

— GREEN RECYCLING · A CONCEPT FOR THE HORSE FARM

Manure into pellets

The horse manure is dried, pressed into pellets and turned into heat – in a self-contained cycle on the farm.



— THE CONCEPT

Farm manure. Farm heat.

The pellet press is part of a complete concept. The horse manure is fed from our own fuel store to our own dryer, pressed into pellets and burned in the Biotherm burner – and the heat goes both back to the dryer and to the buildings.



THE DRYER

From the manure store, the fuel goes to our innovative screw dryer, which quickly dries it from 30–70 % to 11–15 % moisture. The dryer was developed and designed for horse manure, but can be used for other biofuels too.

STORING THE MATERIAL

The summer's manure is made into pellets with around 5–7 % moisture. This means the material can be stored until winter, when it is needed most.

THE HEAT

Some of the heat from the biomass boiler goes to the dryer, but most of it heats the buildings. Horse manure, which until now has cost money to get rid of, has become a highly potent fuel. A cost has become an income that is easy to manage.

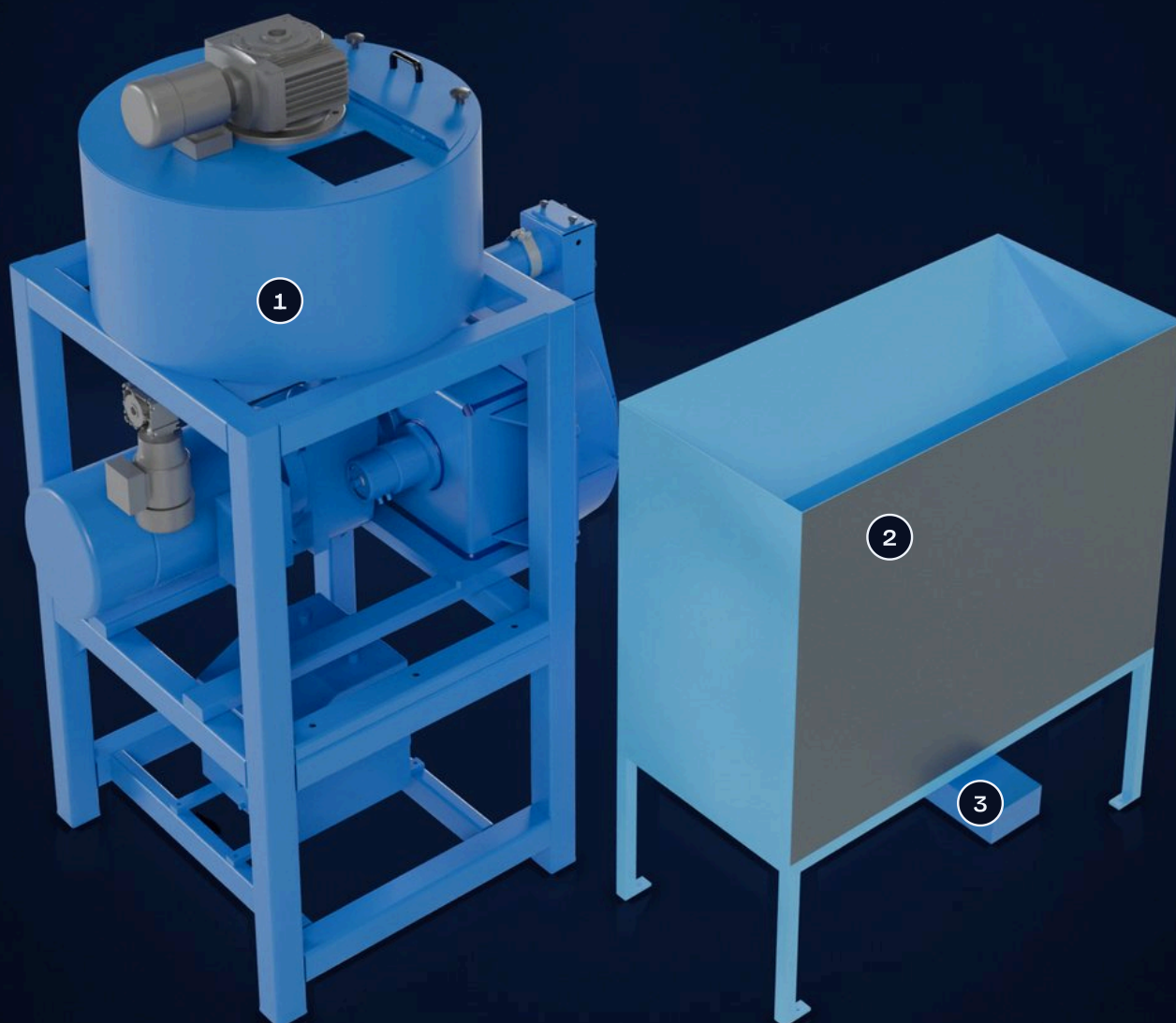
THE SURPLUS

Pellets not needed for your own use can be sold on the open market. Once again, a former cost becomes a steady income.

THE PELLET LINE

A complete line.

The dried manure is pressed into pellets, which are cooled and screened before going on to storage. The whole chain – store, dryer, press and boiler – is run by our own control system, which is unique to the whole chain.



THE PELLET LINE · CAD

RAW MATERIAL

Dried and ground horse manure from bedding

① The press

Presses the pellets.

② The cooling tower

The pellets are cooled after pressing.

③ The screen

Below the cooling tower.

— THE PLANT AT MENHAMMAR

From the dryer to pellets.

The concept on site: the pellet line in a room of its own and the Biotherm dryer in the room next door. From the end of the dryer, the fuel can be fed in two directions – to the pellet press, or dry, straight to a boiler that burns it as it is. The plant is built to suit the customer's needs; you can, for example, buy just the dryer, to dry the fuel without pelleting it.



1 The cyclone
Receives the dried material.

2 The rotary airlock
Feeds the material onward.

3 The elevator
Lifts the pellets to the cooling tower.

4 The cooling tower
The pellets are cooled after pressing.

5 The Biotherm dryer
Our new, innovative screw dryer dries the fuel from 30–70 % to 11–15 % moisture. Drying to 20–25 % to burn the material directly in a boiler is quicker and gives a higher capacity.

6 The pellet press
Where the dried manure becomes pellets, with around 5–7 % moisture.



Nothing goes to waste.

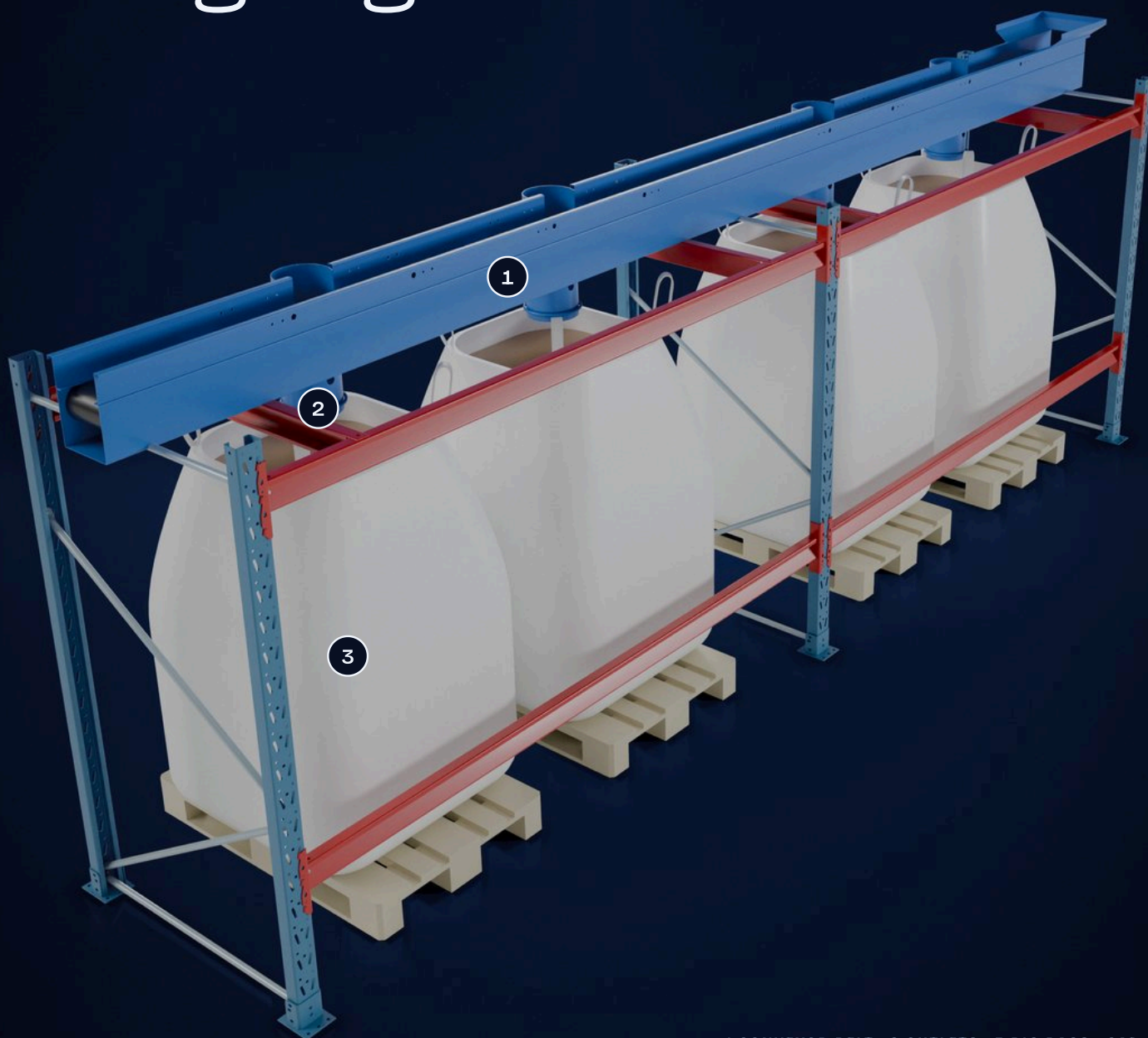
The manure is dried and becomes pellets. The pellets are burned and heat the houses and the dryer – which makes new pellets. A residue is put to good use.



STORAGE

Ready, in big bags.

Pellets are stored in small bags, big bags or bulk stores. Here, a conveyor belt fills four big bags on pallets, in a pallet rack.



1 CONVEYOR BELT · 2 OUTLETS · 3 BIG BAGS · CAD

BIG BAG

On pallets

One outlet from the conveyor belt to each bag.

SILLO

11–185 m³

Galvanised steel – see the Fuel stores brochure.

VACUUM

At a distance

A vacuum system can collect pellets from the store.

— SUSTAINABLE HEATING SINCE 1976

One contact. All the way.

A family business in its fourth generation, with offices in Västerås and Luleå. We also offer the Biotherm burner, which burns the pellets, and our own control system for the whole chain.



Needs assessment

With a free heat-load calculation.

Engineering

3D drawings.

Installation

Commissioning and fine-tuning.

Training

In operation and maintenance.

Service

Alarms and remote monitoring.

FREE HEAT-LOAD CALCULATION

Let's calculate your heating.

We begin with a needs assessment and a free heat-load calculation. Then we take responsibility for the entire plant, from fuel store to delivered heat.

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The images on pages 1, 3 and 6 are renderings from CAD models; the photos on page 4 are from the plant at Menhammar. Data subject to change; final data for your plant is provided in the quotation. © 2026 Biotherm Heat AB.