





# Knoblingers World of Pelletizing



**CUBE**  
by  
KNOBLINGER

Comprehensive overview  
of Knoblinger's Pelletizing Solution



[www.knoblinger.com](http://www.knoblinger.com)





60+ pellet plants in operation    6+ million tons of installed annual capacity    25% market share in Europe

## Knoblinger's World of Pelletizing

### Holistic Pelletizing Solutions – from Production to Distribution

#### Pellet Production

#### Pellet Distribution

#### Input / Output Parameters



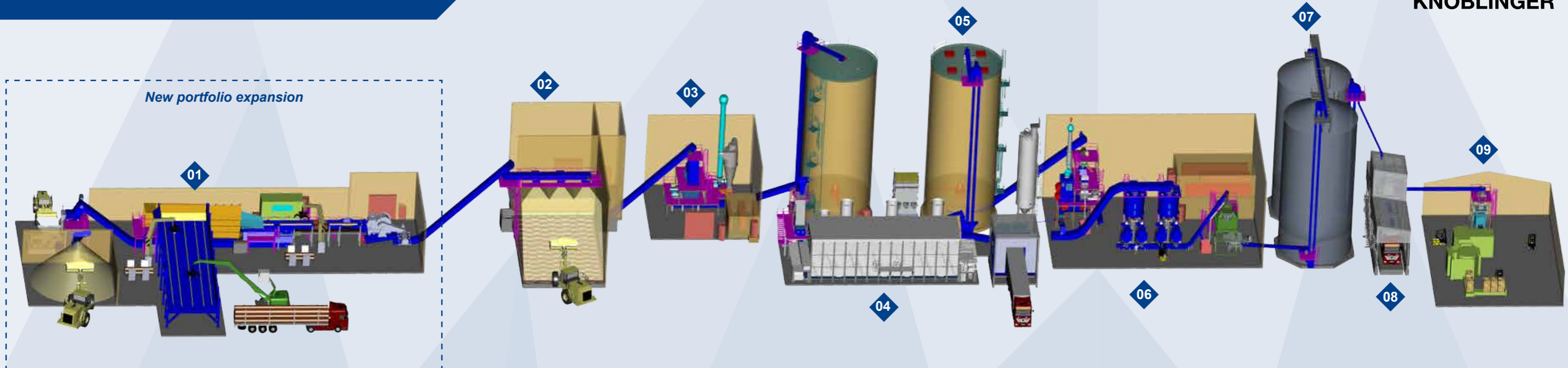
- Hardwood**
- Softwood**
- Other Biomass on request**
- 12% Humidity** without dryer
- 55% Humidity** with dryer
- A1 - A3 Commercial certification**
- I1 - I3 Industrial certification**



# 01 Large-Scale TURNKEY Plants



New portfolio expansion



Debarking & Chipping

Wood Chip Storage & Receiving Station (wet)

Grinding (wet)

Drying, Storage & Receiving Station (dry)

Pelletizing Unit

Pellet Storage

Loading & Bagging

## FACTS

Proven concept  
40+ in operation

Customizable  
10-50+ t/h

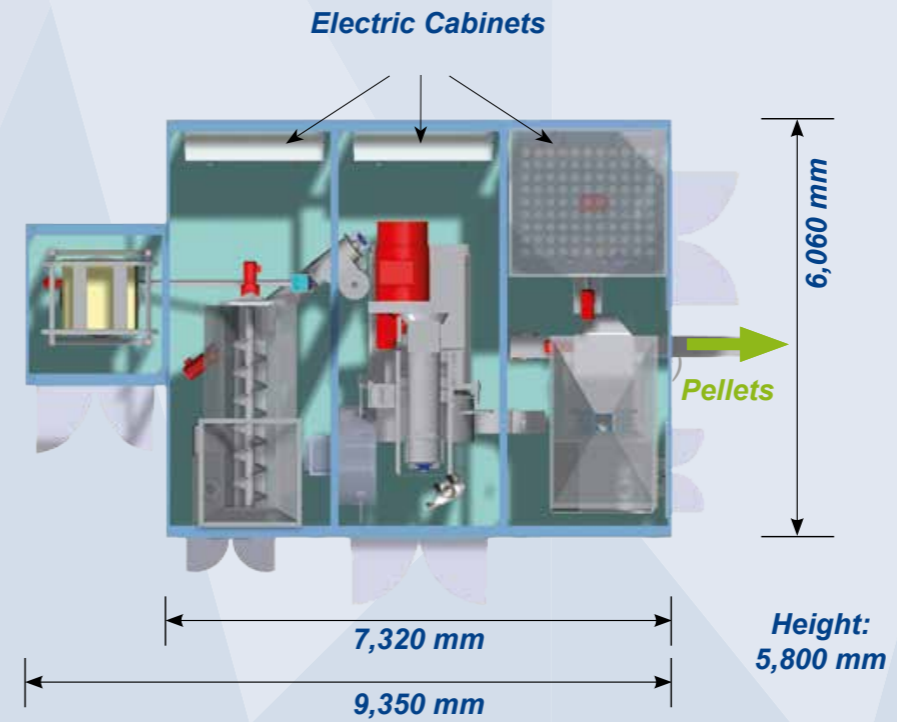
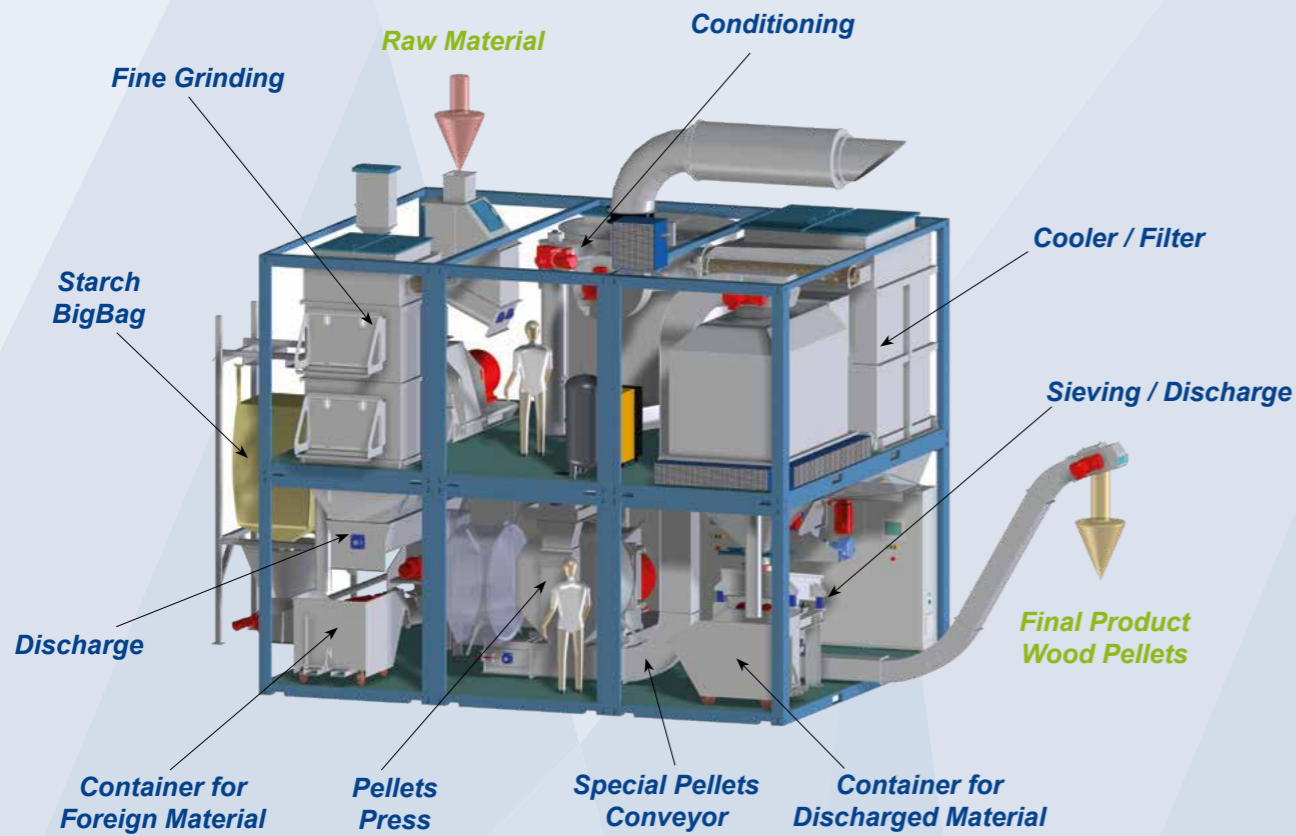
Wide range for  
input materials

## Your Benefit

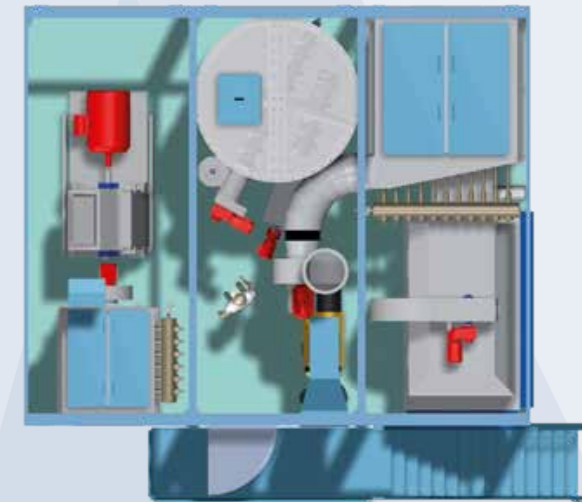
- Proven Concept** – 40+ plants in operation worldwide with proven long-term reliability
- High-Capacity Output** – 50+ t/h pellet production for industrial-scale demands
- Robustness & Safety First** – Built for 24/7 continuous operation with state-of-the-art fire and explosion protection, ensuring minimal downtime
- Material Loss Minimized** – Reduced waste via advanced metal detection and foreign-body separation
- End-to-End Solution** – Complete process chain coverage: consulting, engineering, manufacturing, installation, commissioning – all from one partner
- Greenfield & Brownfield Expertise** – for seamless integration into existing sites or build up at new greenfield projects
- Consistent Pellet Quality** – Stable density, durability and low fines across varying raw materials
- Scalable Design** – Modular expansion for growing capacity with minimal process interruption
- Custom Automation Solutions** – Long-standing Knoblinger software expertise ensures your competitive edge



# 02 PelletsCUBE



GROUND LEVEL



UPPER LEVEL

## FACTS

Proven concept 17+ in operation	Customizable 2 - 6 t/h	Footprint 6 EU-Container
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## Your Benefit

- Proven Concept** – 17+ plants in operation worldwide with proven long-term reliability
- Compact Footprint** – Minimal space requirements via pre-assembled 20-ft ISO container modules
- Plug-and-Play Installation** – Ready-to-operate in days: pre-wired, tested, and transport-optimized
- Flexible Site Integration** – Rapid setup for new or existing sites; ideal for medium-sized sawmills and wood processing operations
- Ideal Add-on for Existing Plants** – Seamless integration as capacity booster to existing production lines with minimal interface work
- Consistent Pellet Quality** – Stable density, length and low dust emissions via PelletsCALIBRATOR integration
- Turnkey from One Source** – Full engineering, assembly, and commissioning by Knoblinger experts
- Custom Software** – Bespoke software with availability for regular updates

## Our CUBE Models

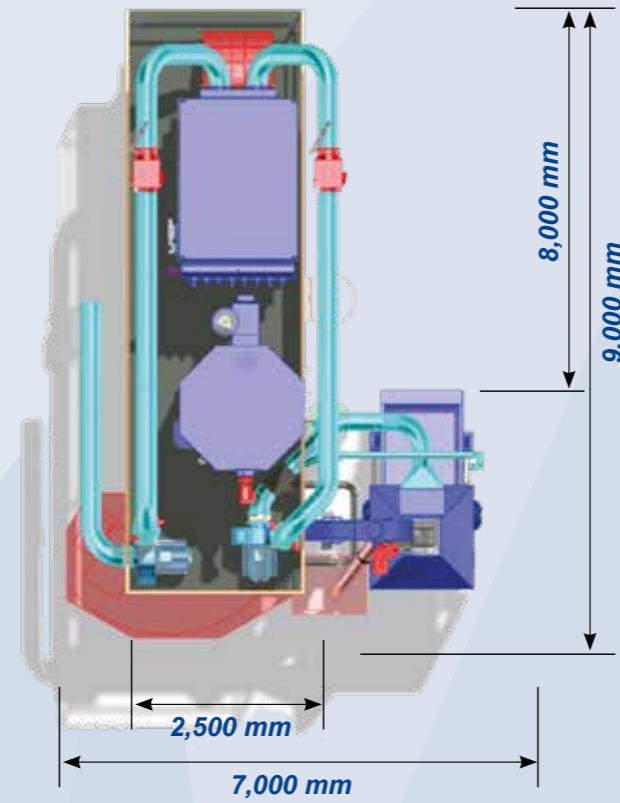
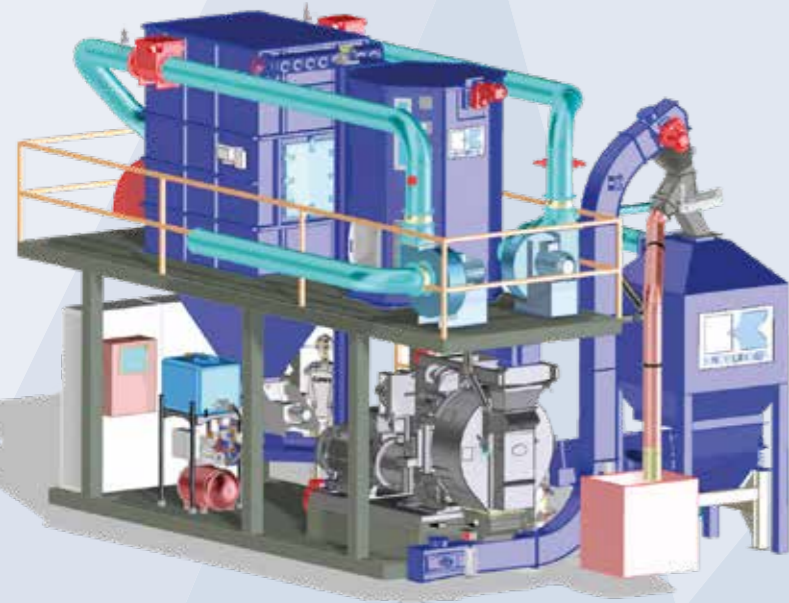
Type	M	L	XL	XL-S	XXL
Capacity Softwood [t/h]	2,5	4,0	5,0	4,0 - 5,0	6,0 - 7,0
Capacity Hardwood [t/h]	2,0	3,0	4,0	3,0 - 4,0	4,5 - 5,5
Electrical Connection [kW]	335	495	575	595	675
Footprint [m <sup>2</sup> ]	44,2	44,2	44,2	44,2	44,2



## FIRE PROTECTION

ATEX-ready now and NFPA-ready by 2027: explosion protection/prevention, simplified approval process with authorities

# 03 PelletizingMODULE



**FACTS** | Customizable 1 - 2 t/h | Footprint 2 EU-Container

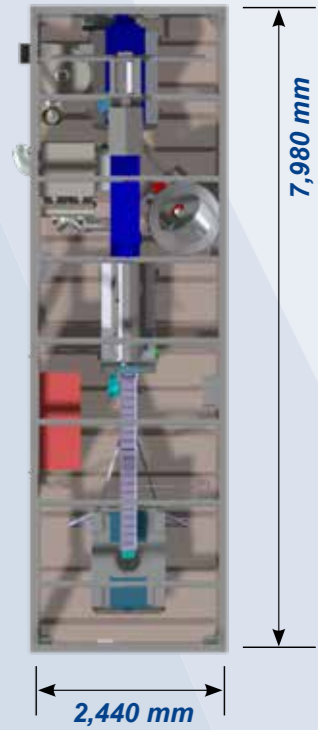
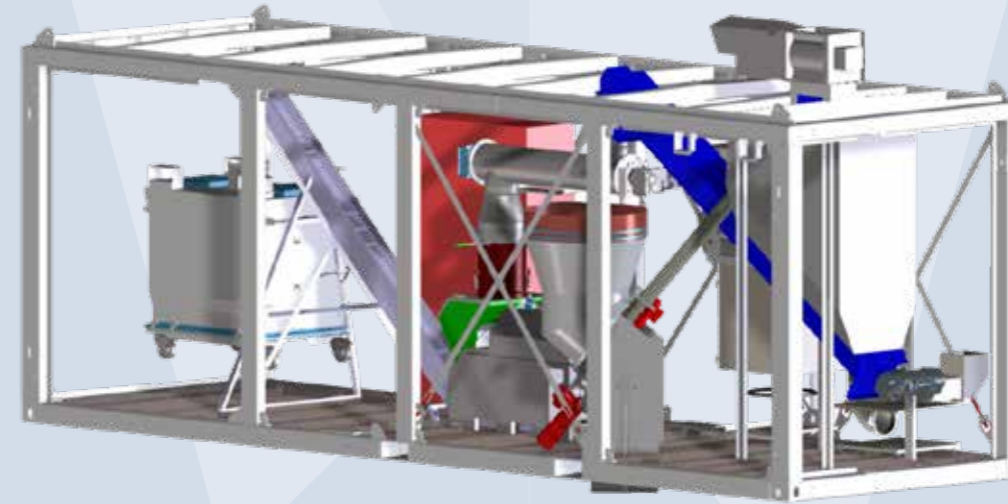
## Your Benefit

- Proven Concept** – Field-tested unit with robust Container frame for reliable long-term performance
- Energy Efficiency** – Optimized energy consumption through compact design and efficient components
- Material Loss Minimized** – Reduced waste via integrated foreign-body detection and gentle pellet handling
- Ideal Add-on** – Seamless integration for existing dry mill production lines with 1-2 t/h of residual waste material
- Consistent Quality** – Stable pellets from wood, bark or residuals via state-of-the-art press technology
- Compact Footprint** – Minimal space needs: fits into tight production areas without major modifications

## Our Models

Type	K1-1000	K1-2000
Capacity Softwood [t/h]	0,8 - 1,5	1,5 - 2,0
Capacity Hardwood [t/h]	0,8 - 1,0	1,5
Electrical Connection [kW]	152	195
Footprint [m²]	25	25

# 04 MICROpelletizing



Height: 2,780 mm

**FACTS** | Customizable 0,25 t/h | Footprint 1 EU-Container

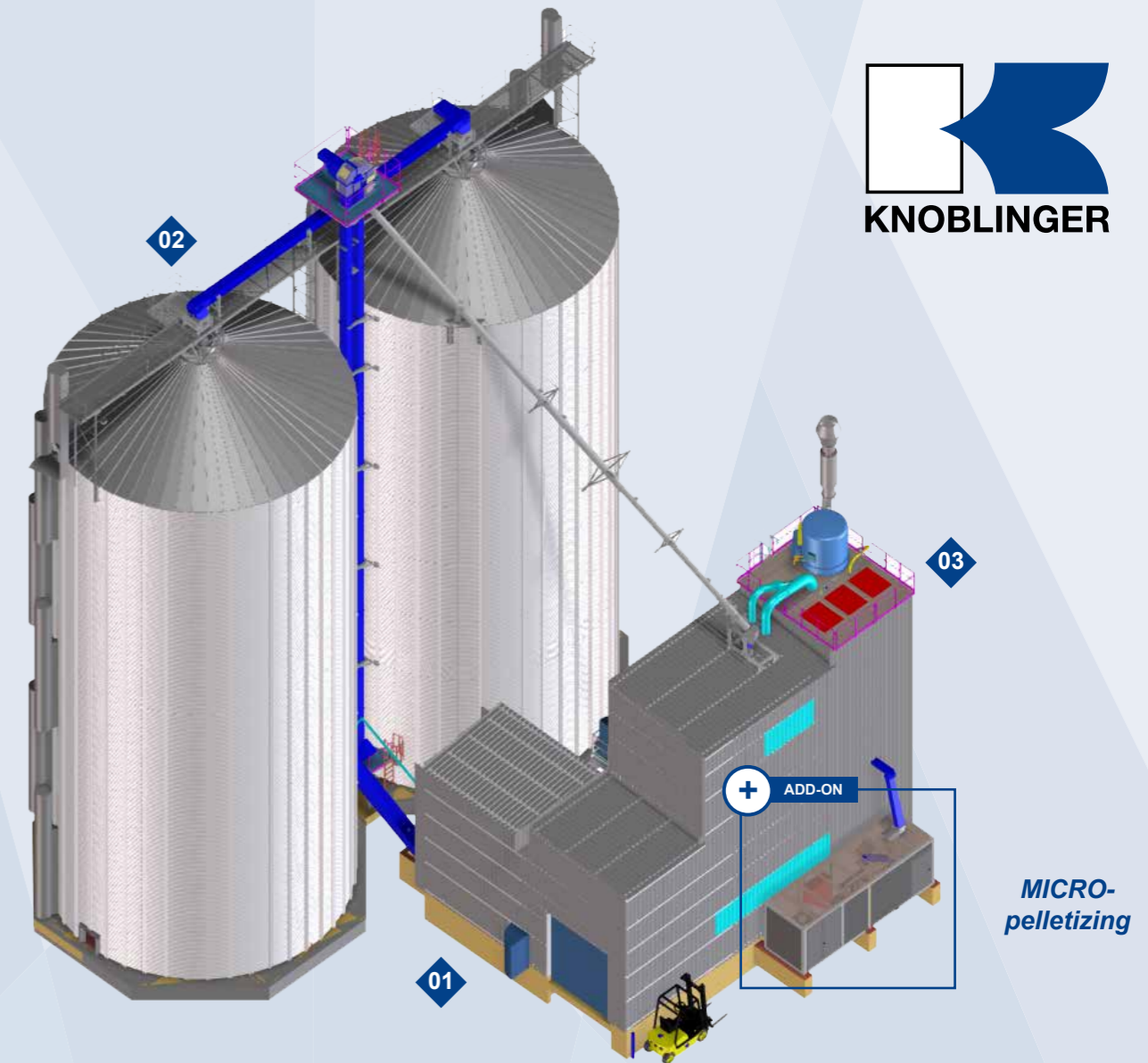
## Your Benefit

- Custom Knoblinger Mill** – Tailor-made Knoblinger mill for dust/shavings pelletizing
- Energy Efficiency** – Optimized low energy consumption in compact single-unit design
- Ideal Add-on** – 0,25t/h matches residual dust and wooden shavings production of small planer mills and pellet distribution centers
- Consistent Quality** – Reliable pellets from shavings/dust in quick-setup container
- Compact Footprint** – Minimal space needs: fits into tight production areas without major modifications

## Our Models

Type	K2-250
Capacity Softwood [t/h]	0,25
Capacity Hardwood [t/h]	0,15 - 0,18
Electrical Connection [kW]	30
Footprint [m²]	19,5

# 05 Pellet Storage & Distribution



## FACTS

Proven concept  
20+ in operation

Unloading capacity  
up to 200 t/h

Storage capacity  
300 - 7.000 t+

## Your Benefit

- | **Proven Concept** – 20+ distribution centers in operation worldwide with proven long-term reliability
- | **High Throughput Rates** – Loading/unloading up to 200 t/h for efficient logistics operations
- | **Reduced Dust Emission** – Minimized emissions through gentle pellet transfer and enclosed process
- | **MICROpelletizing Add-on for Existing Plants** – Seamless integration to produce Pellets from residual dust
- | **Consistent Pellet Quality** – Consistent length and reduced dust with gentle pellet transport technology
- | **Greenfield & Brownfield Expertise** – Seamless integration into existing sites or new greenfield projects
- | **Customer-Tailored Solution** – Wide range of capacities and storage options to match your needs perfectly

			<p style="font-size: small;">Ideal for small pellet distributors</p>
<p><b>01 Pellets Receiving Station</b></p>	<p><b>02 Pellets Storage</b></p>	<p><b>03 Pellets Loading Station</b></p>	<p><b>Compact Loading Solution</b></p>
<ul style="list-style-type: none"> <li>  <b>High capacity unloading</b> – fast truck-to-silo transfer</li> <li>  <b>Gentle conveying technology</b></li> <li>  <b>Dust-controlled handling</b> – ensures clean operation</li> </ul>	<ul style="list-style-type: none"> <li>  Pellets are stored in silos or flat storage facilities</li> <li>  <b>Continuous dust removal</b> – stored for later use</li> </ul>	<ul style="list-style-type: none"> <li>  <b>Gentle conveying technology</b></li> <li>  <b>Knoblinger proprietary dust-removal &amp; loading</b> – ensures clean operation</li> <li>  <b>High throughput design</b> – minimises truck wait times</li> </ul>	<ul style="list-style-type: none"> <li>  <b>Small-scale solution</b> – minimal investment for local pellet operations</li> <li>  <b>Compact design</b> – ensures minimal space requirements</li> </ul>



## Knoblinger Industrial Services



### Your reliable Partner for the Entire Plant Life Cycle

#### ✂ Our Service Portfolio

#### Your Benefit

- | **One-Stop Solution** – Everything from a single source
- | **Fast Spare Parts Availability** – Critical components delivered quickly to minimize downtime
- | **Long-Term Partnership** – Sustainable service strategy aligned with your operational goals
- | **Rapid In-House Diagnosis** – Fast issue resolution by our expert team
- | **Targeted Revisions** – Only replace what's truly needed, avoiding full swaps
- | **On-Site Continuous Optimization** – Practical support for peak performance
- | **Reliable Sparring Partner** – Assisting with plant security and insurance compliance
- | **Direct Engineering Access** – Close collaboration with Knoblinger specialists familiar with your plant



Maintenance & Service	Certified OEM Equipment	Optimisation & Upgrade	Spare Parts Supply
<ul style="list-style-type: none"> <li>  Machine &amp; plant service</li> <li>  Remote diagnostics &amp; maintenance</li> <li>  Roller &amp; matrix revision</li> <li>  Comprehensive annual inspection program</li> </ul>	<ul style="list-style-type: none"> <li>  CPM press service </li> <li>  CPM hammermill service</li> <li>  GreCon maintenance </li> <li>  OEM-certified productivity enhancements</li> </ul>	<ul style="list-style-type: none"> <li>  Comprehensive process &amp; plant analysis</li> <li>  Safety &amp; fire protection support</li> <li>  Optimisation of process parameters at customer plant</li> </ul>	<ul style="list-style-type: none"> <li>  Spare parts packages</li> <li>  Availability-optimized spare parts classification</li> <li>  Fast-lane delivery</li> </ul>

Driving efficiency and sustainability in bulk material processing. For a strong and reliable future.



## Knoblinger at a Glance

**#1** supplier of wood pellet production plants in Europe

**6+ million tons** installed annual wood pellet production capacity

**60+** years of experience in bulk material processing

**100 %** Made in Austria

**150** creative minds working on the energy transition

**26** countries served



## Our Solutions



Turnkey Plants	Components	Industrial Services
<ul style="list-style-type: none"> <li>  Pellet production</li> <li>  Pellet handling</li> <li>  Alternative fuel processing (Wood dust)</li> <li>  Bulk material logistics</li> </ul>	<ul style="list-style-type: none"> <li>  Bucket elevator</li> <li>  Chain conveyor</li> <li>  Belt conveyor</li> <li>  Screw conveyor</li> <li>  Moving floors</li> <li>  ... and many more</li> </ul>	<ul style="list-style-type: none"> <li>  Comprehensive optimisation &amp; planning</li> <li>  Maintenance &amp; service</li> <li>  Optimisation &amp; modernisation</li> <li>  Spare parts supply</li> </ul>



## Our industries



More than **60 systems delivered**  
Production capacity from **0,25 to 50+ t/h**  
**6+ million tons** of installed  
production capacity

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Successful companies rely  
on **KNOBLINGER**

- | Complete wood pelletizing systems
- | Fuel or biomass pelletizing
- | Pellet storage technology
- | Grain and feedstuffs technology
- | Raw materials receiving technology
- | Loading and handling systems



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