



BoMill InSight™

GRAIN QUALITY SORTING



THE NEXT GENERATION
OF GRAIN SORTING



The next generation of grain sorting

Using NIR-T technology, BoMill InSight™ looks inside every kernel in a batch of grain to accurately sort into quality fractions, at industrial speed - up to 15 metric tons/hour.

Its revolutionary modular design makes BoMill InSight™ a versatile equipment to suit different sorting applications and setups, while offering cost effective installation and operation.

APPLICATIONS

- Segregate grain batches into quality fractions based on inner properties such as protein level, to optimize your grain supply and address different needs
- Produce homogeneous batches of grain to improve process efficiency and strengthen quality assurance



With a flexible sorting capacity up to 15 tons/h (equivalent to 125 000 kernels analyzed and sorted per second), BoMill InSight™ addresses the sorting needs of all types of grain processors where inner quality parameters such as protein level, are of interest for process and supply chain optimization.

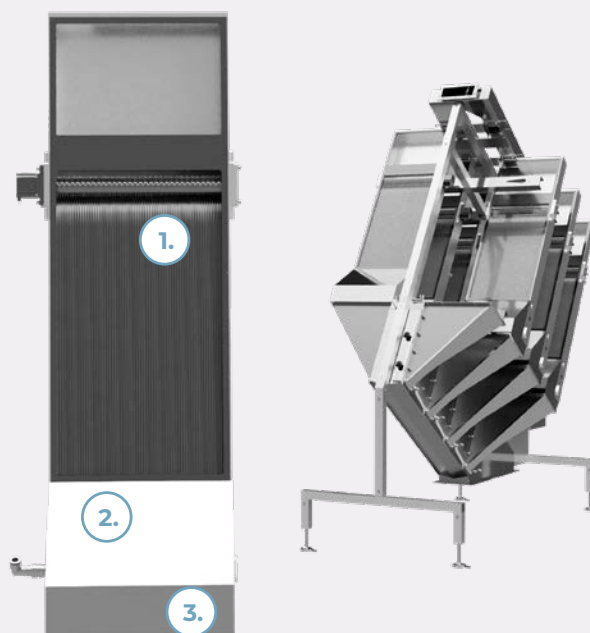
Key features

INTELLIGENT SORTING UNIT

BoMill InSight™ is based on a modular design consisting of a frame that fits from 1 to 8 sorting units. Every sorting unit includes the intelligent part of the equipment composed of the three main functionalities of BoMill technology:

- 1. ACCURATE POSITIONING**
Individual kernels are accurately positioned and controlled all the way towards the ejection point through a chute composed of 64 channels
- 2. FAST DETECTION**
The inner quality of each individual kernel is assessed by analysis of the NIR light coming through it (NIR in transmission mode).
 - Compact and robust NIR light and NIR-T sensor beams.
 - In-house designed high-speed electronics and NIR detection system with fast data generation and processing capability
- 3. PRECISE EJECTION**
The data is processed, and individual kernels are sorted into one of two quality fractions, either by passing through the machine or by being individually ejected with compressed air into a second sorting fraction.

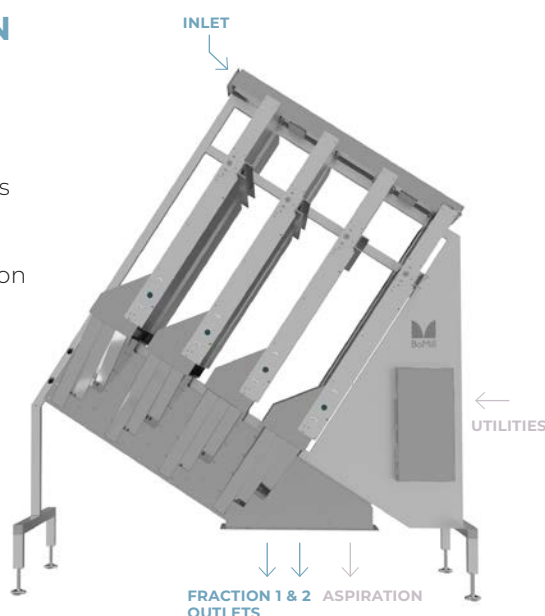
Each sorting unit works independently from the others and can be easily replaced for maintenance, preserving customers' uptime. This setup also offers upgradability to customers willing to increase capacity in the future, by simply adding new sorting units to the frame.



SMART FRAME DESIGN

The revolutionary design of BoMill InSight™ structure, featuring centralized inlet and outlet manifolds and an innovative stacking of the sorting units allows a compact footprint even at high capacity. It also reduces the space required for spouting in comparison to traditional sorting equipment. The equipment can easily fit in the workflows of new or existing production lines.

The light and sturdy frame is easily assembled at site for simple and fast installation in an already existing grain processing plant.



INDEPENDENT CONTROL PANEL

To suit different conditions of operations and installation, the control of BoMill InSight™ is carried out via a separate control panel including an easy-to-use touchscreen operator interface.

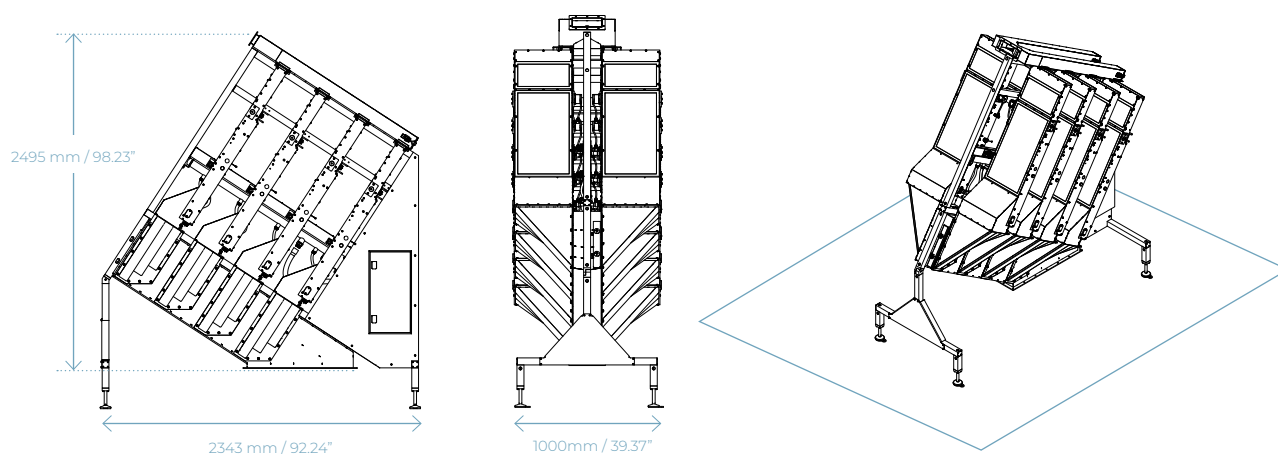


Technical data

SPECIFICATIONS

Raw material (Pre-cleaning and grading required)	Barley, Wheat	
Sorting parameters	Protein (DON and vitreousness – upon request)	
Sorting units	From 1 to 8	
Sorting capacity (depending on raw material)	Approx. 2 mt/h (one unit) up to 15 mt/h (eight units)	
Quality fractions	2	
Detector	BoMill NIR-T Detection system	
Operating conditions	Non-condensing environment (ATEX upon request)	
Operating temperature	5-35°C	41-95°F
Power supply	3/PE AC 50-60Hz 200-480V	
Power consumption (incl. compressed air, electricity)*	0.90 kwh/t	
Required air quality	ISO 8753-1:2010	
Air pressure	4 bar	58 psi
Compressed air consumption*	1900 l/min	67 CFM
Aspiration (minimum flow for 8 sorting units)	10m ³ /min	350 CFM

* Estimated figures for a fully equipped machine with 8 sorting units, based on 20% ejection rate - depending on raw material quality and sorting settings



Length of legs: customer specific (depending on installation)
Weight: 750kg/1653lb for model with 8 sorting units

Required service area: 1m / 39.37\"/>

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BRING
HOMOGENEITY



CONTROL
PROTEIN CONTENT



REMOVE
FUSARIUM



INCREASE
VITREOUSNESS



CONTROL GRAIN
QUALITY

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