

New Products

Agromek January 2008

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Contents

Arable farming

Tractors and power machines	
Tractors and ATVs	4
Spare parts and components for tractors, machines and implements for fieldwork	4
Electronics for fieldwork	4
Fertilizing	
Spreading of commercial fertilizers	5
Control of weeds, diseases and harmful insects	
Field sprayers	5
Harvesting of verdure and straw crops	
Choppers, verdure harvesters and mowers	6
Equipment for combine harvesters	6
Grain treatment	
Drying, cleaning and storage	7

Livestock farming

Feed preparation, feeding and watering	7
Feed preparation, feeding and watering - for cattle houses	7
Feed preparation, feeding and watering - for pig houses	8
Feed preparation, feeding and watering -for horse stables	13
Ventilation, air purification, climate and heating of livestock housing	13
Milking (<i>see Tools and Cleaning page 26</i>)	15
Dung clearance, treatment and storage of manure/slurry	18
Fittings, equipment and building components - for cattle housing	19
Fittings, equipment and building components - for pig housing	19
Fittings, Equipment and building components - for poultry housing	22
Articles and tools	22
Feeds, feed additives and pharmaceutical products - cattle	23
Feeds, feed additives and pharmaceutical products - pigs	24
Feeds, feed additives and pharmaceutical products - poultry	24
Other aids	25

Transport, Cleaning and Maintenance	
Transport equipment and loaders	25
Tools and Cleaning (<i>see Milking page 15</i>)	26
Care of hedgerows and verges	26
Power and Heating	27
Water and Sanitation	27
Buildings and Building components	28
Managemant	28
Garden / Parks (<i>see Tractors page 4</i>)	30
Forestry	31
Contractors' Machines	31
Feed, Grain and Seed - Industrial plant	
Management and administration	31

Arable farming

Tractors and power machines

Tractors and ATVs

- ★ **Fog A/S, Henrik A. - Stand No. C-2712**
Carraro Agriplus F105 4 WD is a small standard tractor with a lifting capacity of 2.5 tons. It has automatic engagement of 4WD and 24x24 stage gearbox with crawl gear so that it can be applied with, e.g., stone laying cultivators.
- ★ **Præstbro Maskiner A/S - Stand No. C-2708**
Valpadana 4500 VRM is a series of compact tractors with a width of only 112 cm. These tractors are built on the same principles as the 6500 series, yet are much smaller. Available with motors of 29 hp and 36 hp.

Spare parts and components for tractors, machines and implements for fieldwork

- ★ **Dani Trading A/S - Stand No. H-6304**
Eurocardan ME2, wide angle, PTO shaft. This is a slim-line, wide angle, PTO shaft for application with less effect demanding machines. It has a lubrication channel via the steering disc and can operate at an angle of up to 80 degrees with lighter loads.
- ★★ **Walterscheid Danmark, GKN - Stand No. H-6124**
Cramer Kugletravers Q 80 is a towing bar for installation on the tractor's drawbar. It is equipped with a ball for ball linkage and is intended for application with, for example, towed cultivation machines. This towing bar enables sharp turns and avoids wobble. It can be supplied for large category 3 and 4 tractors.
- ★ **Walterscheid WKS Top bar claw category 4** is a heavy-duty claw for application on large tractors from 250 hp and upwards. It is supplied with a ball linkage.

Electronics for fieldwork

- ★★ **Datalogisk A/S - Stand No. D-3106**
Næsgaard Mark NET is a new development of the earlier Næsgaard MARK. This applies the latest principles in Windows. The NET platform and data are stored in a Microsoft SQL database. The program is optimized to function with Terminal or Citrix servers, so that an advisory centre is able to provide the farmers with on-line access to their field data. It can operate in network so that several users can apply the program simultaneously.

- ★ AgLeader EZ-Guide 500 is a new technology within GPS tracks. It has an easily readable 7" colour screen, light bar, field chart functions with the facility of exchanging data with Næsgaard Mark via USB, plus an upgrade facility for automatic control.

Fertilizing

Spreading of commercial fertilizers

- ★★ **Stenderup Maskiner A/S - Stand No. M-9616**
Sulky X 12-44 fertilizer spreader is a newly-developed range of lift suspension spreaders with Tribord 3D edge spreading equipment. The changeover to edge spreading can take place from the tractor cabin. The X 36 is available with up to 3,000 litre tanks and 12-36 m spreading width. The X 44 is available with up to 4,000 litre tanks and a spreading width of 24-44 m. These spreaders can be fitted with GPS equipment.

Control of weeds, diseases and harmful insects

Field sprayers

- ★★★EUR **Hardi International A/S - Stand No. C-2702**
Hardi Navigator trailer spray is available with 3,000 or 4,000 litre tanks. It has a 35 litre TurboFiller preparation filler in which the fluid is subjected to a powerful rotation by a fluid-powered TurboDeflector in the form of a ball with carriers. It also has IntelliTrac track following equipment which, via the assistance of electronic and proportional hydraulics, ensures precise tracking without altering stability. The tank is specially designed to reduce splashing. The suction filter is fitted with a vacuum gauge so that one can see if it is becoming blocked. There is also a Boompriming function so that the boom can be correctly filled with the relevant fluid prior to spraying operations. There is also a 500 litre clean water tank for flushing the tank on location in the field.
- ★★★DK **Hardi Autoheightcontrol (AHC)** has new sensors which can differentiate between crops and soil so that the automatic height control of the spray booms, type Hardi Force and Twin Force can better follow the crop heights. The height of the boom's sections is controlled by proportional valves so that the boom does not suddenly alter height if the crop is laid down or does not exist in the particular area of the field. It has 6 ultrasonic sensors - three on the boom and two for measuring the angle of the central section. The last sensor is a temperature sensor for reading the temperature of the hydraulic oil. The system can be adjusted to either measure the distance to the soil or to the crop.

Kydestoft Maskinfabrik ApS - Stand No. C-2802

- ★★★EUR Kydestoft cyclone nozzle is a spray nozzle for installation on pneumatic sprays. The nozzle is fitted on the air outlet so that the air rotates to retain the fluid droplets. The purpose is to ensure an increased distribution within the desired area and to minimize wind drift. The nozzles make the air cyclones rotate against each other.
- ★★★EUR Kydestoft Telescopic-Air is a telescopic, fibreglass air boom. The operating width can thus be adjusted by merely drawing the boom out to the desired length in the same manner as a radio antenna.

Harvesting of verdure and straw crops

Choppers, verdure harvesters and mowers

Spearhead A/S - Stand No. H-6204

- ★ Spearhead 420 Multi Cut is a 3-point suspended rotary cutter which is based on the Multi Cut series. It has hydraulic fold away for the side wings.
- ★★ Spearhead Star Cut is a blade system in which an extra set of blades is fitted in connection with the machine's standard blades. These blades are 20 cm longer than the standard blades. This results in a suction effect and extra chopping. The purpose is to shred the stubble residue without applying a cutter bar.

Equipment for combine harvesters

DK-Tec A/S - Stand No. M-9620

- ★ Biso Cutting bar truck Tandem is a heavy-duty bogie truck that can be applied for the transport of cutting bars of up to 30 feet in length. The bogie makes the truck less susceptible to uneven surfaces.
- ★ Biso VX CropRanger is a cutting bar for combine harvesters on which the cutting bar blade can be adjusted 70 cm forwards or backwards. This adjustment can be operated via hydraulics from the operator cabin. The cutting bar is available in three types: Trend, High and Premium. For example, the customer can choose a cutting bar with hydraulic angle adjustment. The cutting bar can be adjusted to suit the majority of machines on the market and can also be adapted to suit second-hand machines.

Grain treatment

Drying, cleaning and storage

- ★ **Jema Agro A/S - Stand No. D-3304**
JEMA T 32 is a helical channel for the transport of grain, feed additives and milled goods. It is designed for the optimum filling of silos. The intake is located in the middle of the channel. Apart from the first 500 mm, there is no base plate and the grain, etc. therefore falls through in accordance with the available space below the channel. The helical direction can be changed.

Livestock farming

Feed preparation, feeding and watering

- ★ **Big Dutchman (Skandinavien) A/S - Stand No. J3-7706**
DustBuster Mølleri filter is applied in connection with a beater mill. The filter consists of a pipe with an integrated filter and a vacuum cleaning device at the top. The filter applies suction during the milling process and is cleaned with high pressure air every 30 seconds. Due to the filter being positioned above a helical channel, the meal particles that are removed when cleaning are collected on the filter. Due to frequent cleaning of the filter, the beater mill's capacity is increased and the excess heat is removed thus avoiding condensation problems.

Feed preparation, feeding and watering - for cattle houses

- ★ **Boss Produkter a/s - Stand No. J1-7100**
Automatic calf feeder „Vario“ with IFS-4-teat-feeding and Full-ISO-RFID „Multireader,“ type TAP5-VH1-38-P2 / TAK5-VH1-38-P2, is an automatic milk feeder for calves. This automatic feeder can dispense milk, milk substitutes, and water plus additives such as vitamins and minerals. Available as stand alone or PC-based. An automatic feed concentrate feeder can be connected to the same control (PC-based). A foreleg weigher can be fitted. The Multireader operates via transponders or electronic eartags (according to various standards). Can operate with up to 4 drinking points.
- ★★★EUR MaxiSteam type MS1-PS3-90 is an automatic machine for pasteurizing calf milk. The pasteurizing unit has an integrated cooling function and, if the milk is to be stored for a period, an automatic acidifying system and cooling tank can be installed. Systems for pasteurizing calf milk are new on the market and MaxiSteam is the first on-farm system of this type. Pasteurizing calf milk will contribute to definite improvement regarding calf health.

- ★ **DeLaval A/S - Stand No. G-4702**
DeLaval feed truck FS1600. Rail suspension feeding system for full feed mixes/roughage. Can operate with up to 1,000 kg mixed feed. This feed truck can be linked up to DeLaval's Alpro management program. Weight dosage feeding.
- ★★ **JF-Stoll Danmark, JF-Fabriken - J. Freudendahl A/S
Stand No. M-9636**
Feed Manager is a remote control weighing system with mobile terminals and display to JF-Stoll's Feeder Full Feed trucks. The weighing cells are linked to a sender that communicates with the hand terminals and displays. The display can, for example, be positioned in the loading machine so that it is always clearly visible for the operator. Direct connection to PCs.
- ★★ **Mullerup A/S, Skiold - Stand No. M-9640**
MM8X, MM82, MM83 and MM84 is a new series of feed distribution tables for Mullerup's suspension rail system (16, 24 and 32 m³). This is a modular series and can be extended in accordance with herd expansion requirements. The feeding table can be installed vertically, horizontally and diagonally. There is an automatic chain tightener and an extra distribution roller can be installed if required. These tables have a much greater capacity than former models.
- ★ **RMH Maskiner ApS - Stand No. M-9738**
RMH 45 m³ stationary vertical full feed mixer with three helical mixing screws. The mixer is powered by a 61 hp electric motor with frequency transformer (soft start). It has a 2-stage gearbox with variable helical screw speed (0-40 r.p.m.). This is the largest stationary full feed mixer on the market.
- ★ RMH Vertical full feed mixer with 2 or 3 helical mixing screws. These are set closer together so that an overlap is attained between the screws. This ensures an improved mixing of the feed throughout the length of the truck.

Feed preparation, feeding and watering - for pig houses

- ★ **ACO Funki A/S - Stand No. J1-7106**
ACO Funki integrated fall pipe for providing wet feeds in farrowing pens is designed to give the sow more space for feeding, to improve hygiene, due to the fact that the trough is easier to keep clean, and to reduce installation costs. The fall pipe, which is constructed of acid-proof material, is fitted on the outer edge of the trough and the inlet is fitted in the bottom.

- ★ FunkiNet non-residue wet feeding is a new principle of wet feeding that increases the capacity of wet feeding systems with non-residue feeding and prevents sedimentation. This is attained due to the fact that the system can pump the feed forward in several stages. This facilitates non-residue feeding from the same feed intake in long feeding lines, even if only small amounts of feed are applied. The system can also pump a thrust medium direct from another tank. This makes it possible to effectuate non-residue feeding on several sectional feeding lines from the same feed intake.

- ★ FunkiMat is a newly-developed automatic dry feeder for piglets and porkers. In comparison to former models, this automatic feeder has numerous improvements. The adjustment handle has been altered so that it is easier to adjust dosage and thus avoid feed wastage. The upper and lower sections of the feed container are assembled by a click system. This system prevents dirt collecting and thus improves hygiene. The feed trough design has been altered so that the feed is more evenly distributed and thus avoiding wastage. The trough is also designed so that it fits tightly to the floor surface and thus simplifies cleaning operations.

- Big Dutchman (Skandinavien) A/S - Stand No. J3-7706**
- ★★★EUR LeakSeek Intelligent valve serie II is a newly-developed valve for wet feeding systems. The valve is equipped with an automatic leakage sensor that automatically registers any leakage in a valve membrane. The system consists of a flow gauge that registers the amount of air that flows into the membrane. The signal from the flow gauge is sent to an electronic amplifier and, in the event of abnormal air consumption, the signal is forwarded to the feeding system control. Due to each valve in the wet feeding system having its own number, the personnel can quickly identify which valve has a defect membrane. LeakSeek greatly simplifies the work involved in finding leakages in wet feeding systems and reduces this problem to an absolute minimum.

- ★ TF-500 is a newly-developed control unit for dry feeding systems. In addition to controlling the individual feeding system unit with a feed chain, feeding point, helical dispersion unit and automatic release of volume dosage, this control unit can be applied for the control of two feeding chains in a series and can be extended with more chains and feeding points within the same program. This new control unit has, for example, the following functions: Manual external start, maximum operating time, up-dating from memory card, SMS reception for alarms and external alarm links. The TF-500 can be applied for all types of dry feeding systems on the market.

- BoPil A/S - Stand No. J1-7104**
- ★ BoPil Spotmix Twin is a further development of the Spotmix I and II systems. Via two weighing and mixing tanks, the system can operate

with two mix recipes and two feeding points at the same time. Spotmix Twin increases the system capacity by ensuring that several pens can be simultaneously supplied with feed and by the fact that feeding can be effectuated at the same time as the system is filling a silo with feed.

- ★ BoPil Visual Touch and Visual Office are newly-developed feed computers for the control of feed production. The program is built up on Windows CE. Visual Touch is an application with a 15" pressure sensitive display which is integrated in the feed system's control cabinet. Visual Office is an application to PC.
- ★ BoPil Spotmix "inline" micro.dos is a dosage unit for the dosage of extremely small amounts of minerals, medicine, etc. to a SpotMix feeding system. The dosage unit is made of stainless steel and the tank is constructed of a transparent material for easier visual control. The feeding system's control logs data concerning the dosages provided to specific pens and time periods involved in order to ensure traceability.
- ★ BoPil Feed sampler, type Transponder is a newly-developed sampler for application for the calibration of electronic feeding points. The sampler is positioned so that the feed falls down into a funnel and fills up the sample bag. The feed sample is then weighed. The bag can be replaced whenever required. The construction of the sampler makes it suitable in many situations, for example, in cases where access is difficult.
- ★ BoPil Envejssluser is a new exit gate for feeding points at which the sows can only move in one direction. The exit gate is designed for large sows, thus ensuring that the sows cannot open the gate from the opposite direction.

Egebjerg Maskinfabrik A/S - Stand No. M-9600

- ★★ Vip-O-Mat is a newly-developed drinker for suckling piglets and combines seven functional requirements. The drinker is easy for the piglets to operate due to the design and pressure exchange of the activating plate. The bottom of the drinker can, with the aid of a spring balanced fitting, be swung down for cleaning. The design ensures that there is a constant water level and it prevents the piglets from fouling the drinker. The output of the drinker can be altered with the aid of an adjustment screw in accordance with the actual water pressure. With the aid of a set of accessories, the water supply line is easily fitted without having to draw water pipes in the sides of the sty. The water is supplied via 8 mm PE tubes which facilitate applying the drinker for liquid iron additives and simultaneously to reduce the water residue in the supply lines. The design and selection of materials ensure that the drinkers are easy to clean.
- ★ VIPlus is a newly-developed dosage unit for the Tube-O-Mat® VIP and Tube-O-Mat® VIPlus automatic feeders. The dosage unit is a cylindrical

barred unit made of stainless steel which is moulded into the dosage disc. Around the barred construction, there is a stainless-steel limitation ring. The limitation ring limits the movement of the feed pipe and makes the dosage unit suitable for both piglets and porkers. One of the bars in the dosage unit is extended up into the automatic feeder. Due to the activation of the pigs, this acts as a stirrer. This minimizes the risk of bridging in the feeder. The screen around the dosage unit is transparent thus simplifying control of hygiene in the automatic feeder. The dosage unit is easily opened for cleaning without the requirement of tools or dismantling of any parts. In the event of breakage of vital parts in the automatic feeder, the dosage disc falls down onto the conical shield above the limitation ring, closes off the feed supply and thus prevents wastage.

- ★ Tube-O-Mat[®] VIPlus is a newly-developed tubular automatic feeder for dry feeds. The automatic feeder consists of a dosage unit (VIPlus dosage unit) and a feed container consisting of a hopper and a lid. The hopper, which is made of plastic, has been designed to prevent bridging as much as possible. Two of the sides are almost vertical. The lid, which is also made of plastic, consists of a fixed part and an openable part. The dome-shaped construction and positioning of the three feed intakes ensure that the automatic feeder is filled efficiently. The openable part of the lid is transparent which facilitates control without having to enter the pen or open the lid. The low positioning of the lid simplifies work if the automatic feeder is filled manually. The water is supplied via stainless-steel tubes in the lower section where the pigs have access and thin PE tubes between the stainless-steel tubes and the supply pipeline system. The PE tubes are clipped onto the lid of the automatic feeder and are fastened along the vertical feed intakes. This simplifies fitting and cleaning.
- ★ Tube-O-Mat[®] Top is a further development of the company's tubular automatic feeder for dry feeds. The automatic feeder consists of a deep drawn, stainless-steel trough, a dosage unit and a feed container consisting of a hopper and a lid. The trough is designed with an additional raised section or top which prevents the access of water and resultant bridging. The hopper, which is made of plastic, has been designed to prevent bridging as much as possible. Two of the sides are almost vertical. The lid, which is also made of plastic, consists of a fixed part and an openable part. The dome-shaped construction and positioning of the three feed intakes ensure that the automatic feeder is filled efficiently. The openable part of the lid is transparent which facilitates control without having to enter the pen or open the lid. The low positioning of the lid simplifies work if the automatic feeder is filled manually. The water is supplied via stainless-steel tubes in the lower section where the pigs have access and thin PE tubes between the stainless-steel tubes and

the supply pipeline system. The PE tubes are clipped onto the lid of the automatic feeder and are fastened along the vertical feed intakes. This simplifies fitting and cleaning.

- ★ **Højer FarmTech a/s, Hans - Stand No. K-8112**
FarmTech FT-DryFeeding is a feeding system for the restrictive dry feeding of porkers. The feeding system is constructed as a feeding chain which transports the feed out to the feeding points. With the aid of an electronic feed valve, the feed is released via a drop tube to the trough where it is evenly spread throughout the trough with the aid of a water nozzle. The control of the system is carried out by a feed computer that can be operated by a PC or a PDA. The system can be set to feed in accordance with feeding graphs and with gradual changeovers in the feed mix.

- ★ **Højgaard's Maskinfabrik ApS - Stand No. J2-7310**
Lunding Multispray is a disinfection and wet-feeding machine for pig pens. The Multispray consists of a mixing tank with capacities of 60 or 120 litres, an electric pump and various types of hoses, links and equipment depending on the Multispray's application for disinfection or wet feeding purposes.

- ★★ **SKIOLD A/S - Stand No. J2-7404**
TransPork Dry Feeding, type MultiPork is a newly-developed control for dry feeding systems for pigs. This system, which has been specially developed for farrowing pens, can be adjusted to operate feed boxes automatically, semi-automatically or manually at section level. In addition, the control functions as standard on dry feeding systems. The possibility for setting the feeding to manual means that the herdsman can, even in large herds, supervise all sows while these are feeding. When the feeding operation is completed, the control can be reset on automatic and the herdsman will no longer have to be present during feeding operations.

- ★ **Datamix RF 5000** is a newly-developed control for wet feeding systems. In comparison with former controls, it is now possible to extend and apply the wet feeding system so that there is clean water in the supply lines following feeding operations and not wet feed with the risk of this going bad prior to the next feeding time. The system has two mixing tanks which can alternatively be applied for feed and clean water. During the first change, the feed is pumped out from one tank and the system is flushed with clean water from the other tank. During the second change, the reverse operations are applied.

Feed preparation, feeding and watering - for horse stables

- OK Plast - Stand No. J1-7204**
★★ Young Line OK No. 140 is a plastic horse trough. The feed trough is constructed so as to ensure the physiologically correct feeding position and to minimize feed spillage. The trough is designed with special edges and a special bottom to avoid feed wastage and to simplify cleaning.
- Polysan A/S - Stand No. L-9304**
★ Corner trough in polymer concrete for horses, type 17-84 is a spacious trough for positioning on the floor. This trough is fixed to the flooring with concrete adhesive.

Ventilation, air purification, climate and heating of livestock housing

- DACS A/S - Stand No. K-8308**
★★ ACS2 is a newly developed climate control with integrated web server. Via individual passwords the owner can provide various users with various access facilities to this climate control. Facilities range from the ability to study data to engage remote control of the control system. Several users can have simultaneous access to the server. The control is pre-installed with up to 16 languages so that users with different languages can each attain the same information in their own languages. This feature makes cooperation easy between the ventilation company and foreign users. The control can monitor the operational status of all units in the ventilation system and thus facilitates fault finding via remote service.
- DeLaval A/S - Stand No. G-4702**
★ DeLaval Termostyring TC1 is a control for mechanical ventilation in livestock housing. The control unit operates via a THI index that controls temperature, humidity and wind effect. This is applied, for example, in connection with vertical suspension fans in large loose operation housing for cattle.
- Højer FarmTech a/s, Hans - Stand No. K-8112**
★★★DK FarmTech FT-ZoneComfort is a newly developed ventilation concept for pig housing. The concept is based on displacement ventilation which avoids air mixing prior to the air reaching the livestock zones. This means that the amount of air can be reduced without this having an effect on temperature or air quality. The fresh air intake is located on the north side of the building in order to avoid unnecessary heating of the air during warm months. The air is led in under the flooring and the addition of heat is possible during cold months. The air intake involves the slot

between the outer wall and the pen side at the rear of the pens. The air is drawn in via partial vacuum. The air can be directed via an adjustable damper down into the pens or as general dispersion throughout the building. 30 percent of the ventilation air is removed via floor level suction and the remainder is expelled via wall fans. The ventilation concept results in lower emission of odours due to the system's reduced ventilation requirement. In the event of air purification requirements, the air purification system dimensions can be reduced.

Reventa GmbH & Co. KG - Stand No. K-8124

- ★ V-Step Flexible air inlet is a newly developed fresh air vent for mechanical ventilation systems. The vent casing, which is made of PVC, has a modular construction so that the width can be varied from 400 mm to 2000 mm. The flap is made of non-CFC polyurethane foam in order to reduce condensation when cold air is drawn into the livestock housing.

SKIOLD A/S - Stand No. J2-7404

- ★ GSM Line for alarm systems is a newly developed alarm module for pig housing. This module replaces a fixed net module that was previously a requirement from the insurance companies. The fact that many livestock buildings are established out in the fields, without connection to existing installations, means that it is a technical and economical advantage to be able to establish a radio alarm.
- ★ Odour reduction from pig herds by mixing the emission air with fresh air is a newly developed system for the limitation of odour emission problems from pig housing. The system consists of an elevated ventilation discharge in which an injector unit has been installed that adds fresh air to the ventilation air from the livestock housing. Regulation of the fresh air input can be effectuated with a damper or a fan blade. This addition of fresh air results in a dilution of the odour from the livestock housing and thus a lower emission to the environment.

Skov A/S - Stand No. K-8210

- ★★ DOL 39 is a newly developed fan reverser which is applied in connection with pig collection. When the fan reverser is switched on, a relay is activated which stops the fan. After 10 seconds, the fan is restarted but in the counter direction. Following a pre-set period of, for example, 30 minutes the reverser is cancelled automatically and the fan returns to normal operation. The counter revolution of the fan creates a flow of ventilation air out of the door/portal that is applied for collection/sending off the pigs. This encourages the pigs to move out of the building.

VengSystem A/S - Stand No. M-9502

- ★★ VengSystem VE1000 Livestock Transport System is an EU-approved climate and control system for installation on vehicles for the transport of pigs, etc. The system consists of a temperature sensor for the

registration of the temperature in the vehicle, a receiver for recording the temperature and the vehicle's location, a control for cooling and ventilation, a high-pressure cooling system for battery operation and a log unit for the collation of all data from the system. The temperature sensor, which has a built-in radio sender, is so small that it can be integrated in a thin flooring deck. The receiver collates temperature data plus registrations of the vehicle's location via GPS. The control regulates the cooling system plus ventilation so that the best possible effect of the cooling is attained. The driver's inspection of the livestock is registered by installing an inductive sensor on the tailgate/rear door so that it is possible to log how often and how long a period the tailgate/rear door has been open. The log unit that collates the data replaces a PC.

- ★★★EUR VengSystem Hi-Lo exhaust is a newly developed control for mechanical ventilation systems. The control is designed with a bus cable that links all ventilation fans to a central control. On each ventilation discharge there is a control box for the damper motor and a control box that alternates between frequency control and direct connection with the electricity supply. The system's function consists of the ventilation discharge being connected direct to the electricity supply as long as it is operating 100 percent. When the output is to be regulated below 100 percent, the control box alternates to frequency control. If the output is to be regulated below 60 percent, the ventilation fan's revolutions are locked fast and the output is then regulated via the damper. This construction means that the frequency control is common for a number of sections. The control function results in a reduction of the total electricity costs for ventilation and simultaneously ensures that the system has pressure stability. The technical construction also results in reduction of system costs, maintenance costs and frequency control repairs.

Milking *(see Tools and Cleaning page 26)*

- Bou-Matic - Stand No. G-4610**
- ★★ ParlorMetrix for milking parlours is an automatic teat cup collector with an integrated management program. This is a control and decision support tool for the analysis of work routines in milking parlours. It measures and registers, for example, milking time, replacement of milking sets, manual collection and number of cows per milking set. The system is PC based.
- CellKim ApS - Stand No. F-5006**
- ★★ CMT „all-in-one“ Mastitis tester. CMT plate with integrated container for CMT fluid. This tester is much faster to operate than traditional CMT testers.

- ★★ „Overnighter“ mastitis test is an analysis for staphylococcus aureus and streptococcus. This is the system for self testing of milk samples for the most commonly known mastitis engendering bacteria. It contains various agar and incubates in a warm position (e.g., a pocket) within 24 hours.

Christensen & Co., A/S S.A. - Stand No. G-4602

- ★ MDS Saccomatic IDC 1 is a stand-alone model with milking set collectors and pulsators. Automatic milking with built-in functions relating to pulsation conditions, autostart, etc.
- ★★ MDS Saccomatic IDC 2, IDC 3 and IDC T is a new milking concept including automatic collectors and pulsators with built-in functions, for example:
- ICAR approved milk measurement
 - Moduler management functions
 - Pulsator function
 - Knee start/autostart
 - Pulsator monitor
 - Conductivity measurement at gland level
 - Graphic display showing: Milk yield, laying down of milk, temperature and conductivity.

This milking concept will be a definitely improved control tool in large dairy herds. The graphic display of the various measurement parameters provides quick supervision of the milking profile of the individual cow. IDC T is an automatic collector for pipeline milking systems in tethering boxes with moveable milking sets. It has the same technology as IDC 2 and IDC 3.

- ★★★EUR RDS Futureline Mobile Milking Robot is a mobile system for automatic milking out in the fields. This is a 2-box milking robot with 1 robot arm. This system is the first mobile system of its type. This is a complete unit consisting of: Milking unit, diesel generator, cooling tank plus tanks for water, chemicals, etc. The milking robot can be operated out in the fields when the cows are put for grazing and be positioned in the cowhouse as a stationary unit during the winter.
- ★ SAC Side By Side Fast Exit Rotor milking parlour, type SBS Rotor Exit is a parallel with rotating exit gate. The gate is equipped with an indexing function that has the effect that the cows are pressed slightly backwards towards the milking area and thus closer to the milker. Rotation speed is variable. The gate opens up quickly and rotates slowly down to the closed position.

Complex - Stand No. F-5230

- ★★★EUR Milk-Rite IP-V three sided teat rubbers with main valve and sleeves for non-ventilated milk centres. Milking set with teat rubbers (three-sided). Ventilation of the rubber teats and the milk centre is effectuated via inlets

in the head of the rubber teats. This obviates teat wash during milking. The combination of the three-sided teat rubbers and ventilation via the main valve is a new development and has never been seen before. The three-sided teat rubbers never collapse entirely and there will therefore always be a passage of air over the teat tip thus obviated teat wash and providing an important contribution to improved udder health.

DeLaval A/S - Stand No. G-4702

- ★ DeLaval Easy Foam EF 300 is a pneumatically controlled foam system for the pre-dip of teats prior to wiping. The foam has previously been applied in a traditional dip cup. This pneumatic control and a 25 litre tank with automatic dosage ensures an important increased capacity of the system.
- ★ DeLaval Prima teat spray/dip based on hydrogen peroxide with a glycerine additive. This product is ready to use and has a long shelf life.

Klovplejeboksen - Stand No. G-4700

- ★★ Bovibooster is a newly developed automatic hoof care system for installation in milking robots. The system consists of a pump unit, control unit and a number of nozzles fitted at the rear of the milking box. Just before the cow leaves the milking box, the rear hooves are washed with a solution of warm water and soap. Manual washing and cleaning of hooves has proven to have been an effective yet labour demanding method for combating digital dermatitis in particular. This automatic system reduces labour requirements and increases the beneficial effect due to more frequent washing of the hooves.

Mørch Teknik - Stand No. G-4600

- ★★ MT-Klovvask is a newly developed automatic hoof care system for installation in return passageways after the milking parlour or in herding passageways in the actual cowhouse. The system consists of a special tub with up to 40 nozzles which automatically flush the hooves from the front, rear and sides. The tub is fitted with a dung channel in the middle so that the cleaning fluid is not fouled. The water for is recycled and can be re-applied for up to a week.

WestfaliaSurge - Stand No. G-4604

- ★ ClassicPro Silicone teat rubbers with long durability and a new design (geometric).
- ★ LuxSpray 50 Udder care solution is an iodine-based (5000 ppm) teat spray with softeners (glycerine and lanoline). The high iodine content ensures a long-term effect.
- ★ PosiGuide Milking set positioning arm is a service arm for outer milking carousels. The service arm ensures correct hose guidance and a direct

pull backwards when removing the milking set. An optimum positioning of the milking set is ensured throughout the milking process.

- ★ TwinDip Udder care solution is a two-component teat dip preparation based on chlordioxide plus disinfection, barrier film and softener. The product is mixed immediately prior to use and keeps for 24 hours.

Dung clearance, treatment and storage of manure/slurry

Højgaards Maskinfabrik ApS - Stand No. J2-7310

- ★ HM propeller stirrer for stirring slurry in storage tanks, fore tanks and cross channels. It can be installed on either a front loader or a telescopic loader and powered by the machines hydraulic system. It can be adjusted at various angles.
- ★★ This propeller stirrer for slurry pumps in fore tanks and storage tanks can be installed on the pump pipe at any height desired. It is powered by the pump drive shaft and operates simultaneously with the pump. The slurry can thus be stirred during the pumping process from, for example, the fore tank to a storage tank.

Infarm A/S - Stand No. L-9204

- ★★★EUR Smellfighter ASP (Ammonia, Smell, Pig) is an integrated slurry separation system for pig production units. The system includes the following:
 - Slurry separation. The slurry is separated by a mechanical/chemical process into dry matter / liquid. At least 20% of the nitrogen in the slurry and at least 60% of the phosphorous in the slurry will be present in the dry matter fraction following the separation process.
 - Ozone treatment. The liquid fraction from the separation process has ozone added to it. This removes the odour.
 - Acidification. The ozone enriched liquid is acidified with concentrated sulphuric acid. This reduces the ammonia emission by up to 80%. This part of the concept corresponds to Infarm's NH₄⁺ acidification system, i.e., that a part of the acidified liquid is pumped back into the building's slurry system. This contributes to reducing odour and ammonia emission in the actual livestock housing.

The system can operate fully automatically and a service subscription can be signed with Infarm. Farmers who already have a NH₄⁺ acidification system can extend the existing system with a complete Smellfighter ASP system.

Proxy Sweden AB - Stand No. K-8406

- ★ Proxy™ Composting is a system for airing the slurry in a storage tank. Recomposition/composting occurs as a result of this airing process. The airing is the result of low pressure which creates large amounts of microscopic air bubbles. The size of these bubbles ensures that they

remain in the slurry for a much longer period than that attained by large bubbles. This ensures a more efficient aeration.

Triomec K/S - Stand No. G-4612

- ★★ Automatic chain tightener for dung scraping systems in cattle housing. The chain tightener is programmed to tighten the chain, for example, once a week. This automatic routine maintenance increases the durability of the scraping system.
- ★ CowRob Robot scraper is a scraper robot for the automatic cleaning of gangways with slotted flooring in loose operation systems for cattle. Model 1 has guide control based on edges/walls in the cattle house. Model 2 is GPS controlled and is programmed to operate along a pre-determined route in the cattle house. The scraper can have an operating width of up to 190 cm.

**Fittings, equipment and building components -
for cattle housing**

Lely Industries N.V. - Stand No. G-4712

- ★★★DK Commodus[®] bedding box is a newly developed bar for bedding boxes in cattle houses. The bar has spring suspension and yields if the cattle come into contact it. The system has an integrated plastic breast plank and an integrated "beading" between the boxes in the upper part of the resting area.

**Fittings, equipment and building components -
for pig housing**

ACO Funki A/S - Stand No. J1-7106

- ★ Multiboks Comfort with a lock is a newly developed oestrus/gestation box for loose system sows. In comparison to the former model, the Multibox is fitted with a lock which ensures that other sows cannot gain access to the box. The individual sow is thus completely protected when feeding or resting. The lock also makes the box more suitable for insemination purposes. The swing up gate is constructed so that it matches the height of the rear post. The design means that the box demands less space.
- ★ ACO Funki piglet lair is a newly developed lair for farrowing pens. The lair, which is constructed of moulded plastic, consists of two parts: A lair section and a gate section. Due to the design of the lair, with rounded shaping and very few joints - the risk of damage occurring to the piglets is minimized and it is also easier to clean the lair.

- ★ ACO Funki sow trough is a newly developed trough for farrowing pens. The trough, which is produced from non-corrosive material, is moulded in a form without sharp edges and with rounded shaping that ensures good hygiene and easy cleaning. The rear edge of the trough is shaped so that it is possible to see the bottom of the trough without entering the farrowing pen.
- ★ ACO Funki cast-iron grid is designed for fully-slotted flooring in farrowing pens. The grid, which measures 60 x 60 cm, can replace the current solution in which three grids have to be applied for slotted flooring in farrowing pens. This new type of grid means that only two grids are required. This increases floor stability, simplifies installation and reduces costs.
- ★ **AP Company A/S - Stand No. M-9602**
AP Retaining Box is a further development of a feeding/treatment box for loose operation sows. The rear gate of the box is designed so that personnel can gain access to the box in connection with sow treatment. The front gate is also altered so that there is more space for personnel and to reduce the risk of accidents. The rear floor fittings are now made of cast steel. The floor fittings have a rounded shape and the fixing bolt is countersunk. All in all, these developments ensure that the risk of hoof damage is reduced and anti-corrosion greatly improved.
- ★★ AP Complete farrowing pen in a new version of the traditional farrowing pen. There is now increased focus on the welfare of the sow, the piglets and the personnel. This farrowing box has a new design that makes it easier for the sow to turn from the belly position to the side position. The width of the lying down area and the width in front of the box is intended to provide the sow with more freedom to frequently rise up and stand and thus minimize the risk of shoulder sores. At the same time as this box provides the sow with support in a new manner, the access of the piglets to its teats is also improved. The crib is made of hard knock-proof plastic with rounded corners and there is a separate drinker in the right-hand corner. The piglet lair is made of injection-moulded, knock-proof plastic. Heating lamps or integrated heating can be applied for the lair. The lair is also flexible in relation to the sty width.
- ★ **Egebjerg Maskinfabrik A/S - Stand No. M-9600**
Clean-O-Flex is a newly developed cover for two-climate pigsties. The cover units consist of various panels and various accessories which, when combined in different ways, ensure a lightweight, easy to clean sty cover. The plastic panels, which are available in three different widths, are 15 mm thick. Together with the panels, the following are supplied: Front rail, hinge rail, a reinforcement profile for broad cover systems and a hat profile for installation on 35 mm inventory sides. The hinge rail is made of soft PVC, thus ensuring a flexible and fully closed hinge.

- ★ Inn-O-Block is a newly developed barrier plate for suckling pig lairs. This barrier plate, which is made of easily cleaned plastic, follows the shape of the lair's cover. In this way, the entire lair area can be used. The barrier plate is fitted in a T-shaped rail on the one side and in a U-profile on the other side. The plate is hinged so that it can fold down when not in use. The barrier plate is equipped with an opening for piglet access. This opening can also be closed with a plate so that the lair can be applied as a retention point for the piglets in connection with required treatments, etc.
- ★ Inn-O-Stall is a further development of a feeding/resting box for loose operation, gestating sows. This innovation involves a completely new locking principle. This new lock has two functions in the same locking pawl which simplifies the system. The pawl, which is shaped like an anchor is attached to a U-shaped device on the rear gate. When the sow in the box will out, it presses against the device, the anchor moves and the lock is opened. Other sows cannot open the gate from the outside. With the aid of a handle, each gate can be locked in front or at the rear of the box. In addition, an entire row of boxes can be locked or opened via a central device.

Nordic Stald Kemi Aps - Stand No. F-5114

- ★★★EUR Nordic Stald Gummimätte 3-layer is a new floor surface with moulded in rubber matting for farrowing pens. The construction ensures a soft resting surface that hinders the risk of shoulder sores on lactating sows. The construction is built up by a rubber granulate matting being applied with adhesive to the concrete flooring. The rubber matting and the flooring is then coated with a polyurethane surface. The surface has the same softness and elasticity as the rubber matting. This construction results in a complete surface without joints. This simplifies the work of cleaning and disinfecting and, at the same time, hinders dung adherence. This construction can be used for new or existing floors.

Polysan A/S - Stand No. L-9304

- ★★ Weaner trough, type 10-35, is a newly developed trough for restrictive wet feeding in weaner/grower pens. The trough is made of polymer concrete and is designed with a low edge height to ensure that even the smallest weaners have easy access. The bottom of the trough is designed with a lengthwise trench that ensures an even distribution of the feed throughout the entire length of the trough. This is particularly important for the restrictive feeding of weaners/growers, due to the feeding of relatively small amounts.
- ★ Trough in polymer concrete, type 50-S, is a newly developed trough for farrowing pens. This trough is designed with a slanting bottom to facilitate vertical installation if required. The trough also has an integrated base stand to obviate foundation casting. The trough is also available

with variable side plates for installation between the trough gable and sty divisions.

- ★ Heating plate, type 38-120, is a newly developed heating plate for farrowing pens. This heating plate, which is made of polymer concrete, has a built-in pipe system which is connected to the heat supply system. The surface of the heating plate is profiled to ensure a non-skid surface.

Fittings, Equipment and building components - for poultry housing

- ★ **Landmeco A/S - Stand No. D-3216**
Landmeco Harmony Combo is a further development of the Harmony Standard multi-storey system. This system is used for hens for floor production purposes and has integrated nests in the 1st storey. This facilitates improved application of space, particularly in narrow and wide poultry housing. Like Harmony Standard, this Harmony Combo model has 3 split-level storeys.

Articles and tools

- ★ **Hyo-Nord - Stand No. L-9006**
Dead Trans, type 1, is a newly developed transport truck for dead livestock. Dead Trans is constructed as a gantry on four swivel fork wheels with detention rollers in the corners. This truck can operate in gangway widths of down to 70 cm. The carcasses are lifted high enough to swing over the corners of the farrowing pens. This truck is available with manual or electric hoist.
- ★★★^{EUR} **Kruuse A/S, Jørgen - Stand No. L-9202**
Porcivet Thermokappe is a newly developed thermo jacket which is designed to reduce heat loss in newborn piglets with low birth weights. The lower part of the thermo jacket covers the heart/lungs region and the upper part covers the full length of the body. The piglet's front legs placed through the two openings and the thermo jacket is then folded up over the piglet's back and closed reasonably tight. The thermo jacket is used during the first 3 to 5 days of life. It can be machine washed at 30 degrees celcius and re-used repeatedly. This Porcivet Thermokappe for suckling pigs is manufactured by Brandbygegaard and marketed by Jørgen Kruuse A/S.
- ★★ **LVK Vilofarm - Stand No. K-8105**
Oestrus observer for electronic oestrus monitoring in cattle is a system, with a combination of observation and detection cameras, for installation in cow houses. The system registers movements in the cow house, zooms in on the object, for example a cow in libido, and the cow's

number can be read from the ear tag. The camera operates at a distance of up to 60 metres and is equipped with 10X optical zoom. Video sequences can quickly be played back (16 times the normal speed). This can take place, for example, twice daily.

Salfarm Danmark A/S - Stand No. F-5312

- ★ HDDI (Heavy Duty Detectable Injector) is a newly developed, heavy duty, detectable, steel injection needle. The cases and cartridges have printed colour codes so that it is easy to find the right size of injection needle. This detectable injector is approved in accordance with the approval requirements of the Danish Meat Research Institute.
- ★ Prima Peroral Drench and Coupling is an injection system with metal oral drench and a threaded coupling for oral administration of medicine, vitamins, etc. This is a flexible system. It is suitable for all PrimaTech automatic injectors and makes it possible to apply screw top bottles and normal medicine bottles with rubber corks.

Unitron A/S - Stand No. L-9314

- ★ WED 2000 is an ultrasonic scanner for gestation tests of sows during the period three weeks after oestrus until farrowing. The scanner is 14.9 x 12.2 x 4.2 cm and weighs 600 g including battery. The battery capacity ensures that the scanner can operate continuously for two hours. It has a 5.0" LCD display.
- ★ WED 9618V Full Digital Ultrasound Scanner is a digital ultrasonic scanner for the examination of small animals. The scanner can operate with various probes and can thus be used for various groups of animals.
- ★ WED 3000 PalmSmart Ultrasound Scanner is an ultrasonic scanner for the examination of small animals. The scanner can operate with various probes and can thus be used for various groups of animals. It can detect icetus, foetus age and size. It has a 6.4" TFT colour display.
- ★ Unitron Filling machine for flat pack semen bags is an automatic filling machine for application at herd level. A roll with semen bags is place into the machine and this is connected to a container with the diluted semen. The required number of bags can then be filled automatically.

Feeds, feed additives and pharmaceutical products - cattle

DeLaval A/S - Stand No. G-4702

- ★ DeLaval Feedtech Colostrum is a first milk supplement pasta in 30 ml tubes for newborn calves. This product provides energy, protein, vitamins, selenium and lactic acid bacteria.

- ★ **Mosegården A/S - Stand No. J3-7804**
MasterLac is a series of milk substitutes for calves. The series consists of:
MasterLac Red, skimmed milk based milk substitute.
MasterLac Green, whey based milk substitute.
MasterLac Violet, milk substitute with whey and skimmed milk powders.
- ★ **Vitfoss - Stand No. D-3102**
Blå Kalvo (Blue Calve) is a milk substitute for calves which contains whey powder, skimmed milk powder and soya bean concentrate. With 20% skimmed milk powder plus acids and lactic acid bacteria, Blue Calve is an alternative to skimmed milk based mixes.
- ★★★EUR X-Zelit is a mineral calcium binder (Zeolit) for application in dry cow feed. The product binds calcium in the stomach/intestine content and significantly reduces the occurrence of milk fever. The purpose is to reduce the loss of milk production caused by clinical and, in particular, sub-clinical occurrences of milk fever. This calcium binder is the result of several years of research and development work at the Faculty of Bioscience, Copenhagen University (formerly The Royal Veterinary and Agricultural University).

Feeds, feed additives and pharmaceutical products - pigs

- ★ **Vitfoss - Stand No. D-3102**
Vitfoss Piglet Saver is a feed additive in 250 ml bottles with dosage pumps for newborn piglets. This product contains fermented potato protein and glycerol and is primarily applied for weak piglets during the first 2 days after birth. The purpose of the product is to improve the metabolism of the piglets and therefore reduce mortality rates and improve the growth rate of runts.

Feeds, feed additives and pharmaceutical products - poultry

- ★ **Siolit A/S - Stand No. L-9103**
Siolit Plus feed for poultry is an additive based on silicon. With a dosage of 250 - 300 g per 1000 kg feed for chickens and hens, a binding of ammonia and other substances is attained. The application of Siolit Plus reduces environmental problems in the air in the poultry house and reduces problems with insects in the poultry house. This feed can also be applied for ecological production.

Other aids

- ★ **CellKim ApS - Stand No. F-5006**
Provita Combat Spray is a hoof product for cows and sheep. This is a hoof care product without antibiotics which is based on alcohol and Tea Tree oil. This spray agent is applied in connection with manual washing of hooves. The hoof care spray forms a protective film on the hoof and lasts for three days. This product can be applied for ecological herds and flocks.
- ★ **Salfarm Danmark A/S - Stand No. F-5312**
PheroBoar™ is a new boar scent spray for the identification of oestrus in sows without having a boar present. Pheromone androstenone is prepared in a liquid solution which can be applied with a simple pump system without pressure requirements. PheroBoar is applied in front of the snout and is breathed in directly.
- ★★ **Salfarm Danmark A/S - Stand No. F-5312**
PheroMate™ is a new boar stimulation spray for activating young/older, perhaps less active, boars to prompt mating or for semen production. This is the first scent product to be developed for boars. The product is prepared in a liquid solution which can be applied with a simple pump without pressure requirements. PheroMate is applied directly on the boar's snout or on a "phantom sow".
- ★ **Unitron A/S - Stand No. L-9314**
Kofa Grain pH5 is a silage agent based on acid salt for the silage of ccm, byproducts and wet grain. This product can also be applied for the preservation of damp grain and maize.
- ★ **Vitfoss - Stand No. D-3102**
Pelt cleaner/Lemon powder is a product for replacing/supplementing sawdust in the in the skinning process. This product is recognized for its high absorption ability.

Transport, Cleaning and Maintenance

Transport equipment and loaders

- ★ **Scantruck A/S - Stand No. B-2122**
Manitou MLT 1035 LT LSU is a telescopic loader with a lifting height of 10 m. The outer dimensions are only 2.30 x 2.32 m. It is operated with a single joystick, Switch & Move. It has a leveling system that maintains the machine in a horizontal position on uneven ground.

Tools and Cleaning *(see Milking page 15)*

- ★ **Jydeland Maskinfabrik A/S - Stand No. J1-7206**
Bobman FL is a combined litter spreading and sweeping machine for application in loose operation systems for cattle. The machine is equipped with a hydraulically powered brush for the cleaning of resting areas in cubicles. It is self-loading for sawdust, wood shavings, etc., and has a tipper box for spreading and has 3WD.

- ★ **Præstbro Maskiner A/S - Stand No. C-2708**
Dinamica Generale, Dina3 certificated passage weigher. This has two weighing plates that register the weight on each wheel. The weighing plates are cast into a concrete foundation so that these are at ground level. A weighing computer reads and collates all data and calculates the total weight. It has a capacity of 18 tons per axle and can collate data from a total of 12 axles.

- ★ **Ramsta Robotics AB - Stand No. J2-7402**
Ramsta Robotics cleaning robot, Clever Cleaner, is a cleaning robot which is specially designed for pig houses with narrow passageways. This new model can be applied in pig houses with passageways down to 48 cm in width in comparison to the 65 cm for former models. This new model is equipped with four telescopic support legs which fold out automatically and stabilize the robot during the cleaning process.

Care of hedgerows and verges

- ★ **Kyndestoft Maskinfabrik ApS - Stand No. C-2802**
Kyndestoft Mammut is a 3-point suspension crane on a swivel collar with planetary gear. It can be installed on a hedgerow clipper, slurry stirrer, forestry crane, etc. It has its own hydraulic pump station.

- ★ **Spearhead A/S - Stand No. H-6204**
Spearhead Twiga is a 1.2 m flail cutter head for installation on jib clippers. A special narrow drive system makes it possible to clip close to trees, masts, etc.

- ★★ **Spearhead Twiga Rotor Flex** is a 240° double swivel link for installation on verge clipper jibs. The outer swivel has an integrated float position that enables the placement of the clipper head in all positions. It also enables the tractor operator to position the clipper head in a position that is easy to see from the tractor seat. It is also easy to clip around any obstacles.

Power and Heating

- GE Energy, Jenbacher - Stand No. C-2632**
- ★★ Jenbacher gas motor, type JMS 624, is a 4MW (el. effect) gas motor. Simultaneously with the electricity production this gas motor can attain a heat effect of 3.6 MW and a total efficiency of up to 90%.
- Hybren - Stand No. B-2128**
- ★★★EUR Hybren „Helix“ Cleaning Machine is a new concept for cleaning rapeseed in which a mechanical dressing in a helical system is combined with a winnowing process. This combination of mechanical dressing and winnowing in a single compact unit is the new feature in comparison to existing cleaning methods in which screens are typically applied. The mechanical dressing unit consists of a horizontal pipe with various helical forms for the separation of different foreign objects. In a section of the pipe, the rapeseed is also lifted up and falls to the bottom of the pipe again and by blowing an air current through the pipe a winnowing effect separates light particles from the rapeseed.
- Liagro A/S - Benekov Danmark A/S - Stand No. B-2300**
- ★★ Benekov R 25 Silo facilitates the fully automatic stoking of fuel (wood pellets) from an external silo to a stoker furnace. The traditional magazine is replaced by a down pipe and a cell gate. The fact that the cell gate is powered by the same gear as the stoker conveyor and the capacity of the cell gate is simultaneously lower than the stoker conveyor's capacity ensures that the down shaft between the cell gate and the stoker conveyor is always empty. The system is thus safe from back flash.
- Twin Heat A/S - Stand No. B-2212**
- ★ Twin Heat Quatro silo, types 1 and 2, are two new silos for forest wood chips and wood shavings/sawdust. In comparison to the former range from Twin Heat, these new silos represent a considerable increased capacity for these difficult to handle fuels.

Water and Sanitation

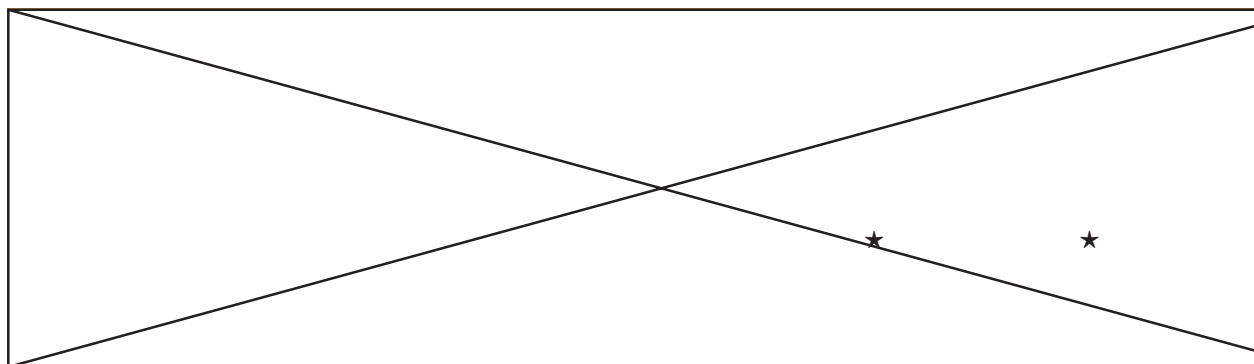
- Watersystems A/S - Stand No. B-2114**
- ★★ Ws biopipe™ 5 PE - 30 PE. Water systems ws biopipe is a seepage system for waste water which, for a small investment, can be converted to a mini water purification system. The standard model consists of a sedimentation tank with three chambers and a pump that pumps the cleaned water out into the seepage pipes.

Buildings and Building components

- ★ **Bico-Net Insektsikring - Stand No. J3-7606**
Bico-net's swing door is an insect net door for installation on doors and windows. The door frame is fitted with double-sided hinges so that the door can swing to both sides and are therefore easy to operate. The swing door is constructed of aluminium profiles and, with concealed magnets in the profiles, the door stops automatically in the closed position.

Management

- ★★★EUR **agroPLUS Kommunikation og Rådgivning ApS - Stand No. E-4216**
AgroLearn is a agricultural educational portal that facilitates individual language instruction regarding professional agricultural terminology - directed at foreign employees. The portal opens for illustrations and sound so that, on a basis of the foreign language, can be taught pronunciation in English and Danish. This is founded on a database with 1500 illustrated professional agricultural terms. This portal studies all categories of arable farming and crops, pig breeding, machines, workshop, management, etc.



AgroPhone[®] is a new software that can be downloaded in a mobile telephone so that you always have a picture based determination key to identify weeds, fungus disease and insect pests in the crops. This new product ensures that, with the aid of new mobile telephone technology, the know-how from traditional manuals is quickly accessible out in the fields where this is required. With approximately 400 illustrations and graphic units, the AgroPhone provides the possibility of being able to have a more secure identification of the damage prior to eventual crop treatments. The treatments can thus be objective and optimize economy.

BoPil A/S - Stand No. J1-7104

- ★ BoPil Spotmix PDA is applied to make changes in mix recipes and feed graphs whilst working in the livestock buildings. With the aid of the integrated readings, the feed valve is registered and data for the individual pen can be changed. When all registrations have been recorded in the PDA, these are synchronized with the feeding system's computer.
- ★ BoPil Scanner for livestock without eartags is a new scanner that registers if a sow is positioned in the feed point. When the scanner registers a sow but cannot read off the animal's ID, it is assumed that the sow does not have an ID unit and is then selected out or is colour marked. This function is a combination between new software at the feed point control and the new scanner. The scanner makes it possible to register, for example, all those sows that have dropped their eartags in a loose operation pen.

Dansk Landbrugsrådgivning, Dansk Kvæg - Stand No. E-4112**DeLaval A/S - Stand No. G-4702**

- ★★★EUR Herd Navigator[®]. Automatic equipment for the collection and analysis of milk samples online during milking operations. This is a control and decision support tool on a background of the collected samples. It has a management program with print of various alarm lists. Readings and registrations are, for example:
 - Progesteron (Oestrus)
 - LDH (Udder health)
 - Urea (Feeding)
 - BHB (Feeding)
 - Yield.

Dansk Landbrugsrådgivning, Landscentret - Stand No. E-4112

- ★ DLBR Timejournal is a time recording tool for the registration of time consumption of personnel and machines. It is based on a central database and is therefore also very suitable in, for example, joint operations. It has a wellknown, easily used interface. The data can be downloaded to an accountancy sheet so that one can easily survey resource consumption and spread costs to correspond with the collated data.

DeLaval A/S - Stand No. G-4702

- ★ DeLaval multi reader is an automatic identification system for reading DeLaval's transponders and ISO ear transponders. There is an antenna for reading transponders plus various ISO standard identification systems (for example, electronic eartags).

- Mosegården A/S - Stand No. J3-7804**
- ★★ Ruminact - Standalone, activity reader and sonic transponder system. This provides combined activity readings and registration of the cow's ruminating function. It has Sonic equipment for the registration of the number of regurgitated cud balls and ruminating function. The sonic transponder is positioned on the cow's neck and registers both activity and rumination. This product is a control and decision support tool for the evaluation of oestrus and physiology.
- Strangko A/S - Stand No. G-4608**
- ★ SMP Link to Danish Cattle is a further development of the well-known management program from Strangko so that it is now compatible with the Cattle Database for automatic transference of data.
- TNM IT - Stand No. M-9642**
- ★ TNM IT surveillance pack is a newly developed waterproof and dustproof IP camera for the surveillance of livestock housing, milking robots, etc. 16 cameras can be linked to the accompanying software pack. Communication is transferred via the herd's normal IT network.
- ★★★EUR Farmguard IT-security is a server based system that provides all farms that are members of the system with a simple and easily surveyed way of administrating security and user rights on the farm's IT network. With Farmguard, the farmer can give employees, advisors, suppliers, etc., access to computers and controls via Internet. All access is covered by a very high level of security and Farmguard handles the essential passwords without the individual user being able to see these passwords. This means that a user, who has remote access to, for example, all computers and climate controls on a farm unit, can have all access rights withdrawn by the farmer simply removing a tick-off sign in the administrator window.

Garden / Parks *(see Tractors page 4)*

- ★ **Dani Trading A/S - Stand No. H-6304**
- AMA Garden Multicutter, type MC280 / MC350, are brush clearers with quick change of all cutting tools without tool requirements, for example, brush clearance joints, chain saw, hedge clipper, etc. The hedge clipper joint makes it easier to cut high hedges.

Fog A/S, Henrik A. - Stand No. C-2712

- ★ CSF Agrione A600 is a new series of mini-loaders. These are available with telescopic jib and anti-crash bar, have a dead load of 930 kg and can lift 1050 kg. More than 60 different tools are available for this loader which has 4WD and hydrostatic transmission and a 28 hp motor.
- ★ Grasshopper 322D Midmount is a “zero turn” lawn tractor with centre position clipper. The clipper has two contra operating blades plus distribution blades in the rear discharge.
- ★ Fjærås Variable snow plough, is a snow plough in which the plough’s two sides can be independently adjusted via hydraulics. It can thus function as a taper plough, a diagonal plough or a V-plough if snow is to be pushed away from large surfaces.

Forestry

- ★ **Lindana A/S - Stand No. C-2646**
Lindana TP 400 Compact K is a tractor installed wood chipper that can operate with trunks of up to 40 cm in diameter. It has a 4-bladed disc rotor and an integrated hydraulic system that powers two feeding rollers. There is an electronic revolutions guard that stops the feeding system if the revolutions fall below a pre-set limit. This restarts the feeding system when the tractor has provided the chipper with the required revolutions. The feeding hopper is hydraulically operated so that it can be tipped upwards and downwards. The hopper can also be fitted with a hydraulic roller at the front edge. This will synchronize with the feeding rollers.
- ★★★EUR **PC Stål ApS - Stand No. C-2504**
PC Wood Chipper, type Total, is a wood chipper that operates in accordance with the disc principle. In addition to passing through the disc, the wood chips have to pass a circular screen of the hammer mill type. This screen ensures that the wood chips are reduced to pellet chip size. This end product can be applied for furnaces instead of wood pellets.

Contractors’ Machines

- ★★★DK **Øbakke A/S - Stand No. B-2116**
Takeuchi, TB016 Hybrid, is a mini-excavator that can operate on both diesel and 380V electricity. This makes it very suitable for working in locations in which diesel exhaust or noise can be a problem for the surroundings. It is available in 1.7 ton and 2.8 ton versions.

Feed, Grain and Seed - Industrial plant

Management and administration

SKIOLD A/S - Stand No. J2-7404
New Products - Agromek January 2008