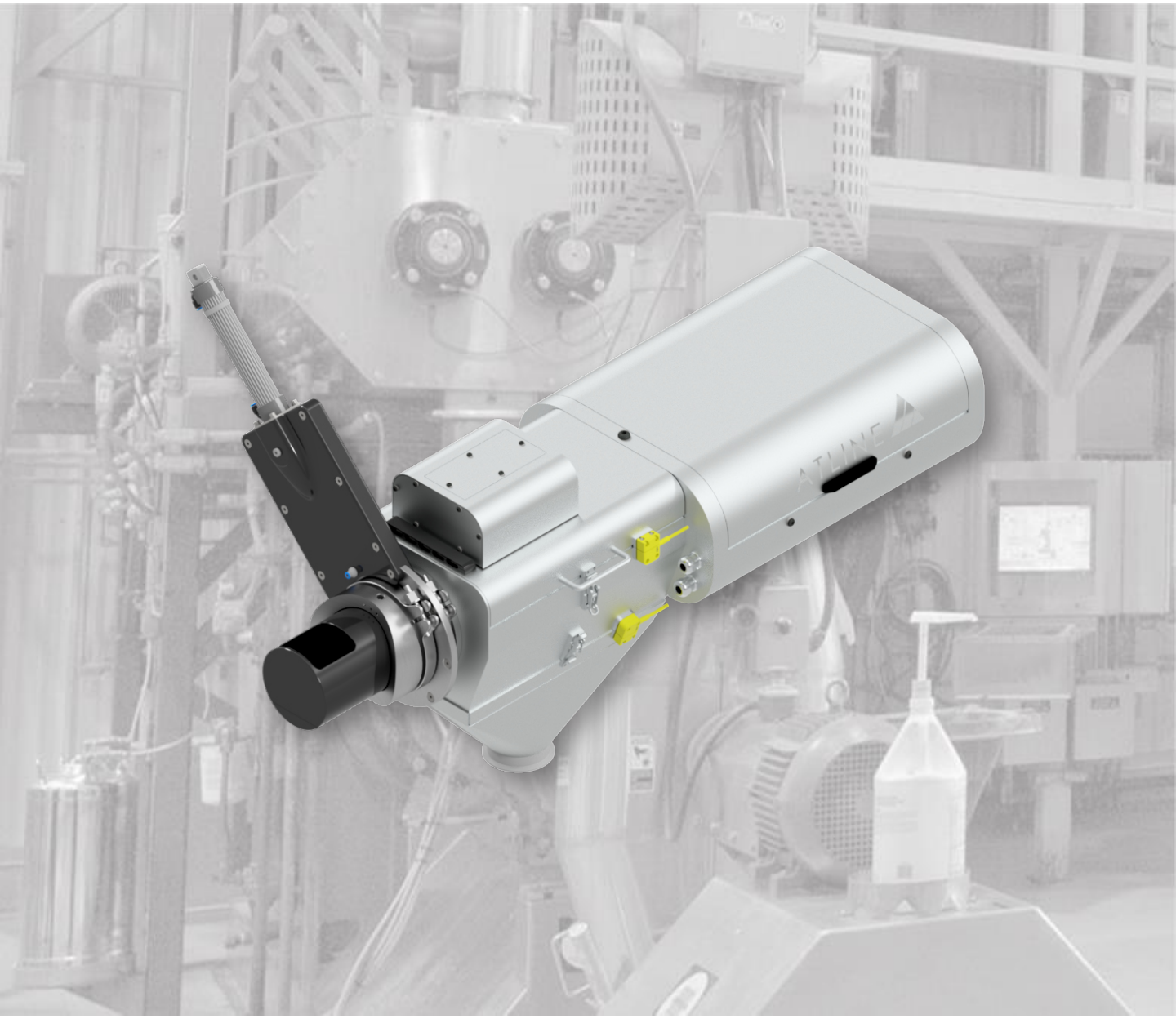
INLINE BULK DENSITY ANALYSIS

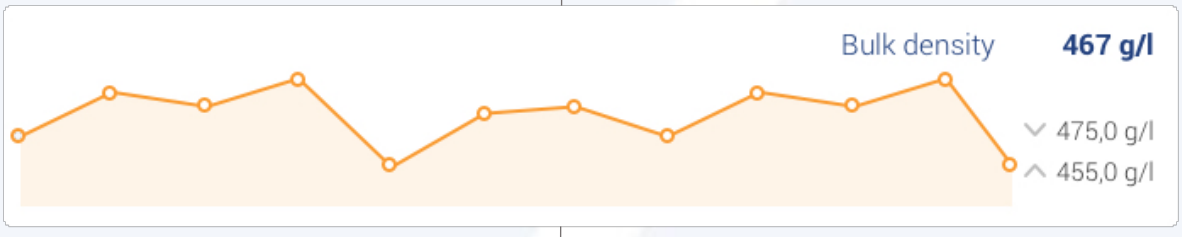
DensityMaster™



ATLINE

AUTOMATIC
BULK DENSITY CONTROL

The DensityMaster™ controls the set-point bulk density value and triggers an alarm if lower or higher



REPEATABILITY ACCURACY

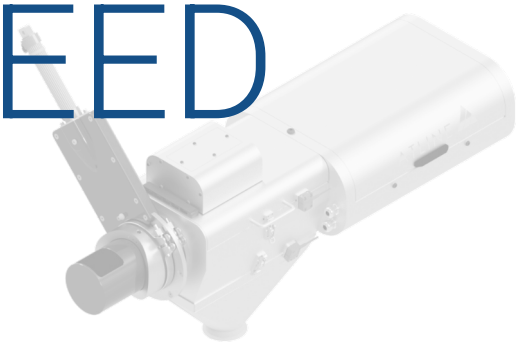
PET FOOD

Example
Dog food kibble
Accuracy±4.0 g/l

Sample no.	Bulk density analyser g/l	Reference g/l
1	461	463
2	455	466
3	456	455
4	456	459
5	461	459
6	460	463
7	460	467
8	456	467
9	457	465
10	457	462
Standard deviation	2.21	3.74

REPEATABILITY ACCURACY

AQUATIC FEED

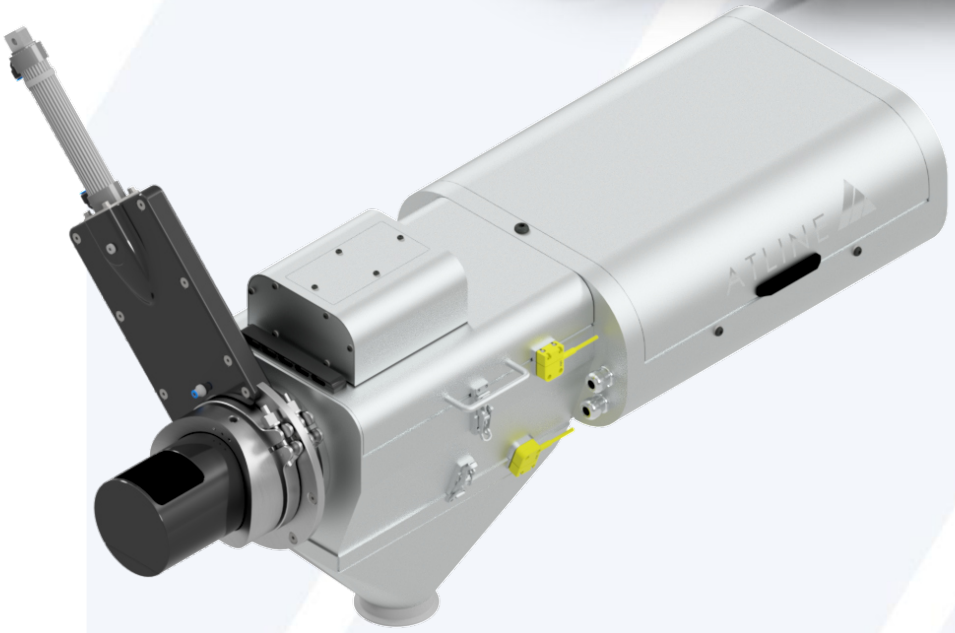


Example
High energy salmon feed
Accuracy±3.5 g/l

Sample no.	Bulk density analyser g/l	Reference g/l
1	657	662
2	659	654
3	656	655
4	655	654
5	659	661
6	654	660
7	658	658
8	656	654
9	657	653
10	656	659
Standard deviation	1.92	3.19

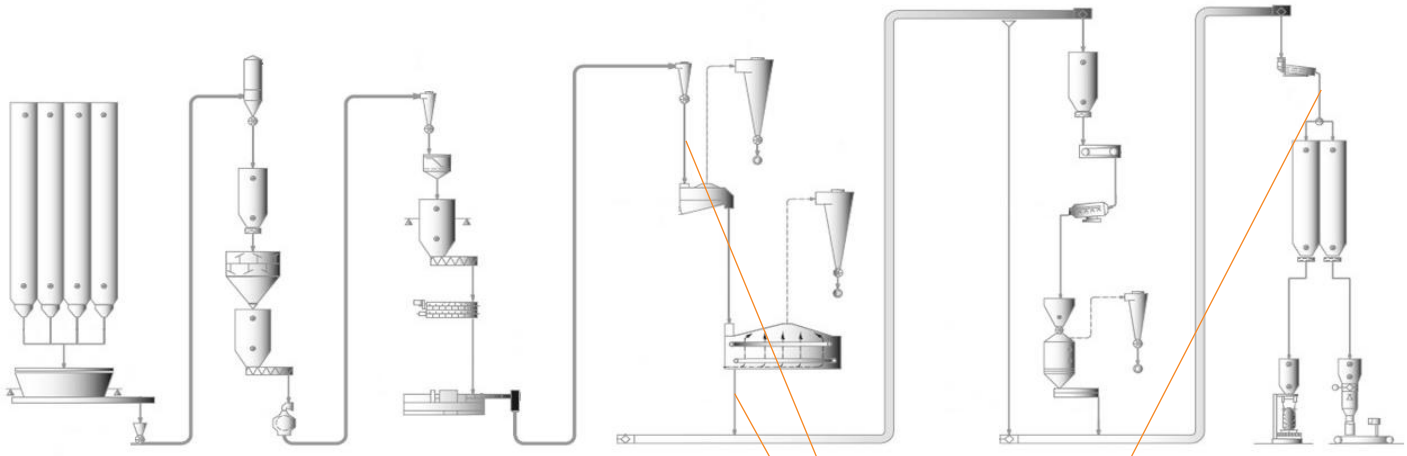
MINIMISE PRODUCT BREAKAGE
AIR KNIFE TECHNOLOGY

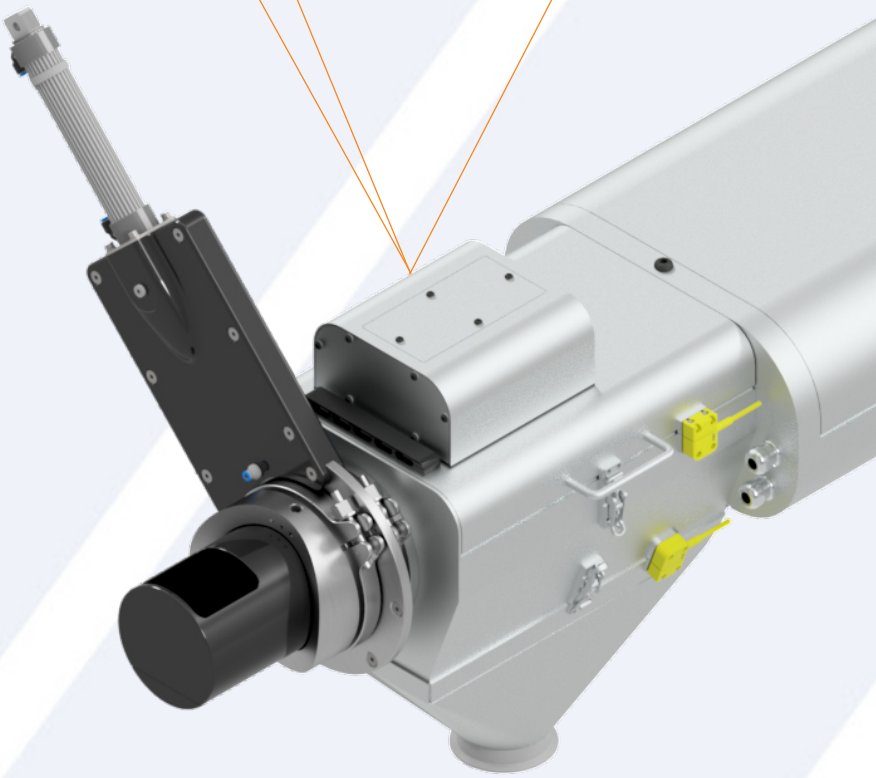
Patented non-product breakage technology



WHERE
TO ANALYSE IN THE PROCESS

Install the bulk density analyser after each process step where actual bulk density value can have an influence on the final product quality



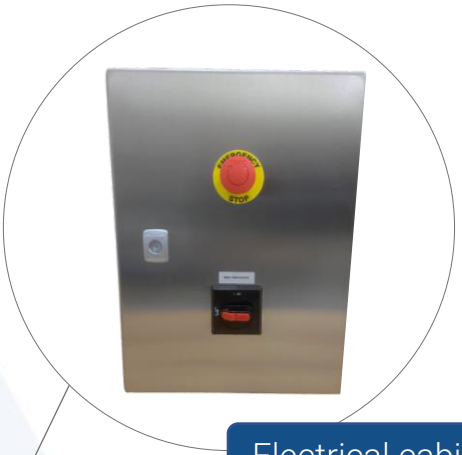


- Post-extrusion
- Post-drying
- Post-cooling

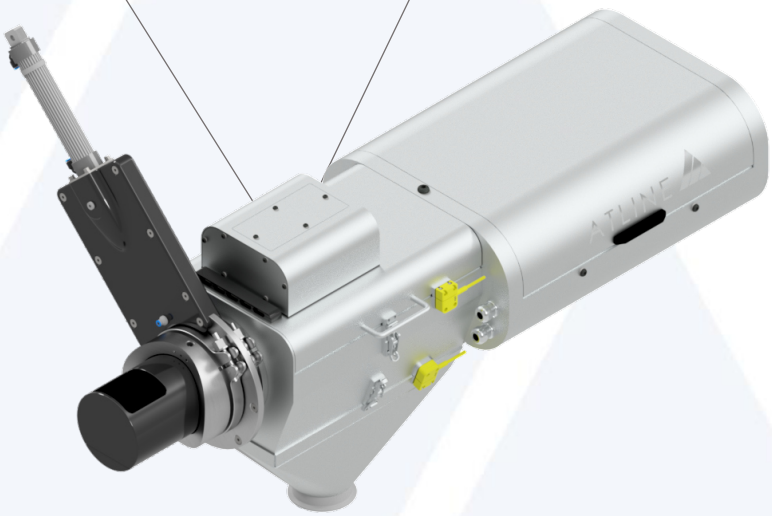
PLUG-AND-PLAY

INSTALLATION

HMI



Electrical cabinet

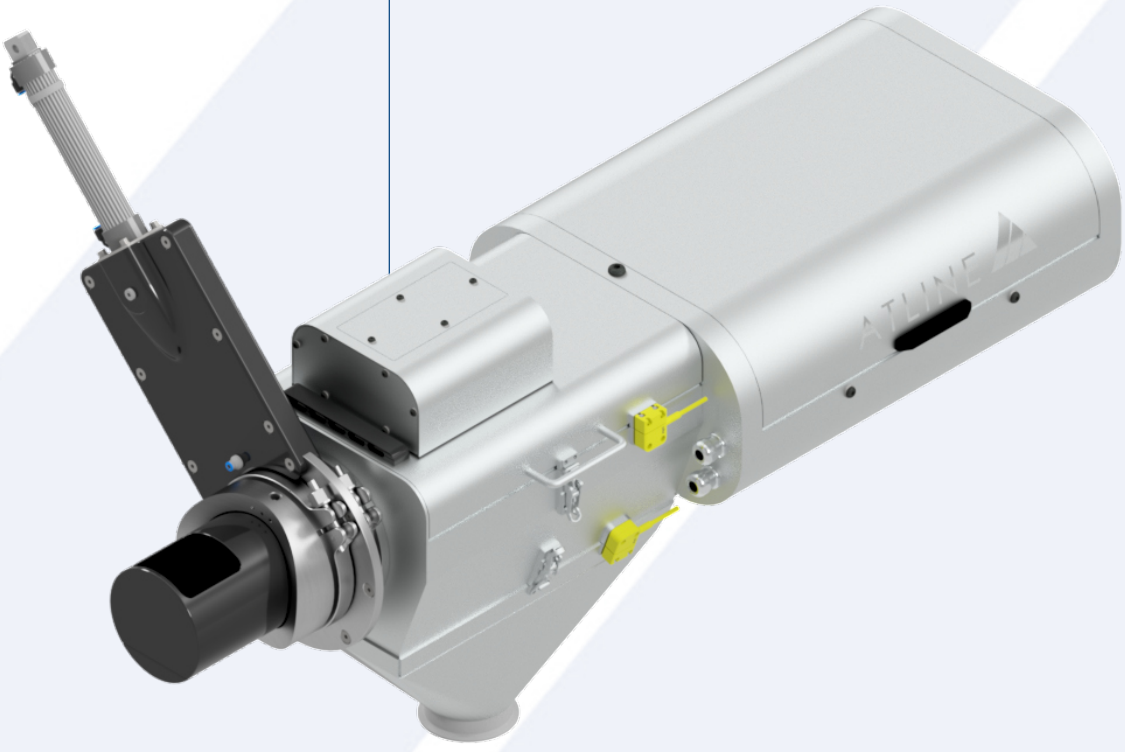


FEATURES
AT A GLANCE

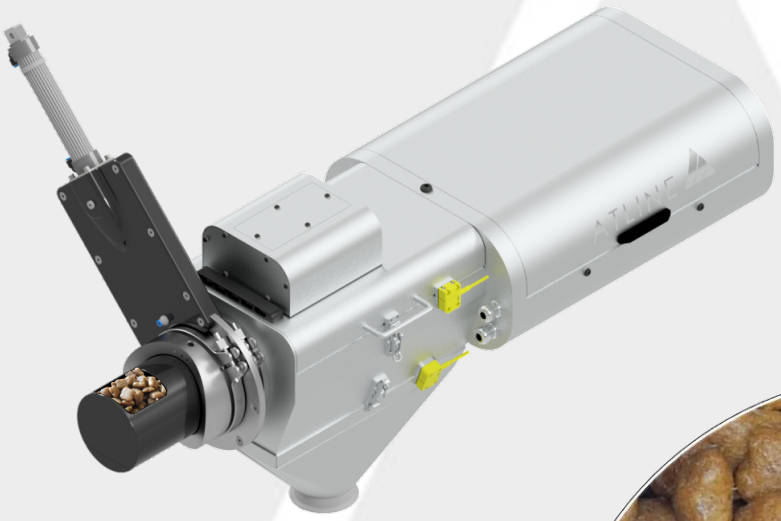
Cup filling sensor

Temperature

Colour HD camera

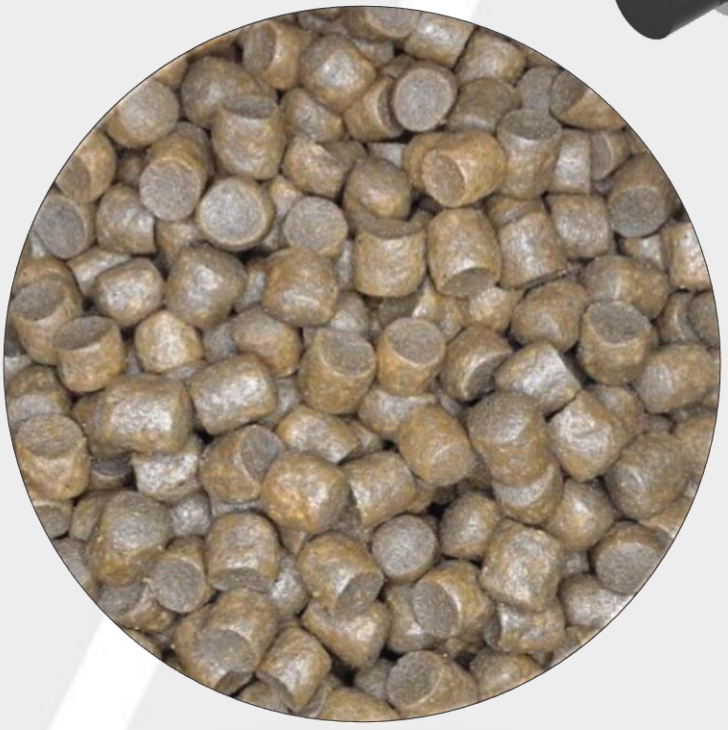


LIVE
IMAGE DURING MANUFACTURING



An image of the product is taken and communicated to the operator during each wet & dry bulk density analysis

GLOSS ANALYSIS (OIL ABSORPTION) DURING MANUFACTURING



Oil absorption is analysed during manufacturing. The control system will generate an alarm in the event of high oil concentration on the product surface

IMPROVE
EXTRUDER PERFORMANCE

Improve extruder performance

Control shrinkage during drying

Check product prior to packing

CONTINOUS

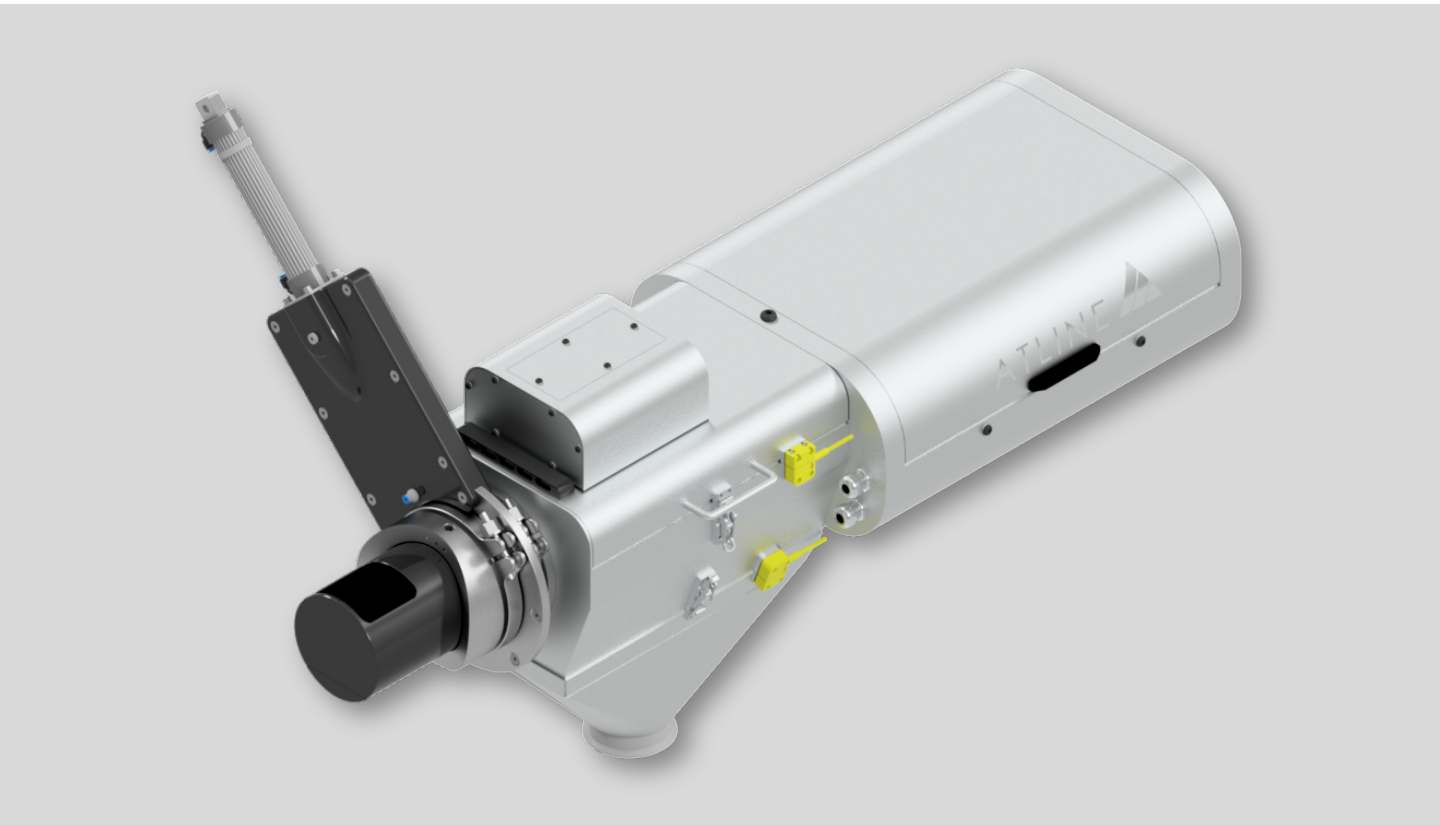
BULK DENSITY OVERVIEW

The process operators can follow actual bulk density from the control room. An alarm is triggered if the minimum or maximum bulk density limits are exceeded

SAVINGS

REDUCE OPERATING COSTS

TECHNICAL SPECIFICATIONS



Dimensions (L x W x H):	1232 x 480 x 611 mm (49’ x 19’ x 24’)
Weight:	90 kg (198 lbs.)
Ambient temperature:	<45° (113°F)
Compressed air:	5-8 bar (73-116 PSI)
Data connection:	Ethernet 10/100
Voltage supply:	1 x 110-230 Volt, 50-60Hz

ATLINE

THE PRODUCTS

We offer

CheckMaster™ SINGLE
NIR

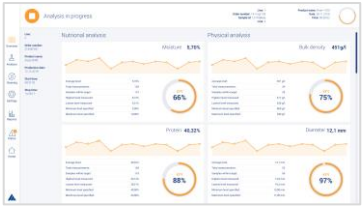
CheckMaster™ SINGLE
Physical analysis

CheckMaster™ TWIN
NIR & Physical analysis

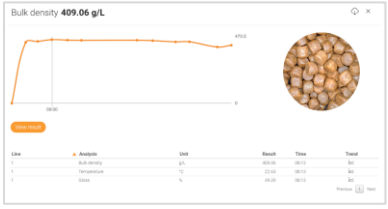
PackMaster™
Packing & labelling of product samples

ReferenceMaster™
Sampling & collection of product

Atlytics™ Basic
QA software



Atlytics™ Advanced
QA software



Atlytics™ Inline
Inline QA software

ProductMaster™
Inline product sampling

SampleMaster™
Inline product sampling & analysis

DensityMaster™
Inline bulk density analysis

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