

# IQ GRAIN QUALITY SORTER 1002

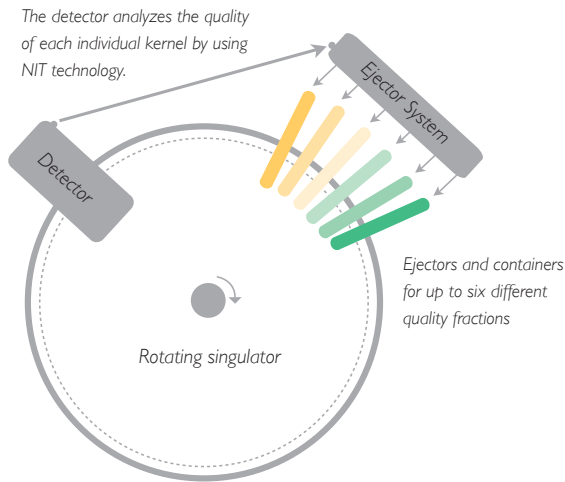
BoMill's patented grain quality sorting technology makes it possible to identify, analyze and sort each individual kernel in a batch of grain. The IQ grain quality sorter is a laboratory machine with the capacity to analyze each kernel using NIT and sort them in accordance with their chemical composition. The capacity of the IQ grain quality sorter is 1000 kernels/min. Durum wheat, wheat, and barley are the standard crops and each crop has its specific singulator.



## APPLICATIONS

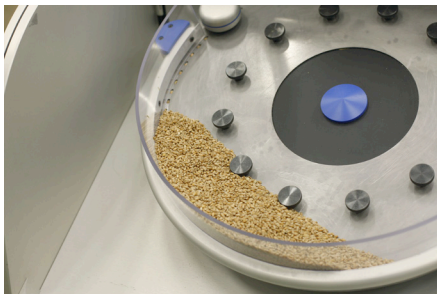
The IQ grain quality sorter can be used by plant breeders when looking for specific traits as protein, hardness, starch etc. It can also be used for improving the seed by sorting out diseased or infested kernels in order to have a sound and healthy lot of seeds used for propagation or official tests. The IQ grain quality sorter is ideal for the grain research lab or a product development lab in a flour mill or malt house, where it in an easy and small scale way can verify the possibilities when doing a large scale sorting with the TriQ quality sorting technology.

# FUNCTIONALITY OF THE IQ GRAIN QUALITY SORTER

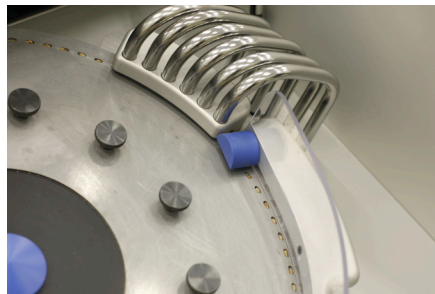


## The applications available today include:

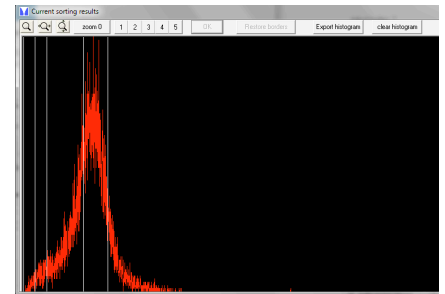
- Remove fusarium affected kernels
- Sort according to vitreousness
- Sort according to protein into fractions of high and low protein kernels
- Generate more homogeneous malting barley for optimum malting characteristics



Singulation and measuring of kernels.



Pipes for ejection of the kernels into the sorted fractions.



Screenshot from the IQ software showing the distribution of quality in a typical grain sample.

## SPECIFICATIONS

- **Electrical power supply:** 110 / 230V
- **Internet / Ethernet connection to control PC,** (not included)
- **Dimensions (height x width x depth):** approx. 1220 x 860 x 620 mm, 4' 0"1132 x 2' 9"55164 x 2' 0"13132
- **Weight:** approx. 150 kg
- **Diameter of singulator:** 550 mm
- **Number of sorting channels:** 1
- **Sorting capacity:** approx. 1000 kernels per minute, based on barley and wheat
- **Number of sorted quality fractions:** 6
- **Detector:** TriQ NIT detector

## AIR SUPPLY

- **High-pressure air quality based on the standard:** ISO 8573-1
- **Maximum particle size:** class 5: 40 microns
- **Maximum particle density:** class 5: 10 mg/m<sup>3</sup>
- **Maximum dew point:** class 3: -20 deg Celsius
- **Maximum oil concentration:** class 3: 1 mg/m<sup>3</sup>
- **Operating pressure:** 6 bar
- **Consumption:** approx. 30 l/min
- **Operating conditions:** indoor climate 0-35 deg Celsius, normal humidity

NOTE! All specifications on this sheet may be subject to change without prior notice.



BOMILL AB • KRAFTSTORG 10B  
SE-223 50 LUND • SWEDEN  
INFO@BOMILL.COM