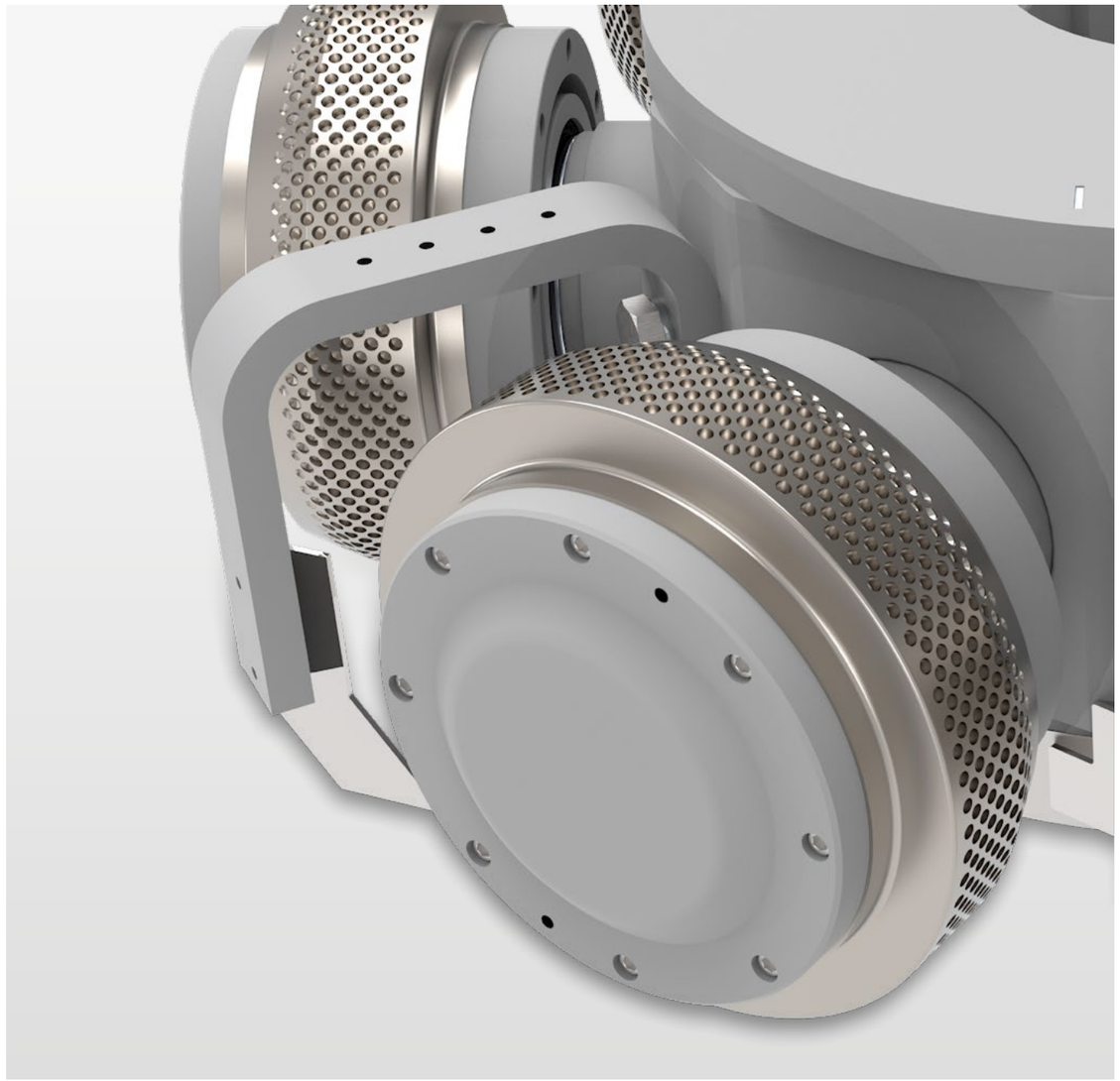
AMANDUS
KAHL

KAHL **ECO ROLL**

The new system for pre-compaction, compatible with AMANDUS KAHL flat die pellet mills



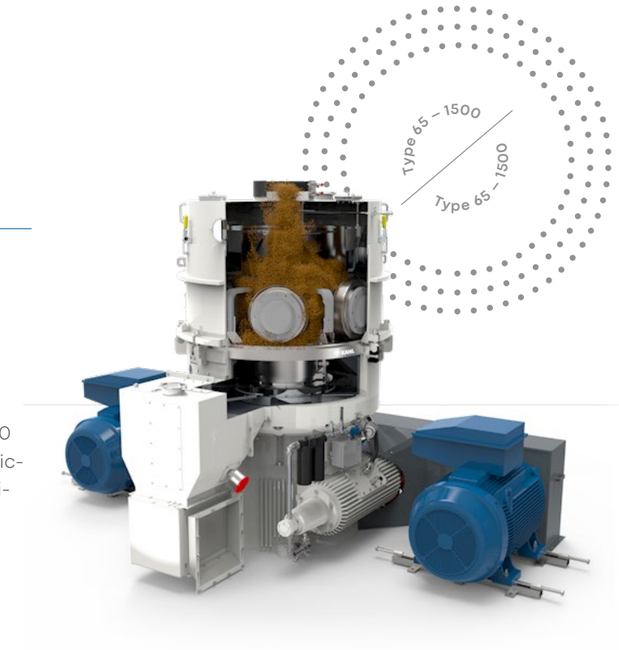
Reduced wear, increased production capacity

The innovative design reduces wear on rollers and dies, resulting in longer component life. Longer maintenance cycles combined with lower energy consumption significantly reduce operating costs. The Eco Roll is therefore an environmentally responsible and economically viable solution.

Advantages

- → Up to 25 % increase in capacity with KAHL flat die pellet mills and up to 12 t/h throughput with the pellet mill 65 – 1500
- → Low energy consumption of approx. 40 – 45 kWh/t for softwood

Extrapolated to an annual production volume of 50,000 tons, this results in savings of up to 1,250 MWh of electricity per year. This equates to a cost reduction of approximately € 250,000 per year at an electricity price of 20 cents per kWh.



↑ Pellets from spruce wood

↑ Pellets from torrefied wood

↑ Pellets from straw

Directly to the virtual showroom:
Scan the QR code now

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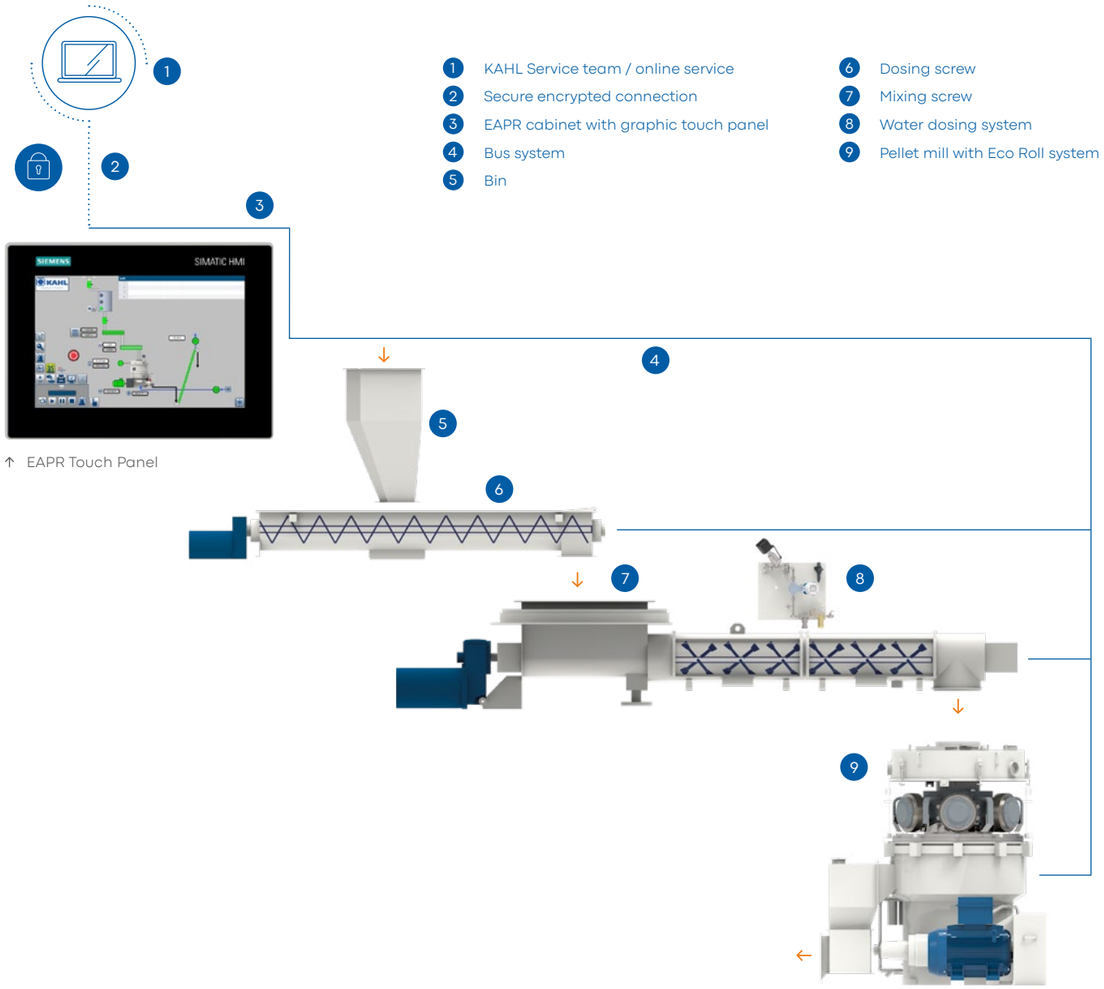


1 KAHL Service team / online service
2 Secure encrypted connection
3 EAPR cabinet with graphic touch panel
4 Bus system
5 Bin
6 Dosing screw
7 Mixing screw
8 Water dosing system
9 Pellet mill with Eco Roll system

↑ EAPR Touch Panel

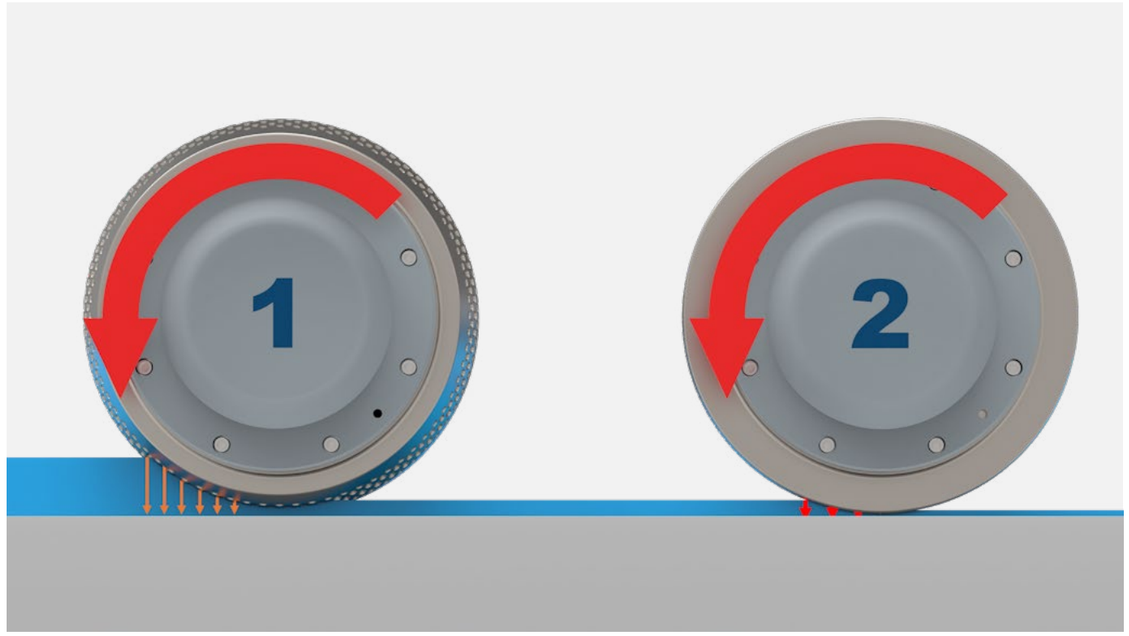
↑ Product flow within the Eco Roll

↑ Pan grinder head with Eco Roll system

AK 007 EN 2025

MORE EFFICIENT PELLETING

Save energy during production and reduce your costs



1 Pre-compaction 2 Post-compaction

The Eco Roll uses a two-stage compaction method, unlike conventional pan grinder rollers that compact all the product in one step. In the first stage, the product is gently pre-compacted by a recessed section of the working surface. A lower pressure is applied, which optimally prepares the product for the next stage. In the second stage, higher pressure is applied to the front part of the roller, ensuring maximum compaction performance with minimum energy input. This two-phase pressure distribution not only ensures uniform compaction, but also significantly reduces energy consumption – to approximately 40 to 45 kWh per ton for softwood.