

PELLETIZING SYSTEMS >



BATCH SAMPLER

Compact, fully automatic pellet sampling unit



Whether raw material or end product, modern industry often produces large quantities of bulk material. Regular analyses are required to ensure that pellets meet your quality standards. The BATCH SAMPLER is a compact, fully automatic system taking pellet samples by means of a suction lance at the end of the classifier.

Your benefits

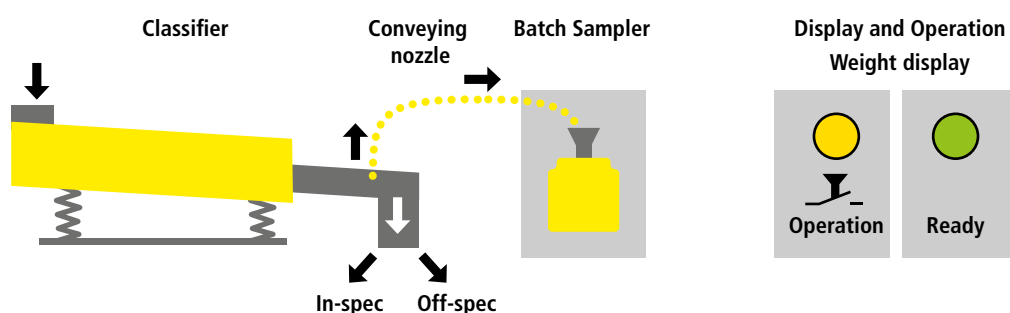
- Little maintenance required due to hardly any moving parts
- Flexible positioning within a radius of a few meters around the sampling point
- Automatic collection of a 2 to 5 kg pellet sample representing the entire production lot
- Integrated gravimetric control
- Integration into existing process control
- Compact built and flexible positioning at site, IP 55 protected
- Plug and use due to complete assembled delivery
- Intuitive operation with just one button

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How the BATCH SAMPLER works

The BATCH SAMPLER can be flexibly positioned within a radius of a few meters around the sampling. The sample is taken by means of a suction lance at the end of the classifier. The operators only have to insert or replace containers. The quantity inside the collection container rises in proportion with the produced amount. Sampling is only active when production is in-spec. Sampling cycles adjust automatically to production throughput that in the end a batch representative sample is collected in the container. Pellet samples are continuously taken which represents the entire production quantity of production batch. The sampler conveys small quantities of pellets fully automatically in short conveying cycles into a 10 l sample collection container. With a scale control, the conveying strokes are clocked in such a way that the sample quantity in the collection container increases proportionally with the total production quantity. The control of the BATCH SAMPLER is integrated into a Distributed Control System (DCS) or the operating panel of the extruder control. Without additional data entries, the system knows the total batch production amount and whether production is in spec and shall be sampled. The weight of the sample quantity is configurable.



BATCH SAMPLER at a pelletizing line. A solenoid valve feeds a conveying nozzle at the sampling lance, which transports pellets into the sample collection container by flight conveying.

Features

- Fully automatic representative sampling of up to 10 l pellets
- One-button operation
- Scale display and two indicator lights
- Low maintenance
- Flexible sampling point a few meters away from the place of installation
- Compact dimensions for wall or base mounting
- Completely pre-assembled with connectors
- Gravimetric control of the conveying cycles by external logic
- Flexible integration into the existing DCS (optional stand-alone with separate PLC)
- Scope of delivery includes two wide-neck drums and one calibration weight each

Technical specifications:

Dimensions:	580 x 655 x 331 mm
Weight:	35 kg
Operating temperature:	0 - 60 °C
Humidity:	40 - 85 % relF
Load cell amplifier-AD-converter:	24 bit
Load cell: permissible loading area:	30 kg
Load cell: max. over load	45 kg
Container size:	Ø 274 x 239
Sample size (adjustable):	1 - 10 kg
Typical sample size:	5 kg
Air pressure (oil-free):	5 - 8 bar
Bus connection:	Profibus / ProfiNet