
Uni Dry for pulses.
Quality in processing.
Innovations for a **better world.**
BÜHLER

Industrial drying of pulses.
Enhancing quality, efficiency, and yield.

Drying is one of the most critical steps in pulses processing and has a significant influence on the efficiency, yield and quality of the final product. With the Uni Dry dryer for pulses, moisture is removed from the surface in a far more efficient and hygienic way than with traditional sun drying. The need for manual labor is minimized, and homogenous drying of the product means it is then perfectly prepared for the hulling process.

The dryer is also used in splitting, leading to more natural splits with better shape and higher commercial value. Thanks to the Uni Dry's automated programmable logic controller (PLC), manual interventions are minimized.

Features

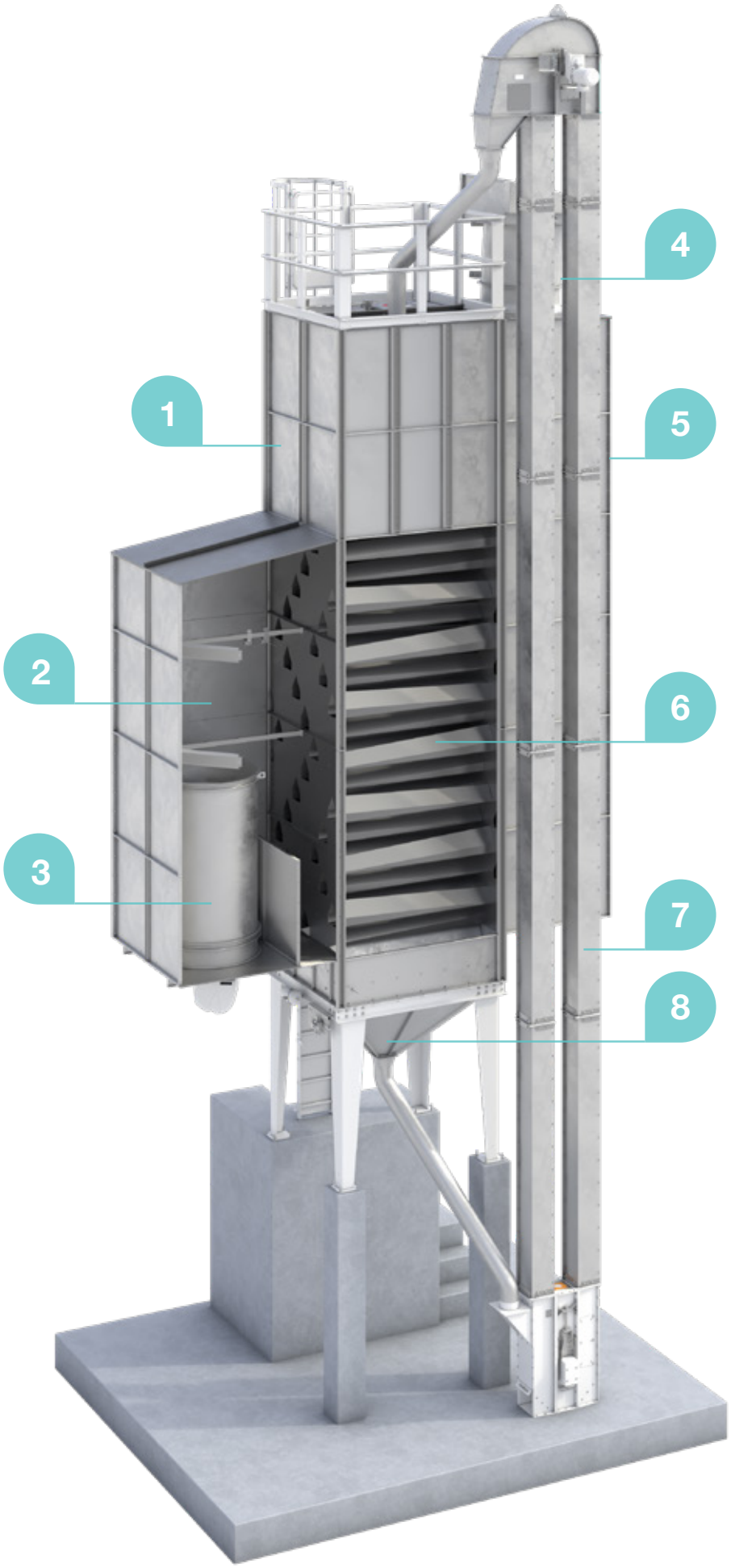
- Industrial drying
- Hygienic design
- Diagonal duct layout
- PLC-based dryer control
- Standalone HMI (Human Machine Interface)
- Built-in sensors and controllers for critical parameters like temperature

Advantages

- Minimized risk of product damage due to weather
- Clean and safe pulses process
- Reduced thermal stress
- Seamless, automated operation
- Intuitive dryer control
- Minimal effort and risk

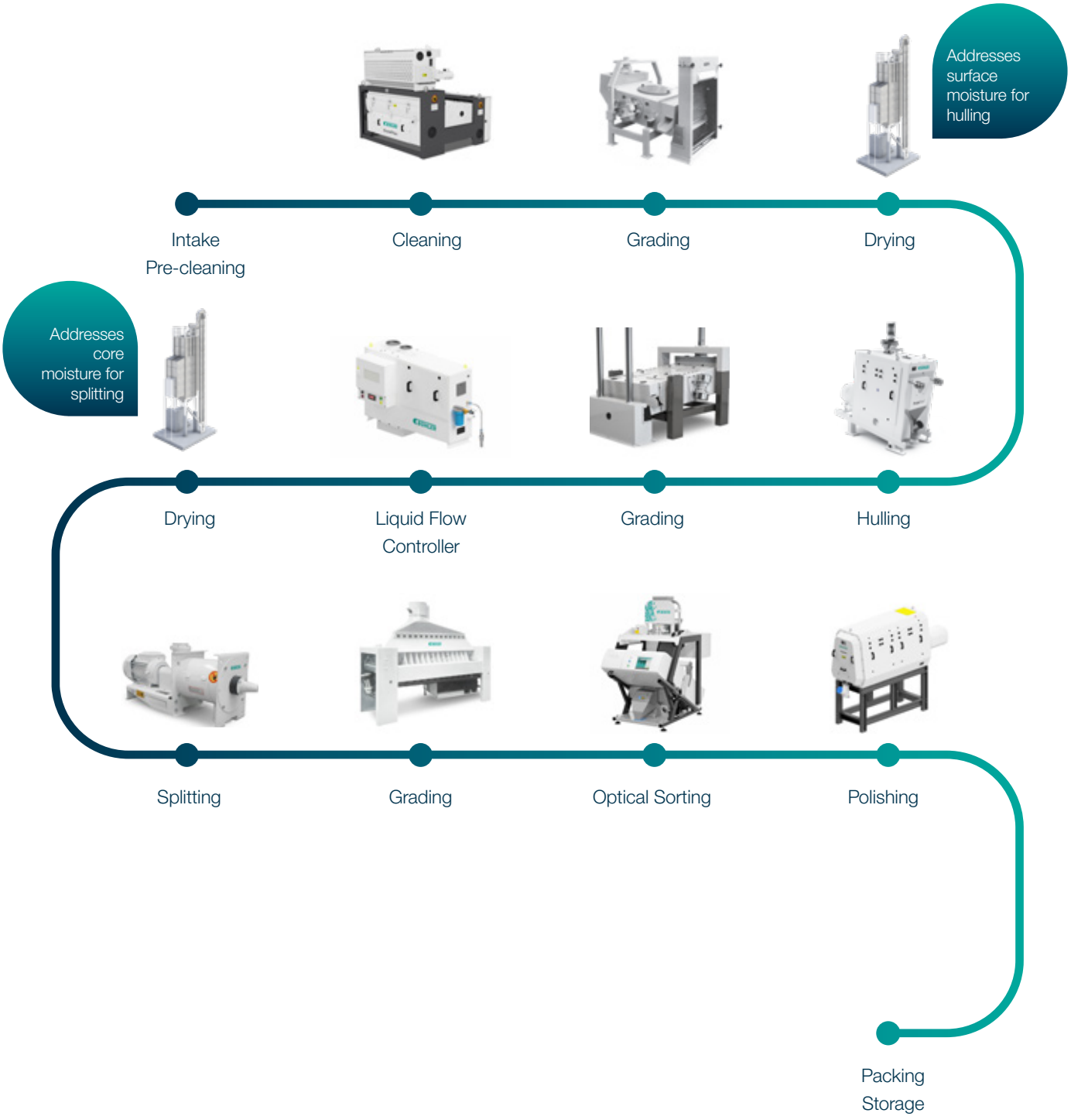
Benefits

- Higher sales yield and minimized risk
- Hygienic operation
- Natural splits / high commercial value
- Easy operation
- Low footprint

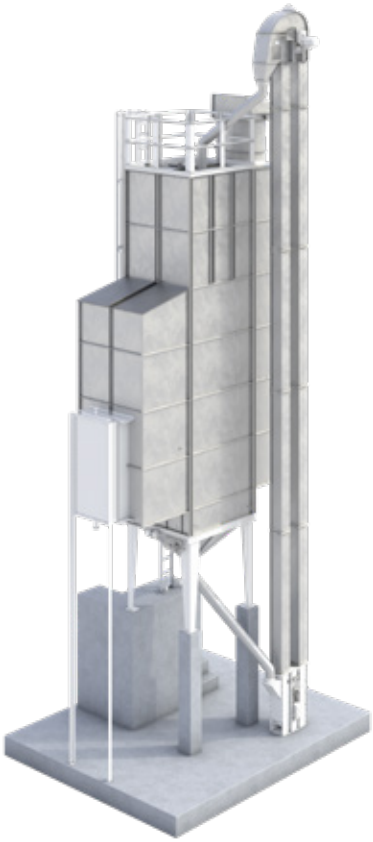


1. Pulse dryer
2. Inlet air hood
3. Burner
4. Axial fan
5. Exhaust air hood
6. Drying modules
7. Elevator
8. Discharge hopper

Drying within the pulses process.
Industrial drying for more value.



Industrial drying.
Moving beyond traditional sun drying.



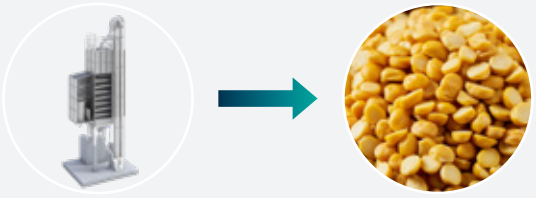
Industrial drying:
Optimal preparation for hulling

- Minimized spoilage risks, even under rainy conditions
- Consistently high drying quality, regardless of weather or other external factors
- Compact hygienic and efficient design
- Low labor effort thanks to automated processes
- Elimination of manual spreading process
- Small footprint

Uni Dry:
Creating value in the splitting process

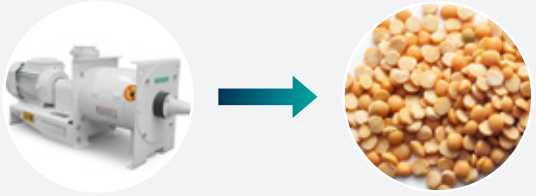
- High sales margin for processor
- Delivers 50-60% natural splits with better shape and high commercial value
- Reduced reprocessing cost
- Negligible amount of dust and brokens
- No large parcels of land needed, unlike with sun drying
- Less dependent on climatic and natural conditions

Pulse splitting with Uni Dry



Grade 1 dhal with sharp edges

Pulse splitting with impact mill



Grade 2 dhal with damaged edges

Technical specification.
Designed for reliable performance.

	Dryer Uni Dry LENA
Capacity*	12-15 t/batch
Structure	Galvanized steel body
Electrical specifications	3 phase; 415 V / 400 V
Burner options	Oil or gas burning furnaces with adjustable heating capacity, steam heat exchanger
Fuel type	Liquefied petroleum gas (LPG), natural gas, diesel, steam
Heating mode	Direct, indirect
Drying modules	4
Scope	Dryer assembly, burner, programmable logic controller
Drying rate**	0.7 – 1.2 % per hour
Initial MC	12 – 15 %
Final MC	9 – 11 %
Discharge system	Pneumatic controlled gates

* Capacity depends on the type of grain, specific gravity and moisture content.
** Drying rates specified above are for reference only. Actual data will depend on the ambient temperature, relative humidity, air temperature, type of grain, before and after drying.

Flexible options to suit your requirements.
Adaptable solutions for different fuels.

Gas

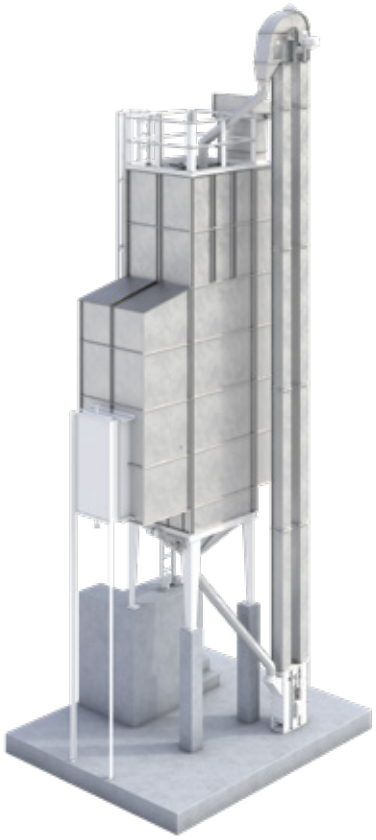
Fuel requirement: 20-25 kg/h LPG or 12 m^3/h PNG

Bühler scope: dryer, burner, control system

Diesel

Fuel requirement: 20-25 kg/h

Bühler scope: dryer, burner, control system



Steam

Fuel requirement: 700-1000 kg/h*

Bühler scope: dryer, heat exchanger, control system

* Estimation: Assumed steam pressure: 6 bar / fully saturated steam

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Uni Dry for pulses en 03/25 LS