



Big Dutchman®



WetMIX

Liquid feeding systems for weaners, sows and finishers.

Liquid feeding systems for weaners, sows and finisher

Amongst experts, for a long time liquid feeding systems have been regarded as one of the most advanced feeding systems in modern times. Extended by the connection of a special control computer, this system setup is a reliable and successful form of modern pig-keeping. Big Dutchman is one of the most

experienced specialists in the design of customized, tailor-made systems since we at Big Dutchman also tackle difficult problems in particular and grapple with the technical challenge. To be able to carry out the correct system planning in each case, our professionally qualified sales engineers take a detailed look at the

requirements of our customers and obtain information on local conditions and supposed problems. Internally developed and programmed software enables us to elaborate and realize the correct system solution right down to the last detail.



Finishers at a sensor trough



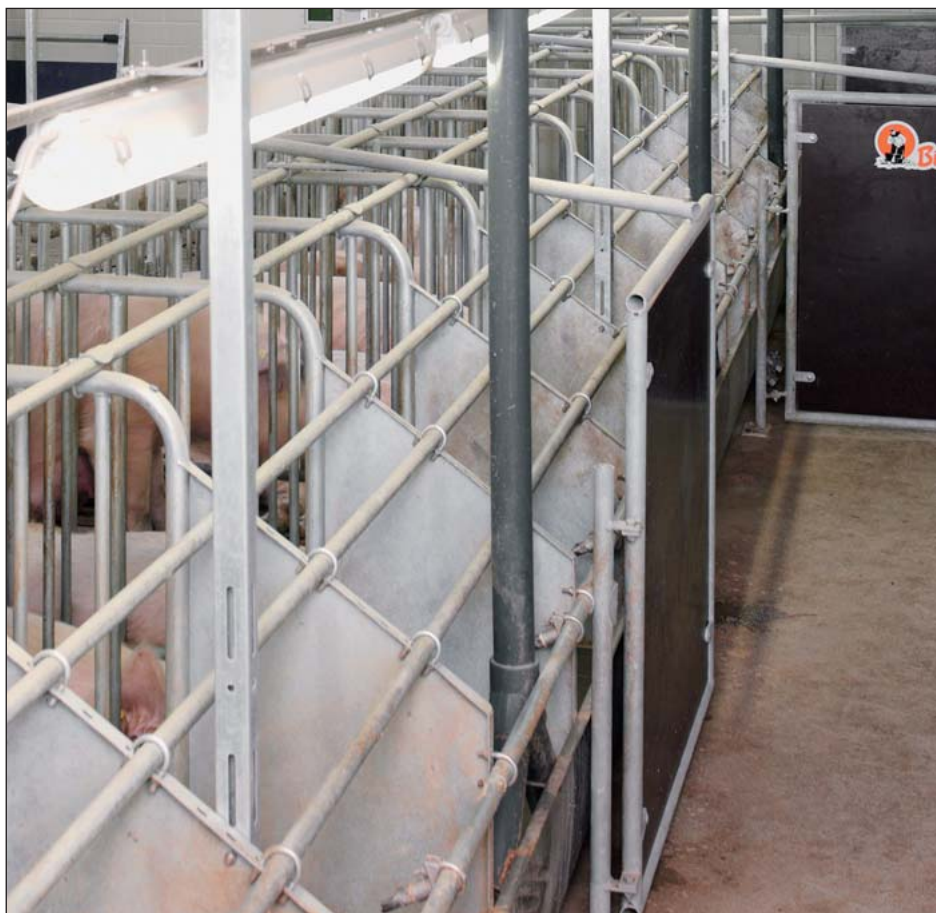
Farrowing pen with feed trough for liquid feed



Feeding of finishing pigs with WetMIX

Anyone with a choice chooses WetMIX

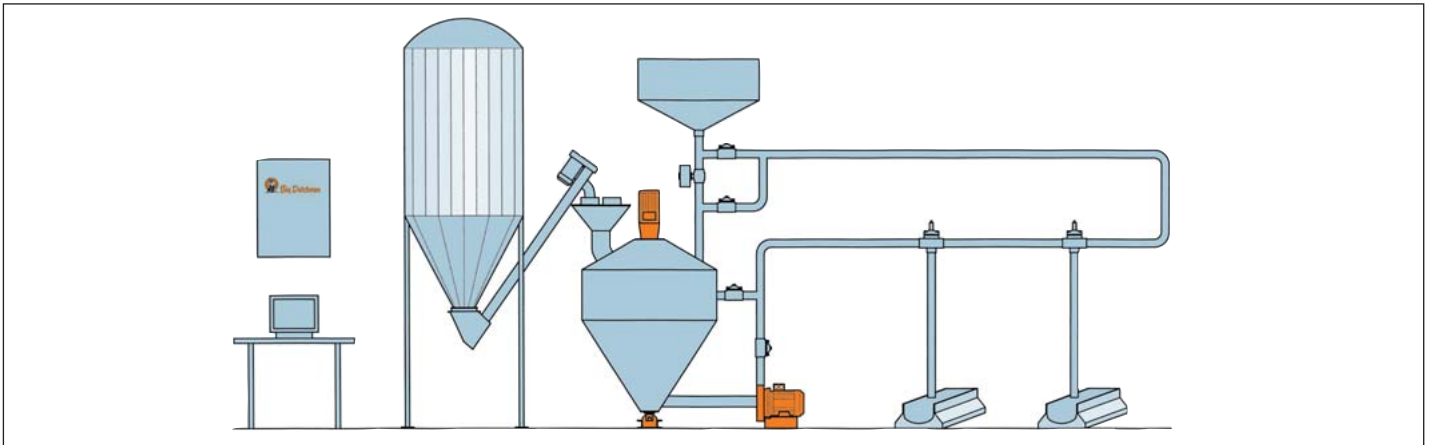
The Big Dutchman **WetMIX** liquid feeding systems are all computer-controlled, individually assembled and programmed for each pig house. All system parts, such as silo screw conveyors, weighers, pumps, feed mixing vats and all feed valves are therefore matched to each other and optimally coordinated according to the pig yield required. Different feed mixes are made up per feeding for various animal groups. This so-called phase feeding enables the animals to be given the correct quantity and composition of feed according to their age. Depending on the system version either water, feed or air will remain in the pipes after feeding. All systems are extendable and can be upgraded as required.



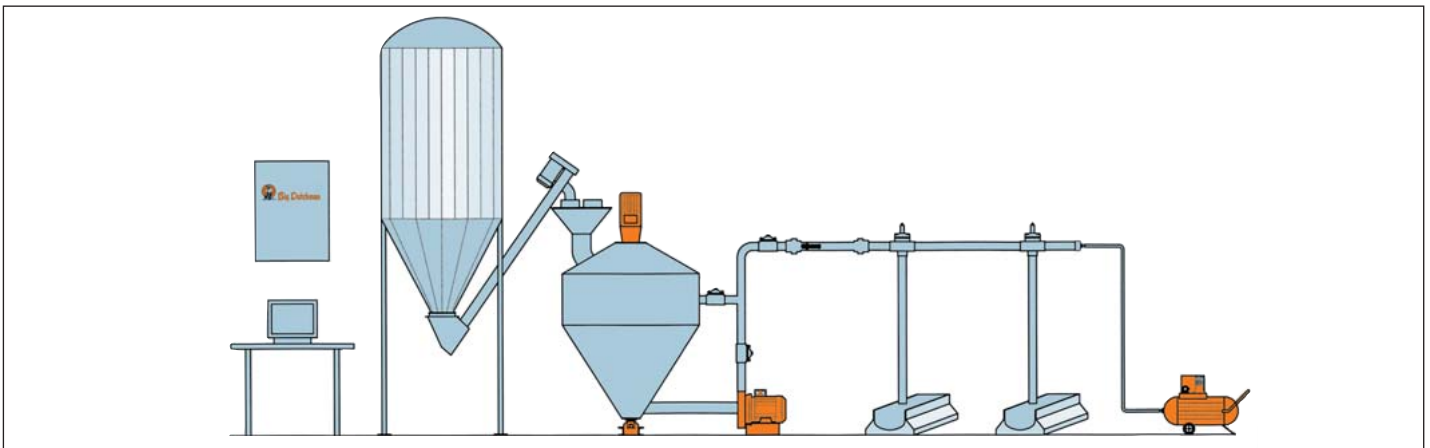
Gestation sows with feed trough for liquid feed

System type	Description
BASIC A+B	Feed remains in the pipe or ring pipe
BASIC C	Water remains in the pipe after feeding
BASIC V	Same as BASIC C but with an additional weighed intermediate tank for faster feeding
SPEED	Two-tank-system for large projects

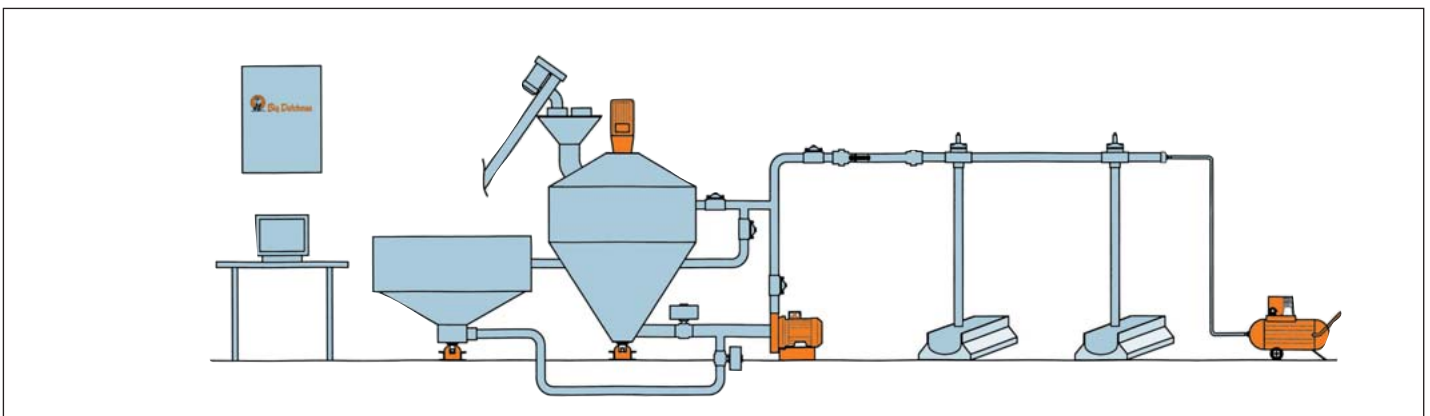
System type	Description
PipeJET	The air pressure powered JET cleans the pipe. Feed revaluation possible.
PipeJET V	Same as PipeJET and with an additional tank for dosing small quantities at longer distances
NetFEED A+B	Mixing tank and dosing tank in different barns.



WetMIX BASIC C system diagram



WetMIX PipeJET system diagram



WetMIX PipeJET V system diagram

Everything depends on the mix

Dosing of feed components into the mixing tank is monitored by the computer. For mixing, the components flow into the feed mixing tank, the mixing ratio of the mixes being freely selectable. Any feed or rinsing

water remaining from the previous feeding is taken into account in the following mixing process (residual quantity management). The mixing tank and the intermediate tank can be provided with cleaning equipment.



Stainless-steel feed mixing tank – small model



Stainless-steel feed mixing tank – large model

Well-weighed is half-won

A weighing bar is fitted below each mixing tank foot. It checks the changes in weight in the feed mixing tank

and passes the data measured on to the feeding computer.



Weighing bar for electronic weighing

The stonetrap

The stonetrap contains adjustable tines and magnets so that almost all metallic and nonmetallic objects can

be removed from the feed. Regular cleaning increases the efficiency of the stonetrap.



The PSI-feed valve

The PSI-feed valve has been developed in order to enable feeding of smallest quantities. Air pressure allows the valve to close in a quiet manner instead of

snapping shut. The absolute silent dosing of liquid feed is most beneficial in sow barns.



PSI-feed valve cross-section



PSI-feed valve

Sensors for the feed trough

The **BioControl** sensors in the feed trough record the time, pigs need to clean up their trough. The recorded time affects the following feed quantity to be dispensed.

They are the »eyes of the barn manager« and make frequent manual adjustments of the feed quantity unnecessary.



BioControl sensor

BioControl

- a) feeding more often, approx. 6 to 12 times a day
- b) varying the feed quantity at the respective feeding times depending on how fast the animals eat up their feed.

A large number of factors, such as barn temperature, humidity, state of health, etc. influence a pig's appetite and thus its speed of feed intake.

Utilization of growth potential

Pigs appetite tends to vary during the day and in the course of longer time periods. Feed intake and the growth potential of pigs will be fully utilized.

Feed intake plan

According to the eating times, which are entered in the »feed intake plan« of the program, the pigs will either receive a feed bonus or a deduction in the next feeding cycle.



TopCLEAN

The **TopCLEAN** cleaning system offers a simple and professional solution of regular cleaning of mixing tanks. With the help of air pressure, an acid or alkali cleaning solvent is sprayed or »fogged« into the mixing tank. Additional nozzles allow water rinsing after fogging.



The medicator

The medicator works parallel with the first feed valve. Via a separate pipe a special liquid (vitamins or medicine with water) can be injected into the feed flow. This avoids that mixtures of feed and special liquids get to places in the feeding system where they are not desired.

The medicator, consisting of mixing tank, agitator, pump and valves, is available in a mobile and a stationary model. It is operated by the feeding computer and connected to a separate pipe.



Confidence is good, WetMIX is better

Control of **WetMIX** systems is fully automatic and therefore particularly time and cost-saving. It is carried out by a computer in the feed control center. From here, the entire feeding sequence is coordinated automatically. The feeding control center can be controlled by additional personal computers in order to save administration.

It is possible to transfer the commercial data to most modern fattening analysis programs. Several weighing bars can be connected.



For good reasons

The advantages of WetMIX systems

- Customized adaptation of the system according to local conditions due to specially developed software
- Low feed costs due to quantity optimization
- Bridging of long feed distances
- Assured feeding hygiene
- Extendable system designs
- Mill control with additional weighing
- Dust-free feeding system
- Environment-friendly feeding

The advantages of the control computer

- Very user-friendly
- Well-balanced feeding due to specific feed curves
- Monitoring of each individual process
- Individuell valve monitoring with automatic correction
- Comparison of target feed quantity with actual quantity fed
- Remote control with data transfer and data back up from PC
- System control over any distance (telephone modem)



Big Dutchman®

USA

Big Dutchman Inc. – Pig Division
3900 John F. Donnelly Dr.
Holland, MI 49424 · USA
Tel. +1-616-392-1882 · Fax +1-616-582-4118
e-mail: bigdpig@bigdutchmanusa.com
www.bigdutchmanusa.com

Germany

Big Dutchman Pig Equipment GmbH
Postfach 1163 · 49360 Vechta · Germany
Tel. +49(0)4447-801-0
Fax +49(0)4447-801-237
E-Mail: big@bigdutchman.de
www.bigdutchman.de