



# Product Brochure

Better Return Programme +



## Expertise and automation in all areas

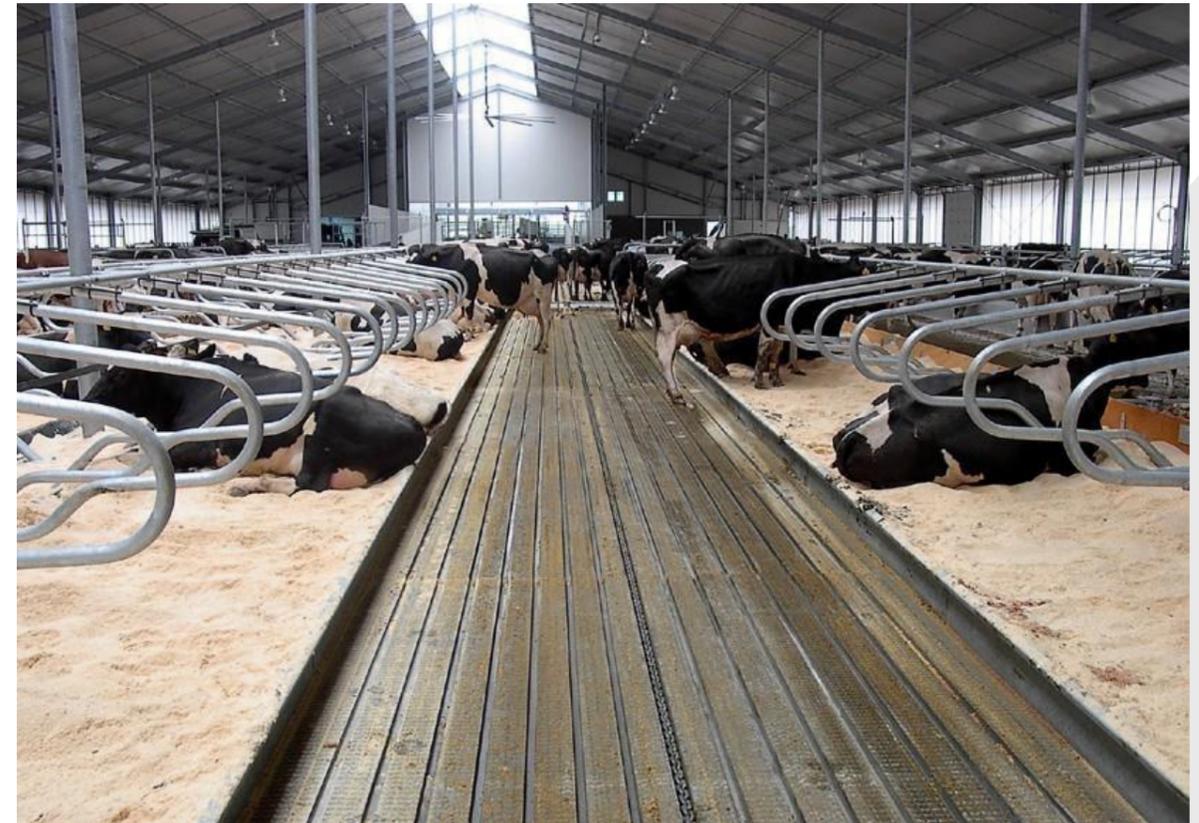
With technical expertise in areas such as milk production with conventional and automated milking systems, automated feeding systems, storage technology and manure engineering, as well as a complete range of barn equipment, we can offer you everything you need to ensure the long-term success of your dairy farm.

The range of comprehensive system solutions for livestock management also includes prompt service and hygiene treatments.

## Systems for all areas of livestock management

Regardless of your management style or farm layout, we can find the perfect solution. Consulting, planning, installation and maintenance for all areas of milk production is carried out by our own professionals

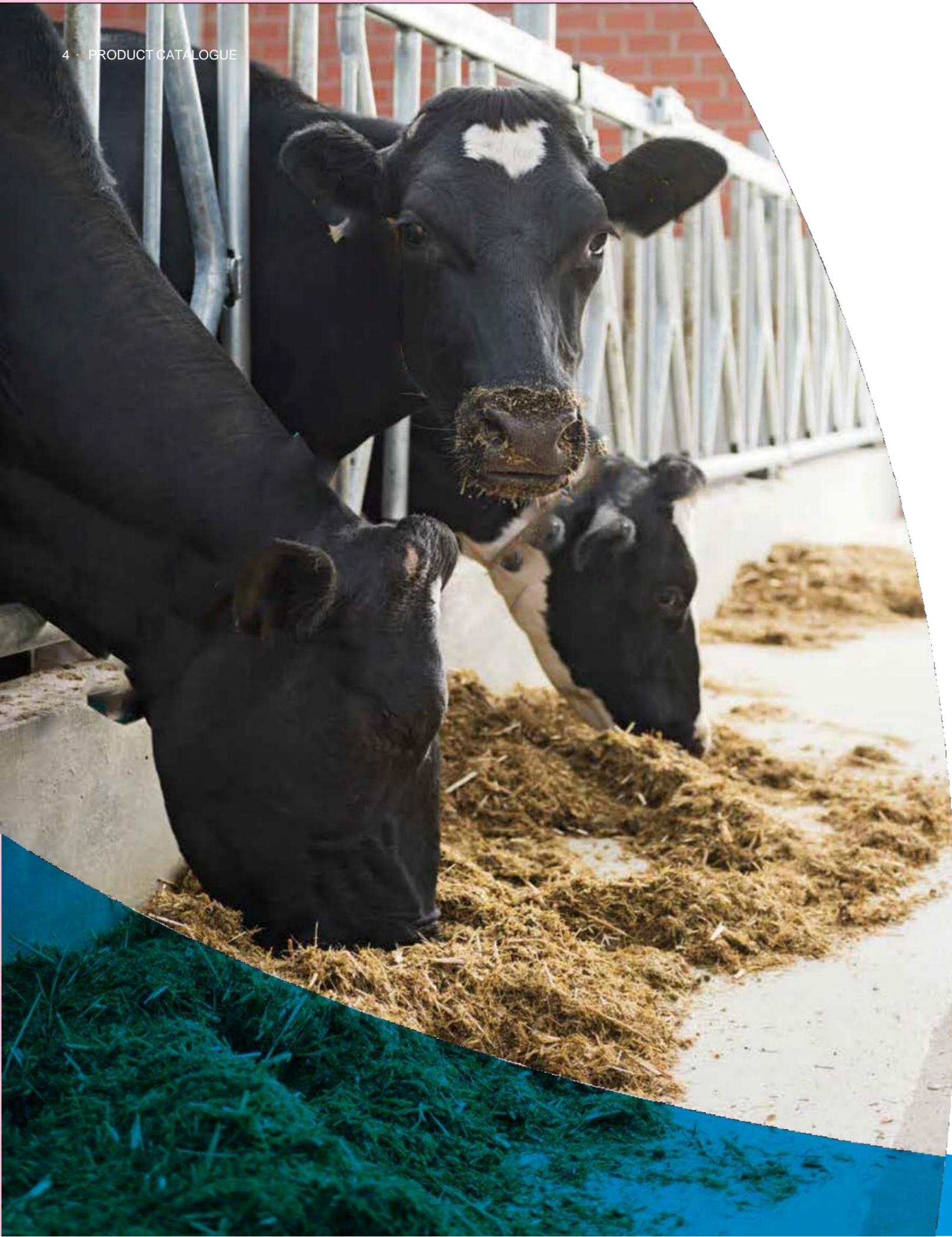
Because who better to service the equipment, than the people who designed all of the elements to work together, and created and installed the entire operational concept? Everything is included in our complete solutions, from designing and planning the barn and operational concept to day-to-day herd and farm management. We focus on product innovation and the latest trends in technology. We can provide our customers with perceptibly higher added value and improved efficiency levels, helping them achieve the highest possible standards of productivity.



This Farm Equipment catalogue is designed to give you a glimpse into our current range of barn equipment for dairy farms. The following pages provide information on products and systems in the areas of barn equipment, hygiene, cleaning, feeding, manure processing and engineering that all ensure greater comfort and convenience for both your animals and your employees.

We have decade of experience in the fields of cattle equipment and manure engineering and its ranges all meet the highest quality standards. Through our developments, we repeatedly establish benchmarks and provide new solutions for improvements in ecology, economy and animal-friendly husbandry.

The breadth and depth of our range is much greater than just the products shown in this catalogue. So, please also take advantage of the experience of our sales consultants. Not only will you always receive reliable advice, but we will also visit you on your farm. Plan your new projects with Manufacturer right on your own premises. Together we will find effective solutions for a successful, cost-effective and demand-oriented application based on your individual requirements.



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# Cow Milking System

Our years of R&D and farming experience combined to help us achieve one objective: to automate the farmer's skills in distinguishing a cow's status.



At our farm, we believe the answer is in the details.

Management tools for maximizing productivity and increasing profits on the dairy farm

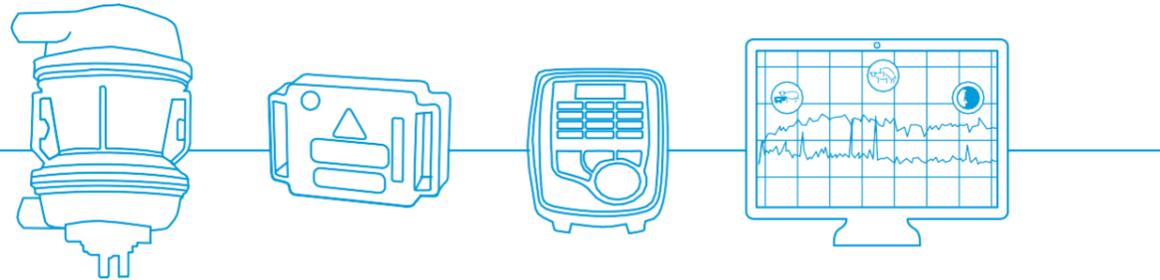


# Cow parlour systems

## Solutions that fulfill your needs



# Smart Analysis System



### MPC Milk Meter

The easy-to-use milk meter provides full control over the milking process at the milking point. Part of the Milk management system, this ICAR-approved meter transfers valuable data collected during milking to the Farm management program. There, the data serves to enhance daily herd management.



### Tag

Placed around the bottom of the animal's leg, our electronic transponder accurately measures and wirelessly transmits the behavior parameters used in detecting estrus and for monitoring the animal's welfare (for example, walking activity or resting time).



### Milk MPC

Our efficient, precise milk meter measures milk yield and milk conductivity, which is used by Manufacturer to monitor cow health and milk production. SMmilk MPC is an ICAR\* approved milk meter.



### Lab milk analyzer

The advanced technology in the Milk system provides online information about the composition of milk (fat, protein, lactose and blood) to assess the value and quality of the milk. Milk composition is also used for detecting a cow's metabolic problems and other specific health issues.

## A reliable management tool

Our farm software presents a comprehensive, state-of-the-art analysis tool. We've embedded our in-depth knowledge of dairy farming to make Farm second to none as the reliable tool for managing the daily operations on dairy farms.



- Proprietary advanced analysis algorithms
- Smart, automatic procedures for assigning cows for treatment, based on performance or schedule
- Highly intuitive, user-friendly screens and reports

Using Manufacturer's Farm software just a few minutes every day, adopting work procedures according to preset criteria, and employing support tools such as SM sort (cow sorting gate) gives the dairy farm manager everything needed to ensure that the cows and the herd stay in good shape.

Better control over the herd maximizes profits

## Manufacturer's Lab - Vital Knowhow in Every Drop

The **Lab** milk analyzer is installed between the **Milk MPC** and the milk line at each milking point and measures the composition of fat, protein, and lactose in the milk that each cow gives. Manufacturer's Lab's continuous data collection provides on-line milking alerts, as well as vital information that is utilized to detect the animals that require attention and improves the selection for genetic purposes.



### Features and Benefits

- Early detection of ketosis
- Early detection of SARA (Sub-acute Ruminant Acidosis)
- Precise planning of feed regime (using fat & protein monitoring) to help reduce feed costs
- Timely alerts of reduced feed quality to help prevent losses in milk production
- Blood alerts
- Washing problem warnings to help ensure proper CIP wash and prevent bacterial growth in the milking system
- Semi-automated and automated calibration



Improved  
Health



Efficient  
Nutrition



Top Milk  
Quality



Precision  
Milking

Vital Knowhow in Every Drop



## MPC Milk Meter - The Manager's Partner for Precision Dairy

The easy-to-use MPC Milk Meter provides full control over the milking process at the milking point. MPC is an ICAR-approved milk meter, offering a series of supporting features and operator aid alerts for milking (flow and vacuum fluctuations), cluster removal, pulsation and pre-milking stimulation. A state-of-the-art conductivity sensor is used for effective and early detection of mastitis and to reduce the damage caused by udder disease.

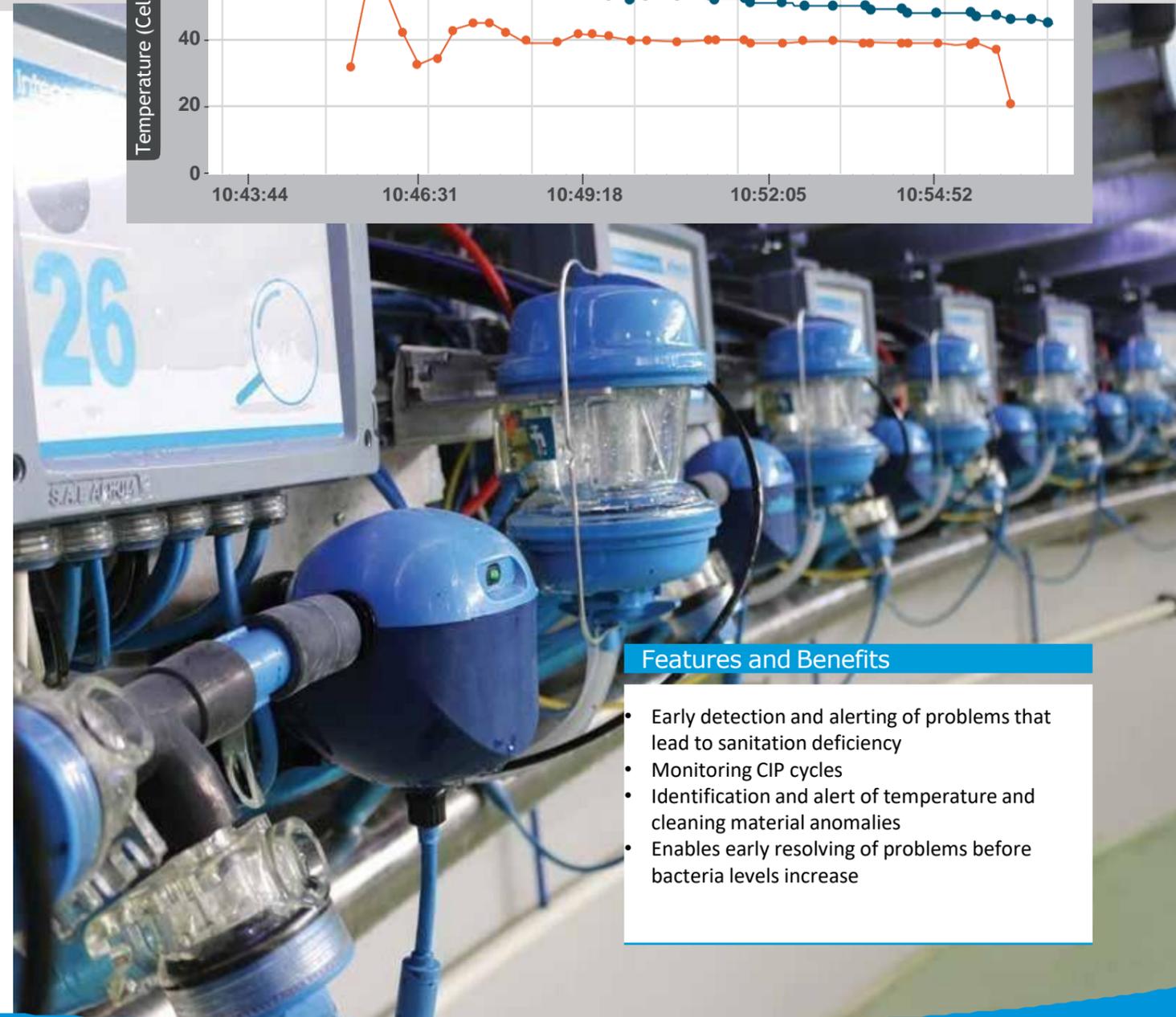
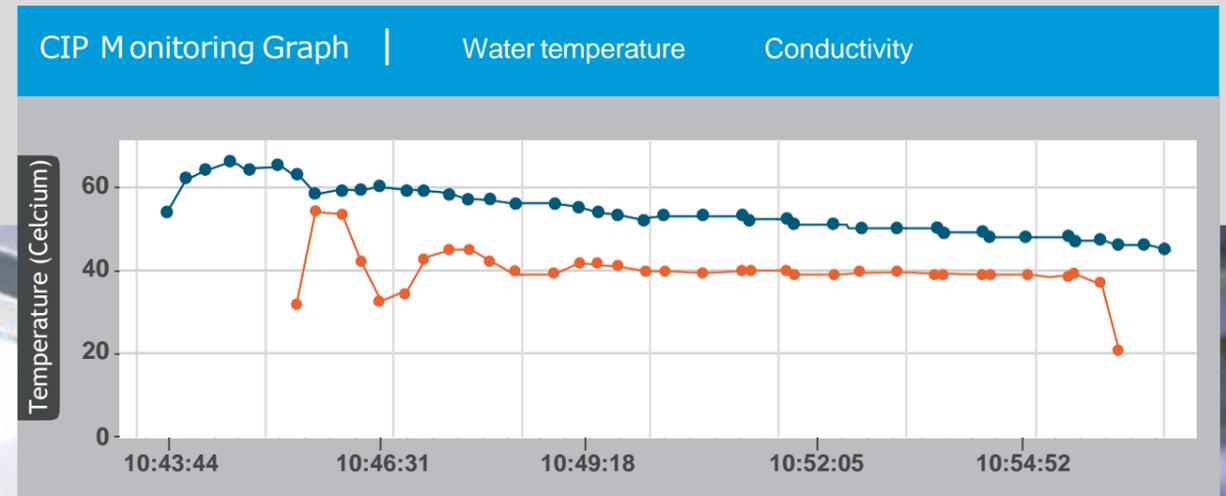


### Features and Benefits

- Aids in fresh cow follow-up to help you optimize the milk curve
- Includes a high-precision conductivity sensor
- Powerful mastitis detection helps reduce the damage of udder disease
- Prevents the loss of bulk milk by automatically blocking the milking of cows with exceptional milk (colostrum, antibiotic, high SCC cows)
- Maintains a calm milking environment by alerting on restless behavior, kick-offs, slow milk let down, double attachment and more
- Improves milking efficiency by monitoring milking times and flow rates to evaluate the quality of animal preparation for milking and milk let-down
- Offers new pulsation and claw removal parameter options
- Includes a fat sampler and optional 7/8" outlet option for high-yielding cows

## CIP Monitoring – Ensuring Milk Quality and Sensor Operation

The new MPC Milk Meter model measures the temperature and conductivity of the wash solution during the sanitation of the milking system.



### Features and Benefits

- Early detection and alerting of problems that lead to sanitation deficiency
- Monitoring CIP cycles
- Identification and alert of temperature and cleaning material anomalies
- Enables early resolving of problems before bacteria levels increase

# PREMIUM Rotary Milking System



Specially designed to work with SMilk system



Excellent floor cleanness and unbeatable milking quality



I-beam automatic lubrication system



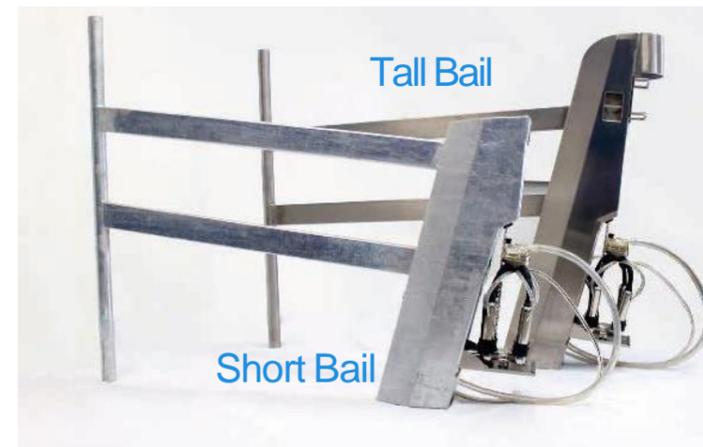
Heavy-duty drive units with automatic adjusting and attaching system



Designed for individual precision feeding



New and improved cow friendly design



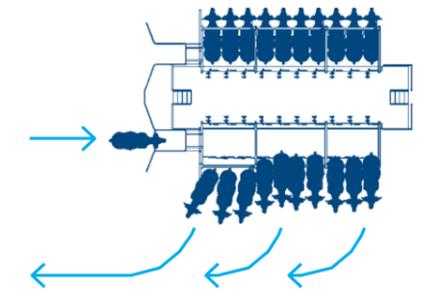
Tall Bail

Short Bail



Light weight and extremely heavy duty Designed to work 24/7 Longest surface life

# Parallel Milking System Pro



Throughput

## Faster cow-flow

- Wide entrance lane with sliding entrance gate – quick entry and easy turning encourages fast loading of cows.
- Unique, open bottom neck-rail
  - designed with understanding of how cows move for faster entrance and exit.
- All-Index™ – optimum positioning of cows for better udder prep, operator comfort and safety.
- Exiting of all cows on each side with one push of a button, which helps save time.
- Begin attaching units to first gangs while other gangs of cows are still being loaded.
- Lets you release each cow gang as they finish for better cow-flow.

## Better workflow

- Suspended butt-pan – gives unobstructed view of the udder resulting in better working environment and operator comfort. The vertical design of the butt-pan provides a wider gutter and easier cleaning.

- Comfort start – no buttons to push: just lift the cluster and start milking (option).
- Exit Plus – automates exit-entrance sequence to save operators' time (option).
- Air-powered indexing – gently but firmly positions each cow back against the butt-pan. Consistent indexing positions the cows for comfortable attachment, saving operator time while providing more operator comfort.

- Deck flush – automatically cleans platform reducing risk of contamination (option).

## Fast installation

- Bolt-together design – eliminates on-site welding and reduces risk of incorrect installation. This also speeds up the installation process for faster start-up.

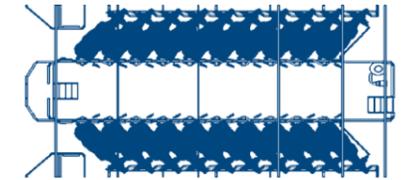
## Robust and reliable

- Robust structure – provides a safe working environment, low maintenance and long parlour lifetime.
- Stainless steel butt-pan, optional stainless steel cabinets and kick curb – easy to clean and durable.
- Air control box with built-in filter: provides pneumatics with clean air for longer life of air components.

## Cow comfort

- Cluster support – provides comfort for both operator and cow by ensuring perfect cluster alignment, preventing liner slip and reducing risk of mastitis (option).
- Duplex cylinders – allow different pressure settings for gentle, slow but firm indexing of cows.
- Fully-adjustable neck-rail – suitable for different cow types/sizes.

# Herringbone Milking System Pro



## Cow comfort

- Angled staggered rump-rail increases cow confidence promoting fast let-down and milk-out.
- Less bullying due to staggered positioning.
- Small turn needed to get into position for fast and easy entry and exit.
- Cluster alignment – reduces the risk of liner slip and mastitis.
- Adjustable breast rail for comfortable, snug fit (manual or pneumatic options).

## In-parlour feeding options

- Individual mangers: each cow can eat her concentrate ration in peace.
- Enables challenge feeding to drive up peak yield.
- Prevents post-peak weight gain by feeding to yield.
- Can be linked to DeLaval herd management systems for optimal control and reduced feed costs.

## Operator comfort

- Comfort-Start allows operators to start milking by lifting the cluster, without having to push any buttons.
- Suspended “post-free” rump-rail gives unobstructed view of the udder and reduces risk of operator injury.
- Angled rump-rail allows cows to stand close to the operator.
- Kick-rail positioned close to back leg reduces risk of milker getting kicked.
- Galvanized steel curb for operator safety.
- Splash guard protects milkers and equipment (option).

## Robust and reliable

- Durable design with heavy gage steel tubing.
- Rump-rail suspended from robust beam
- Hot-dip galvanised welded components

## Optimal flow

- Fast and precise cluster attachment thanks to unobstructed view of udder.
- Better alignment means better milk let-down.
- Swinging vacuum-controlled entrance gate opens fully for fast entry.
- Swinging exit gate with manual or vacuum control for speedy exit.
- Proven identification system provides fast and reliable cow ID (option).
- Crowd gate for faster milking routines (option).

# Pasteurization machine



# Portable Milking Machine



SM301



SM302



SM303



SM304

# Milking Bucket



# TMR Machine



SM550-4



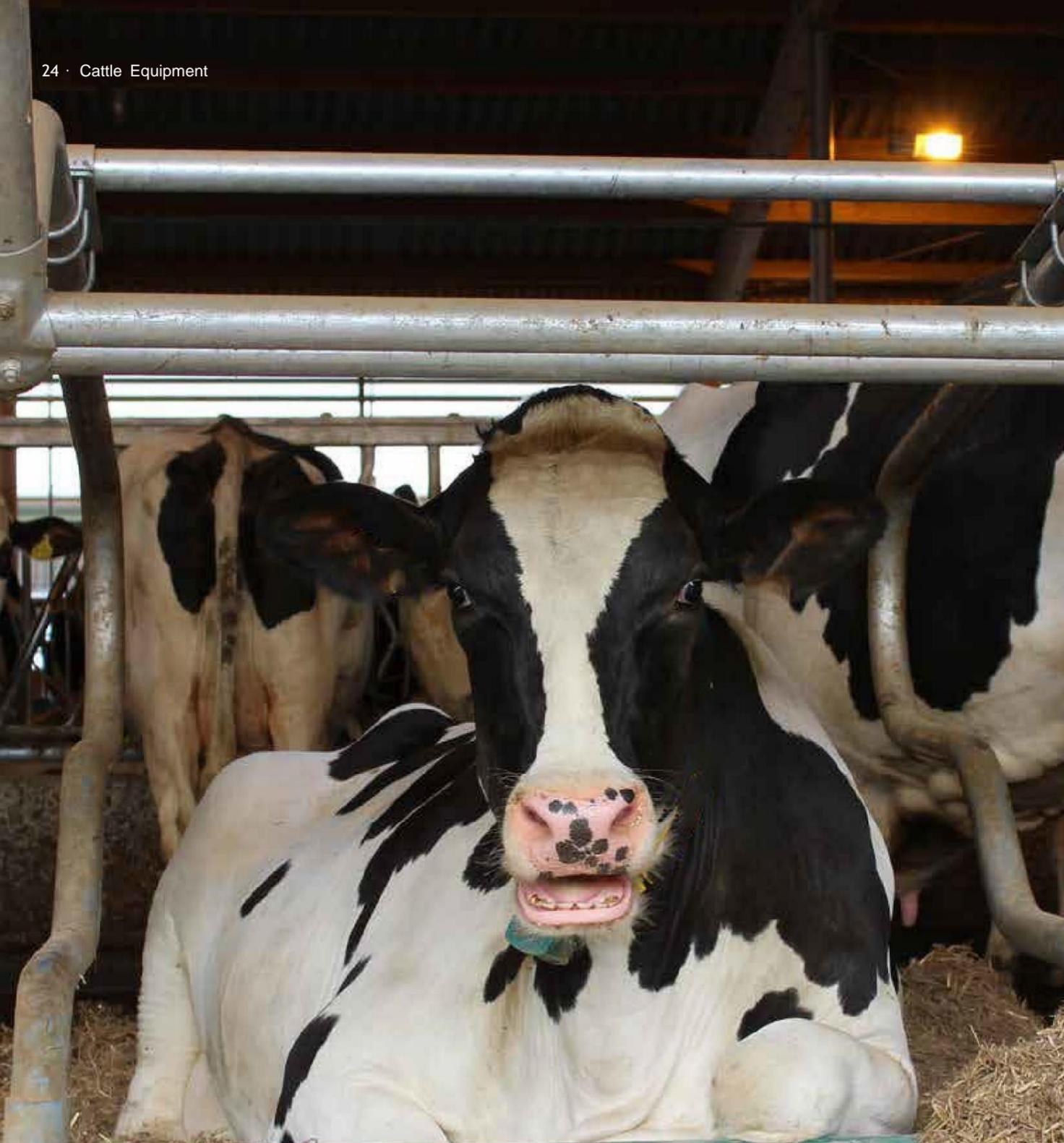
SM551-6



SM552-8



SM553-6



## Cattle equipment - Resting in the "bed"

When selecting cubicles for your cows, the animals' well-being and efficient use of the stall are equally important. You also have to be aware of legal regulations which define the minimum space requirements. Our cubicles are designed to not only help you to make maximum use of the space available, but also increase the standards of comfort for the cow.

Our cubicles are designed to accommodate the natural movement patterns of the cows and to ensure that hygiene measures can be carried out unrestricted. Results show that using cubicles can increase and consolidate yields. We

have taken the following measures to ensure that the cubicles accommodate the cows' natural movement patterns:

- **Space for forward movements** – plenty of room at the front to ensure unrestricted movement, particularly when standing up
- **Freedom from barriers** – an unobstructed design at the front avoids knocks
- **Animal-friendly guidance** – with a knee barrier and perfectly positioned neck bar
- **Safety** – non-slip surface for secure footing
- **Protection for the joints** – a soft surface to lie on that prevents bruising and joint injuries

THE PRODUCT PORTFOLIO features a range of individual cubicle division solutions to suit the needs of every farm.

Recommended dimensions for cubicle divisions

Age in months	Product	Recommended length single row		Minimum length single row	Recommended length of double row	Minimum length of double row	Center to center cubicle width	
		Wall row	Single row				US	Comfort
> 22 months	2-D Optima	> 280-305 cm	> 250 cm	235 cm	> 500-550 cm	460 cm	± 115-132 cm	± 110-132 cm
	Other cubicles	> 280-305 cm	> 250 cm	220 cm	> 500-550 cm	430 cm	± 115-132 cm	± 110-132 cm

## Streamlined bar

### Streamlined bar - for the resting area

The streamlined bar is designed for use in free barns. Cows that lie straight and are correctly positioned to the rear side of the cubicle stay cleaner and cause less disturbance to their neighbours. This makes the barn calmer and more hygienic, and also reduces the farmer's workload. When combined with a cubicle division, the wave shoulder bar ensures that cows are guided into a straight position in the stall. This is the optimum position for them to lie down from.

Using a streamlined bar also increases the animals' freedom of movement. Wave shoulder bar allows the shoulder-height/diagonal neck bar to be raised by approximately 30 cm. This makes it perfect for smaller cubicles, for example when a barn is converted. The waved neck bar is available for a variety of

cubicle widths. You can also combine various sizes to achieve the perfect dimensions.

A shoulder bar consists of four components: universal starting section, middle section (available for a variety of cubicle widths), universal end section and a connector.



## Cubicle Spare Parts

There are many kinds of accessories available for the cubicle. On this page you will find a selection of our range. We can provide you with information about prefabricated solutions.





## Cow Rubber Mats

Cow comfort and well-being is increasingly drawing more attention. The advantages are evident both from a social point of view and also an economical one. A well-rested cow also ruminates more efficiently, is able to produce more milk and is able to rest its feet and legs. Essential in a rubber mat is the amount of grip it provides. This means that the cow will feel much more confident lying down and standing up.

Our rubber mat is designed to eliminate this problem. This rubber cow mat for tied-up barns absorbs the shock from lying down, securing comfortable conditions for cows to stand and lie down painlessly. With this rubber mat cows can rise up easily after resting in comfort: rise, eat, and drink enough to produce large quantities of high quality milk.

# SM 2501



### Your benefits at a glance:

- High durability because of the thick and high quality rubber
- Closed surface without joints for better cleaning
- Easy installation because it is supplied on rolls and therefore one system
- High stability due to own weight - there will be no folding of the mats when the cows are lying down
- Surface texture agreeable for the cow's skin
- Reinforced fabric for strength and flexibility



Upside



Downside

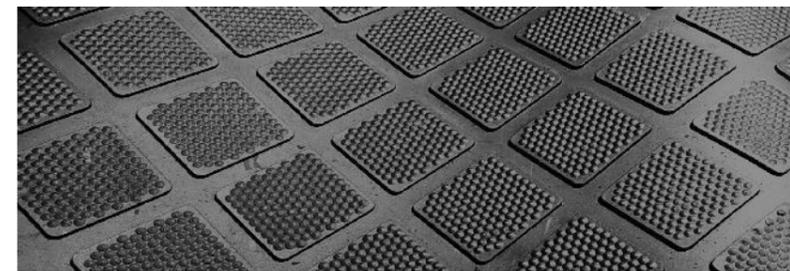
Features	Advantages	Benefits
Synthetic rubber	<ul style="list-style-type: none"> <li>• Industrial quality</li> <li>• Fiber reinforced</li> </ul>	<ul style="list-style-type: none"> <li>• Durability, cow comfort</li> <li>• Consistent quality</li> <li>• For flexibility and strength</li> </ul>
Various model available	<ul style="list-style-type: none"> <li>• 1830*1220*12mm</li> <li>• 1830*1220*17mm</li> <li>• 2000*1000*12mm</li> <li>• 2000*1000*17mm</li> <li>• 2000*1000*20mm</li> </ul>	<ul style="list-style-type: none"> <li>• Cow comfort</li> <li>• More grip standing up</li> <li>• Easy to install</li> <li>• Low installation costs</li> </ul>

# SM 2502



### Your benefits at a glance:

- Most suitable for youngstock because of the different widths
- High durability because of the thick and high quality rubber
- Closed surface without joints for better cleaning
- Easy installation because it is supplied on rolls and therefore one system
- High stability due to own weight - there will be no folding of the mats when the cows or youngstock are lying down
- Surface texture agreeable for the cow's skin
- Reinforced fabric for strength and flexibility



Upside



Downside

Features	Advantages	Benefits
Synthetic rubber	<ul style="list-style-type: none"> <li>• Industrial quality</li> <li>• Fiber reinforced</li> </ul>	<ul style="list-style-type: none"> <li>• Durability, cow comfort</li> <li>• Consistent quality</li> <li>• For flexibility and strength</li> </ul>
Various thickness available	<ul style="list-style-type: none"> <li>• 8-20mm or more (For flexibility)</li> </ul>	<ul style="list-style-type: none"> <li>• Cow comfort</li> <li>• More grip standing up</li> </ul>
Supplied on rolls	<ul style="list-style-type: none"> <li>• No additional products needed</li> </ul>	<ul style="list-style-type: none"> <li>• Easy to install</li> <li>• Low installation costs</li> </ul>
Various widths available	<ul style="list-style-type: none"> <li>• 1200 - 2000 mm</li> </ul>	<ul style="list-style-type: none"> <li>• For different age categories</li> </ul>



**BARN CONCEPTS**  
 should ensure that feeding and drinking  
 can take place in a calm and orderly  
 manner to guarantee top-quality  
 milk production.



## Feeding

The feeding range includes reliable water supply products and high-quality feed fences, as well as efficient solutions for automated feeding. We provide a top-quality range of products for all of the major procedures on the farm, including automated feed systems, a range of feed fences, and systems that ensure a constant, clean fresh water supply.

Prepare your barn for the future with the automated feed supply systems. This pioneering technology is reliable, efficient and saves time.

And it doesn't stop there. The optimized feed mixing, weighing and distribution features, and clear savings in effective working time in this area, make a significant contribution to efficient and profitable milk production.

# Head Lock

## Twist&Lock - self-locking safety feed fences

The unique Twist&Lock feed fence from enables individual animals to be held in place by using a rotary knob. Individual animals can be separated from the other animals comfortably and without the herd scattering. Twist&Lock also features

bronze bearings to ensure a long service life and an overhead profile for simple operation and maintenance. Similar to all feed fences in the range, the Twist&Lock is also very animal-friendly and prevents injuries from occurring.



### Your benefits at a glance:

- Animal friendly: ergonomic unobstructed design
- Better and more secure animal separation: hold individual animals in place with a rotary knob
- Long service life: bronze bearings
- Simple assembly and maintenance: modular design
- Very quiet

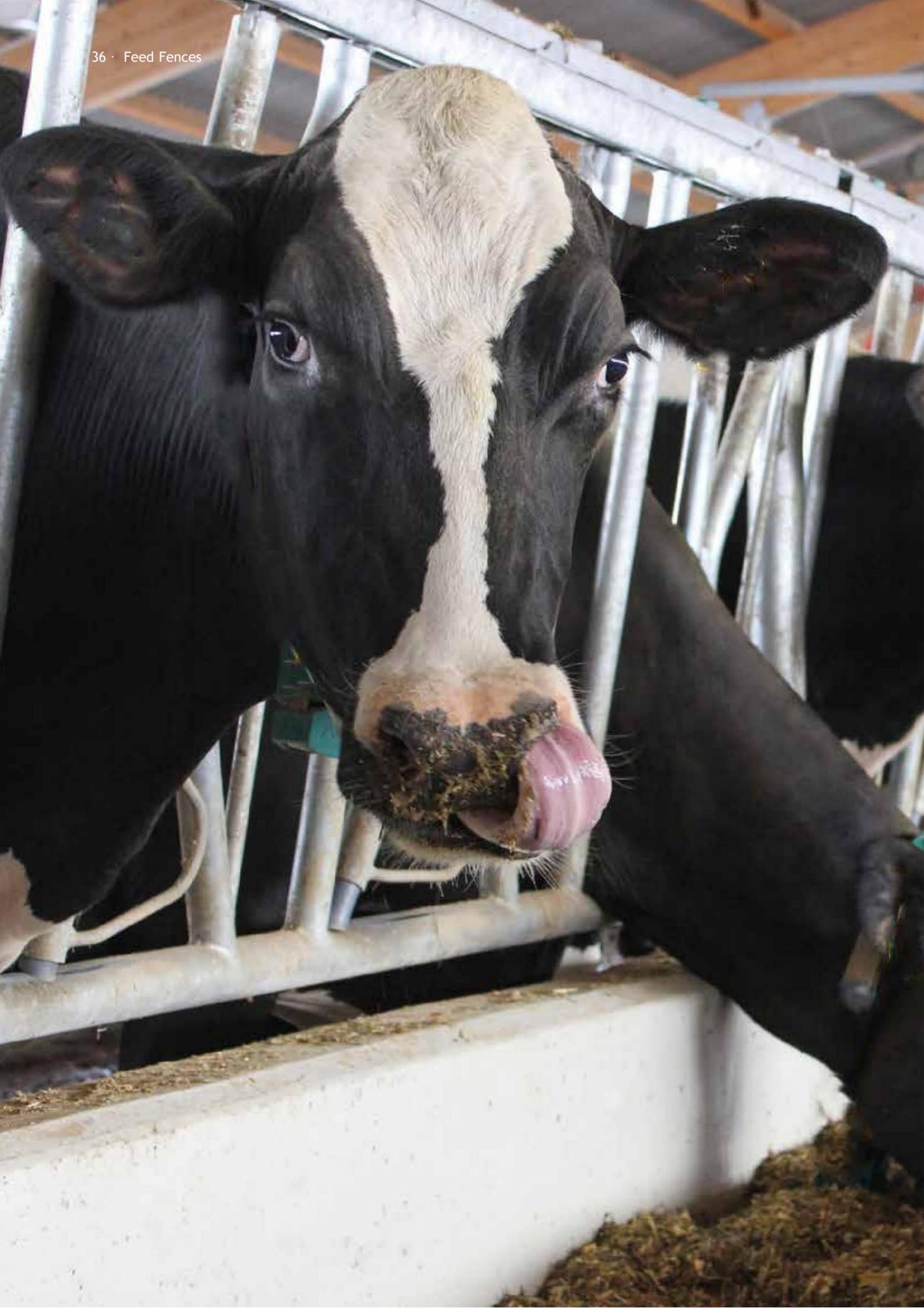
### Twist&Lock self-locking function

When the lever is in the self-locking position, the push buttons on the Twist&Lock safety feed fence are released and raised upwards. The hinged pole is locked in position when the cow puts its head through the head section and bends down towards the feed.



Very animal-friendly, rounded pivot point. Bronze bearing bushings for many years of wear-free operation individual feeding station, while the rest of the group is released.

Available with or without a central locking function. The feed fence is tailored to your needs.



## Diagonal feed fences

The diagonal feed fence forms a solid division between the animals' movement and feeding areas and the feeding lane. The animals are separated from each other for feeding without excessive crowding, and can be fed with minimal feed loss, just as effectively as with a feed bar. The diagonal feed fence is available for calves, young cattle and large cattle.



### Your benefits at a glance:

- Durable: sturdy design made from robust steel tubing
- Variety of installation options: can be mounted on stanchions or rafters
- Versatile: available for calves, young cattle and large cattle



# Watertroughs

## Watermaster and Watermatic thermo-troughs

The design and features of the Watermaster make it the optimum solution for supplying fresh water to large barns. The robust, completely enclosed polyethylene outer wall is impact-resistant, animal-friendly due its lack of sharp edges and rounded shape, and also moisture-proof due to its protective polyurethane insulation. This last feature also ensures that the water system does not freeze during the colder months. An optional heating element may be retrofitted in areas that suffer from extreme frost. The float has a high capacity and can be maintained without tools.



SM401



SM402



SM404



SM403



### Your benefits at a glance:

- Optimum fresh water concept
- Frost-free due to polyurethane foam layer
- Optional heating element for extremely low temperatures
- Robust polyethylene outer shell
- Drainage plugs and rounded edges and corners make it easy to clean



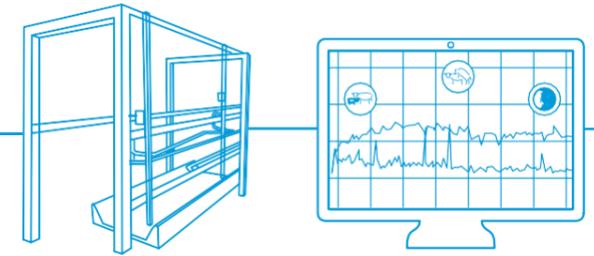
## Water drinking bowl



SM301



**COW ROUTING & SELECTION** Each individual cow and herd has its own requirements. As such, a professional and well-developed system for animal selection is the key to the success on your farm.



## Sorting System

Medium and large size dairy farmers treat a significant number of cows on any given day. Breeding, pregnancy, post calving checks, and veterinary treatment for sick cows is just a short-list of checks and examinations that farmers have to perform regularly.

Tracking, selecting and monitoring is an important and demanding task for the herdsman. It is time consuming, requiring data analysis, and can often result in animals being left unattended.



**SM Sort is an essential tool in modern dairy farming. It is a labor saving system that ensures that no cow is left unattended.**

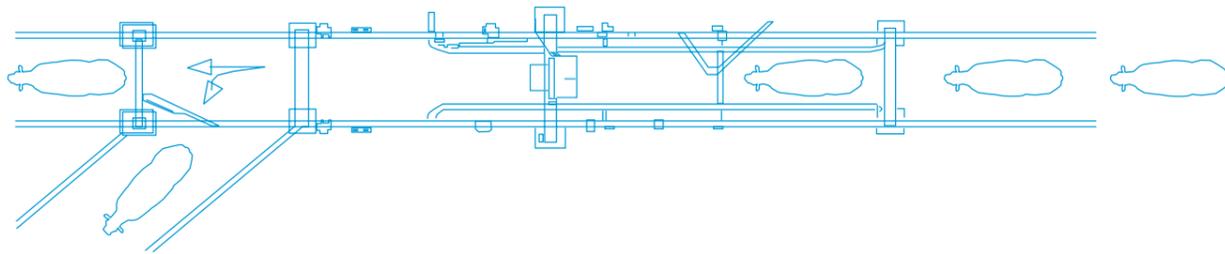
On a farm, tracing the targeted cows among an anonymous mass is as time consuming as finding a needle in a haystack. This task requires extra hands on the dairy farm.

The Sort Automated Cow traffic control system is the most efficient solution for treating cows in a dairy farm.

SM Sort is a computerized gate control system specially designed to direct cow traffic. Using the comprehensive SM Farm database, an accurate and consistent method of selecting and sorting cows is achieved automatically.

SM Sort unique design of walk through station minimize interference to cow traffic thus causing no delays in milking.

SM sort is used for separating cows for breeding and other fertility treatments into treatment yards or chutes. This eliminates the need for headlocks in the pens.



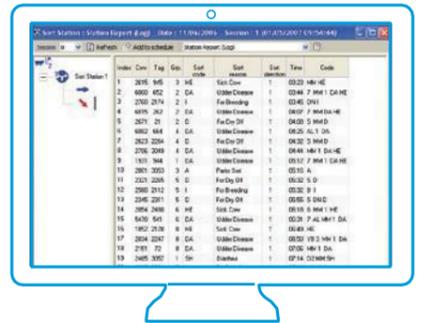
## Features

### Automated Cow Selection

SM Sorting automatically traces the cows that need your attention every day. All you need to do is define the criteria for cows requiring attention and SM Sort does the rest. SMSort controls the sorting gates and separates the cows into their respective treatment areas according to your pre-defined instructions.

### Computerized Herd-Control

Leaving the milking parlor, selected groups of cows can be diverted back to their pens. This capability is also used to automatically move cows between pens.



### Targeting Cows for Breeding

SM Sorting is used for efficiently isolating cows for breeding. This enables quick insemination of cows and avoids the need to stroll over large areas seeking out the cows for insemination.



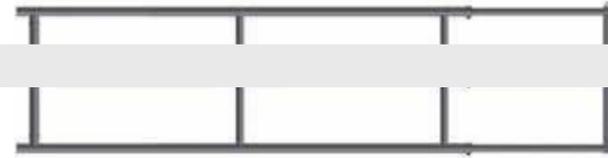
## Separation fences



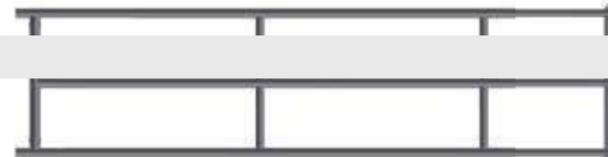
### Your benefits at a glance:

- Versatile: modular system with varied elements
- Cost-effective: optimum space utilization
- Animal-friendly: guides the animals safely to their destination
- Easy operation
- Adaptable to individual needs
- Simple, safe locking

### Separation fences adjustable



### Separation fences extendable



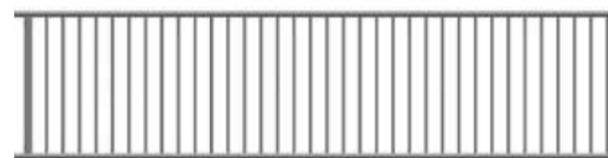
### Separation fences adjustable + slide tubes



### Separation fences

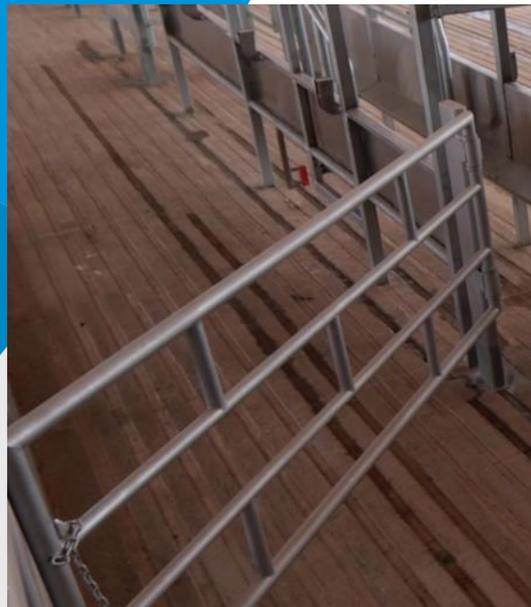


### Separations fences with vertical tubes



### Application separation fences

Age in months						
		2H	3H	4H	5H	2V
Dairy cows	> 22	●	●	●	●	●
Heifers	19 t/m 22	●	●	●	●	●
Young stock	7 t/m 18		●	●	●	
Calving cows	> 22				●	●
Calves	0.5 t/m 6				●	●
<b>Recommended fence height topside in cm measured from the top of the bedding/floor</b>						
Dairy cows	> 22	120 - 130	140 - 150	140 - 150	140 - 150	140 - 150
Heifers	19 t/m 22	120 - 130	140 - 150	140 - 150	140 - 150	140 - 150
Young stock	7 t/m 18			140 - 150	140 - 150	140 - 150
Calving cows	> 22				150	140
Calves	0.5 t/m 6				150	140
<b>Recommended fence height bottom side in cm measured from the top of the bedding/floor</b>						
Dairy cows	> 22	70 - 80	50 - 60	35 - 40	20 - 30	30 - 40
Heifers	19 t/m 22	70 - 80	50 - 60	35 - 40	20 - 30	30 - 40
Young stock	7 t/m 18			35 - 40	20 - 30	30 - 40
Calving cows	> 22				20	20
Calves	0.5 t/m 6				20	20



# Weighing System

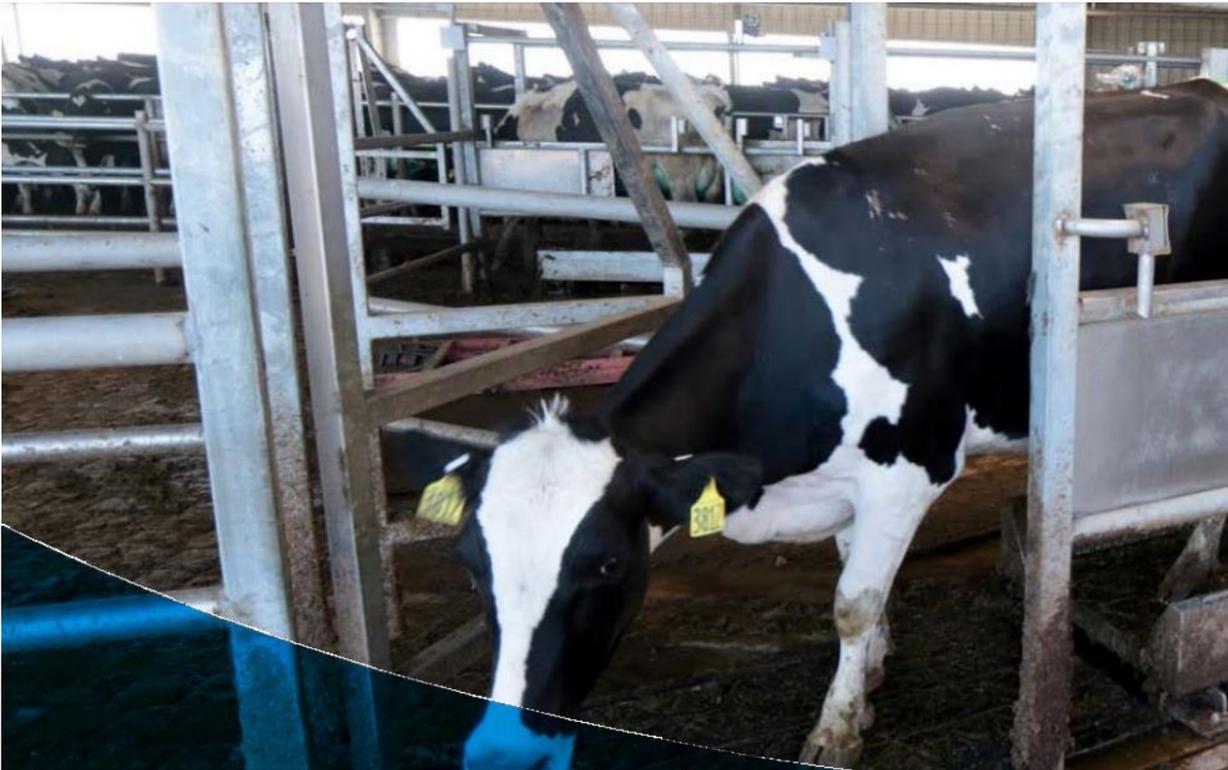
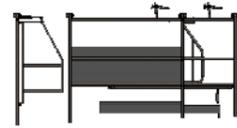
## Why is it necessary to weigh the cows?

The dry and fresh period of a dairy cow determine production and breeding performance during lactation. The cows with an elevated production performance that go through a post-calving transition phase require more energy than what they consume for milk production (fat) and to maintain weight. Therefore, these animals suffer a considerable energy unbalance which is connected to a high risk of metabolic disorders and other health issues.



### Your benefits at a glance:

- Improve operational efficiency and increase total milk production of the herd.
- Optimal insemination
- Early detection of subclinical ketosis
- Making feeding adjustments
- Elaborate and supply individual rations for an immediate treatment of feeding and health problems.



# Automatic Crowd Gate System

## What is the crowd gate

The Smart Gate is a fully automated lightweight crowd gate system that moves towards the parlor according to the cow's throughput and rotary's speed. Once that one pen has been herded, the system will only require the press of a button to move it back to its original position, getting it ready to herd the next one.

## Features:

- Fully automated back and forth movement
- heavy duty components
- Low maintenance required
- Cow-friendly design
- Low air consumption pneumatic lifting gate
- Audible alarm
- Light weight and strong lifting gate
- Adaptable to any holding pen size



### Your benefits at a glance:

- Silent and stress free milking environment
- Optimizes labor during milking sessions





### GOOD FARM CLIMATE

A good farm climate is a fundamental requirement for a high level of cattle comfort. And this pays off. It ensures that increase the milk production yields, improves also the quality of beef and reduces the costs of energy and ventilation, both in summer and in winter.



## Farm Environment

Changes in temperature, stress caused by light, wind and precipitation, as well as room and animal-related thermal processes within the barn are just some of the factors which affect the barn climate. Precise control and regulation of these factors is essential to ensuring the animals benefit from the optimum climate conditions. Adequate ventilation and stable temperatures have a direct effect on the well-being of the herd and thus on the milk yield.



The climate-related products in our product line both ensure a high yield from the herd by providing targeted stress-reduction, and also reduce illness-related losses. In addition, the fitting and retrofitting of climate related equipment protects the farm's assets, for instance, by preventing the build-up of condensation in winter.



## Cow Brushes

### Benefits for cow comfort

- Swinging cow brush grooms cows all over
- Essential for cow comfort
- Improves cow health and welfare
- Improves herd reproduction and performance
- Easy to maintain and keep clean
- Low energy consumption for high cow comfort
- Improves milk production

### Saves energy

The energy-saving automatic on/off control starts the brush rotating on demand and stops it within 10 seconds after use. The new design is energy efficient using approximately a third less power than the previous model.

### Safety and performance

The unique design of a swinging cow brush has built-in safety. It rotates at a safe cow-friendly speed and will immediately stop if there is resistance. Toolnew has sensitive overload protection against overheating and a significantly lower working temperature than the previous model. It also meets the protective criteria of IP65.

### Improves cow traffic - and comfort

Minimal installation space is needed for cow brush – but leave room for the cow queue! As the brush is so popular, it helps cow traffic flow if it is installed in the right place. It prevents cows from hurting themselves by scratching on any available surface. One brush can efficiently groom up to 60 cows, keeping them cleaner, healthier and more comfortable. This brush operates more quietly than the previous model, for even calmer, less stressed cows.



Cleaning and brushing intensity	Cow Brush Swing	Cow Brush Duo
Back of the cow	●	●●
Head of the cow	●	●●
Tail implant of the cow	●	●●
Edges of the cow	●●	●●
Cleaning Pressure	●	●●

Swinging cow brush  
– your solution, every day.



## Chain winch manure removal systems



### Your benefits at a glance:

- Simple installation with pre-assembled equipment
- Low costs due to low drive power
- Housing for safe operation
- Reliable drive technology for maximum efficiency
- Stroke length up to 65 m

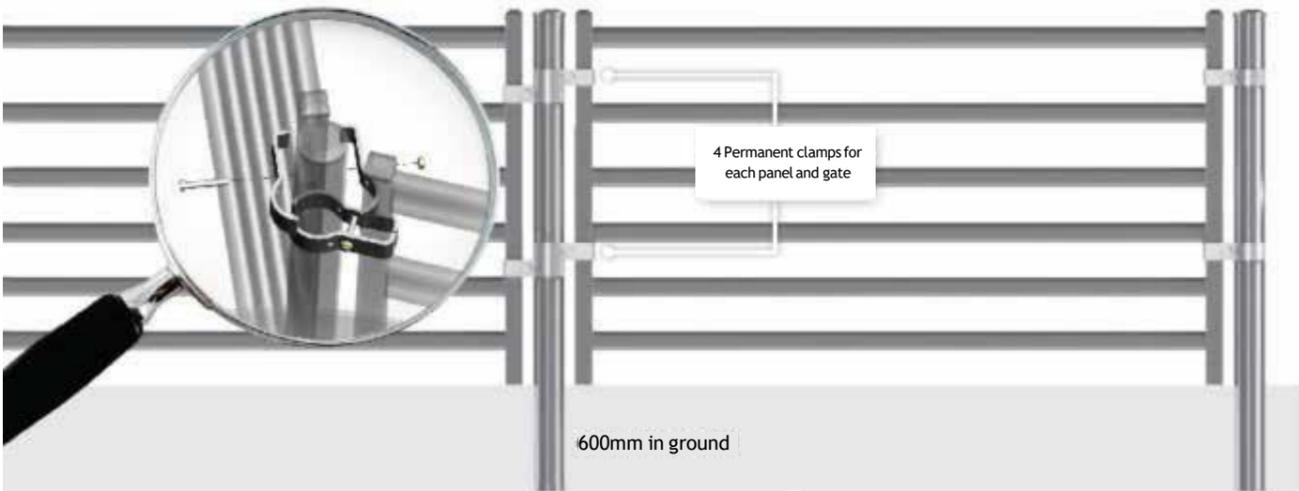
We offers the customized chain winch manure removal systems for walkways of up to 200 m. The systems are characterized by their ease of maintenance, long service life and efficiency.

# CATTLE YARD AND CATTLE CRUSH

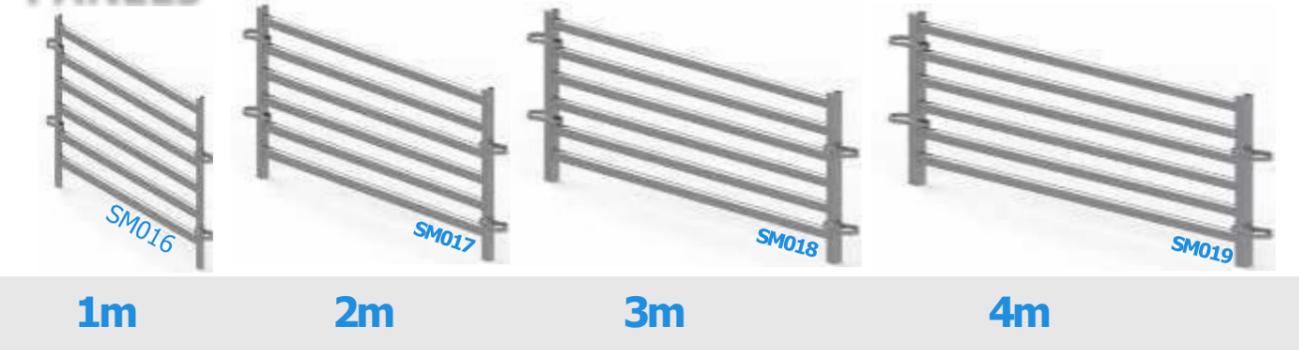


**GUIDE FOR SAFE DESIGN OF  
LIVESTOCK LOADING RAMPS AND FORCING  
YARDS**

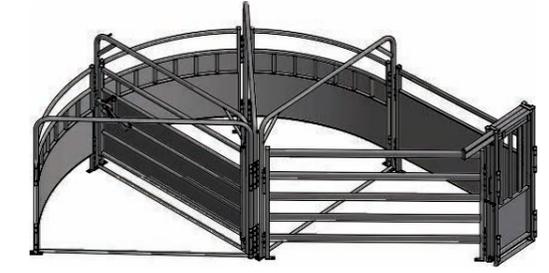
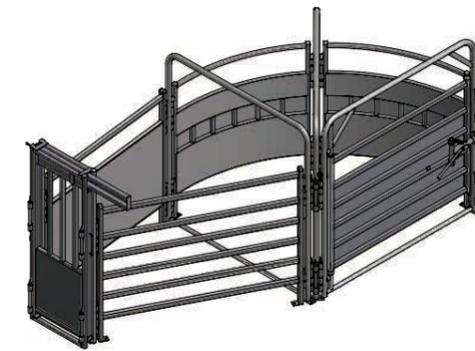
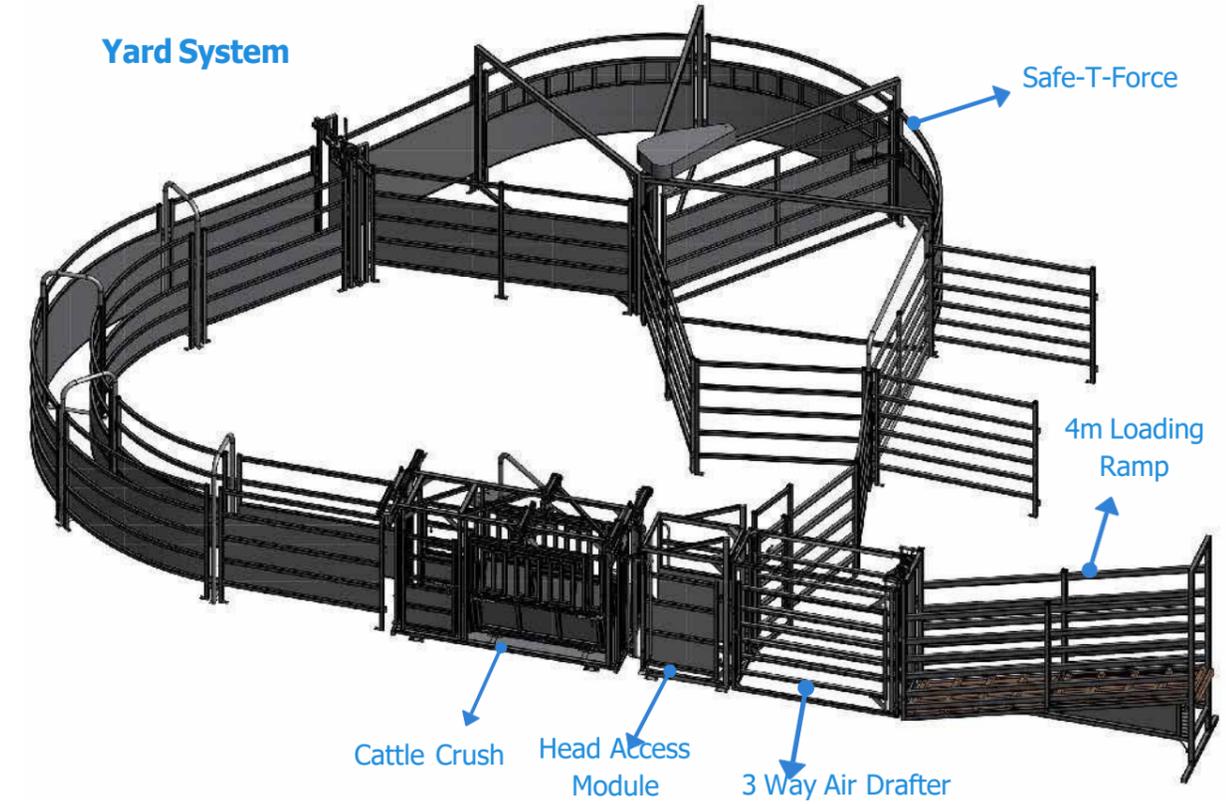
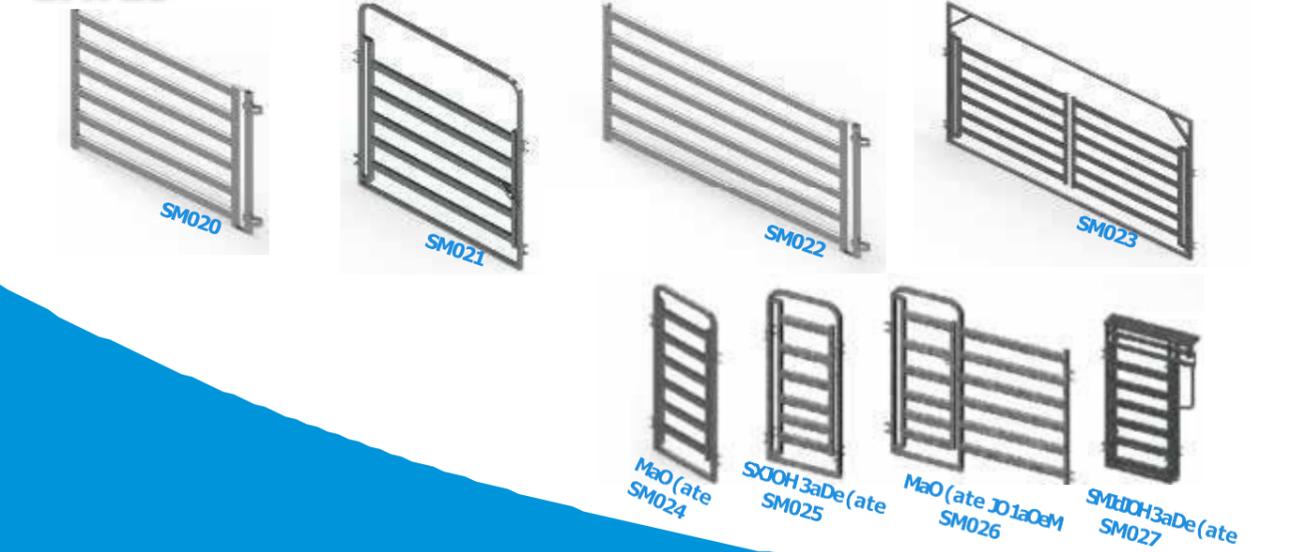
# Permanent Yard Systems Available in SM Rail PREMIUM & Cattle Rail Standard



## PANELS



## GATES



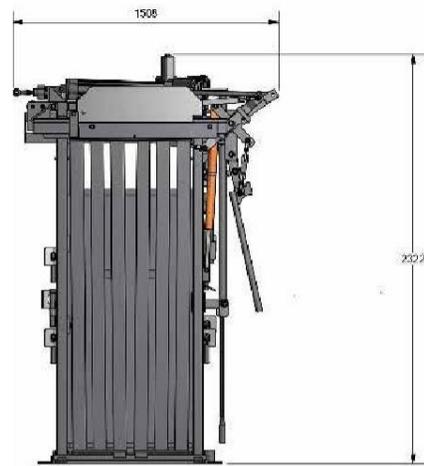
# Permanent Yard Systems

## Cattle Crush With Advanced Weighing System



### STANDARD FEATURES

- Heavy Duty Crush using High Tensile Galvanized Steel
- Small Feedlot/ Large Commercial Operation
- Parallel double sided squeeze
- Spey & injection gates
- Swing-away Control Panel Operation 100mm
- Pneumatic Cylinders on Bail and Squeeze – Fully Speed Controllable
- Rose Joint Bearing Linkage
- Hydra Lock Head bail and Squeeze
- Front and Rear Operation Standard
- Straight rubber lined head bail
- doorsBall bearing head bail pivot
- Sound Proofing
- Reduced labor costs
- Power lock Linkage

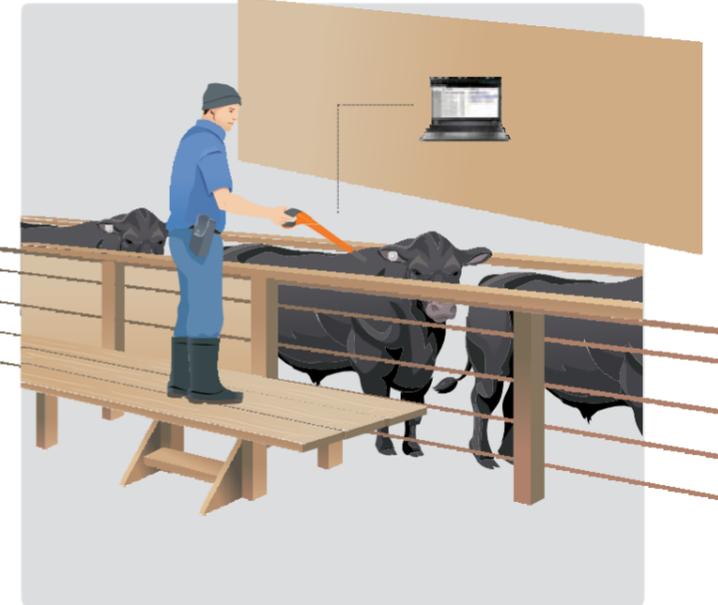


## Weigh only system

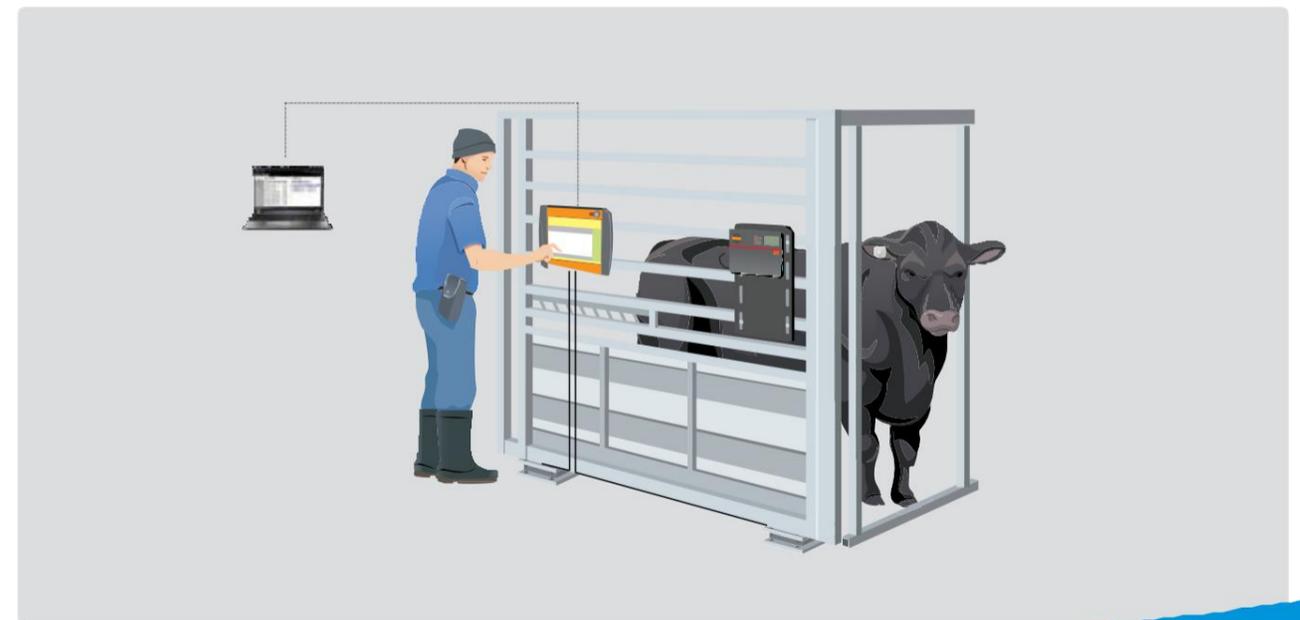
An easy to use yet powerful system that accurately measures animal weight so that farmers can track performance.

## EID only system

The quick and easy way to comply with NAIT traceability legislation, and to collect animal data anywhere on farm.



The best option for farmers looking to manage their business more profitability. An advanced system that works together to automate animal management and handling tasks, saving time and money.



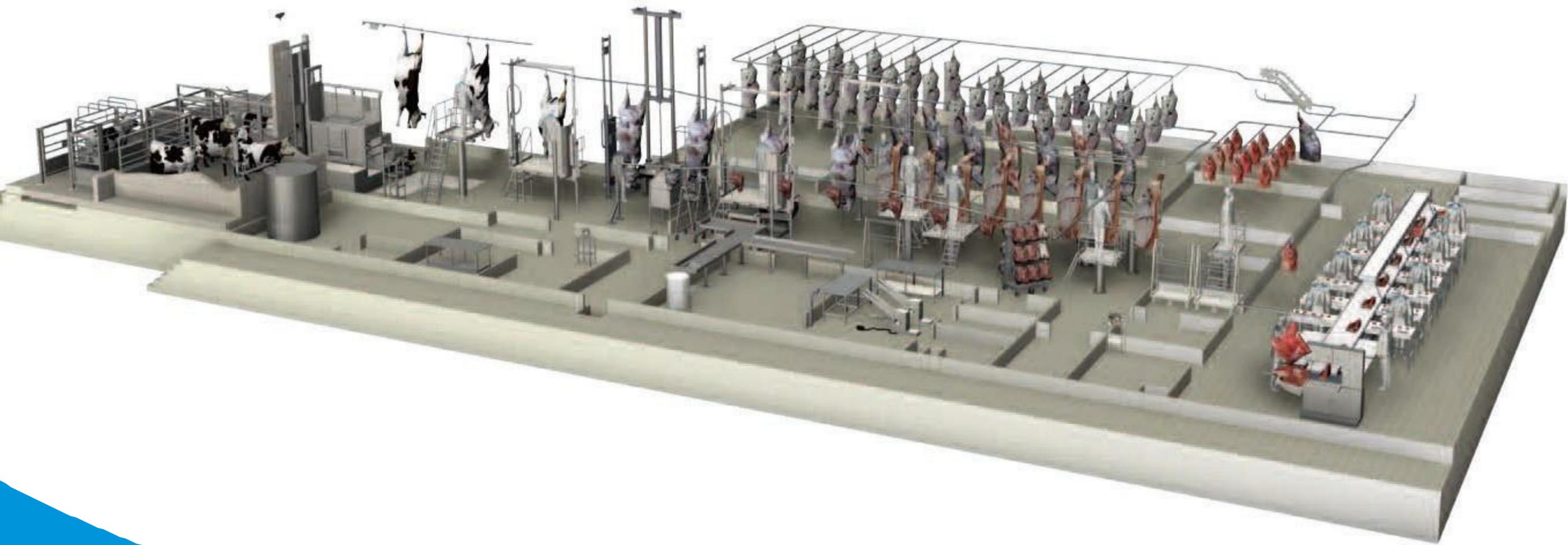
# SM animal slaughter house

## Solutions that fulfill your needs

**We delivers cattle slaughtering plants with a capacity of 50 to 500 animals per hour per line, throughout the world.**

Our priorities are quality, reliability and efficiency. At the same time, we are able to fulfill our obligations for the slaughtering and conveying systems in adherence with the guidelines for hygiene and food safety.

Conveying technology is crucial for the correct production flow of a slaughter line.





Turn Key Solution  
Professional team with many years



## Steel Structure

Steel structure is made from organized combination of structural steel members designed to carry loads and provide adequate rigidity. The members of the steel structures are made of steel and are joined by welding, riveting or bolting. These structures are reliable and require less material than other types of structures due to the high strength of steel which are distinguished by the diversity of their shapes and their architectural expressiveness.



### Our advantage at a glance:

- Environment friendly
- Lower cost and long life span
- Stable and earthquake resistance
- Fast construction, time saving and labor saving
- Good appearance





## We live our values.

Excellence • Passion • Integrity • Responsibility

The Manufacturer takes a holistic approach and provide integrated solutions for dairy projects. We are convinced that successful dairy projects demand an effective technology transfer process, one that enables and empowers local teams to properly handle such complex activities. This is why we offer professional technical guidance and support as an essential part of our commitment to our customers.