



## NIR Multi Online Analyzer MYRG

Online quality measurement in corn processing

### Real-time quality analysis

The NIR Multi Online Analyzer MYRG allows real-time analysis of raw material and end products at various measuring points. With the latest Bühler NIR technology, one spectrometer evaluates up to 6 different measuring points.

### Multiple measuring points

The sensors can be placed at various points in the corn mill. For raw material control, sensors are positioned after pre-cleaning to measure moisture, crude fat and protein content, and thus to ensure optimal storage and high overall quality. At the other end of the process, the sensors monitor the parameters of the finished product like flaking grits or corn flour as it arrives in the hopper scale. The direct online control in the mill allows for immediate correction of settings in the process should parameters differ from specifications.

#### Benefits

- Analysis of various corn products like whole corn kernels, dry flakes, corn flour or flaking grits
- Consistent production with complete documentation and traceability
- Real-time analysis of raw material and end products at various measuring points
- Optimize your product quality and yield in real-time

**Increased efficiency with Multi NIR.**  
Online monitoring, from intake to end-product.



**Convincing calibrations and services**

Bühler’s newest generation of NIR spectrometers have been proven to achieve a remarkable level of accuracy. Comparison of the SEP values (Standard Error of Prediction) achieved by the NIR spectrometers with those from lab methods demonstrate that the system performs well in continuous production.

**Corn grits parameters**

	Range	SEP
Moisture	7 - 15 %	0.3 %
Protein*	5 - 14 %db	0.4 %
Crude fat	0.2 - 8 %db	0.3 %
Crude fiber*	0.2 - 5 %db	0.3 %
Starch*	25 - 80 %db	3 %

**Corn flour parameters**

	Range	SEP
Moisture	7 - 15 %db	0.3 %
Protein*	5 - 14 %db	0.3 %
Crude fat	0.2 - 16 %db	0.2 %
Crude fiber*	0.2 - 5 %db	0.3 %
Starch*	25 - 80 %db	3 %

\* These calibrations are included in the additional calibration package



Compact, flexible installation of the measurement sensors – for example directly on the gravity spouting



MYRG is distinguished by its durability and reliability. Only the measurement probe is located in the production environment