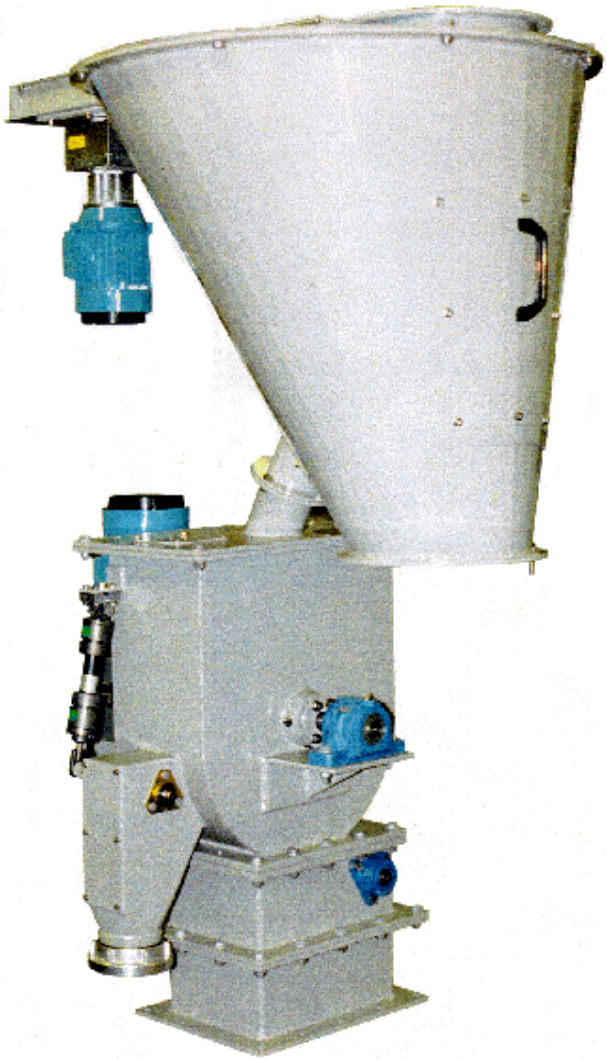
CHUTE SAMPLER
TYPE FPMX



The **Chute Sampler Type FPMX** is designed to take out increments of non-sticky powdered material and lumps up to 40 mm, in a closed pipe system, from a free falling flow of materials and collecting these in a mixing tank for establishment of mean samples.

General Description:
The sampler is driven by a geared motor and toothed V-belt drive. A specially designed spoon rotates around a vertical axis. The spoon inlet is designed so that the full cross section of the material flow is cut through during one rotation, and is further shaped so that all particles from any part of the cross section have the same probability of being sampled i.e.: a representative sample is taken. The samples are collected in a mixing tank, where they are homogenized.

Samples can be discharged manually or automatically from the mixing tank.

By manual discharging, the mixed sample is collected in a beaker (approximate volume 1.4 litres) and afterwards the mixing tank is emptied through a manually operated bottom gate.

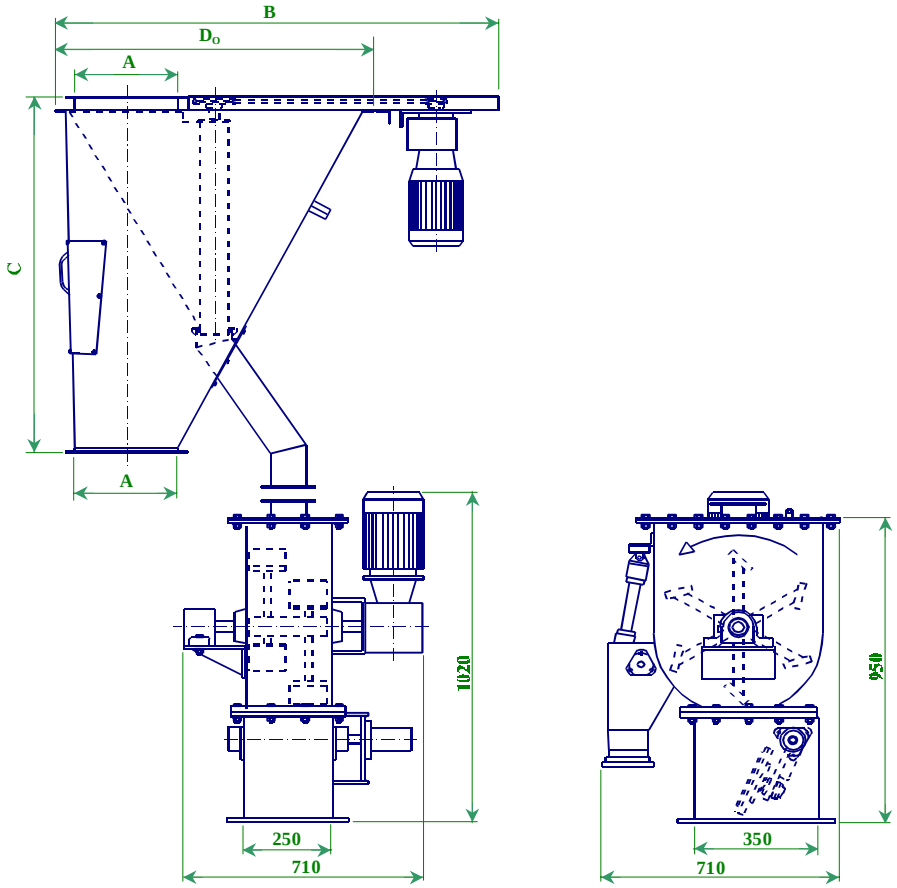
By automatic discharging, a hydraulic operated bottom gate empties the mixer tank into a chute where additional equipment like dosing unit and automatic tube post receiving/sending station can be installed for further handling of the samples.

This system design ensures, that the material at any time present in the mixer tank will represent a true and representative average of the material having passed the sampler, since last emptying of the mixer tank.

An observation window is provided on top of the chute sampler body.
The sampling spoon is parked well away from the material stream, when no sample is taken.

The spoon is available in stainless steel or wear resistant material. The body is manufactured from mild steel plate.

The control of the sampler and hydraulic operated bottom gate is normally operated from a central PLC-system.



The sampler can be mounted in a vertical chute, either circular or rectangular.

Drive:

Sampler: Type: Helical geared motor and toothed V-belt drive.
Mixer: Type: 0.55 kW geared motor, 4 pole, 36 rpm.
Outlet mixer: Type: Hydraulic actuator.
Voltage: 3 x 400 V, 50 Hz.

Type:	Particle size mm.	A mm	B mm	C mm	D_0 mm	Motor kW	Speed m/s	Wgt kg
FP 100	Max. 10	Ø/□ 100	800	600	ø 470	0.25	0.6	55
FP 200	Max. 15	Ø/□ 200	1050	800	ø 720	0.25	0.6	80
FP 300	Max. 25	Ø/□ 300	1310	900	ø 940	0.37	0.6	120
FP 500	Max. 40	Ø/□ 500	1790	1200	ø 1420	0.55	0.6	140

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