PASSION FOR SPORTS GROUNDS





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Infill-Dryer

RENOWACJA

Modular drying and de-dusting system specifically designed for synthetic infill materials such as rubber and sand – ensures precise moisture reduction and fine dust separation for further recycling processes.

The Infill-Dryer is a stand-alone module designed for targeted moisture reduction and pre-cleaning of infill material mixtures such as rubber granules and sand. Developed as a containerized plug-and-play solution, the system can be operated independently or seamlessly integrated into downstream processing lines.

Material feeding can be carried out either via Big Bags or in bulk using a wheel loader into a feed hopper. A frequency-controlled screw conveyor continuously transports the material into the system. The precise control via frequency inverter allows the throughput to be adjusted according to specific process requirements.

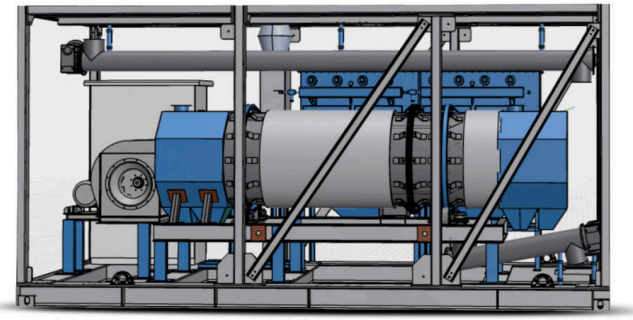
The material is gently dried in a diesel-powered hot air dryer. The temperature control is specifically designed to prevent thermal damage or agglomeration, even when processing materials with different melting points. Optionally, the system can be converted to operate on natural gas or liquefied petroleum gas (LPG), supplied via an external tank or the public grid.

The Infill-Dryer is equipped with an integrated cartridge filter system that specifically separates fine dust particles smaller than 200 microns. These particles are discharged via an airlock rotary valve into a separate Big Bag. The separated dust typically accounts for

around 2% of the total material volume – already at this stage, a significant level of cleaning is achieved.

After the drying and de-dusting process, the processed material is transferred via a flap valve to a discharge screw conveyor. In stand-alone operation, the material is discharged directly into Big Bags or customer-specific receiving systems. In integrated operation, the transfer is fully automated to the downstream separation module, with synchronized process communication – for example, to coordinate temperature and throughput.

The Infill-Dryer operates fully autonomously with an integrated control system. Integration with other process modules is easily possible via automated interfaces. The containerized design ensures short installation times and high mobility.



Technical information:

- Processing capacity: max. 3–4 t/h
- Input moisture content: 6–10%
- Output moisture content: ≤ 0.5%
- Burner consumption: max. 20 l diesel/h
- Electrical energy demand: 18 kWh

Infill-Dryer / Szczegółowe widoki

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Filling hopper and screw conveyor

Material intake via big bag or wheel loader, with optimal material flow via frequency-controlled screw conveyor.



Rotating warm air dryer with burner unit (diesel operation, optional LPG/natural gas)

Process-safe temperature control prevents thermal material damage and agglomeration at different melting points



Integrated cartridge filter system (fine dust separation <200µm)

Separation of fine dust via rotary valve into a separate big bag.

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Control and operating unit

Central unit with programmable logic and modular interface technology

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Z zastrzeżeniem zmian technicznych

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