



DRYING MANURE RIGHT NEXT TO THE FARM

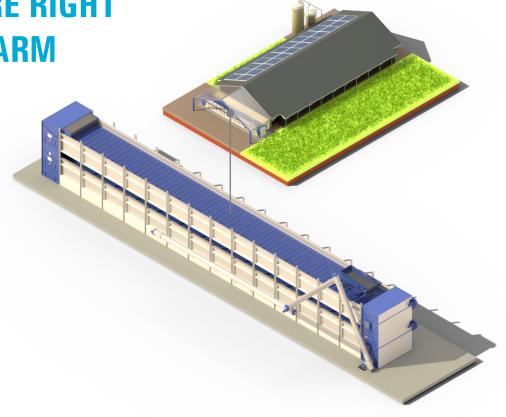
USING THE WARM FARMHOUSE AIR

Farm air of 20°C or more is normally sufficient to dry the manure produced.

The manure is removed from the barn daily and put on the dryer belt. There it stays for 2 days. This limits the conversion to ammonia and optimizes the nitrogen content in the final product.

The system is recognized as an ammonia and particulate matter reducing technique: 55% reduction at farm level (E.6.4.2 / BWL 2007.03)

The manure is dried by allowing the farm air to flow through the manure on the belt. As a result, the moisture in the manure evaporates until a dry matter content of approx. 84-88% is reached.





20,000 – 220,000 hens per dryer



Organic fertilizer is a valuable result



Uniquely low in energy consumption



Reduced ammonia, odour and dust emissions

HIGHLIGHTS



Uniquely low in energy consumption

The drying belt of perforated steel plates instead of a woven belt, results in a much lower air resistance.

24/7

Dries manure 24/7

The system works fully automatically and can be monitored remotely if necessary

800

Already 800 systems delivered

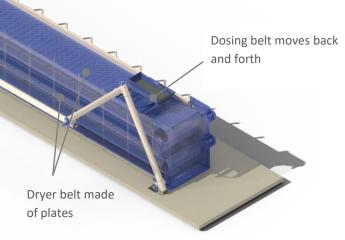
The Dorset dryers have been extensively tested in the field.
Currently, more than 800 systems are operational worldwide.

DORSET G M

GREEN MACHINES

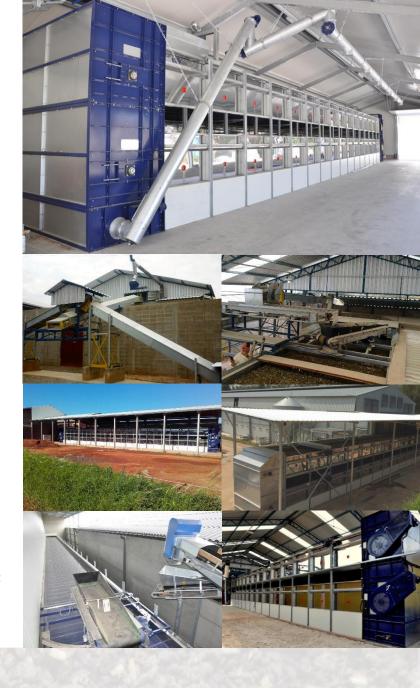
DRYING SYSTEM WITH STEEL PLATES

THE MOST COMMONLY USED SYSTEM FOR DRYING POULTRY MANURE



The dryer is made up of belts made of steel perforated plates with a smooth coating. This belt does not need a cleaning system.

While the manure is on the belt, the farm air is forced to pass through the belt and manure, achieving optimal contact between air and wet manure. The floor of the dryer contains an automatic cleaning system.



KEY FEATURES



Dosing belt applies loosely

On the dryer belt so that the manure can be applied wet, without pre-drying in the farmhouse.



Belt of steel plates

It cannot break and allows a thick layer (15 - 18 cm). This makes the system more compact.



Approved dust reduction technique

Approved as ammonia and fine dust reducing technique. 55% reduction at barn level (E.6.4.2)



THE DORSET PELLET FACTORY

TURN-KEY SYSTEM

Dorset has developed an integrated pelletizing line with all the necessary operations for pelletizing and sanitizing (70°C) dried poultry manure on a small scale (400 kg/h - 2,000 kg/h).

The system makes a compact and attractive manure pellet, suitable for storage, long-distance transport and export certification procedures.

Crusher

Dosing auger

Pellet press

Dust collection



Sanitation

Cooling

Pelleting line 2000 kg/h



Exportable end product



Packaging and bunker options

ORGANIC FERTILIZER

The dried product of laying hen manure is a basic fertilizer for various crops, special vegetables and fruit. The organic pellets contain a high percentage of organic matter and many essential trace elements such as Fe, Mn, B, Mo Zn, Cu.

Average levels when using laying hen manure:*

Dry matter	90 %	K2O	2,3 %
Organic matter	65 %	MgO	1,1 %
N total	4,0 %	CaO	9,3 %
N-organic	3,6 %	рН	7
P2O5	2.5 %		

^{*}always remains input-dependent





DIMENSIONS AND VENTILATION

MANY DIFFERENT LENGTHS POSSIBLE

When drying with farm air, the dimensions of the dryer are adjusted to the number of animals in the farmhouse. This number of animals per square meter of drying surface, depending on the climate, is 400-600 animals per m2.

The farm air goes partly through the dryer (1 to 2m3/h. per hen). The remaining air (summer ventilation) leaves the farmhouse directly.

For example, a dryer for 80,000 – 120,000 hens is 27 meters long, 2 meters wide and 3 meters high.

Dryers are up to 3 meters wide and 40 meters long.



QUOTES AND QUESTIONS

For questions about prices, ventilation, filling cycle, dimensions for your case and the like, please feel free to contact us at:

+31 (0)543 745401 gm@dorset.nu

We are happy to help you.



1 belt - 2 layers



2 belts - 4 layers (standard)



3 belts - 6 layers

OVER DORSET GREEN MACHINES



The complete package

Dorset can provide a total solution, with its own products, and we have everything in-house: sales, engineering, production, service.

1995

Produces since 1995

Dorset is a global leader in the design and manufacture of drying technology and related products.



European quality

Our head office is located in the Netherlands and we mainly use Dutch and German manufacturers for the supply of parts.













MORE INFO AT WWW.DORSET.NU

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