

— WOOD CHIPS AND PELLETS

Fuel stores



Spring agitators, scraper-floor stores, carports and silos
– built to suit your conditions and requirements.

11–500 m³

STORE VOLUME, FROM SILO TO SCRAPER FLOOR

5 ways

TO STORE THE FUEL

— FUEL STORES FOR WOOD CHIPS AND PELLETS

Built to suit the site.

The store is built to suit your conditions and requirements – the site, the fuel and how you want to fill it. Besides PelleTech's solutions, we also manufacture a range of different stores in-house.



FUEL

Wood chips or pellets

VOLUME

From 11 up to 500 m³

FILLING

From above, from
the side or via a pipe

FEED SYSTEM

By screw or vacuum
to the boiler

— THE STORES AT A GLANCE

Five ways to store the fuel.

From a pellet silo to a scraper-floor store for 500 m³ of wood chips. We choose the right store together with you, based on your conditions on site.



IMAGES NOT TO SCALE

01

Spring agitator

up to **180 m³**

In various sizes and designs.

02

Scraper floor

up to **500 m³**

Hydraulic scrapers push the chips forward.

03

Heating plant

Built-in store

Boiler room and fuel store in the same building.

04

Carport

As required

The wood chips stay dry under a roof.

05

Silo

11–185 m³

Galvanised steel, for pellets.

06 COMPLEMENT WITH

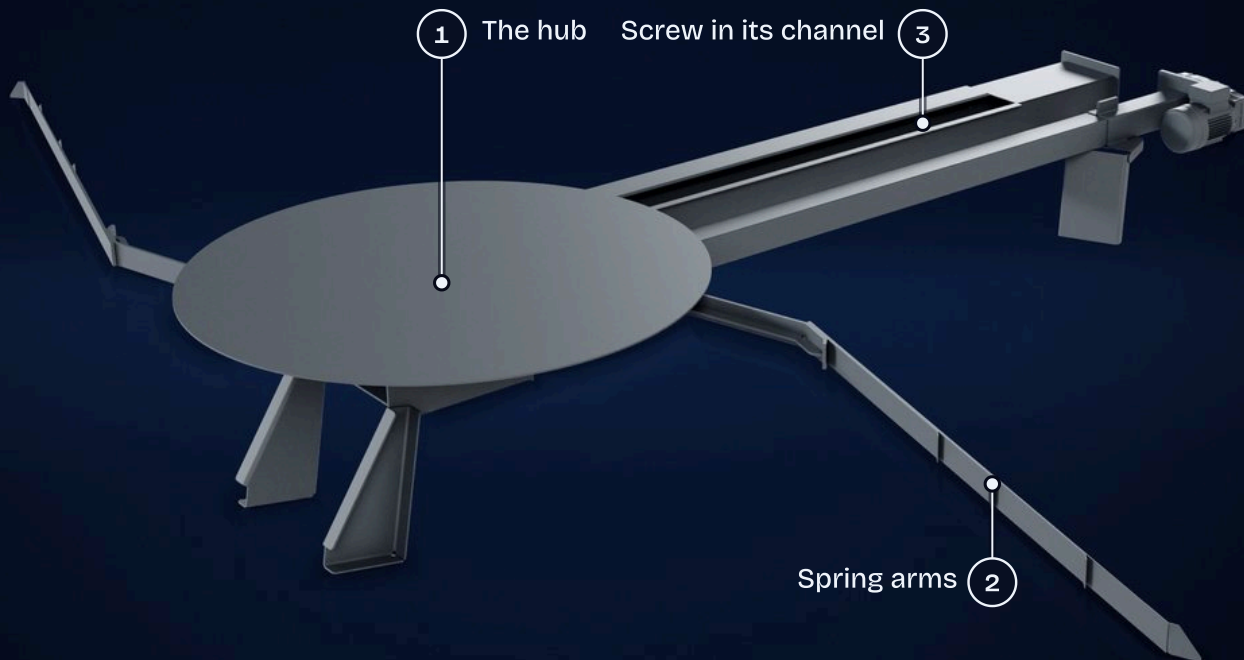
Mobile shredder

All fuel store solutions can also be complemented with our mobile shredder, which turns your residues into a potent fuel. A smart logistics solution on the farm, where all material is put to use.

— SPRING AGITATOR

Swept to the screw.

The spring arms rotate across the floor of the store and sweep the wood chips in towards the screw, which feeds them on to the boiler. The spring agitator comes in various sizes and designs.



SPRING AGITATOR 6 M · CAD

VOLUME

up to **180** m³

DIAMETER

up to **6** m

4 m on the smaller models, 6 m on the largest.

SUPPORT FLOOR

Not required

But it gives a cleaner store and allows ventilation for drying.

SCRAPER-FLOOR STORE

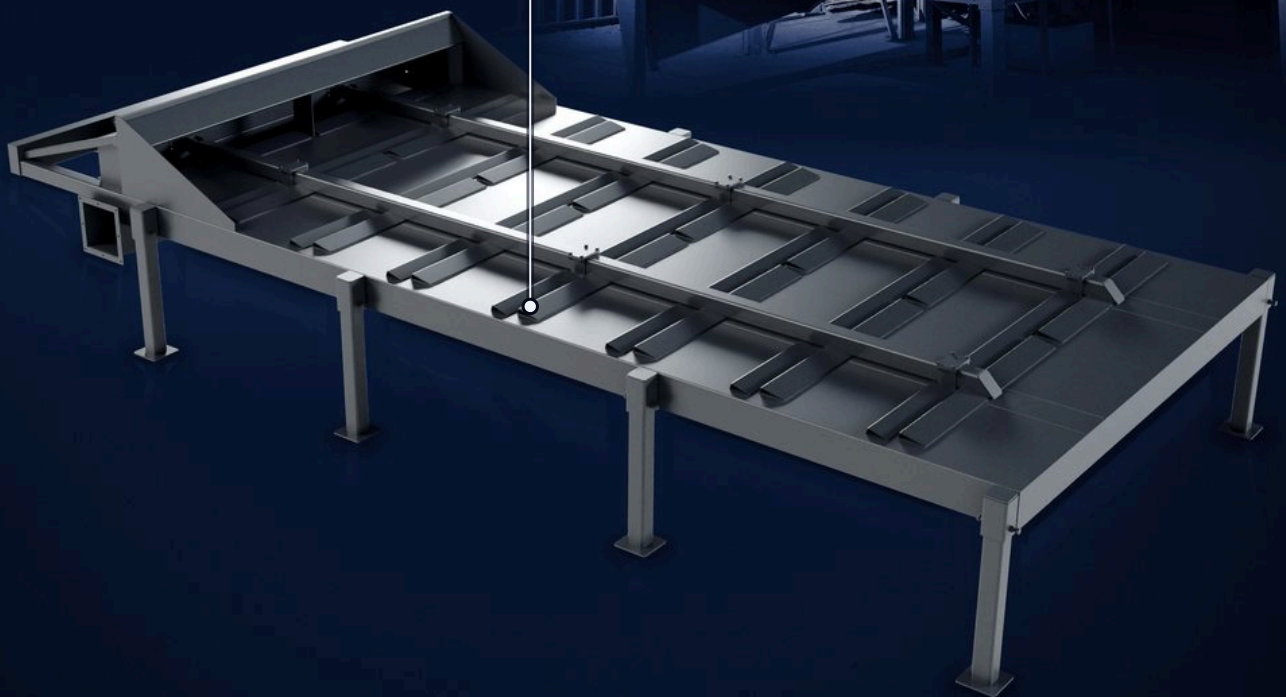
Scrapers push the chips along.

VOLUME, UP TO

500 m³

Wedge-shaped scrapers on the floor of the store are driven back and forth by hydraulics. They push the wood chips forward to a cross screw, which receives the fuel and carries it on to the boiler.

The scrapers 1



SCRAPER FLOOR · CAD

DRIVE

Hydraulics

The scrapers move back and forth.

SCRAPERS

Wedge-shaped

Push the chips forward to the cross screw.

FUEL

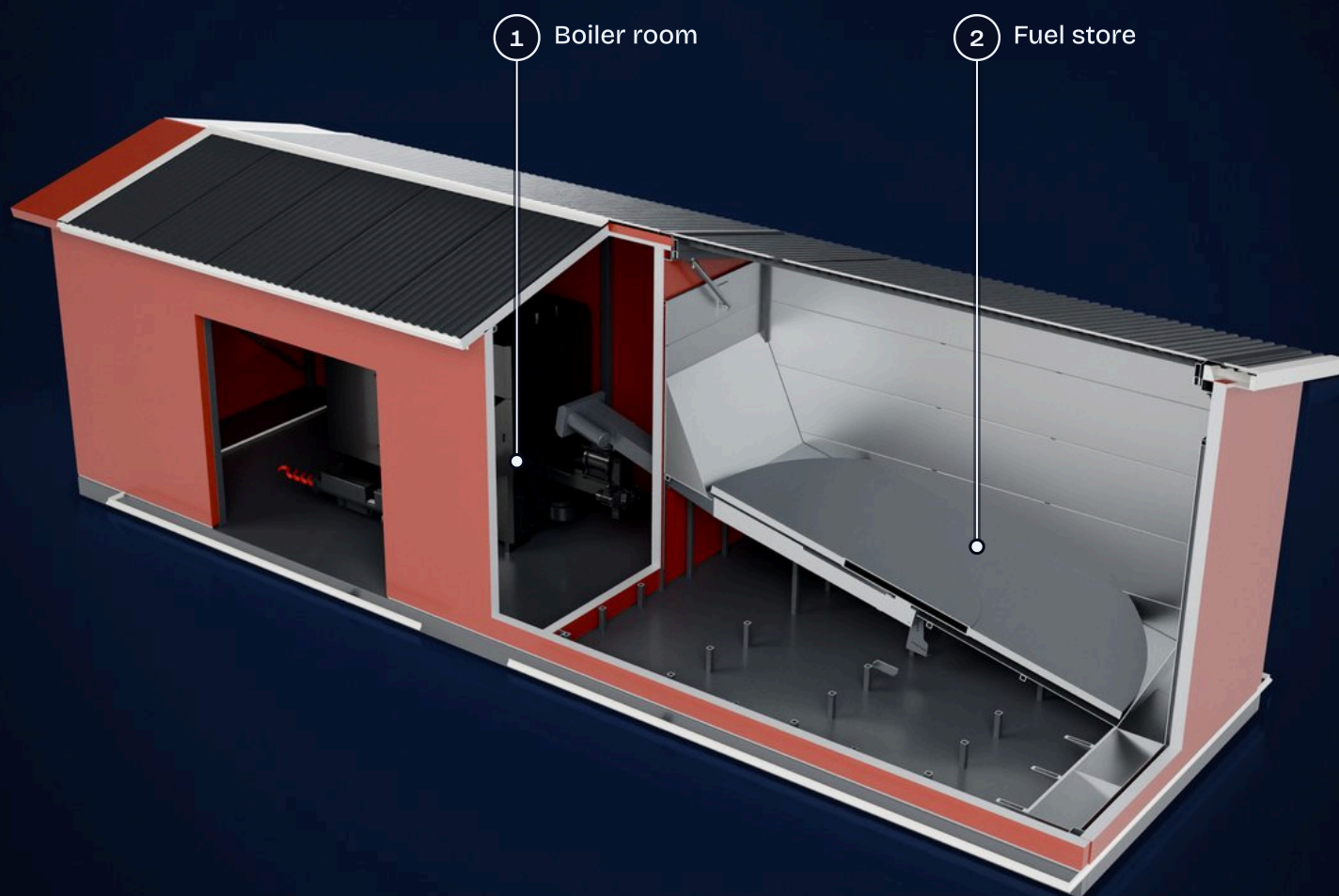
Wood chips

Up to 500 m³ in a single store.

HEATING PLANT WITH BUILT-IN FUEL STORE

Boiler and store under one roof.

Boiler room and fuel store in the same building. Read more about our heating plants in the Heating Plants brochure.



HEATING PLANT WITH IDRO 400 kW, CUTAWAY · CAD

1 BOILER ROOM

The boiler and the feed into it – here a PelleTech IDRO 400 kW.

2 FUEL STORE

In the same building as the boiler room.

HEATING PLANTS

200_{kW} – 2_{MW}

CARPORT

Kept dry under cover.

The carport is a store with a steel frame and a roof, where the wood chips stay dry. Its size is adapted to your needs.



SIZE

As required

FRAME

Steel, with roof

FUEL

Wood chips

Kept dry under cover.

— PELLET SILO

Filled straight from the tanker.

11–185 m³

VOLUME, IN GALVANISED STEEL

Filling pipe

The pellets are blown from the bulk tanker through the pipe, up to the cyclone on the roof. The cyclone separates the pellets from the air.

Galvanised steel

The silo stands on its own legs, with bracing between them.

Conical bottom

The pellets flow down towards the outlet.

Outlet

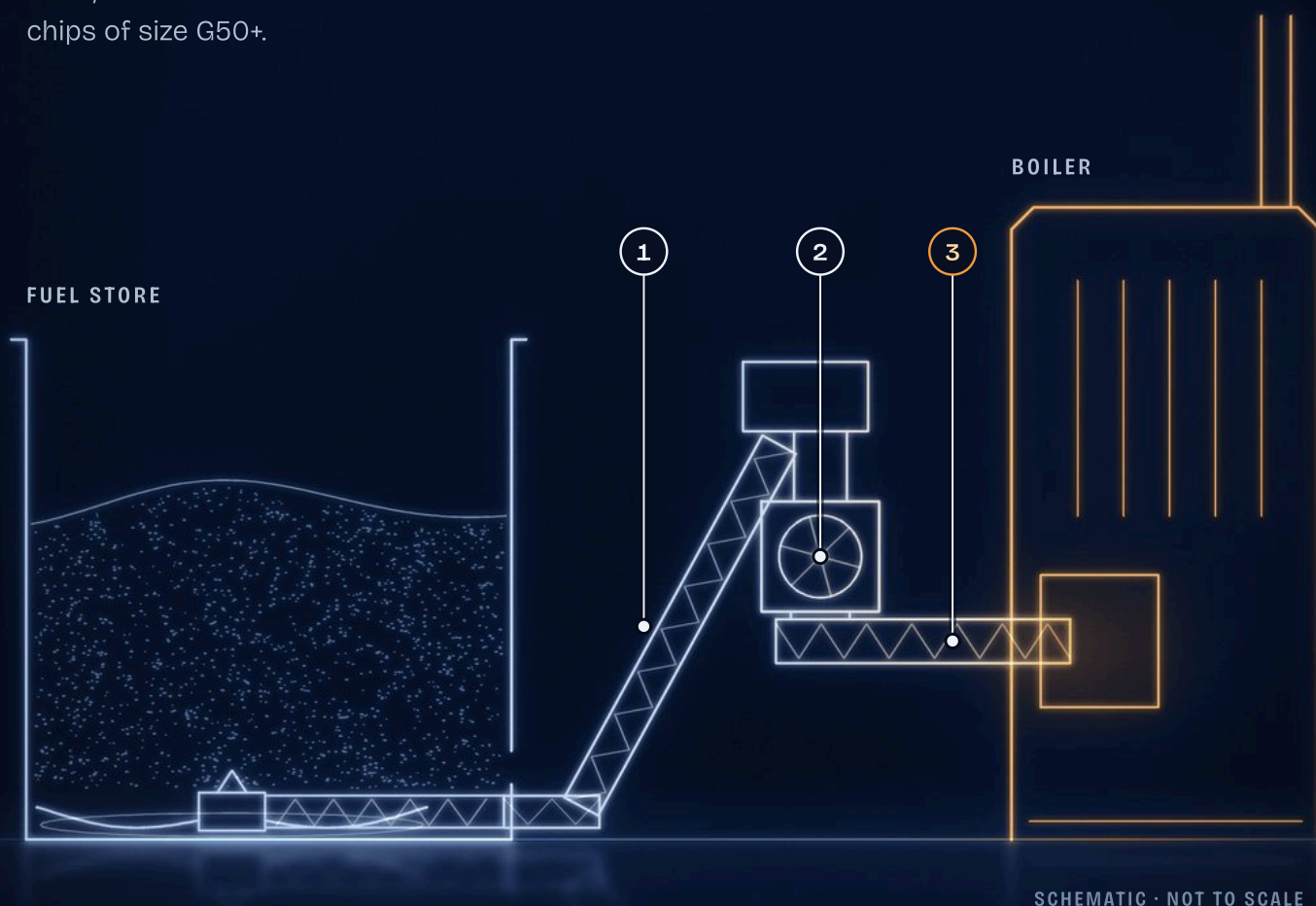
At the bottom, on to the boiler.



FEED SYSTEM

From the store to the boiler.

A screw carries the fuel from the store, through a tight rotary valve, and the stoker screw feeds it into the burner. For wood chips of size G50+.



① Feed screw

Carries the fuel from the store towards the boiler.

② Rotary valve

Fully sealed and safe against burn-back.

③ Stoker screw

Feeds the fuel into the burner.

Larger chip sizes call for larger screws – industrial boilers have feed screws of up to 180 mm. Burn-back protection comes from the tight rotary valve together with a sprinkler, which is required in Sweden. Pellets can also be drawn by a vacuum system from a store some distance away – up to 20 m for Multiauto.

— SIZING

How big a store do you need?

The rule of thumb: wood chips in cubic metres per year come to roughly twice the boiler output in kilowatts, and up to three times with poorer chips. For pellets, divide the chip volume by 3.9.



WOOD CHIPS PER YEAR FOR A 100 kW BOILER

BOILER OUTPUT	50 kW	100 kW	200 kW	500 kW
Chips per year, approx. m ³	100	200	400	1,000
Pellets per year, approx. m ³	26	51	103	256

Example: a 500 m³ scraper-floor store holds roughly one year's wood chips for a 250 kW boiler. A worked example based on the rule of thumb – actual consumption depends on the quality and moisture content of the fuel and on how the plant is used. We calculate the figures for your plant in the needs analysis.

— SUSTAINABLE HEATING SINCE 1976

One contact. All the way.

A family business in its fourth generation, with offices in Västerås and Luleå. We calculate your heating – from the fuel store to the boiler – and we are still there once it is up and running.

Needs analysis

With a free heat-load calculation.

Design

3D drawings.

Manufacturing

Besides PelleTech's solutions, we also manufacture a range of different stores in-house.

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 start with a needs analysis and a free heat-load calculation. Then we take responsibility for the entire plant, from the fuel store to the heat in the building.

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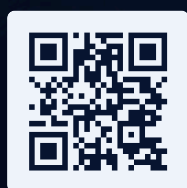
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