



Lubratec®

System Solutions for your Horse Keeping Needs



Lubratec

Appropriate husbandry to increase horse welfare

The Lubratec brand offers you first-class solutions for horse-friendly husbandry. Lubratec products will help you to promote the well-being of your horses by optimising environmental conditions in stables, encouraging

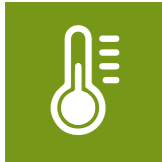
natural behaviour, reducing airborne infections and much more. The high-grade, robust and durable systems will also improve the efficiency and flexibility of your farming operations.



Promotion of animal-friendly horse husbandry



Encouragement of natural behaviour



Creation of healthy environmental conditions in barns



Simplification of farm management



Improvement of animal health

Lubratec Smart in horse husbandry

With Lubratec Smart you get an overview of the climate in your horse stable. The SmartBox measures all relevant barn climate parameters that have an influence on the well-being of your horses.

With the help of the clear display on the Lubratec SmartApp, you can check that climatic surroundings in the stable are ideal.

At the same time, the system helps to identify any weak points in your stable. With Lubratec Smart, you ensure that your horses feel relaxed and are living in ideal conditions.



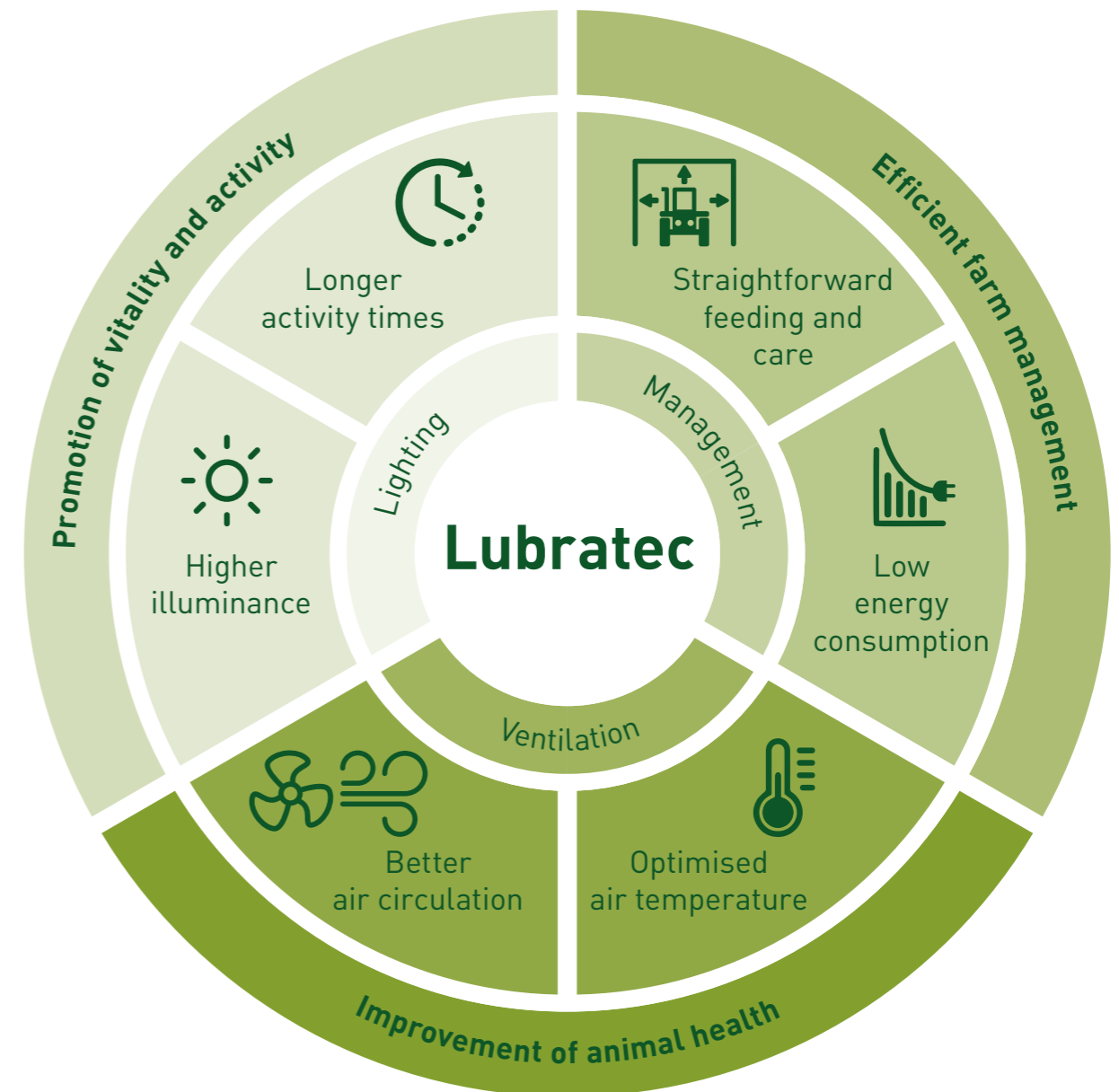
Animal friendly farming is a challenge – Lubratec is the solution

The Lubratec product portfolio includes a wide range of professional solutions for modern and horse-friendly husbandry. Lubratec will help you to bring animal welfare and efficient barn management together.

and performance of horses depends not only on the air quality in the stable, but also on that in the riding arena, lunging hall or training ring.

At rest, horses breathe in and expire some 90,000 litres of air per day. Any physical exertion leads to a significant increase in the respiratory rate. As a result, the health

An ideal indoor environment can only be created through expert co-ordination of all the relevant components. As a full-service provider, HUESKER will be glad to help you.





Discover the world of Lubratec!

Top-class products inspired by nature for animal welfare

Regardless of why they are kept – whether for breeding, sports or recreational purposes – all horses share the same basic needs due to their genetic provenance as steppe animals. And, anyone seeking to design a healthy, reassuring and comfortable horse-keeping environment must pay close attention to these demands. Apart from exercise and social interaction, horses need ample light and air.

HUESKER's product portfolio features wide-ranging system solutions for more light and air in the barn, such

as the intelligent Lubratec wind protection and side ventilation systems and Tube Air. Lubratec light ridges and LED luminaires bring light into the darkness. The time controlled Lubratec horse feeder enables economical feeding. Outdoor protection is provided by our Lubratec field shelters and awning. Lubratec separation layers provide riding arenas and paddocks with the necessary stability.

By using our products, you make a sustainable contribution to the health, well-being and safety of your horses.

Ventilation

For an optimal climate in the riding hall and stable



The Lubratec wind protection range includes textile door systems, open fronts to close off large vehicle entrances and permanently installed stretched systems. These serve to provide controlled, draught-free ventilation for livestock buildings, riding arenas, lunging halls, training rings and storage sheds. Lubratec ventilation systems

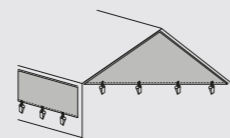
make optimum use of daylight. In addition, the stable climate automatically adjusts to the outside temperature, which contributes significantly to good horse health. They are typically incorporated on the gable and eaves sides of buildings.

Lubratec Stretched Systems



KEY DATA

- Wind protection meshes with varying wind-shielding performances
- Made to measure
- Fixed with tensioning ratchets
- Diverse shapes, from simple rectangles to asymmetrical polygons, purpose-manufactured to customer's specifications
- Size: max. 125 m²



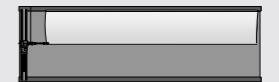
Lubratec stretched systems are custom-fabricated to meet your specific needs and requirements. The materials and colours can be freely selected to match your existing facilities. The keder rails ensure reliable tensioning of the wind protection meshes without folds or creases.

Lubratec Roll-Up Ventilation units



KEY DATA

- Maximum opening height up to 5.40 m
- Maximum system length: 80 m with lateral drive, 160 m with central drive
- Choice of manual or electric drive; automatic control as option



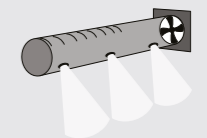
Lubratec roll-up ventilation units offer an ideal solution for indoor riding arenas and horse stables that need to be fully opened up in summer. Customers can choose between a range of opening options and drives. The systems may also be fitted with temperature, wind velocity and rain sensors to allow automatic operation. They are particularly suitable for establishing optimum environmental conditions in stables in response to local conditions.

Lubratec Tube Air



KEY DATA

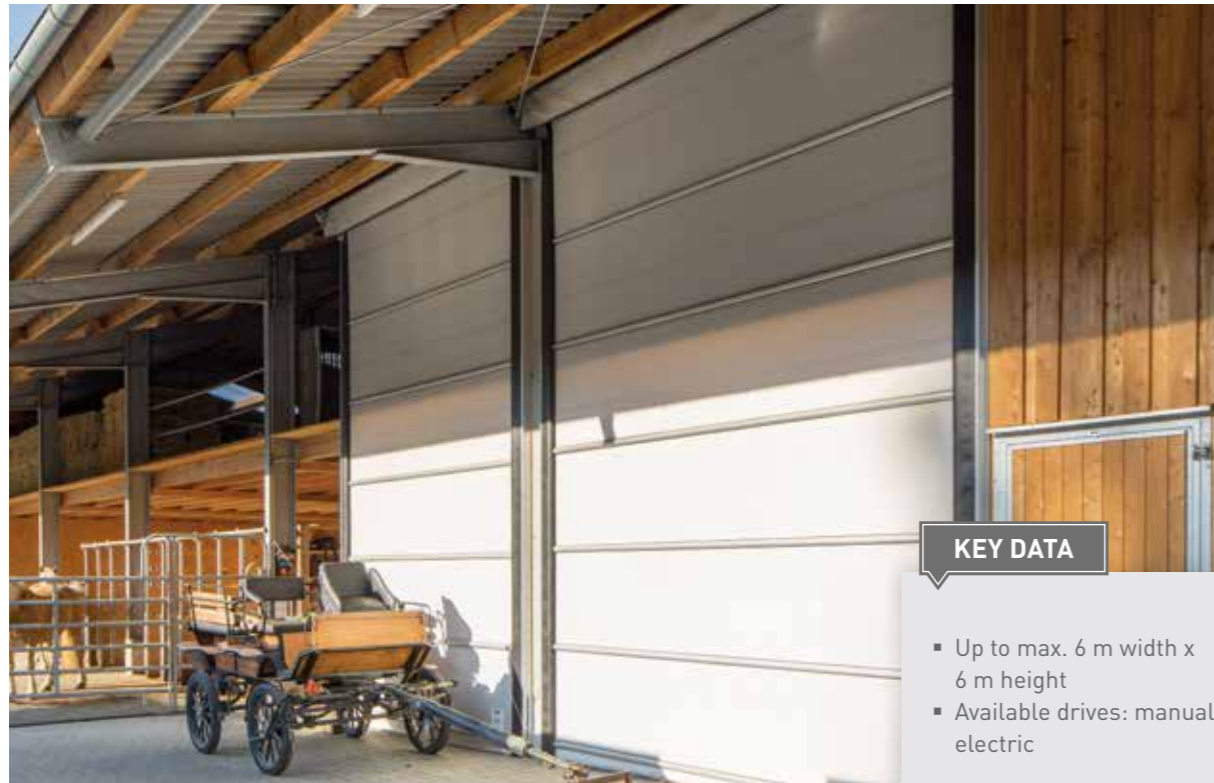
- Continuous fresh air supply directly to livestock
- Active ventilation suitable for any building
- Even old buildings can be retrofitted to optimize use
- Project-specific calculations based on 3D simulations
- Tube, incl. fan with weather cover and fixing accessories



Lubratec ventilation tubes provide for an active, draught-free supply of fresh air with lower micro-organism and pollutant concentrations in livestock housings. Optimum ventilation performance can only be guaranteed through application of our globally unique computation method based on 3D barn environment simulations.

Textile doors

Efficient barn management



KEY DATA

- Up to max. 6 m width x 6 m height
- Available drives: manual or electric



Lubratec doors

Though extremely light, Lubratec textile doors make no compromises in terms of stability. Moreover, through the appropriate choice of fabric, these doors can also take on a ventilating function. With optimum daylighting guaranteed even when the door is closed, the horses are able to enjoy fresh air and views of the countryside.

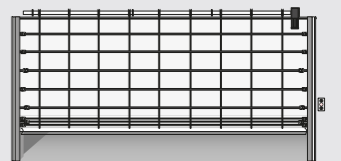
Textile fronts

Custom-configured protection for large openings



KEY DATA

- Up to max. 50 m width x 10 m height
- Available drives: manual or electric



Lubratec fronts

Textile fronts are not only an ideal weather and wind protection, thanks to their large opening widths they can also facilitate the management of your stables and buildings. Our Lubratec fronts are available in many different designs and different colours, so you can get solutions that fit your individual needs.



Reference

Lubratec stretched system for riding facilities



Bernadette Brune with her mare Feel Free OLD in the refitted lunging hall.

At the Gestüt Brune stud farm in Westerstede in the German Federal State of Lower Saxony, three buildings were fitted with new wind protection meshes between 2016 and 2018. Apart from protecting against the elements, the coverings to the training ring, lunging hall and straw barn were also required to preserve the good existing ventilation and daylighting conditions. The straw barn, in particular, needed thorough airing, though without the ingress of rain or snow. Lubratec stretched systems with a variety of wind protection meshes were used to deliver the optimum solution to the various demands. The translucent, air-permeable meshes are visually appealing, the colour having been chosen to match the existing structures. Not only do they offer the horses views of the countryside, they also contribute to the excellent working conditions.



Gestüt Brune stud farm in Westerstede



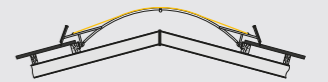
Lighting

Lubratec light ridge



KEY DATA

- 5 m opening width
- Specially coated woven sheet diffuses light and keeps livestock buildings cool
- Uniform light distribution
- Extra-high mechanical robustness due to special fabric
- Enhanced ventilation performance due to suction created by wind deflectors



The Lubratec light ridge maximises the daylighting of livestock houses and indoor riding arenas, though without additional heat gains. Light on the interior and dark on the exterior, the ridge blends harmoniously into its setting. High wind deflectors and large openings ensure constant air extraction. Moreover, the stable round-arch construction is capable of withstanding extremely high structural loads.

Lubratec LED



KEY DATA

- Maximum luminous efficiency per watt (135 lumen)
- Long service life
- Optimum light spectrum for horses
- Constant lighting, also in winter or at dusk
- Water and moisture resistant
- Up to 60% energy savings



As stable and hall lighting is in operation year-round for many hours, only highly energy-efficient LED luminaires are now specified for new projects. The high-power LED chips produce light with 5,600 K colour temperature. The suspension brackets are made of coated stainless steel.

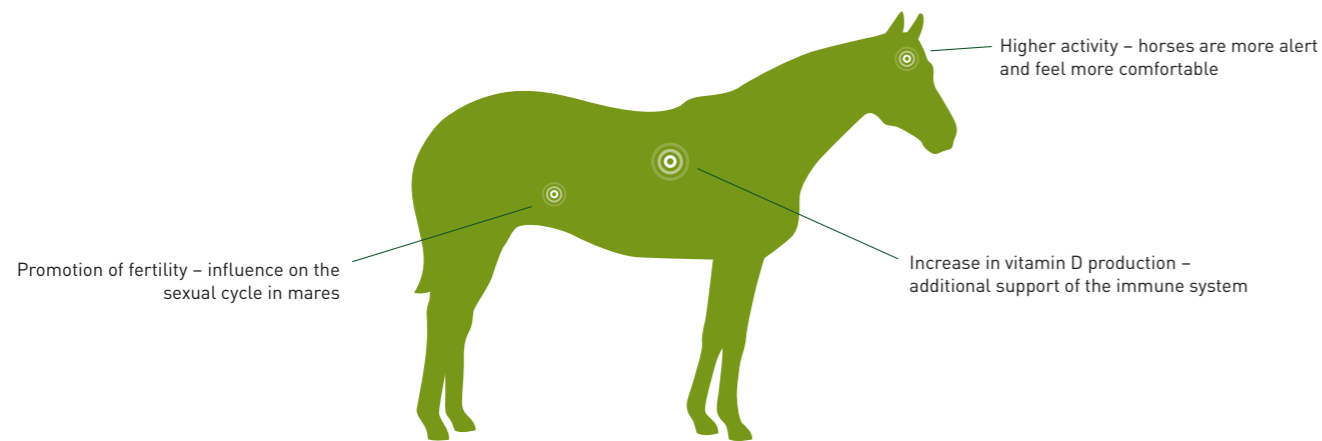
Light programme for horses

Lighting in the stables and riding hall

Light has a direct influence on your animals in the stables and riding hall. Sufficient and correct lighting has an effect on the well-being and motivation in both buildings. With the right and sufficient exposure, melatonin secretion is inhibited. This makes your horses more alert and active. The change of coat is also partly triggered by melatonin. Prolonged periods of darkness increase the melatonin level in the body. Especially in winter this is a sign of the organism for the natural change of coat.

Sufficient lighting is important for the production of vitamin D, which helps build bones and teeth. In addition, vitamin D strengthens the immune system and helps to process stress. If there is a lack of light, horses become a bit more cumbersome when riding. With mares, light also has an influence on fertility. Due to too little light supply, mares become less likely or not at all to get in heat. With good lighting management prevent this and ideally it can even influence the mare's sexual cycle.

Benefits of correct lighting



Inhibition of the melatonin distribution



Support of the immune system



Improved fertility of the mare



Measurable stress reduction

Additional positive effects

Every horse has the need for social contact with other horses. If this is not possible, at least visual contact is recommended. In dark stables there is a danger that the visual contact to other horses is restricted. This can lead to behavioural disorders such as weaving and cropping. In indoor riding arenas, good lighting can prevent shadows and light spots from forming. Especially young horses react very jumpy to this. Casting shadows in indoor riding arenas increases the risk, that horses get frightened because they cannot adapt so quickly to changing light conditions.

Good stable and riding hall lighting with the right illumination and the right lighting programme has the following positive effects:

- More active and healthier horses
- Possibility for better visual contact
- Better fertility
- Thinner winter coat
- Uniform and reflection-free illumination



Optimal training and tournament conditions through the use of Lubratec LED luminaires.

Product benefits

- Up to 60% energy savings through targeted, adjustable light scattering
- Health-promoting lighting
- Long service life, as water and moisture resistant
- Dust-insensitive

Automatic feeder

For species-appropriate and economical feeding



KEY DATA

- 2.14 x 2.14 m horses feeder made of steel square tube
- Four electrically operated doors incl. guide rails and sealing lips
- Tubular drive
- 230 V connection
- Rain and UV resistant hangings
- Trough height approx. 45-60 cm; roof height outside 2.1-2.3 m
- Own weight approx. 450 kg
- Delivery already assembled



Lubratec Feeder

The Lubratec automatic feeder enables horse-appropriate and economical feeding. It is particularly suitable for open stables and group housing systems. Feed losses are minimised and working time is saved. The control system can regulate the intervals between feeding.

Particularly safe & suitable for horses

- High palisade fences provide protection from horses climbing in.
- Gap dimensions of the bars comply with the safety guidelines of the German Equestrian Federation (FN).
- Robust and stable construction guarantees the best protection against deformation when force is applied. The impact protection at the bottom of the gate provides extra safety.
- Generous space between the palisades has a particularly gentle effect, even with sudden movements of the horses.



Efficient feeding

Situation

Number of horses:
10

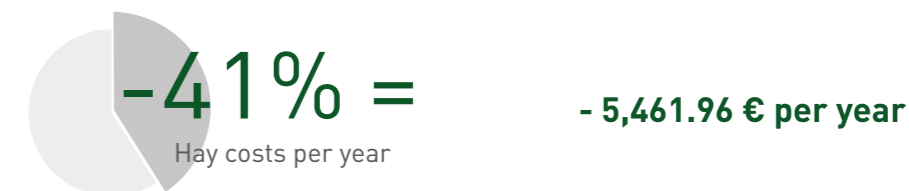
Bale weight:
350 kg

Average weight:
500 kg

Price per hay bale:
100 € = 0.29 €/kg*

Comparison:	FEEDING AD LIBITUM		LUBRATEC HORSES FEEDER	
Feeding efficiency	Feed intake / horse / day	12.50 kg	Feed intake / horse / day	7.50 kg
	Feed intake total / day	125.00 kg	Feed intake total / day	75.00 kg
	Feed losses / day	3.00 kg	Feed losses / day	1.00 kg
	Feed consumption total / day	128.00 kg	Feed consumption total / day	76.00 kg
	Hay costs / day	36.61 €	Hay costs / day	21.64 €
	Hay costs / year	13,361.62 €	Hay costs / year	7,899.64 €

Saving:



Comparison:	FEEDING AD LIBITUM		LUBRATEC HORSES FEEDER	
Working efficiency	Feed consumption per day	128 kg	Feed consumption per day	75.75 kg
	Refill after	2.73 days	Refill after	4.62 days
	Refill per year	134 times	Refill per year	79 times
	Filling effort	30 min.	Filling effort	30 min.
	Hourly wage	35 €	Hourly wage	35 €
	Work effort / year	67 hours	Work effort / year	39 hours
	Labour costs / year	2,338.28 €	Labour costs / year	1,382.44 €

Saving:



Amortised after
1.24 years!**

Saving through
Lubratec Horse Feeder:

€ 6,417.81

* Price 06/23 - Source: Proplanta.de

** Basis for the calculation: Price for one Lubratec horses feeder € 7,795 net / Savings € 6,417.81 = 1.24 years.

Outdoor protection

Lubratec field shelter



KEY DATA

- Galvanised roof construction
- Woven polyester tarpaulin in a variety of colours
- Stainless-steel ratchets, 25 mm, incl. polyester belt strap for tensioning
- Incl. tensioning tubes



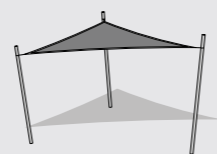
Lubratec field shelters are of simple, robust construction and offer high flexibility in terms of use. The movable assembly, enclosed on three sides, allows a flexible choice of location. The fence units and roof frame are made of galvanised tube.

Lubratec awning



KEY DATA

- Air and water permeable material
- UV stable
- Hardwearing and dimensionally stable
- Strong edges with hemmed PVC
- Max. size 10 m x 10 m



The lightweight Lubratec awning offers a relocatable means of protection against direct sunshine. It is easy to fix to trees, poles etc. and is ideal for meadows, grooming areas, tournament car parks and much more.

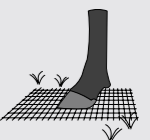
Separating layers

For optimum separation of the base and footing layers



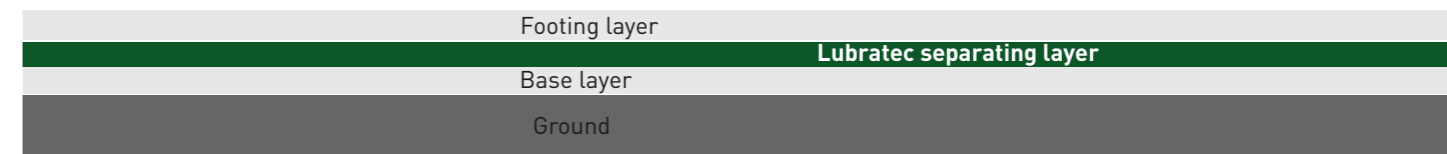
KEY DATA

- Goods can be made up to the size of the riding arena
- Polyethylene mesh, HDPE
- High abrasion resistance
- UV stabilised
- Weight approx. 270 g/m²
- Opening width 0.40 mm
- Punch penetration force 4,000 N



Lubratec separating layer

An intelligent, clearly thought-through design is the key to creating optimum conditions for horses to move around riding arenas and paddocks. Here, the Lubratec separating layer acts as an efficient barrier between base and footing layers without compromising the drainage function.



HUESKER

The know how behind the Lubratec systems

Building on its 150 year plus corporate history, HUESKER boasts a long and successful track record of innovation in the agricultural sector. We offer wide-ranging solutions in the fields of animal welfare, biogas, liquid manure and

silage protection. Described below are our key service offerings that are designed to simplify your work. Please feel free to talk to us about your needs and let our experts assist you with your requirements.

We will assist you in developing a feel-good package for your horses and yourself.

Production

We will fabricate and assemble your Lubratec solution at our production sites in Germany to give you the full benefit of our 150 year-plus experience in textile manufacturing. Our products are specially designed for reliability and durability so that our customers can focus their full attention on their livestock.

Customisation

Custom-fabrication of your products is the centrepiece of our service portfolio. Your job is to specify the size, colour and technical performance. Our job is to deliver the solution. This way, you receive a product which meets your requirements and expectations.

Digitisation

Smart Farming for maximum horse welfare. Lubratec Smart enables simple monitoring and control of the stable climate to constantly optimise the well-being of your horses.

Installation

To guarantee that everything functions properly to provide you and your animals with the full benefits of Lubratec from day one, all products are installed by experienced operatives. Our on-site service can also be used to arrange for expert instruction in the operation of our various systems.

Consulting and design

With a wealth of experience gathered on numerous projects, our experts will be delighted to advise you on the design of your new-build or refurbishment scheme. If you so wish, we will liaise directly with your architect to ensure the entire design process runs smoothly.

Maintenance service

On request, HUESKER will also perform the annual maintenance on your Lubratec products to ensure that they enjoy a particularly long and trouble-free service life. The time you save on upkeep will then be free for you to spend with your animals.





Lubratec® is a registered trademark of HUESKER Synthetic GmbH.
HUESKER Synthetic is certified to ISO 9001, 14001 and ISO 50001.

HUESKER Synthetic GmbH

Fabrikstrasse 13-15
48712 Gescher, Germany
Phone: + 49 (0) 25 42 / 701 - 0
Fax: + 49 (0) 25 42 / 701 - 499
E-mail: techtex@HUESKER.de
Web: www.HUESKER.com

Location Duellen
Im Broemken 5
48249 Duellen, Germany
Phone: + 49 (0) 25 94 / 89 27 - 0
Fax: + 49 (0) 25 94 / 89 27 - 890
E-mail: stallklima@HUESKER.de

