



# DATAMIX MULTIFEEDER 5000



SKIOLD MAKES THE DIFFERENCE!



## LIQUID FEEDING SYSTEMS DATAMIX MULTIFEEDER 5000

- Easy operation
- High degree of data-protection
- Super survey



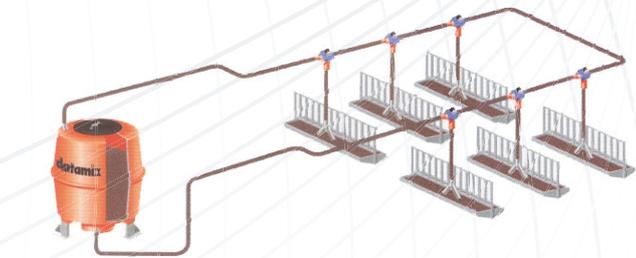
**CENTRALSILO**  
systems Ltd



# Effective feeding - Advanced without complexity

## Alternative system solutions for handling different recipes in feed circuits

Depending on feeding-strategy, mix of herd and recipes, you will always have an optimum feed-solution for your herd with Multifeeder 5000. Depending on need, you can choose amongst a norm-system, a phase feeding system or one of our solutions for emptying the circuit pipes and mix-tank.



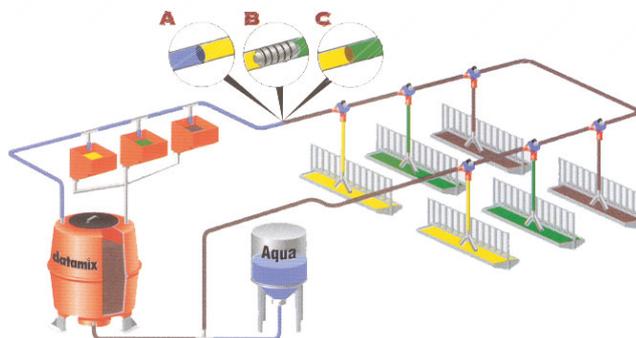
### Normsystem

The norm-system is understood as the traditional way in which a liquid feeding is installed. The feed remains in the pipe between feedings. In this type of system, the Multifeeder 5000 can calculate the quantity of the individual components resting both in the mixing-tank and in all parts of the pipe-system. Thus the system is capable of compensating the various recipes. Depending on the present conditions under which mixing can take place, an optimal feed-mix will be reached. Multifeeder 5000 will always inform you exactly what is being fed and by itself adjust for changes in feed-value and contents of liquid.



### Phase feeding

The basic principle in a phase-feeding system is that 2 separate mixing-tanks individually make up a recipe with a high respectively low content of protein. From each mixing-tank a separate circuit is leading to the stable(s). The pipes run parallel over the pens and through a feed-valve from each pipe these are connected to the drop pipe of each pen. As the 2 valves open simultaneously it is possible to mix the exact blend of protein, which is adjusted to the growth-phase of the pig. Next to profitability in feed-consumption you will experience a considerable reduction in phosphorus and nitrogen of the manure.



### Pipe cleaning

Should you wish to minimize or eliminate the remnants in the pipe, you are offered 3 alternatives with Multifeeder 5000. By "pushing" the remnants the pipe can be emptied by the new mix (C). Alternatively you can choose to "push" the remnants with water (A) or by inserting a "mouse" as a partition between feed and water (B). These 3 systems of emptying the pipes (maybe integrated with rest-tanks) offer you the possibility of distributing several blends without the problems of having remnants.

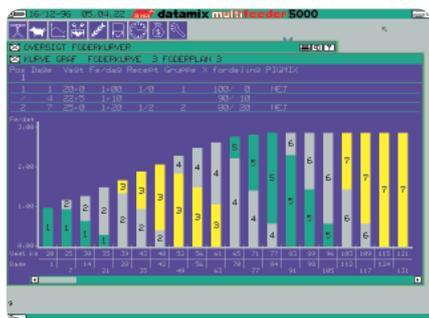
## Advanced Liquid Feeding

The Windows-system makes it possible to tailor a system, which will correspond with your specific needs. A flow diagram of your exact system will be shown. Changing colours between the current machinery components, when active will show pictures of all activities.

There is a free access to data by clicking symbols, i.e. silos, mixers, valves etc. likewise you are offered quick access to data via menu-icons or function-buttons. For protection of data, a multi-stage password can be encoded, which ensures that only qualified staff will get access to important data. The system has a built-in help menu/operation manual. Should alarms occur, this will be highlighted with red in the screen-picture. By clicking the mouse you can activate and stop the various machinery-components. This offers you a possibility of operating the system manually. The command you enter through activating the screen-graphics are carried out immediately - what is easier!



# Easy operation • High degree of data-protection • Super survey



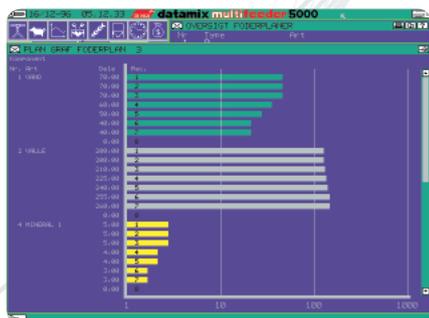
## recipe Optimized Feed mixing

Multifeeder 5000 makes it possible to run advanced feeding strategies with a traditional feed plan or a feed plan with up to 8 changes in recipes. As a novelty, MULTI-RECIPE can also be used in pens of bigger stable sections, in which the recipes are changed daily according to the optimal growth conditions – everything is shown graphically on screen. For each feed plan, the contents of the chosen feed components are shown graphically on plan respectively recipe-level. best possible tools to control the feeding of pigs.



## Silo Control

A general view of the raw materials in the silos and the alarm limits is indicated on the screen in each their colour. Simultaneously you can choose a picture over-viewing all silos, which enables you to have a quick survey of the consumption of raw material, the stated feed-value, value of dry matter, priority of emptying of the silos etc. All raw materials can be set up with price, stock and contents of up to 10 nutrients (optional), as well as a possibility for interval-agitation and re-circulation in storage-silos. A new and user-friendly function is the automatic calculation of current average values, when refilling silos not fully emptied.



## Survey of components feed plan

Here you are offered a survey of the contents of the various components in each of the chosen feed-curves. This offers you a good survey how the various components change in quantity in different recipes in a finishing stable. This is a good example, how the graphics in the Windows-system are used for the purpose of creating a super survey, which easily disclose wrong key-ins. Wrong key-ins normally lead to operational losses. The reproduced examples of “clicking” into informative and graphical surveys are only a minor extract of the ones offered by Multifeeder 5000 to the pig-producers, demanding the best possible tools to control the feeding of pigs.

## Userfriendly and feeding-effective functions:

- Tail control for each value
- Automatic calculation of re-mix for ad-lib feeding
- Automatic transfer of valve data when transferring pigs
- Summary of MJ/Kg growth, and pen days on value- and group level, upto 99 groups
- Automatic transfer of data to efficiency-control
- Individual setting-up of valve data for sows, fatteners or multi-valve
- Key-in of own information/ recording on each valve
- Automatic calculation of feed-start for ad-lib feeding
- Control of distribution-speed individually per valve
- Automatic calculation of mix-quantity for ad-lib – to minimize remnants
- Split of day-ration is free of choice at different times
- Distribution of several recipes on the same feeding-
- number
- Graphic survey of the operation time on mixer during the last 24 hours
- Remaining quantities are kept in memory at component-level, which offers big precision in the estimation of remaining quantities
- Split up of double-pens in A and B pens at 1 feed-valve
- Possibility of printing all data, amongst other things automatic print of mixing- and
- feeding-data
- Summary of feed-consumption from recipes can be split up into component-level, including the components of remaining quantities
- Upper limit per day per valve for ad-lib feeding



The mix-tanks are equipped with a drain, which helps to reduce remaining quantities, as well as a cleaning door with a mounted magnet to sort out any metallic foreign bodies. For storage of remaining quantities rest-tanks can be integrated with the main mixing tank. Furthermore, they will be an incorporated part of the pipe cleaning system, in which old recipes are being "pushed" out by new ones. Both the rest-tanks and mix-tanks are equipped with automatic cleaning system.



The new DM5 feed valve of datamix has been developed to withstand future demands of secure operation and easy service. The valve is equipped with a stainless rough-boring angle and stainless bolts, which makes it easy to dismantle. The rubber-diaphragm is made out of 2 layers of rubber, which are vulcanized around a heavy fibre-net. This assures a powerful diaphragm with optimal life span.

#### Pigmix means ad-lib feeding

Years of experience with ad-lib feeding has resulted in the fact that datamix also here offers a unique program. Functions like:

- Automatic calculation of appetite at different times of the day
- Automatic calculation of mix-quantity
- Alarm for lacking appetite at individual valves
- Choice of requested quantity per

time per valve

- Restriction on feed consumption per valve are all functions, which, over the years, have turned out to be useful tools for a successful implementation of the ad-lib system.

## Network-communication

The Multifeeders concept has been constructed based upon the standardised international P-net communication. For you this

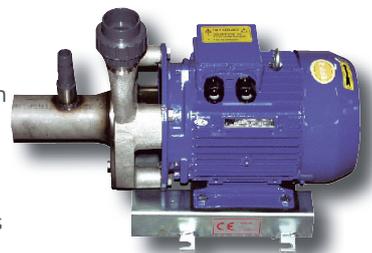


#### Simultaneous mixing and feeding:

Multifeeder 5000 offers possibilities for mixing and feeding in upto 7 mixing-systems, dry or liquid. You are offered in-take from 60 raw material silos and mixing of countless recipes. Independent of each other, several mixers can feed to i.e. sow stable and finishing stable, while feed is being mixed to other stables. Speaking of bigger stocks, a basic mixer can for instance mix to several feeding-tanks. This means savings on the mill-/mix-equipment.

#### Reliable pumps

The installation is equipped with tested pumps. All pumps offer high performance and safe operations. Centrifugal pumps, which have completely stainless steel working parts and housing, are supplied with 4.0 or 5.5 kW motors. In special cases and in connection with extremely long circuits the screw pump is offered.



means easier access to other management-programs as well as to communication to the outside world. The hand held computer is also connected to the P-net and produced to withstand the rough environment. Apart from transmitting and receiving data from the Multifeeders control unit, the hand held computer can also be used for direct transmission to a personal computer and to update management-programs.

