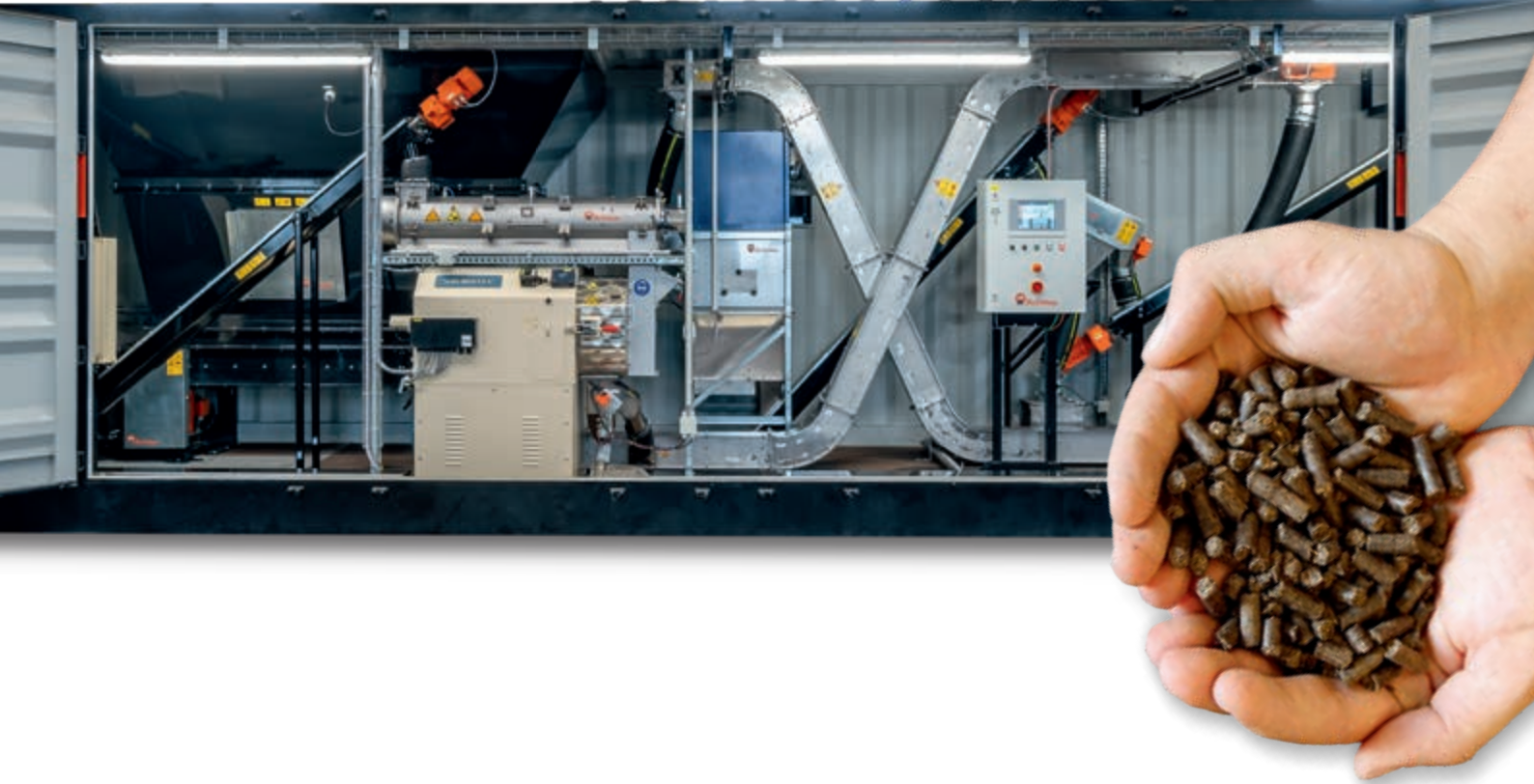




Big Dutchman®



BD PelletBox 750

The complete pelletising system for dried poultry manure
that comes ready to be connected

BD PelletBox 750

Capacity of approx. 750 kg per hour

Pelletising dry poultry manure and litter from broiler houses is the consequent continuation of clever residue treatment. Why?

- Because pellets are easier to store and to transport.
- Because the volume of the loose material is reduced by approx. two thirds.

➤ And because marketing possibilities are much broader.

With BD PelletBox 750, Big Dutchman presents a system that is ideal for farms or farm complexes from 50,000 to 200,000 layers, for example.

The most clever aspect of this system: it is

supplied in a container, ready to be connected. This makes it very easy to move the system to different places.

Interested? Then please contact Big Dutchman for an extensive consultation with one of our experts.

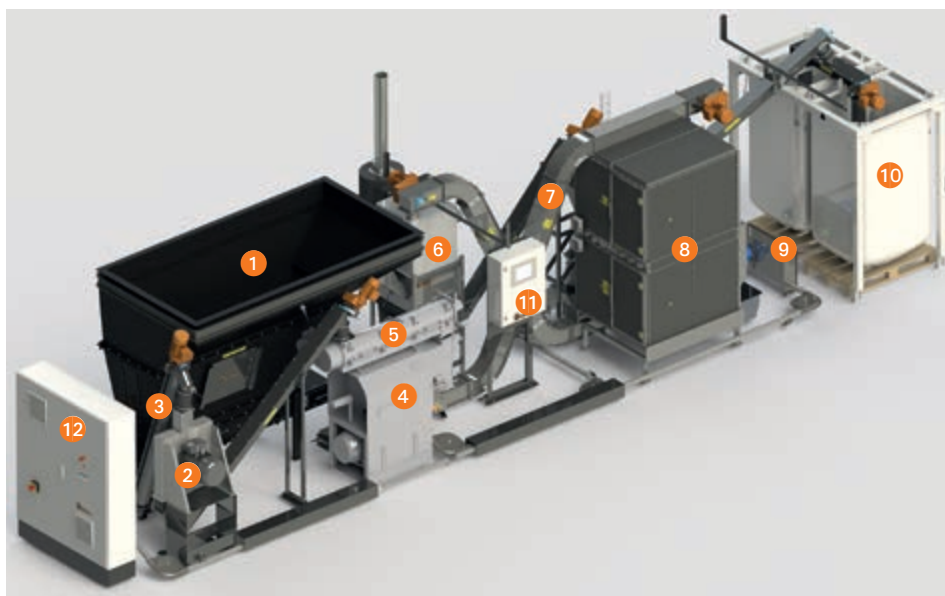
The advantages at a glance

- ✓ high pellet quality and virtually no breaking thanks to a standard pellet diameter of 5 mm and lengths between 20 mm and 30 mm;
- ✓ use of modern measuring and process technology for a permanently high pellet quality;
- ✓ good visualisation, automatic control and monitoring via touch screen;
- ✓ ideal for transport and storage;
- ✓ versatile marketing possibilities, e.g. in horticulture and viticulture;
- ✓ simple and accurate spreading of the pellets as high-quality fertiliser;
- ✓ pelletising of other residues from agriculture, such as digestate and litter.



Ready-to-connect delivery of BD PelletBox 750 in a 40-foot HC (high-cube) container (12192 mm x 2438 mm x 2896 mm)

Structure and functional principle



Key

- | | | | |
|-----------------------------|-----------------|-------------------------|-----------------------|
| ➊ Hopper for input material | ➋ Pellet mill | ➌ Trough chain conveyor | ➍ BigBag bagging unit |
| ➎ Hammer mill | ➏ Conditioner | ➐ Sanitation unit | ➑ Control panel |
| ➒ Dosing auger | ➓ Pellet cooler | ➔ Dust return | ➕ Control cabinet |

The pre-dried manure with a dry matter (DM) content of no less than 85 percent can be stored in the hopper ➊ for the short term. From here, a dosing auger ➓ transports the manure to the hammer mill ➎, where it is chopped and then transported to the pellet mill.

The compact pellet mill ➋ has an output of approx. 750 kg/h, depending on the input material. A trough chain conveyor ➌ transports the hot pellets (80 °C to 100 °C) to the pellet cooler ➓, where the pellets are cooled down to approx. 10 °C above inside temperature. The pellets are now stable for storage. Another dosing auger transports them to the BigBag bagging unit ➍. A pellet screen ensures that fine parts are separated and returned to the hammer mill.

If pellets with a low bacterial count must be produced, a sanitation unit ➐ can be installed between the pellet mill and the pellet cooler.

Pellet mill: rugged and durable

The core of the pelletising system is the pellet mill, which is characterised by the following features:

- ✓ high pellet quality, very little breaking;
- ✓ stable housing design with integrated motor fixing plates;
- ✓ vertical ring die with two rollers for a high pressure;
- ✓ quiet, energy-efficient and uniform force transmission with a single-stage V-belt drive;
- ✓ symmetrical die geometry for two-way use and thus a longer service life;
- ✓ magnetic foreign matter separator;

- ✓ easy access to the mill via pivoting door;
- ✓ use of high-quality materials, with the conditioner being made of acid-resistant V4A steel.



Supply in a 40-foot HC container with a CSC plate is possible, i.e. the container is approved for international transport on container ships

Control and process monitoring: easy to understand and automatic

The system is easy to control and to monitor using the controller touch screen. Additional information such as the current workload of

the hammer mill or of the dosing auger that transports material to the pellet mill can also be retrieved. A sensor reports when one of the BigBags is full and needs to be replaced. The control cabinet itself is located in a

separate room and therefore protected from dust and other influences.



System controller



Display of important system status information



Control cabinet integrated into the container

BigBag bagging unit: part of the container



View of the BigBag bagging unit



Sufficient room for two BigBags

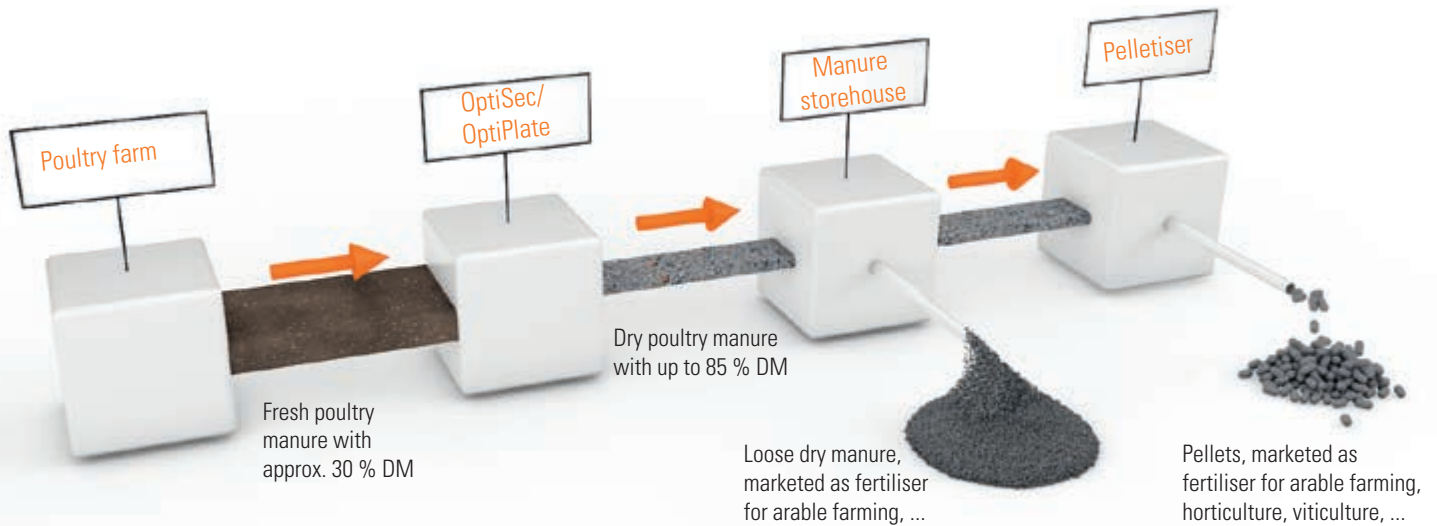


Our recommendation

In addition to egg and meat production, the sensible utilisation of poultry manure is becoming more and more important to modern poultry producers. This includes not just pelletising, but also preceding processes. The Big Dutchman

OptiSec and OptiPlate dryers are two efficient solutions for manure drying. The manure dried by these systems is easy to press into pellets, either using BD PelletBox 750 or BD PelletTower for larger farm complexes. All components for residue treatment are

from one source and thus ideally combined, backing our claim of creating an added value beyond egg and poultry meat production for our customers.



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