BULK DENSITY SYSTEM - BDSTM



BDSTM BULK DENSITY SYSTEM



Sampler model BDSTM

erein Started

Bulk density [9/1]

466

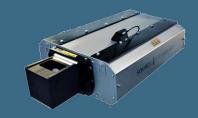
Start/Stop Laboratory Commands Commands

Sample Id: 1621

Moisture [%]

14.42

Next sample: 176 sec.



Empty cup prior to sampling



Overfilled cup after sampling



Scraped cup prior to weighing

ANALYTICAL PARAMETERS









* Option

- Bulk Density
- Moisture Index (Resonance) *
- External sample
- Temperature *

Visual product inspection*

ADVANTAGES

- Eliminates manual resources for sampling and analysis.
- Actual bulk density every 60 seconds.
- Full control of product quality.
- Improve performance of essential key process equipment such as extruders and dryers.



166 14.42

BDSTM CONFIGURATE YOUR OWN SAMPLER

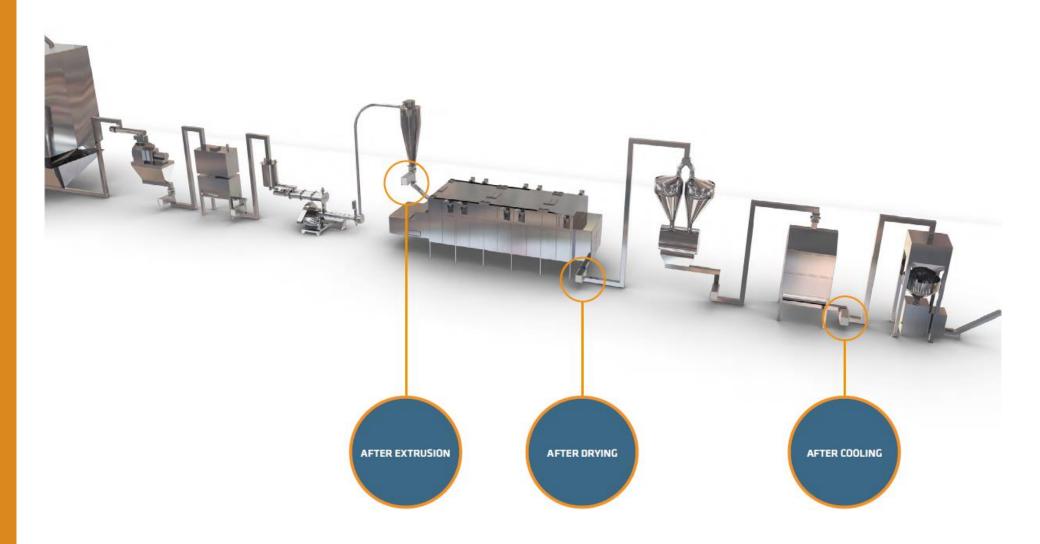


Description

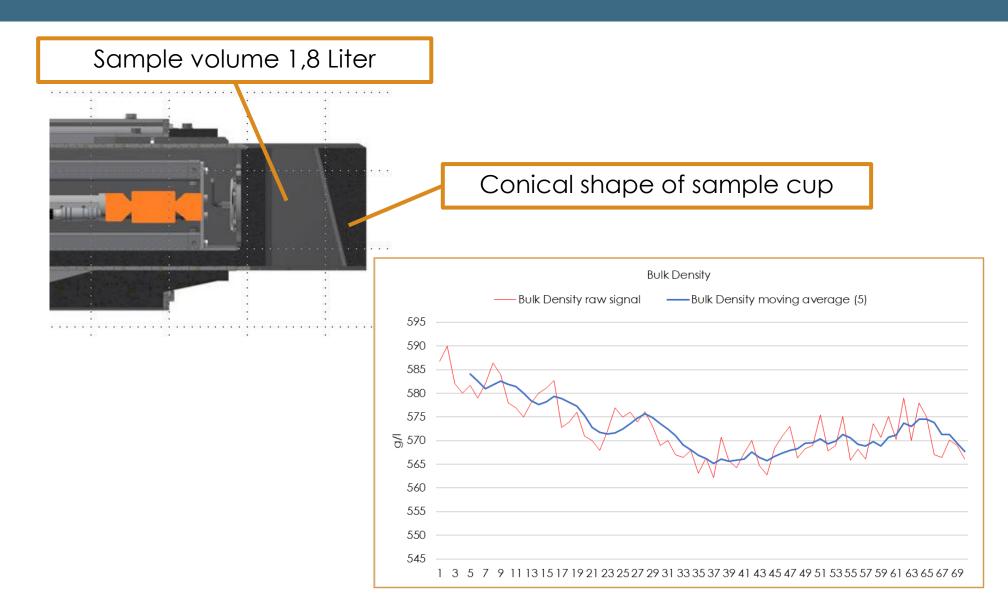
The Bulk Density System provides frequent inline sampling and analysis of the bulk density as well as moisture index (option) and visual product inspection (option). A very high measuring accuracy for all type of pellets ensures superior control of essential process equipment such as for example extruders and dryers. By frequent analysing the pellet quality, problems in terms of over or under filled bags, mouth feel, starch gelatinization, bacteria growth and fat absorption are minimized.

SOURCE TECHNOLOGY

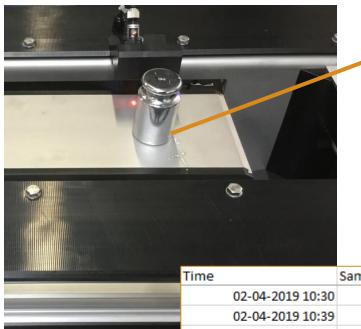
BDSTM BULK DENSITY SYSTEM – WHERE TO MEASURE



BDSTM BULK DENSITY MEASUREMENT



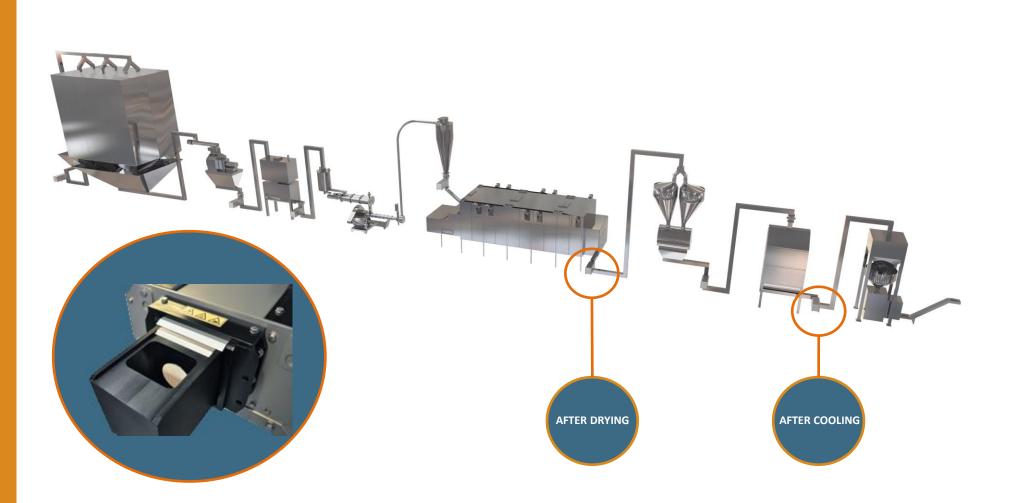
BDSTM BULK DENSITY MEASUREMENT



1kg load is used for test of weighing accuracy

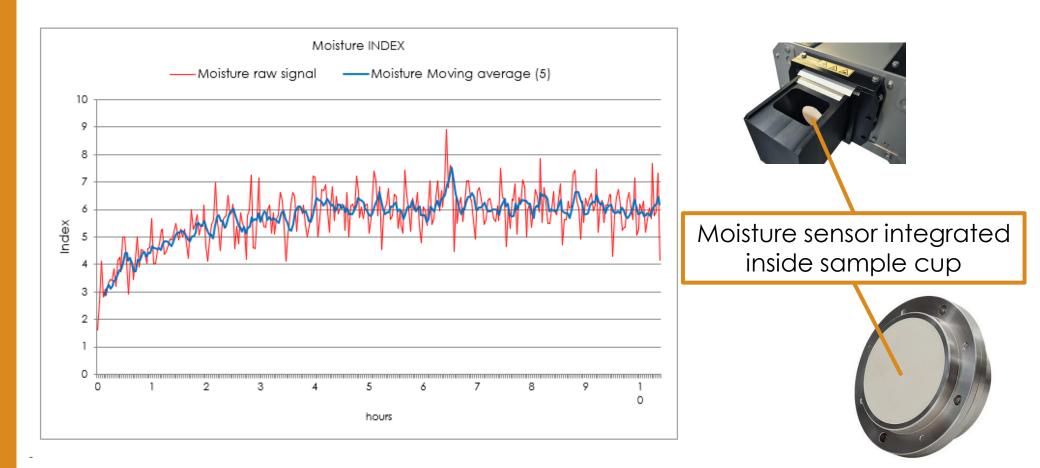
Time	SampleId	ProductCode	ProductName	DensityGroup	MoistureGroup	Filling	Weight	Density
 02-04-2019 10:30	0	0		0	0	0	0	0
02-04-2019 10:39	1	0		0	0	100	1002	541
02-04-2019 10:40	2	0		0	0	100	1000	540
02-04-2019 10:41	3	0		0	0	100	1000	540
02-04-2019 10:42	4	0		0	0	100	1000	540
02-04-2019 10:42	5	0		0	0	100	1001	541
02-04-2019 10:43	6	0		0	0	100	1000	541
02-04-2019 10:44	7	0		0	0	100	1004	544
02-04-2019 10:44	8	0		0	0	100	1000	540
02-04-2019 10:45	9	0		0	0	100	999	540
02-04-2019 10:49	10	0		0	0	100	1002	541

BDSTM MOISTURE INDEX AND BULK DENSITY MEASUREMENT

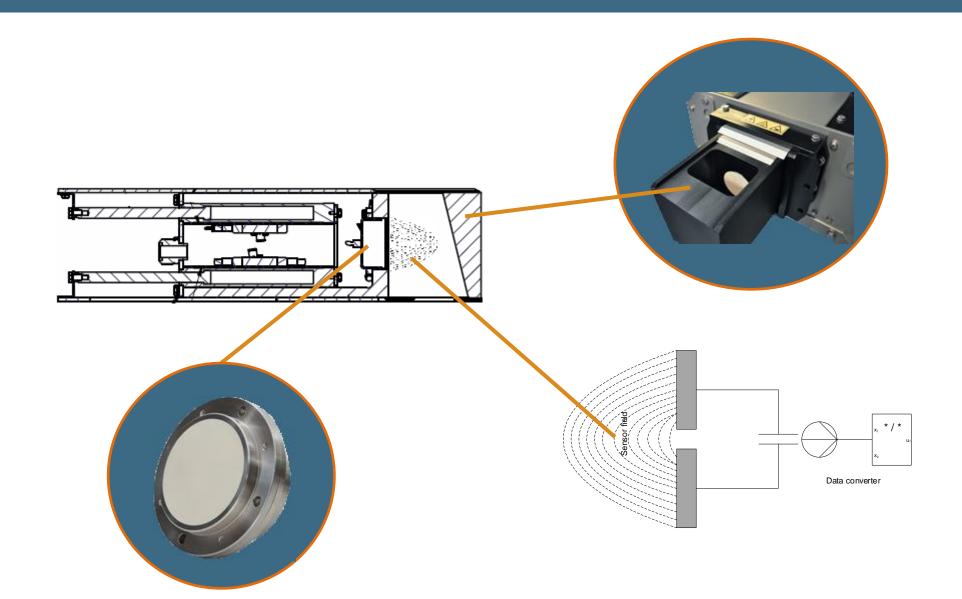


SOURCE TECHNOLOGY

BDSTM MOISTURE INDEX AND BULK DENSITY MEASUREMENT



BDSTM MOISTURE MEASUREMENT PRINCIP



Difference:

1.76

1.79

1.85

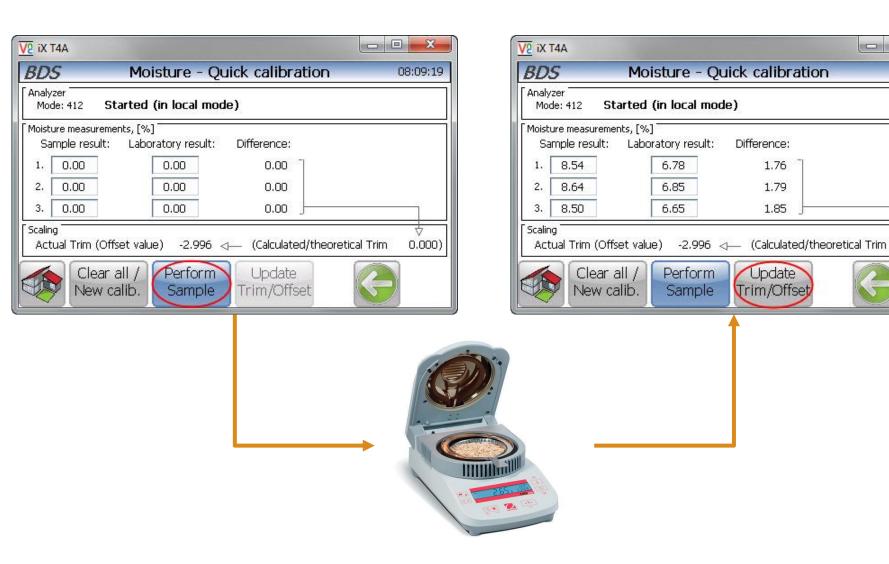
Update

Trim/Offset

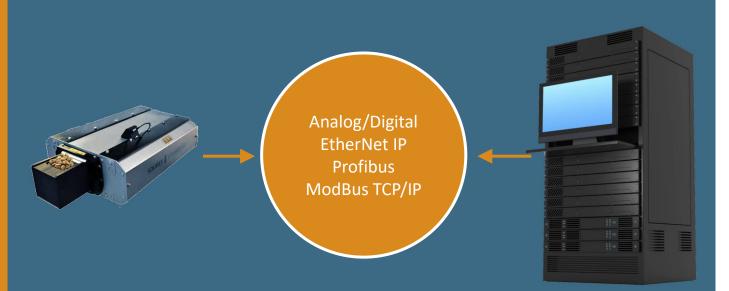
10:00:27

-4.796)

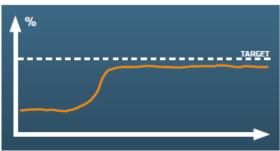
BDSTM MOISTURE QUICK CALIBRATION



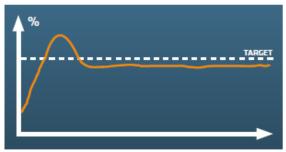
BDSTM BULK DENSITY SYSTEM INTERFACE TO CUSTOMER CONTROL SYSTEM



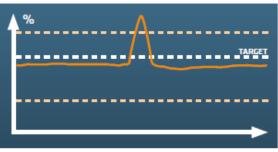
REDUCE GIVE-AWAY



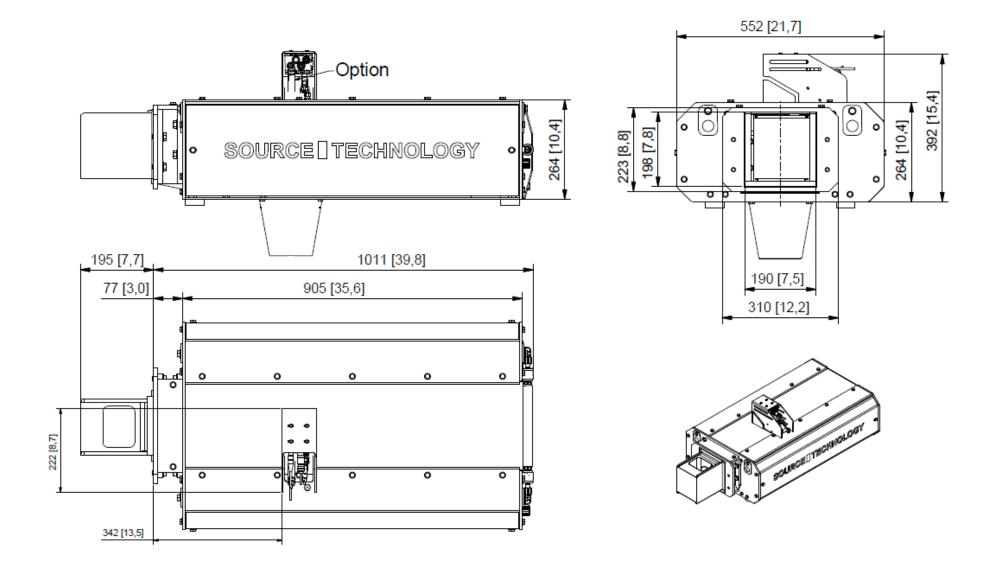
IMPROVE START-UP PROCEDURE



ALARM WHEN OUT OF SPECIFICATIONS



BDSTM BULK DENSITY SYSTEM – DIMENSIONS

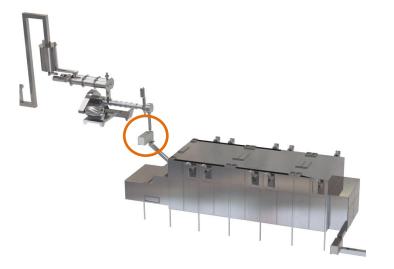


SOURCE TECHNOLOGY

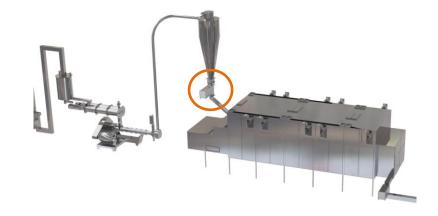
Challenges

Installation of equipment

Risk of flash-off steam will damage the sampling equipment



Sampling after pneumatic transport ensures flash-off steam has been removed



SOURCE TECHNOLOGY

BDSTM BULK DENSITY SYSTEM ON YOU-TUBE



CLICK HERE TO WATCH VIDEO ON YOU-TUBE

