KWB storage and conveyor systems

- Customised designs to ensure optimum space utilisation
- Perfectly coordinated systems for maximum efficiency
- A suitable solution for every situation

Fully integrated approach

Complete solution for your heating system

Everything from one source

Pellets

The KWB fuel storage systems for pellets including suitable conveyor systems are particularly flexible and can be adapted exactly to the specific room layout. The following provides an overview of the various options:

Dry storage room directly next to the heating room

KWB Pellet Stirrer[Plus] with elbow screw

Conveyor screw with elbow screw

KWB Pellet Big Bag with elbow screw

Storage room not adjacent to the heating room

KWB Pellet Stirrer[Plus] with suction conveyor

Conveyor screw with suction conveyor

KWB Pellet Big Bag with suction conveyor

KWB Pellet Stirrer^{Plus}

The Pellet Stirrer^{Plus} with a diameter of up to 3 metres ensures **optimal utilisation of storage room volume**, does not require a sloping floor and is ideal for square to rectangular storage rooms.

KWB suction conveyor

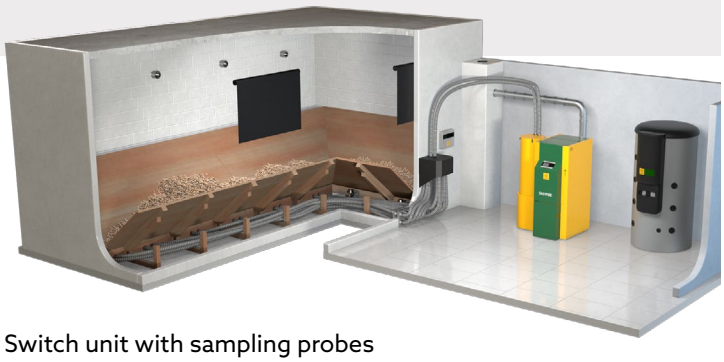
The KWB suction conveyor gives ample flexibility when choosing the storage room. Distances of **25 metres and height differences of up to five metres** between the heating and storage room can be easily overcome.

Compact storage in the KWB pellet box

KWB pellet box with suction conveyor

- Can also be set-up outdoors, if weather-proofed

Oblong or L-shaped room



Switch unit with sampling probes

- With 3- or 8-point-sample probe
- Flexible storage room design possible

All in one room

KWB storage container 200 kg

Free choice of storage room

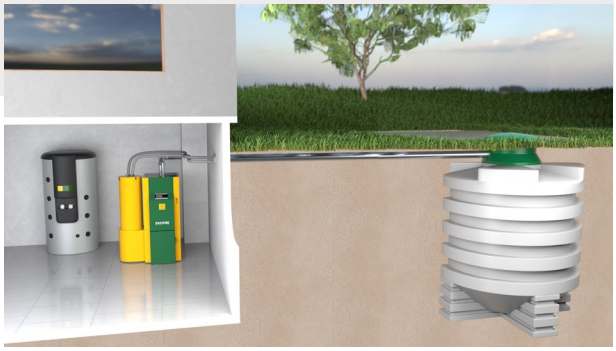
KWB storage container 500 kg with suction conveyor

Compact storage outside of the house

The KWB pellet box with Geo-Cover and suction conveyor

- If storage in the house is not possible

Compact storage in buried tank



Buried pellet tank with suction conveyor

- If storage in the house is not possible

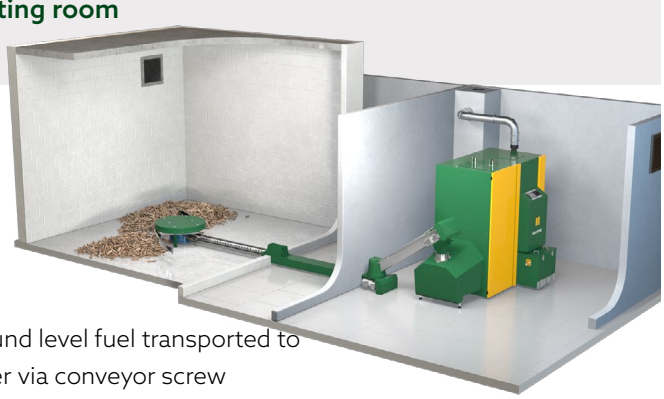
Wood chips & pellets

Wood chip systems and high- performance pellet boilers require large storage rooms and particularly robust conveyor systems. With the KWB stirrer, KWB provides maximum fuel extraction efficiency and supplies customised conveyor screws – manufactured in Austria. The following provides an overview of the different options. Your KWB expert will be happy to advise you on individual projects.

Storage room with sloping floor directly adjacent to the heating room

Direct supply via a robust conveyor channel

Storage room at a distance from the heating room



Ground level fuel transported to boiler via conveyor screw

Storage room above heating room

Fuel is transported to the boiler via a customised downpipe

Storage room underneath the heating room

Fuel is transported to the boiler via a customised ascending screw

KWB stirrer with filling screw

More flexibility thanks to individual filling systems

One storage room for several boilers

Centralised fuel supply for boiler cascade – thanks to double suction head

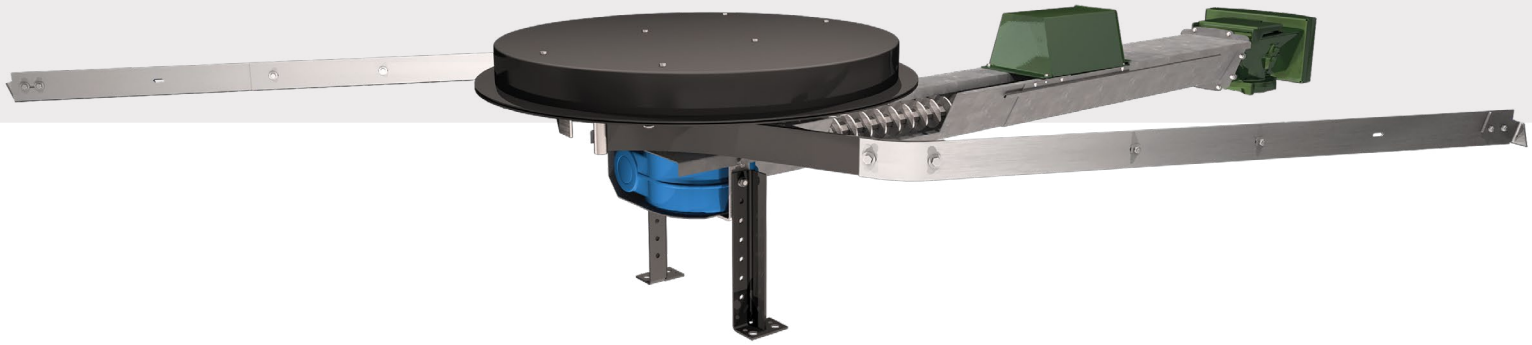
Attention: Only suitable for pellets

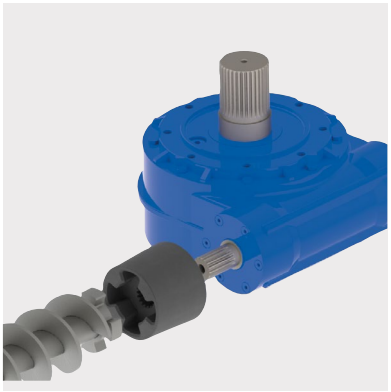
KWB stirrer: reliable & durable

The KWB stirrer has been designed for wood chip and high- performance pellet systems. The length and diameter of the conveyor screw on a massive, hollow shaft supported by two bearings, is manufactured for your specific requirements. Stirrer diameters of 2.5 to 5.5 meters are possible.

Your advantages:

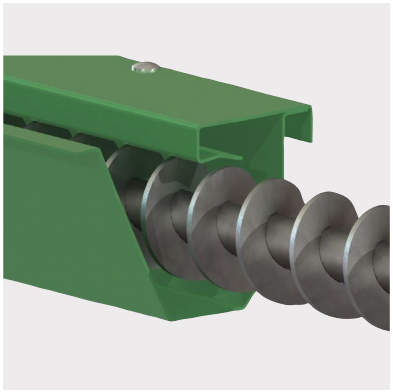
- Integrated wall duct box (as standard) replaces additional inspection opening
- Maximum utilisation of the storage room volume possible thanks to a horizontal channel construction with a separate ascending screw
- Fuel changes between wood chips and pellets are possible without mechanical changes to the boiler and without replacing the conveyor system
- Optimal emptying of the fuel storage room thanks to the uniform contact force of the articulated rotary blade stirrer over the entire diameter
- Low power consumption: An optimised channel form and progressive spiral distances as well as highly efficient gear components with load monitoring reduce the power consumption





No maintenance expenditures

in the fuel storage room thanks to a sturdy heavy-duty gear unit



High operating safety

due to the one-piece, fully welded conveyor screw with stainless steel spiral

Long service life

due to an optimised, trapezoid channel with partial cover to relieve pressure from the conveyor screw

General information about the storage construction

Please always comply with applicable local statutory submission, construction and execution regulations. Your KWB expert will be happy to help if you have any questions or complex projects.

The following provides an overview of the average consumption of pellets and wood chips per building heating load:

Heating load of the building [kW]	Consumption of pellets per year [t/a]	Consumption of wood chips per year [m³/a]
15	5.3	–
20	7.0	50
25	8.8	–
30	10.5	75
35	12.3	–
40	14	100
50	17.5	125
60	21	150
70	24.5	175
80	–	200
100	35	250
120	–	300
135	50	–

Calculation basis: 1,500 full load hours per year

Your KWB expert will happily provide you with more information about specific conveyor and storage options. Scan QR code and find a KWB contact: