



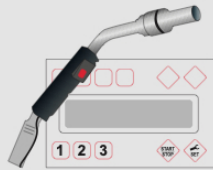
URBAN MilkShuttle | Benefits

The benefits at a glance



Electric drive

provides an effortless transport of the milk even over inclines, rough terrain, steps or ice and snow.



Easy dosing

With the ergonomically shaped pump nozzle the milk for your calves is dosed without effort. Three different dosing quantities can be programmed.



Various volumes

Available in different versions – from 100 to 250 litres holding capacity.



2-stage agitator

For whole milk or milk replacer



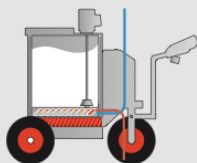
Automatic stop

Prevents sudden setting into motion and ensures a safe parking position



Extremely small turning circle

With a radius of only 1.72 metres the MilkShuttle is highly manoeuvrable and also suitable for small stable buildings.



Optional: Integrated pasteurisation function

For easily digestible milk feeds.



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Our equation to comfortable calf feeding:
Feeding 30 calves a by bucket = 25 minutes
Feeding 30 calves by MilkShuttle = 11 minutes
This leaves more time for other things!

Thomas Sprock, Managing Director



MilkShuttle

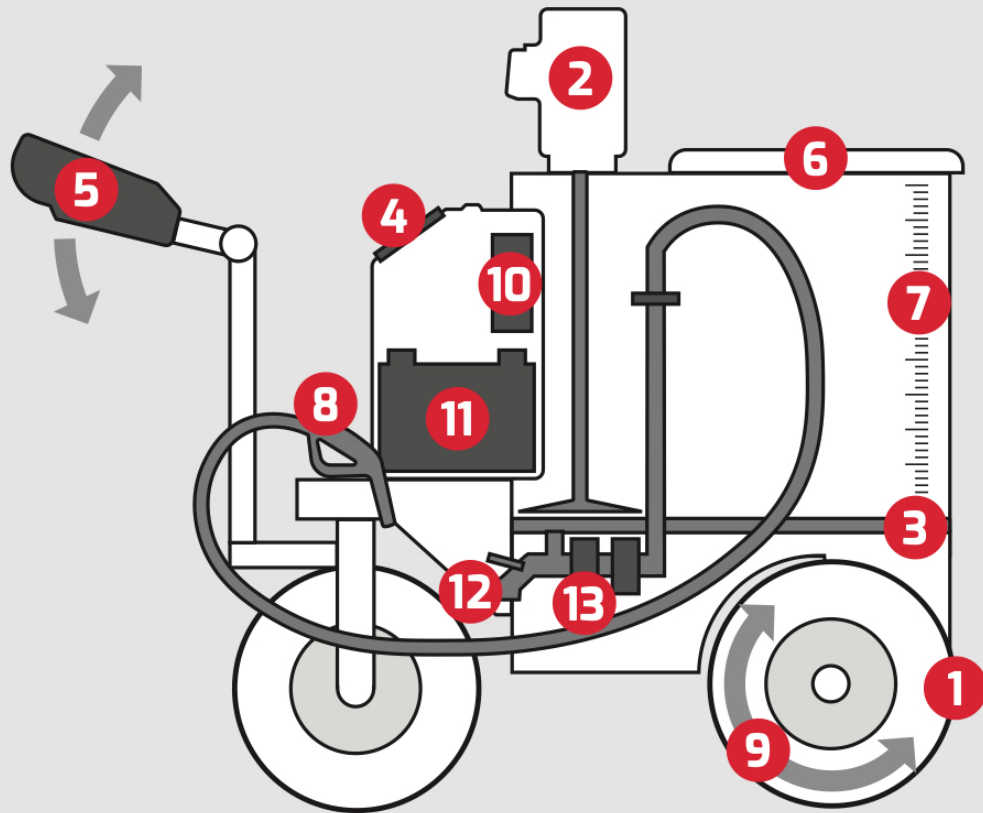


Components

The following provides an overview of the most important components of the MilkShuttle

- 1 Three puncture-proof large wheels (diameter: 40 cm) for the necessary stability and excellent driving comfort.
- 2 Almost noiseless agitator motor
- 3 Built-in floor heating. Optionally, also a cooling unit can be installed.
- 4 Clear and simply structured control electronics/control panel
- 5 Ergonomically designed handle for easy handling, even on rough or sloping terrain.
- 6 Cover with seal and closure – keeps the milk safely protected.
- 7 Practical quantity scale in the container to allow for easy preparation of the correct mixture.
- 8 Pump nozzle with ergonomically designed handle for easy filling of buckets.
- 9 Steplessly variable electric drive – forward and backward.
- 10 Power electronics
- 11 Powerful 12 volt battery – can be loaded comfortably via a 240V domestic power connection.
- 12 1.5" drain valve
- 13 Pump (battery)





MilkShuttle



URBAN MilkShuttle | Model variants

Model variants

Providing a suitable MilkShuttle for each farm and every requirement – that was our goal. We have achieved it by offering four MilkShuttle sizes and variable equipment options.

Container sizes

BASIC MODELS



MilkShuttle
100

MilkShuttle
150

MilkShuttle
200

MilkShuttle
250

From the smallest MilkShuttle with a holding capacity of 100 litres up to the XXL-version with a volume of 250 litres – our basic models provide the basis for a daily helper perfectly suited for your farm. We would be pleased to assist you in selecting the right solution.



OPTIONAL FEATURES



MilkShuttle

Electric Drive

Optionally, all basic models can be equipped with a factory-installed strong electric drive. The propelling drive is steplessly variable and has both a forward and a backward gear. Thus you will reach your calves without effort.



URBAN MilkShuttle | Features



Features

Our objective: Develop user-friendly and clearly designed helpers for daily work. Our MilkShuttle convinces by its simple structure and extremely robust components.

The control panel

The control panel of the MilkShuttle is clearly designed and very easy to operate. The various programmes can each be selected by just one push of a button. All relevant data, such as the battery level are shown in a transparent way

Three different start times can be programmed to heat the milk.

MilkShuttle

URBAN MilkShuttle | Features



Fit for all terrains

Thanks to the compact three-wheel design, the MilkShuttle is extremely manoeuvrable and fit for all terrains. Given its turning radius of just 1.72 metres you can take the MilkShuttle into any corner without problem.

The built-in stop mechanism allows for safe parking even on a slope. The emergency stop button increases work safety: If someone is at risk of being trapped, it will stop the MilkShuttle and roll it back.



Puncture-proof tires

Our tires have a highly elastic plastic core. They are puncture-proof and maintenance-free. In addition, the indestructible tires stabilize the all-terrain MilkShuttle by their own weight.

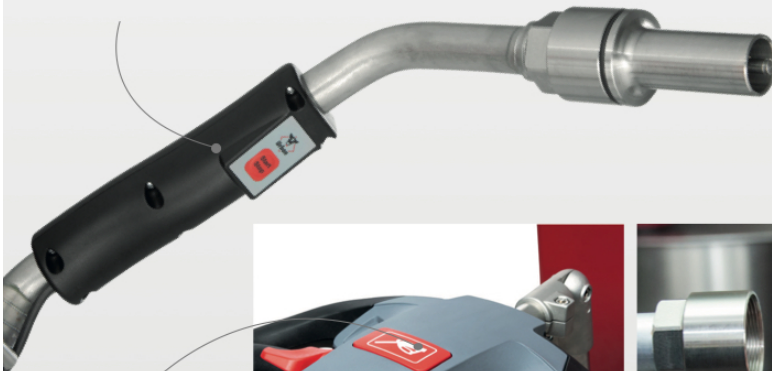




The milk can be tapped quickly and accurately in 0.1-litre-steps. Three pre-programmed dosing quantities are selectable. Large containers can be filled via a special function

Comfortable dosing

By means of dosing pump and dosing nozzle, the calves get exactly the amount of feed they should receive. The desired quantity of milk can be pre-set and then filled-in using a button on the dosing nozzle or dosing arm.



Button on drawbar



Dosing nozzle with built-in check valve. Easy disassembly ensures convenient cleaning.

MilkShuttle

URBAN MilkShuttle | Features



**QUICKLY
READY FOR USE:**
It takes only a short while
to warm the milk
so that it
can be fed.

2-stage agitator

In order to obtain a homogeneous feed, the stages of the agitator can be selected manually and can thus be used with both whole milk and calf milk replacer. Use the low stage for gentle agitation of whole milk during warming—the interval timer prevents the milk from burning. The fast stage ensures lump-free mixing of the calf milk replacer.



Non-stop mixing

Helps to ensure optimal dissolution of the powder.

Mixing table in the lid

Always the right mixture of water and milk powder for perfect feed concentration.

Quantity scale in the container

Allows to quickly read and check the current amount of fluid.





Semi-automatic rinsing programme

The water circulates through the hose, thus cleaning it reliably. Cleaning time and water temperature are individually adjustable.

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Additional cleaning nozzle

The lid of the MilkShuttle will automatically be cleaned too, saving an additional manual



Drain valve

For easy emptying of the MilkShuttle after feeding and cleaning.



Options and accessories

Further technical equipment options allow you to adapt the MilkShuttle to the needs of your individual farm.



Plug-in connector for drencher

For attaching a cow drencher to the MilkShuttle.



Vacuum lid for easy filling with fresh milk

The milk is drawn from milk cans or milk tanks into the MilkShuttle.



Swivel dosing arm

Hight-adjustable - your hands are free for other things.

Headlight

The optional headlight provides better visibility in dark environments.



Insulation

Keeps the milk at the desired temperature or a long time – saving energy!



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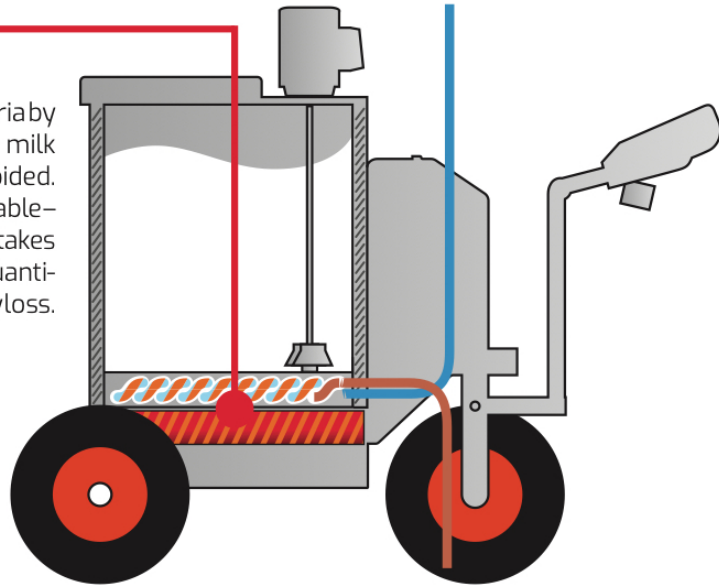


URBAN MilkShuttle | Options and accessories

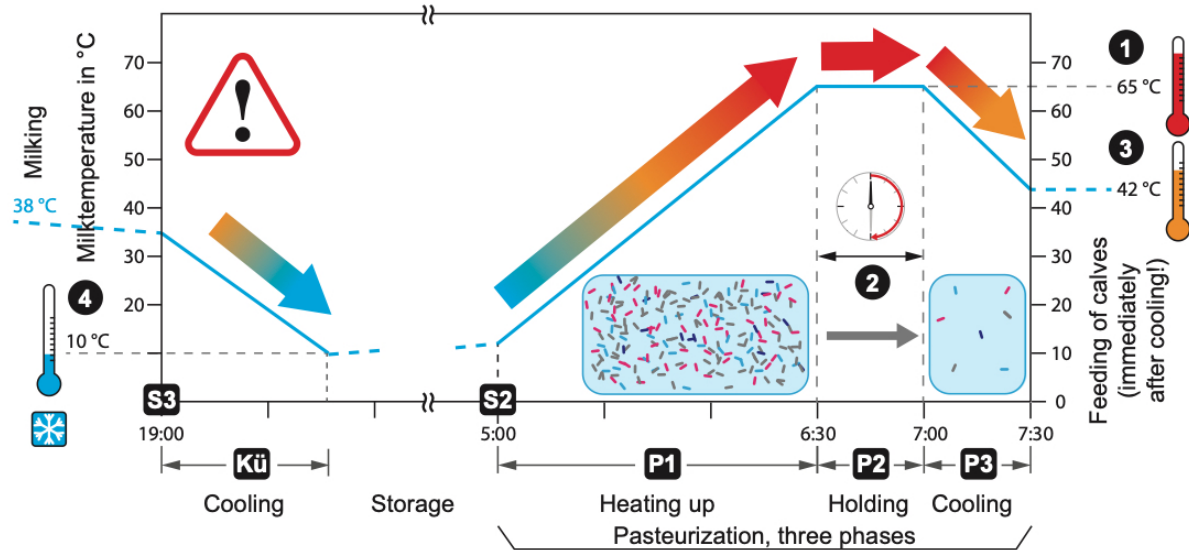
Pasteurisation function

Pasteurisation process

Pasteurisation reliably kills germs and bacteria by heating the milk. Your calves can digest the milk more easily and diarrhoea problems are avoided. The holding temperature is individually adjustable – even gentle pasteurisation is possible. Cooling takes place via the intermediate floor – also small quantities can be cooled, resulting in minimal energy loss.



The automated pasteurisation process





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URBAN MilkShuttle | Options and accessories

Caddy – everything at one go

Take teat buckets and accessories along. This trailer provides space for up to 24 teat buckets, milk cans and many other accessories such as water, feed or medication. The teat buckets can be hung upside down on hooks to dry directly after cleaning.



1 level



2 levels



Abnehmbarer Zubehörhalter

Hand carrier for milk cans, feed bowls or teat buckets.



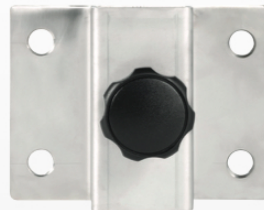
Trailer coupling

With the trailer coupling you can easily attach a trailer – for



(Wall) - Support

At the MilkShuttle or on the wall. The bucket carrier or accessory holder can easily be hooked into the special fixture and taken down again.



Bucket carrier

Up to 16 teat buckets can be transported with the bucket carrier and hung up to dry

MilkShuttle



URBAN MilkShuttle | Experience report



Optimally equipped

Why take a difficult approach when a simple one can be adopted—the Westrup-Koch dairy farm swears by the sophisticated

The Westrup-Koch dairy farm is located in a village near Osnabrück in Lower Saxony, Germany. The farm is run by five families who jointly manage 718 hectares of land and operate a 650 kW biogas plant and a 230 kW photovoltaic system. Together with eleven employees and two apprentices they take care of approximately 600 dairy cows and 600 young animals.

Over the years, in order to ensure optimum living conditions for the animals, the farm was adapted again and again to meet the needs of the animals, and continuously modernised. Westrup-Koch has been working with URBAN for several generations. In order to provide best rearing conditions for the calves, Westrup-Koch relies on URBAN products which are always one step ahead of technical progress. During their daily work with the calves they are mainly

supported by the MilkShuttle and the Alma Pro Duo. When feeding the calves the hard physical work is taken over by the MilkShuttle. Thanks to the Shuttle, the calves in the individual boxes can be fed conveniently without carrying heavy buckets. With the help of a mixing table in the lid even inexperienced employees can prepare an adequate feed concentration of water and milk powder. In addition, a clear control panel on the MilkShuttle provides the opportunity



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1



2



3



4

to automatically heat the milk to optimum temperature, thus saving valuable time. The MilkShuttle facilitates the daily work, is easy to operate and also allows for efficient time management. The Alma Pro Duo is of importance to Westrup-Koch mainly at a later stage with group calf management because it allows for feeding two different calf milk replacers to two or more groups. In their everyday work, the employees can rely on the system to constantly dispense the pre-set feed amounts to the individual animals. In case of irregularities regarding the drinking behaviour or the feeder, an employee will be informed by text message to the smartphone. This allows for keeping an eye on feeder and calves at all times.

FARM PROFILE

Name: Westrup-Koch GbR
Location: Lower Saxony
Size: 735 ha
Livestock: 600 dairy cows,
 600 young animals
Staff: 11 employees, 2 apprentices

1 Thanks to three dosing levels every calf receives the optimum quantity of milk.

2 The new calf scales collect all weight data and allow for even better monitoring of the individual animal.

3 The data are sent to the feeder by the URBAN VitalControl device. Thus all health data are stored centrally and can be accessed from anywhere at any time.

4 With the MilkShuttle also long distances can be covered without problem.

MilkShuttle

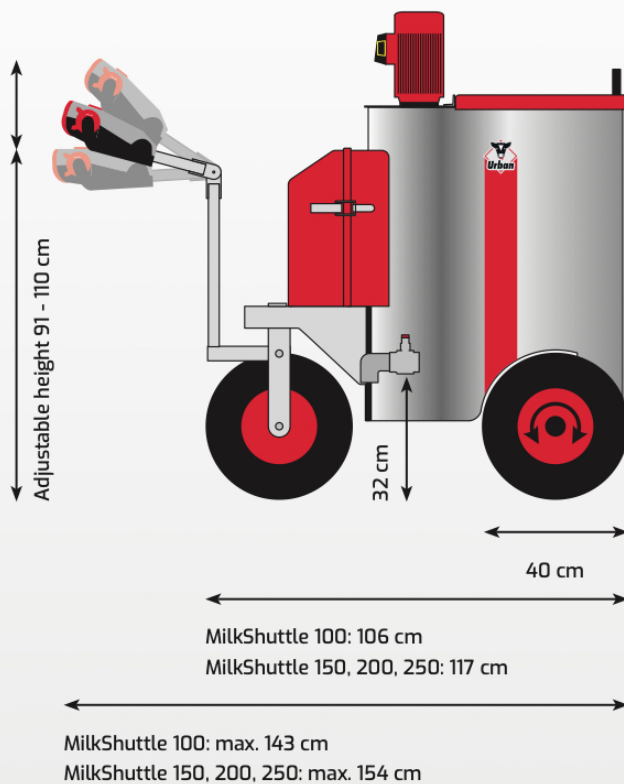


URBAN MilkShuttle | Technische Daten

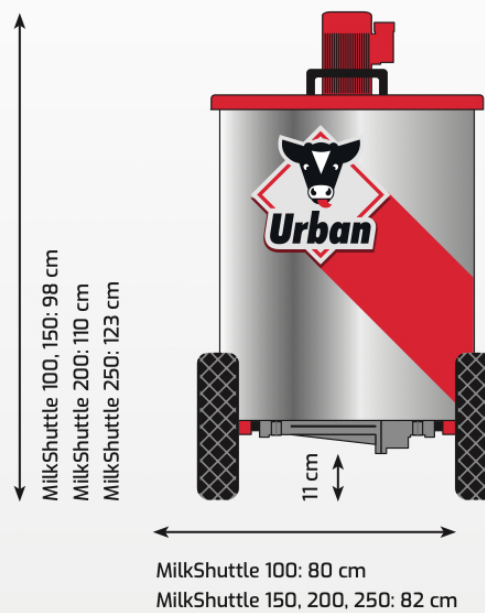
MilkShuttle

All measurements are given in cm.

Lateral View



Front View



Top View

