Milling and mixing systems
for the production of feed mixes

Big Dutchman®
The trend toward using home-grown cereals for the production of mixed feed is increasing. This permits the farmer to produce individual feed mixes of known quality, saves transport costs and makes for more flexibility. Big Dutchman can offer you the respective technology:

- 4 drum cleaners for all types of crops
- 4 hammer mills with a high capacity
- 4 filters which reduce moisture and dust
- 4 different dry mixers (diagonal, horizontal)
- 4 silos for indoor and outdoor use in different sizes for grain storage, storage of additional raw materials and of the finished mixed feed
- 4 containers for premixes and micro ingredients

Planning and project development of such systems are always based on a thorough review of needs. Every customer receives a custom-designed solution adapted to the individual requirements on the farm.

**Drum cleaners**

**effective cleaning of crops**

Big Dutchman offers two different drum cleaners for crop cleaning prior to grinding: drum cleaner T1 and drum cleaner T80/100. The drum cleaners remove stones, sand and large particles from the crops.

### Advantages of the drum cleaner T1

- high efficiency;
- high cleaning effect → better animal health;
- a simple design with few movable parts → low maintenance costs;
- good adjustability;
- option for replacement of the screen, and many available screen sizes → can easily be adapted to different crops;

**Drum cleaner T1** consists of an inlet for uncleaned crops, two outlets for sand and larger cleaned particles, and an outlet for cleaned grain. The drum cleaner is a simple construction which provides high-quality cleaning. It also comprises an outer screen for sand cleaning and an inner screen that sieves larger particles.

Drum cleaner T80/100 has been developed according to the same principle as drum cleaner T1 with an inner and an outer screen. An air separator is mounted in the inlet and removes dust and other light particles. Drum cleaner T80/100 has a high capacity of up to 80 t/h barley and 100 t/h wheat.

Drum cleaner T80/100 is mobile and can easily be moved between silos and used in the milling plant after harvest.

### Advantages of the drum cleaner T80/100

- the drum cleaner is mobile and has many mounting options;
- a simple design with few movable parts → low maintenance costs;
- high cleaning effect → better animal health;
- high efficiency and capacity of up to 80 t/h barley and 100 t/h wheat;
- option for replacement of the screen, and many available screen sizes → can easily be adapted to different crops;
Hammer mills
for evenly-structured feed

The Big Dutchman hammer mills operate with a driving power of 11 to 45 kW. Depending on the requirements, for example fine grinding or feed with more structure, different mills and screens are used. The special milling control system ensures that the dosing auger supplies the mill with the type of material that is to be milled. This means the delivery rate is automatically adapted to the type of material to be conveyed. The ground meal can be transported by means of different conveyor elements (bucket or chain conveyors or trough augers). The type of mill installed (single, double or parallel mill) depends on the throughput requirements.

Advantages of hammer mills

- High capacity, also for fine grinding;
- Even feed structure;
- Mill grinds in both directions -> even wear of the screens;
- Screen cleaner and metal collector for high performance and a longer service life of the mill;
- Rugged construction;
- Dust filter for better hygiene;
- Designed for easy maintenance and a long service life of screen and hammers;
- All parts of the mill are mounted onto a frame which minimises the installation requirements on site;
- Cools down the ground feed.

Filters
reduce moisture and dust in milling plants

Big Dutchman offers three different filter systems:

- DustFilter 30/80
- DustBuster Easy
- DustBuster XXL

The custom-made filters ensure an effective separation of the dust particles, which occur as a result of the grinding process. The filter bags made of a coated synthetic glass fibre material provide maximum air penetration while capturing the dust particles in the filter. Our filter systems are available in many sizes and can be adapted to any milling plant.

Advantages of Big Dutchman filter systems

- Improved capacity of the mill and work environment;
- Effective separation of dust particles and moisture reduction in the milling plant;
- Multiple systems and sizes available -> can be adapted to any plant or machine;
- Maximum air penetration;
- Suitable for existing and new plants.
solutions for small and large operations

**Dry mixers**

**high mixing accuracy, versatile use**

The diagonal and horizontal mixers offered by Big Dutchman can be used to mix different ingredients such as cereals, soya, dry minerals, vitamins and fats to produce high-quality feed mixes.

**The diagonal mixer** is made of heavy-duty aluminium zinc plates and can contain up to 2000 l. In combination with an electric weighing system, raw material intake and quantity can be controlled and the feed mix optimized. The diagonal mixer allows manual filling via hatch.

The horizontal mixer is available in two sizes: 2000 l and 4000 l. The mixing capacity can be increased by installing additional bins before or after the mixer (modular design). Three or four load cells ensure accurate weighing. The entire mixer can be cleaned by means of an opening at its bottom which can be opened and closed automatically or manually.

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**MicrosDry: dosage of dry products**

MicrosDry is the ideal solution for very small doses. Each container is equipped with an agitator. This enables handling of even ‘dead’ raw materials.

**Advantages of MicrosDry**

- 1-4 pcs. 25 l containers;
- agitator in all containers;
- measures with 10 g. accuracy;
- weighing container of 25 l;
- easy to clean and service;
- the frame provides great flexibility in terms of location;
- option for manual filling.

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**Advantages of the diagonal mixer**

- simple system, suitable for small milling plants that produce max. 1 t/h;
- easy access through hatch;
- easily mounted on load cells, thereby achieving optimized feed mixes;
- option for manual filling.

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**Advantages of the horizontal mixer**

- double, counter-rotating steel screw along the entire length of the mixer;
- high mixing accuracy (1:100 000);
- very good mixing quality, including small amounts;
- low wear;
- short mixing times;
- maintenance-friendly cleaning opening for better hygiene;
- residue-free emptying;
- double alloy shaft ensures long life of the rotating screw.
Silos for indoor and outdoor use
for storage of primary ingredients and finished feed mixes

Big Dutchman can offer their customers a variety of silos made from different materials and in different sizes for safe storage of ingredients and of finished feed mixes. The number and size of the silos are planned according to the individual requirements on a farm.

For slow-flowing materials there are special auger silos available.

Hoppers for minerals and premixes
for storage of small amounts

Different types of hoppers are available for premixes and other additives.

✔ hopper T 100 for 0.5 m³
✔ hopper T 150 for 0.65 m³
✔ hopper with agitator for 0.45 m³; for slow-flowing premixes.

Other sizes are available on request. Augers (102 mm diameter) or spirals (75 mm diameter) transport the additives from the hopper to the mixer. If a hopper with agitator is used, the material is exclusively transported by means of augers (102 mm diameter).

Indoor silos for storage of ready-prepared mixes
Outdoor silos for storage of ingredients

Hopper for minerals in BigBags
Hoppers for minerals up to 2 t
We recommend ...

In addition to the milling and mixing systems described in this brochure, Big Dutchman also offers you a variety of additional products to complete an installation. This includes, for example, conveyor spirals, bucket and chain elevators, tube and trough augers. Let our experts advise you on the different possibilities Big Dutchman can offer you for successful production of home-grown feed, including on-farm grain treatment and storage.