



Smart pelleting process control

PelletingPro is one of Bühler's latest innovations for the feed industry. This intelligent pelleting process control system allows for automatic control of the final pellet moisture, thereby increasing the yield of feed production by up to 1%. PelletingPro elevates the performance of pelleting to the next level by controlling the end moisture of the pellet with an accuracy of +/- 0.5 percentage points.

Features:



Accuracy: Stabilization and optimization of pellet moisture within +/- 0.5 percentage points of the defined target value.



Multi NIR inline system: The core of PelletingPro allows precise measurement of dry mash moisture in the batch mixer.



Transparency and control: The Bühler Insights Dashboard enables maximum transparency and continuous tracking of performance metrics.

Benefits:



Consistent product quality: PelletingPro ensures consistent quality regardless of raw materials and weather conditions.



Efficiency increase: Up to 20% increase in throughput due to consistently high moisture level and higher machine availability.



Energy savings: Up to 20% reduction in specific mechanical energy consumption.



Reduced operator intervention: Reduced efforts for operating personnel due to automatic control and stable production conditions.



Increased feed safety: Precise moisture control minimizes the risk of feed safety issues during storage.

Technical specifications

- Compatibility: PelletingPro works with all Bühler and non-Bühler pelleting lines and plant control systems.
- Plant Setup: Suitable for plants with a maximum of two batch mixing lines and a total of up to six pelleting lines.

Sustainability

PelletingPro helps reduce CO₂ emissions by lowering energy consumption and making more efficient use of raw materials. For a pelleting line with an annual throughput of 100,000 tonnes, up to 2,000 tonnes of CO₂e can be saved, which corresponds to the CO₂ absorption capacity of 100,000 trees per year.

Scope of the service

Multi NIR-inline system & sensor package

Smart pelleting process control

Moisture optimization algorithm

Bühler Insights gateway, Pelleting Essential & PelletingPro dashboards

Customer feedback



PelletingPro helps us control the final pellet moisture very accurately to +/- 0.5 percentage points. Thanks to the more constant production conditions, the availability and efficiency of the pelleting line are increased. With PelletingPro, we can increase throughput by up to 20% and reduce specific energy consumption across the entire pelleting line.

Reto Mösch,

Member of the Executive Board, Head of Production and Technology at UFA



ROI example:

Production: 100 000 tons per year @ 1% yield loss

Product value: \$400 per ton

PelletingPro yield increase: 1%

(Average benefit of reaching closer to target moisture and having consistently high moisture content)

Total benefit: \$320 000 per year

Productivity increase: up to +20% pelleting line throughput @ constant fix costs

(Benefit of operating pellet mill on a high moisture level)

Efficiency increase: up to -20% less specific mechanical energy consumption

(Benefit of operating pellet mill on a high moisture level)



Contact for more information about PelletingPro

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