

We care for milk  
We care for life



**SYLCO**  
H E L L A S  
K. SYLEOS S.A.

A D V A N C E D   A N I M A L   F A R M   S O L U T I O N S





# SIDE BY SIDE

Side by side parlors are the most productive parlors. They are the optimal solution when you need parlor with more than 24 milking points.

In combination with **SYLCO rotary exit** performance is boosted. Side by side parlors need minimal space. (30% gain). The milker moves less.



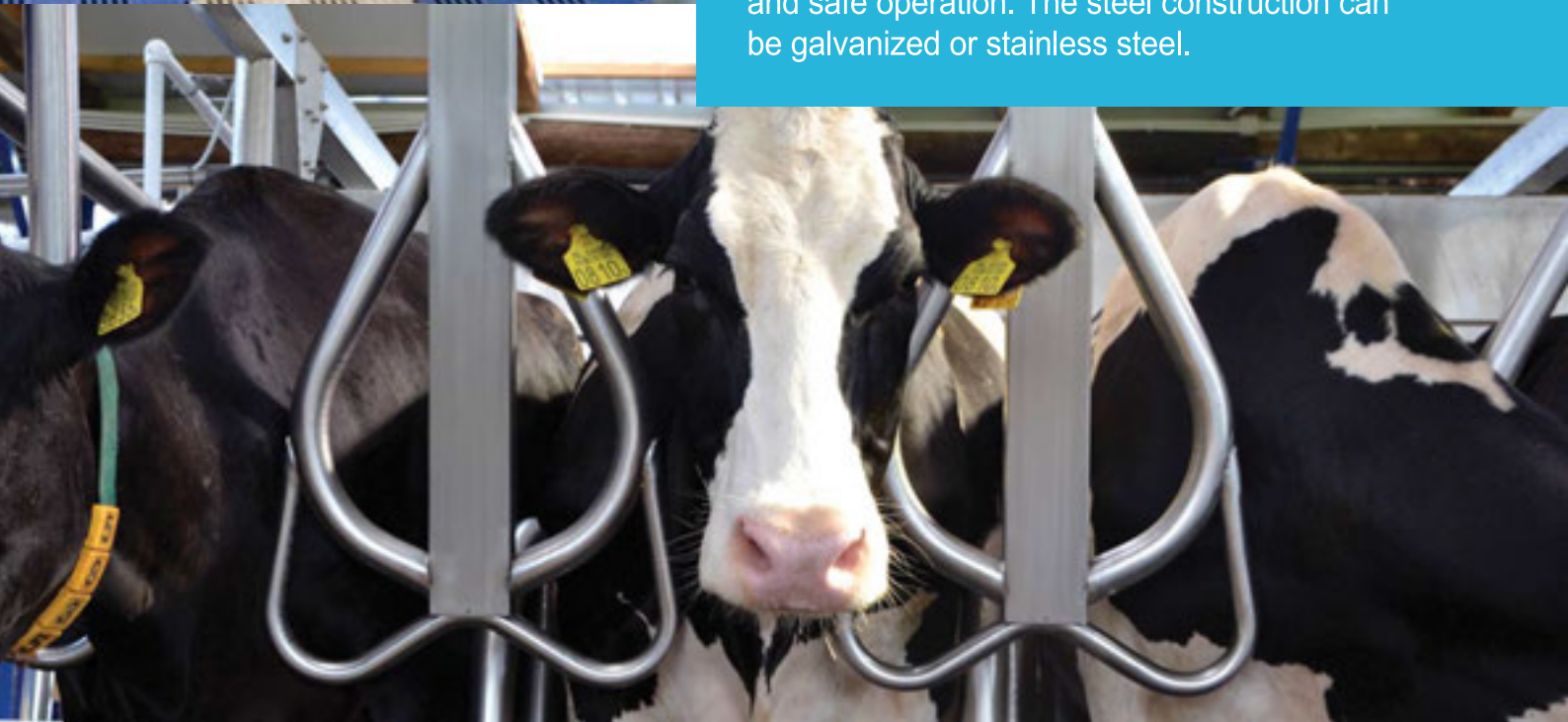




SYLCO side by side parlors have a built in manure gutter. Is it also very safe, the position of animals prevents them from kicking.

The rotary exit speeds up the exit of animals. Within seconds the parlor is empty and the next animals come in to get milked.

The system incorporates failsafes for fast and safe operation. The steel construction can be galvanized or stainless steel.







# HERRINGBONE

This is the classic type milking parlor that is ideal solution for farms that require a milking parlor with a size up to 24 milking points. The udder is accessible by the side. It provides a lot of space for the milker and very good visual inspection of the udder.

The steel construction is designed so as to provide improved ergonomics and safety for the milker. Special support brackets are used to fix the construction on the walls, leaving the entire space between the metal

construction and the animal platform completely free, with no vertical supports. The milker has more room to move freely, protected from possible accidents, (not possible to squeeze his hands between animals and vertical supports), quite frequent in other constructions.

There are protective shields for the milker in case an animal urinates. The construction is extremely strong, hot dip galvanized. There is also a full stainless steel version.

## FEEDING IN THE PARLOR

All SYLCO milking parlors can be equipped with mangers for feeding animals in the parlor. Dosing systems can also be mounted as stand alone or to be controlled by a central processing unit.







## ROTARY EXIT

Adding a rotary exit to the parlor increases the performance of the parlor by 20% in comparison to conventional parlors.

The more points you have in a parlor, the higher the gain in time. With the rotary exit installed, all animals are out of the parlor within seconds. The exit is not just lifted to open position. It performs a full rotation, and drives out any animals that stay behind.

The animals are calmer, because they do not have to be squished with their head next to a wall. There is enough space in front of them, which gives them more comfort during milking.

There is the possibility of regulating the point that rotary exit stops, depending on the size of the animals in the parlor.





# VACUUM PUMPS

The new **SYLCO ECO line** vacuum pumps deliver the stability and durability needed for professional milking with respect to the environment.

The **SYLCO ECO line vacuum pumps** are the result of extended research and testing. Our RnD applied innovated solutions in order to have maximum efficiency with minimum environment costs.

The new principles we applied in designing and high precision machining resulted in 30% lower power consumption, with less noise produced.

They are designed to work at very low speeds if needed without rising temperature.

This is extremely important when working with a VCU.

**Environment  
Friendly!**



## KNS 250D

The new **KNS 250D** is the entry level vacuum pump. It is a dry vane type pump coupled with a **1 HP** electric motor. It is redesigned to be more efficient with less noise. It delivers the necessary vacuum with no needed maintenance.

It is ideal for small milking machines especially moving Karts.







### **SVP 1200**

The **SVP 1200** is an oil lubricated high efficiency vacuum pump. It is part of the new generation **ECO line pumps**.

It is designed to work on small milking installations either with buckets or with milk transfer line.

The group can be purchased with a smaller motor to cover the needs of the farm and upgraded later with a bigger to get the full potential of the pump when really needed.

It delivers its full power when used together with **3HP** electric motor.

**Vacuum pump life is extended.**

### **Vacuum Pump Control Unit**

The **ECO line VCU** can take control of one or multiple vacuum units.



It can start and stop them as needed or at a designated pattern.

It interacts with the **ESR** (Electronic Servo Regulator) in a unique way to keep vacuum level more stable than ever and power consumption to the minimum.



### **SVP 2200**

The **SVP 2200** is an oil lubricated high efficiency vacuum pump. It is also part of the new generation **ECO line pumps**. It is designed to work on medium and large milking installations with milk transfer lines.

It delivers its full power when used together with **7,5HP** electric motor.



# RECEIVING UNIT



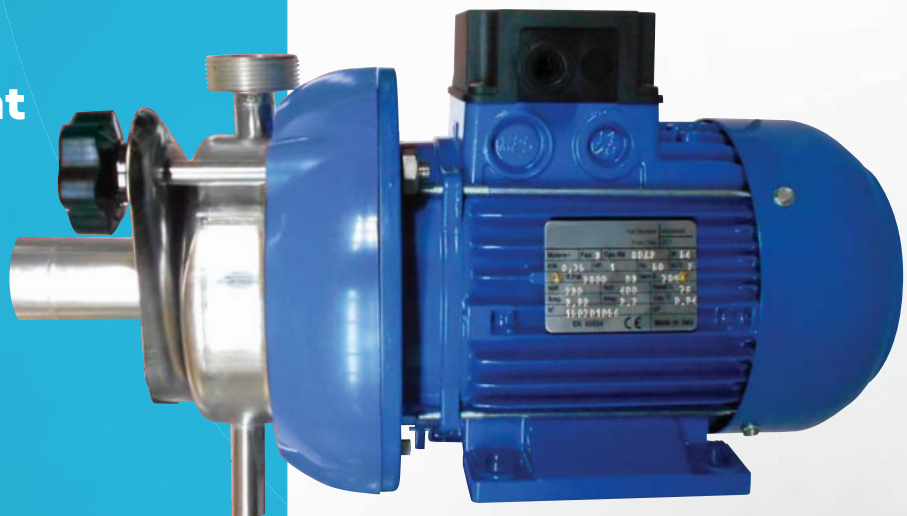
## High Level of Hygiene – Problem free operation

Stainless steel 60 liter receiving unit collector, drastically reduces the possibility of malfunctions of the parlor, while **1 HP** stainless steel milk pump transfers the milk fast and helps in effective cleaning the installation thanks to its' high capacity (14,000 liters / hour).

The use of stainless steel pipes, for milk, washing and vacuum line as well as stainless fittings and bends raise hygiene at the highest level possible.

**The large diameter of the pipes used, normalize and enhance the stability of vacuum level.**

**There are different available options for the inlet and outlet of the milk pump.**





# MILKING SET

## Efficient / Fast Safe / Milking

The advanced milking set offers an effective, fast and above all safe for the animals milking.

The liner is made of high quality material, very soft and durable. There is a silicone version that has twice the lifespan of a regular liner. The oval shape helps to faster seal the liner during the resting phase, to relieve the teat from vacuum.

The large full transparent capacity of the claw, allows easy visual inspection and helps normalize the vacuum.

The special arm keeps the milking set in place by relieving it of the excess weight and helps milking animals with problematic breasts.





# FARM MANAGEMENT SYSTEMS

## Total Control

In today's farming, a farmer must make decisions based on accurate data for his livestock.

Problems such as accurate record keeping of animals, recording performance, feeding, reminder for tasks involving animals, mastitis control, the increase in somatic cells, finding which animals are in heat, are now easily handled.

**SYLCO Farm Management** provides the best solution to all management issues and helps to make the right decision.

## It Grows on Demand

The system structure is modular. This means that you can start today with the features that interest you and add more when you need them.

## The individual modules that exist today are:

- Electronic milk metering.
- Measurement of conductivity
- In heat detection.
- Animal history
- Feeding
- Feeding calves
- Separating animals







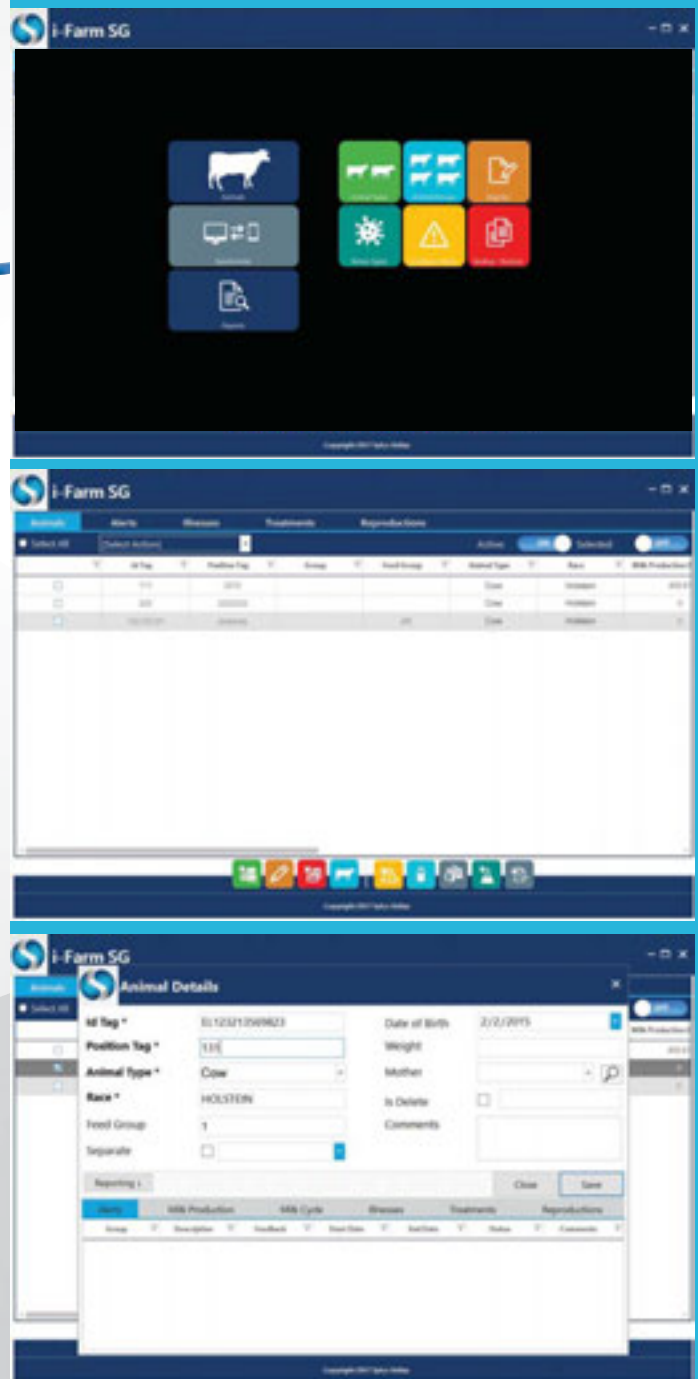
The advanced milk meter is approved by ICAR for official measurement of animal performance. It is simple in construction and has low maintenance needs.

The control panel displays in large legible characters the number of animal being milked, the quantity of milk delivered and whether the animal should have special treatment. The control board also controls the pulsator and automatic removal and offers a variety of features like massage, different pulsation speed and ratio etc.

The conductivity sensor of is external and is not necessary for the operation of quantity recording. The system records the conductivity of the milk of each animal and compares with the average of the same animal.

When a deviation is detected, a sign that somatic cell increased or possible mastitis, it alerts the milker immediately, before even clinical symptoms appear.

Continuous monitoring of animal behavior to find animals in heat, is very difficult, especially in large farms. An activity meter is placed on the animal and records its movement. The transmitter communicates with the system and transfers the data. When a deviation is observed, the user is notified immediately to check the animal.





# ELECTRONIC PULSATORS

One of the most important parts in a parlor is the pulsation system.

SYLCO electronic pulsators and the Central Control Unit that controls them, are top choices for milking parlors.

The Central Control Unit, offers 16 different settings, like choosing different rate for milking the front and rear teats.

All pulsators follow the same constant and unchanging rhythm of milking. Milking speed increases, irritation is reduced.

The pulsators have only a few moving parts and require minimal regular maintenance.



**They operate  
without problems  
even at temperatures  
well below zero!**



# WASHING UNITS/ CLEANING

## Easy, Fast & Proper Cleaning

There are 3 different electronic washing unit. Washing time and stages can be easily programmed by the user. The user can choose from the stored ready procedures or to create his own.

With the press of a button the cleaning process starts. In conjunction with the washing unit, the loop system we apply to all our installations, helps achieve perfect cleaning of the milk line.

## 3 different electronic washing unit





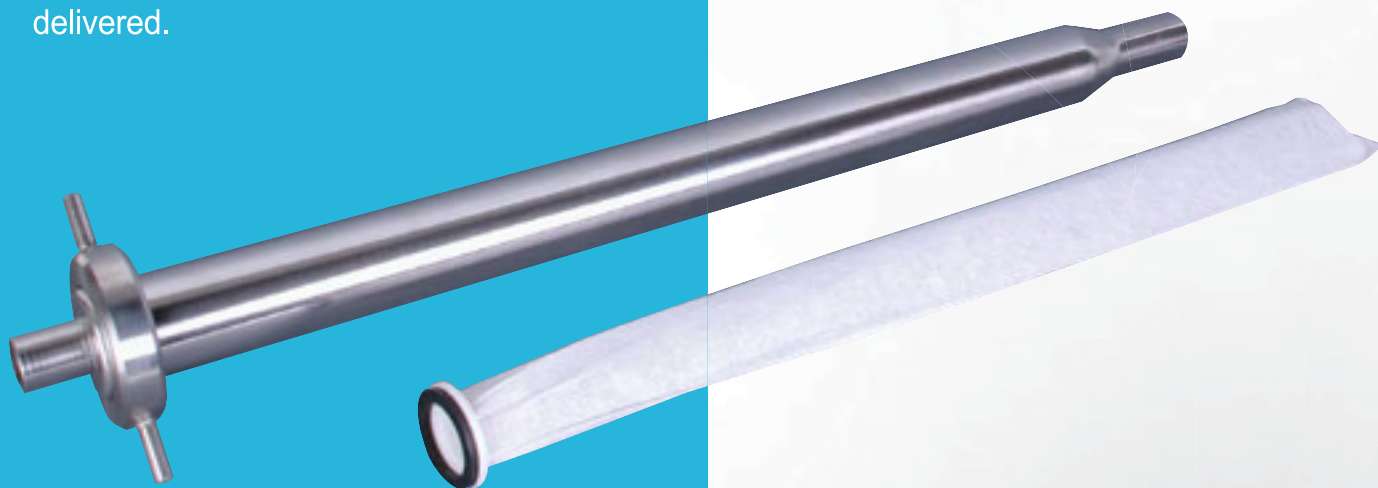
# SPARE PARTS CONSUMABLES CLEANING / FILTERS

Regardless of the initial installation for proper functioning it is essential to use quality spare parts and consumables.

There is a full range of spare parts and consumables to support milking machines.

For certain parts (liners, tubes, filters) it is possible to support milking equipment that was not sold by us with adaptables the share the same high quality as our genuine line.

More than 30 different types of liners, hoses of various diameters and milk filters of all sizes are always ready to be delivered.





# CLEANING LIQUIDS

SYLCO cleaning liquids have the difficult task of cleaning the milking parlor effectively, without damaging rubber parts, while respecting the environment at the same time.

We provide unique solutions to each farm. Our qualified technician will consider your needs and suggest the right product and the dosage required.

# VACUUM PUMP OIL

The new SYLCO vacuum pump oil's special formula protects the pump and extends the lifespan of the pump.

The high quality standards and the special additives for vacuum pumps, help the pump to operate in extreme conditions of cold or high temperature unaffected by dust and dirt and with respect to the environment.



# SOLUTIONS FOR SMALL FARMS

## **KNS 300M**

No matter how small a farm is, the need to milk exists. **SYLCO HELLAS** cares for these farms as well. We provide portable machines for 1 or 2 cows or conventional machines with buckets.

**KNS 300M** is a portable solution that does not compromise on the quality of milking. It can milk 1 or 2 animals. The high capacity vacuum pump (300 liters) offers instantly the necessary vacuum level for proper milking animal.

It is the only portable milking machine that incorporates electronic pulsator, bringing to small farms, quality milking that one can find in large parlors.

The high-speed vacuum regulator stabilizes vacuum level within milliseconds.

**A large vacuum tank lid provides easy access to the interior for cleaning.**





## KNS 300D

- Vacuum pump capacity is 280 liters / minute.
- Motor power 1 HP.
- Vacuum tank is 30 liters.
- Built-in vacuum gauge.
- Integrated vacuum valve.
- Large side cover for easy access to the interior of the vacuum tank.
- 1" pipe vacuum supply.
- Can be mounted on the wall or on the floor.
- Pump with graphite vanes (no oil).

# MILK TANK SCALES GL200

Electronic milk tank scales weigh accurately the amount of milk you produce.

The stainless steel weighing cells and supports can operate without problems in areas like milk tank room where a lot of water and acids exist. It is specifically designed for cooling tanks and are sold with 4, 6 or 8 cells and weighing capacity starting from 2 to 24 tons with a precision of up to 100 grams.



- Has an easy to read display with large characters.
- Certified for accuracy up to 100 grams.
- Displays kilos in real time.
- Stainless steel cells.
- Ability to store 10, 20 or 50 recipes depending on the model.
- Ability to control 4, 10, 20 or screw pump depending on the model.



# DRINKING BOWLS

## Individual Drinking Bowls

Individual drinking bowls are ideal for farms where the animals are confined or live in a limited space. Metal as well as plastic drinking bowls are available, each one with its own specifications.

## Small size – Fresh water

The small size of drinking bowls and the design of flap allow the animals to have easy access to water. Flap is positioned vertically and does not have a curved shape so that remains of straws cannot contaminate water. Water level is kept low and water always stays fresh.

## Easy to Install

Water pipes can be connected to the drinking bowls either from the top or the bottom side. A series of accessories permit mounting on a wall or pipe.

## It is Not Affected by Temperature

It functions without issues even in extreme conditions. Due to its material it does not freeze easily. Even if freezing occurs the drinking bowl does not break. During winter water does not freeze and during summer does not get warm.

## High Quality at Low Cost

Even though its quality exceeds expectations, its cost is very low. It requires minimum maintenance. Its life span is simply limitless.



## SHS PLASTIC DRINKING BOWL

SHS plastic drinking bowl is the result of long-term studies. It combines characteristics that make it an ideal solution for cattle as well as for horses.

## Light but Durable

Just try to break it...it's practically impossible! The special compound used allows the drinking bowl to bend due to external forces but not to break. The drinking bowl will instantly return to its original shape. It is ideal for calves.





# YARD DRINKING TROUGHS

Yard drinking troughs are designed to cover animal needs under loose housing conditions. They can offer to the animals large quantities of water in a short time.

## Easy to Install

The trough can be mounted on a wall or installed on a level surface. Installation is simple and animals can have access to the desirable quantity of fresh water in a few minutes.

## Sturdy Built High Hygiene Standards

All the versions include stainless steel tank and can be wall or ground mounted. The supports are hot deep galvanized.

The tank can be emptied and cleaned very easy. A high capacity filling mechanism refills the trough instantly.





# MATTRESSES

SYLCO ULTRAsoft mattresses help to increase milk production and improve animal health.

SYLCO mattresses provide a thick (10-12cm) layer of soft material that offers unique comfort and thermal insulation. Pure rubber grains that exist inside bedding bags do not absorb moisture thus the possibility of bacterial growth is limited.

These are heavy duty mattresses with weight that exceeds 100 kg per meter.

The individual but interconnecting bags of rubber material stay firmly in place and retain their shape over the years.

The bedding is full from material and thus can not deform.

In contrast with simple rubber mattresses, the bags covering sheet allows perspiration. It also offers an anti skid surface where animals can easily climb. Maintenance is easy and cleaning is fast.





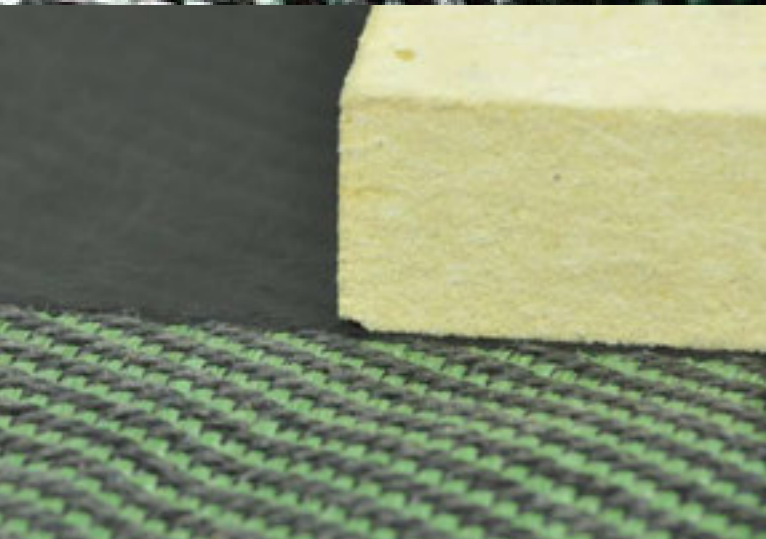
**The animals will lie down longer doing exactly what the farm needs: produce more milk**

SYLCO ULTRASoft EXTRA are LATEX mattresses that provide the animals with the unique sense of a meadow and a long life span.



SYLCO ULTRASoft EXTRA mattresses provide a 40mm layer of exceptionally soft material that offers to the animals comfort and heat insulation. Cattle believes to walk, lay and get up in a meadow.

The mat is covered with a highly durable sheet that is firmly fastened with screws.



The sheet can have a moisture insulating surface. Consequently it protects the mat from premature wear and restricts growth of microorganisms.

It also offers an anti skid surface where animals can easily climb.





# CUBICLE DIVIDERS

SYLCO HELLAS cubicle dividers are known for their solid construction and durability made for the difficult conditions inside farms.

**They are made  
of extra strong and  
hot galvanized  
60mm pipe  
(special dimensions  
are available).**

They lead the animals to lie down straight in the stall to the correct position and keep them in their place.

Their special design helps them rise by offering them support.





# FEED FENCES

Safety is our priority.

Sylco Feed Fences protect the animals for being drowned, while they make the release of an animal that has fallen down easy.



They are specifically designed for quiet operation. Their size can be adapted to the needs of the animals in the farm.

There are special editions for heifers and calves. Special sections can be installed in between to provide easy human or machinery access.



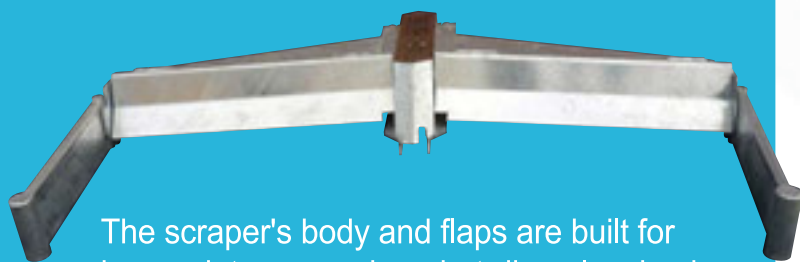


# CLEANING SOLUTIONS

FOR LOOSE  
HOUSING  
FACILITIES

## Hydraulically Driven Scrapers for Corridors and Yard

This unique extra heavy duty hydraulic system is designed for very long corridors (up to 200m) and yards (maximum width of 18m). Having moving flaps at the edge makes the system adjust to the real corridor width even if the corridor is of slightly variable width. No manure is left behind!



The scraper's body and flaps are built for heavy duty use and are hot-dip galvanized

Both dragging U and the metal canal are built from high quality steel to withstand wear. Special adjustment plates are placed below the dragging U so as to compensate future wears.

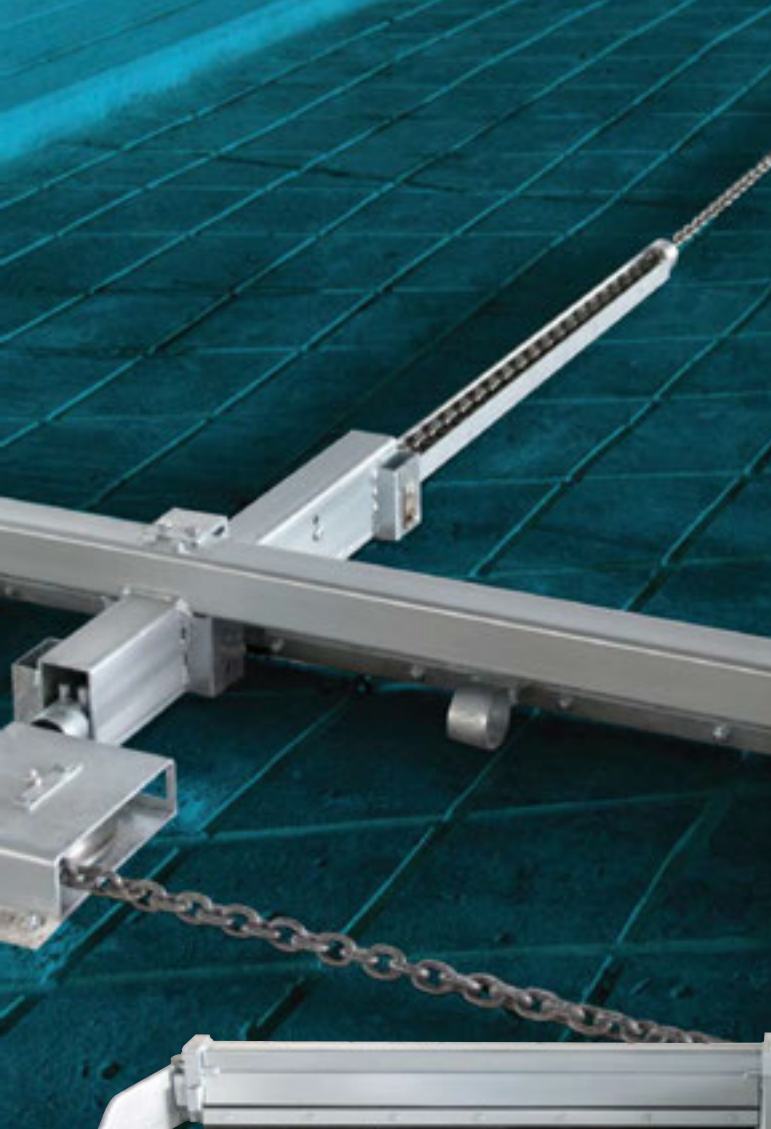


Each corridor can have its own pump and control board in order to achieve maximum autonomy.

The hydraulic station has its own control board so that in case of failure only one alley is out of order. The system is built in such a way that the hydraulic stations are interchangeable.

In case of need, one station can be connected to a different corridor reducing the length of time the system is out of service.

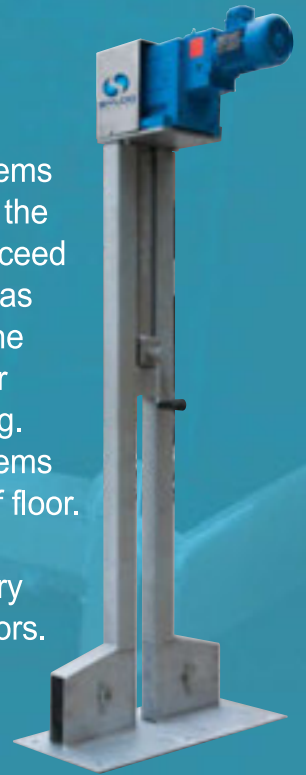




## Chain Systems

Chain driven cleaning systems are used in facilities where the corridor length does not exceed 80m. They are considered as lighter-duty comparing to the hydraulic systems, but offer a fast and effective cleaning. Chain driven cleaning systems can be used on any type of floor.

They save energy and every station can handle 2 corridors. In this way installation cost is minimal.



One hydraulic station can be used for up to 6 corridors.

In this case a special control box is installed. All the corridors functions are regulated centrally.

**The unique design of the cylinder and the automatic change-over valve, provides a smooth operation with minimal maintenance needs.**



## Manure Canal Scraper

Manure canals can include a special scraper.

These systems are easy to install and offer fast emptying of the canal. They are especially useful in warm environment and thicker liquids.

They consist of a number flaps that move and push the manure forward to the canal.





# COW BRUSHES

Cow comfort is essential in order to achieve high quality milk and high yield. SYLCO cow brushes offer a way to keep the cows clean and happy.

We produce 2 different types of single brushes depending on the actual needs of the farm.



## ECOBrush 4000

ECOBrush 4000 can be mounted on wall or pole. It is mounted at a degree towards the animals.

Cows like it because it offers a strong point for the animal to push against. The inclined brush helps with animals of various sizes. It is equipped with shock absorbers so as to withstand the strong animal pressure.

**Both brushes  
can move  
and follow  
the movement  
of the animal**



**Milk production is proven to increase and health problems such as clinical mastitis are reduced.**

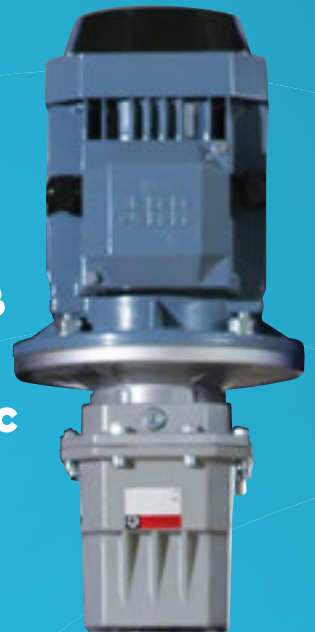


Both are produced by the highest standards and offer maximum cow comfort.

They are environment friendly, operating on inverters minimizing electric power consumption.

They offer a gentle start as soon as the animals move them.

**They are both powered by ABB inverter and a 0,75HP electric motor**



### **ECOBrush 3000**

ECOBrush 3000 can be mounted on wall, pole or even roof.

It moves freely to all directions up to 60°. In this way the brush has a dual functionality. It can both move to cover more area of the animal and at the same time it provides a more stable axis that the animals can rub against to increase brushing effects.

The animals love to play with it and can reach their back and side regardless their size.



# CALF BOXES

Hygiene is always a top priority when you deal with Calves. You need to provide them a clean and dry environment, if you wish them to grow fast and in a healthy way.

**The animals can move easily around.**

**A head lock can be incorporated**

## **Modular design**

The boxes can be easily combined. You can purchase 1 to start with and then expand to the number you need.

Special care has been taken to reduce transport space needed and to be able to put them together within minutes.





The boxes are designed to utilise buckets or suckling teats or even special mangers for staw. **SYLCO Stainless Steel Calf Boxes** offer a unique solution.

## The frame of the boxes is made of Stainless Steel.

No need to worry about corrosion, rust or when to paint them again. Stainless steel is made for life.

They offer a clean environment for the calves, can be cleaned by high pressure waterjets and withstand the harsh environment in the barn.

The plastic floor is warm for the calves. The large openings let the urines and manure of the animals to easily flow down away from them, keeping them in this way dry. They are designed with anti-slipping characteristics.





# MILK EXPRESS

## Feeding milk to calves has never been easier

Milk is prepared easily with minimal effort and is distributed in less than half the time needed with traditional system. It is easy as going for a walk.

The calves get the milk they need fast and accurate.

The process is so simple and easy that you could even increase the number of feedings to **3** instead of **2**.

The calves are feed more regularly with obvious benefits to their health and growth.

## Different machines for different needs

Every farm has it's special needs and we offer solutions to cover all needs. Pasteurizing is an option and well as external cooling devices

### 100, 150, 200 liter tank

You can choose between **3 sizes** the one that better suits your needs. The tank has inclined bottom and drainage so no liquid stays inside. It comes with a 50mm stainless steel valve in case you need to fast drain it or get some of the milk manually.



## Strong frame on 4 wheels

Farm terrain usually is rough and needs a stable way to transport milk.

**Milk express** comes on 4 large wheels that offer this stability and with enhanced flexibility. The 2 front wheels and swivel towards all direction making it easy to move through narrow corridors and confined spaces.



## Powerful Agitator

The mixing is done through a powerful inverter driven **1 HP multi-speed** regulated agitator. Mixing is fast and accurate. Once this is done slow speed is selected so that the meal is homogeneously warmed and kept in the same temperature.

The strong agitator helps during washing as well.



## Easy to use and program electronic Panel

A HMI (Human-Machine Interface) must be durable and easy to handle. Milk express electronics excels in both.

It has never been easier to select a standard quantity to dispense, check the milk temperature, keep track of the milk dispensed, calibrate the dosing meter or simply start the cleaning cycle.

It provides advanced settings regulation with a few key presses.

## Long Autonomous Operation

The large battery allows the Milk Express to operate for long time without needing to be connected to the electric grid. The battery is automatically recharged when milk Express is connected to the mains.

## Fast or slow Heating

You can choose how many of the heating elements you use.

If you do not prepare a full tank or want to warm the water milk slowly you can choose a low power heating, preserving the quality and taste of the milk.



# FEED PRODUCTION SYSTEMS

## Fresh is Good

Proper nutrition is one of the basic factors that determine the success of a farm.

SYLCO HELLAS offers advanced solutions for the storage, processing and delivery of feedstuff starting from small farms of 10 animals and up to professional automatic compound feed production facilities with a production that surpasses 50 tons per 8h.

A feedstuff production mill is a prerequisite to fully control the quality of feedstuff. It is therefore ensured that the animals are provided with fresh feedstuff produced to cover the specific needs of each farm.

## Hammer Mill or Roller Mill?

Whatever your needs, there is a solution. The hammer mill is the most popular type of mill. By changing the screen size it can produce feedstuff for any animal specie. Both the small 2HP mills as well as the professional 100HP mills share the same build quality and pass the same strict quality controls.



Roller mills are mainly used in goat/sheep farms or for horses. Their efficiency is excellent and the quality of feedstuff exceptional. Roller mills do not destroy feedstuff. Fibers are intact and no dust is produced.

Roller mills of 2HP engine and production of 150 kg/h as well as professional 10HP mills with production of over 2000 kg/h are available to cover the specific needs of every farm.

When used together with semi horizontal mixers, roller mills are an excellent tool for modern farms that want full control of the quality of food.

# MIXER MACHINES

**Mixer machines can be horizontal, semi-horizontal or vertical depending on the customer's specific needs**

## Horizontal

Horizontal mixer machines comprise the professional line of SYLCO HELLAS. They are the faster and more accurate. They can have one, two or even three levels to accelerate production. They are available in 500 liter and 4000 liter capacities

## Semi-horizontal

This is a semi professional type of mixer. It offers extremely fast mixing: the mix is prepared in nearly half the time comparing to the vertical machines. The final product is highly homogeneous. An electrical gear motor provides motion directly to the Ø300 auger and operates at 70 RPM.

Feedstuff is maintained at perfect condition. There are two models available: the first has a capacity of 950 liters and the second 2050 liters.

TYPE	915-16	922-16	922-16	955-30	975-30
Horsepower	2HP	3HP	5.5HP	7.5HP	10HP
Production	150-220	250-350	700-1100	1000-1500	1400-2000
Weight	97	102	265	305	315

## Vertical

Vertical mixer machines are the most popular because they combine ease of use and low cost.

They can be combined with any mill and have a capacity of 1900 or 2300 liters.





# PLASTIC FLOOR

Made of high quality virgin materials **Plastic Floor SYLCO** is one of the best solution for a healthy and safety farm.

The layout of the board is designed for fast and safe movement towards all directions. The specially designed slots allow dirt and liquids to flow beneath the surface keeping the floor clear.

Plastic Floor SYLCO are available in attractive colours of your choice that gives high-tech and hygienic look to the farm.

## Dimensions

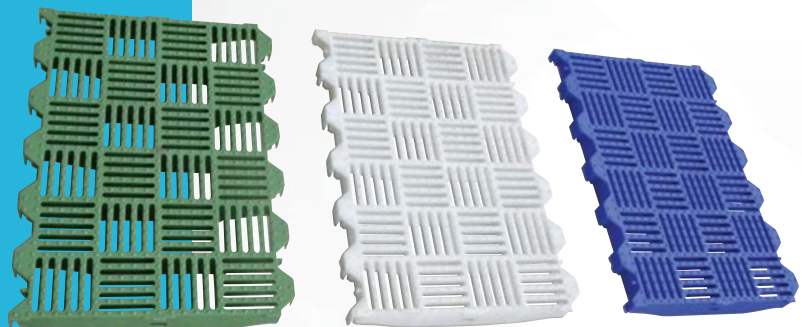
60x40cm

40x40cm

- Two sizes openings to fit the needs of various animals.
- Unique fast and safe movement towards all directions.
- Easy to installed.
- Manufactured under the highest standards.
- Low maintenance (easy to clean).
- Highly improved hygiene, avoids fungal skin problems in Goats and Sheep during wet seasons.
- The animals stay clean and dry.
- 3 times longer life in comparison to wooden floors.
- Made of high quality virgin raw materials of well known producers.



**Smart hygienic solutions can easily be integrated.**



# THE COMPANY

## Knowledge

## Support

## Consistency

Our company deals with animal mechanical milking systems since 1959. As the years passed, accumulated experience helped us develop and evolve top level milking systems. Apart from the high quality of the materials that make our milking machines to stand out, we offer continuous technical support.

Support that starts with assistance and advice even at the earliest stages of designing, placing and construction of the milking parlor building and continues with the construction of the milking machine itself by our specialized technicians and the end user training. But we do not stop there.

The milking parlor is the heart of the farm and for this reason we provide technical support 24 hours a day, 7 days a week.

All parts and components needed are readily available. Our workshops and mobile technical support vehicles are fully equipped with the latest generation of instrumentation and can perform preventative controls and regulate all types of milking parlors.

High quality equipment and excellent technical support are only two of the reasons that make the choice of our milking machines, your only real option.







**SYLCO**  
H E L L A S  
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