



BOLUS ADMINISTRATION

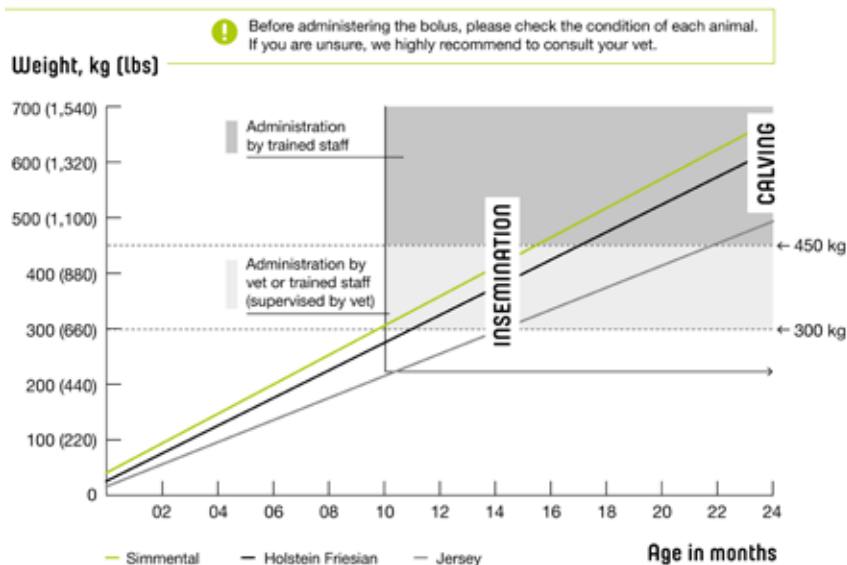
Instructions for use & Safety instructions

! Important Information:

- The administration of smaXtec boluses must be carried out using the smaXtec bolus applicator, as it has been specifically developed for smaXtec boluses.
- The bolus applicator must be checked for any damage, especially cracks or loose parts, before each use.
- Damaged bolus applicators must not be used for bolus administration under any circumstances.
- After a maximum of 500 administrations or 2 years from delivery – whichever occurs first – the bolus applicator must be replaced with a new one.
- Cleaning and disinfecting the applicator after use is recommended. Please use only the disinfectants approved in the product information, especially if another bolus administration is imminent and the disinfectant may come into contact with the smaXtec bolus.
- The smaXtec Classic Bolus and the smaXtec pH Bolus are only suitable for cattle. Under no circumstances may they be used for other animals or humans. The animals must have a minimum weight of 300 kg/660 pounds

when the bolus is administered by veterinarians or specialists or 450 kg/1000 pounds when administered by trained personnel. Consult with your vet if necessary. The following chart provides more information on the age/weight development of different breeds.

The ideal time for bolus administration



- After administration, boluses should reach their position at the bottom of the reticulum as quickly as possible. For this reason, the fiber mat in the forestomach system should not be too dense. Cattle should therefore not be fed directly before bolus administration
- We recommend not to administer more than two smaXtec boluses per animal. Studies show that cattle may already carry foreign bodies such as magnets or plastic pieces in the rumen. A larger accumulation of such objects can be harmful to health, with individual factors such as age, breed, and body condition also playing a role. Administering more than two boluses is done at your own risk – smaXtec accepts no liability.

These measures are intended to ensure proper bolus administration. smaXtec accepts no liability for any damage resulting from improper or faulty bolus administration.

1 Preparations

Step 1 – Check

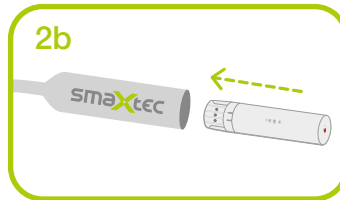
Before every administration, check the smaXtec bolus applicator and the smaXtec bolus for damage and sharp or pointed parts that could injure the animal.

Step 2 – Bolus preparation

Activate the bolus as described in the Quickstart Guide and assign it to the correct animal in the smaXtec software.



Insert the smaXtec Classic bolus, as shown in the illustration, with the flat side up into the smaXtec bolus applicator.



Insert the pH bolus into the smaXtec bolus applicator with the pH measuring module first, as shown in the illustration*.

Step 3 – The proper preparation of the animal

The best time to insert the bolus is well after the last feeding. The fiber mat is not as dense at this time and the bolus reaches the desired measuring site more quickly.

Fix the animal appropriately for bolus administration:

- Forward and backward movements are restricted,
- the animal can bring the head into an extended position without pain.

* If the pH bolus is not inserted immediately after activation, the pH boluses must remain in the buffer solution until they are inserted (max. 4 hours after activation).

2 Bolus Administration

1. Stand next to the head of the cow. Reach over the top of the cow's head and grab the corner of the mouth opposite of where you are standing. Carefully secure the animal in this way.
2. Insert the smaXtec bolus applicator on the side of the mouth on which you are standing.
3. Carefully slide the smaXtec bolus applicator into the cow's mouth. If you feel slight resistance, you can gently turn the smaXtec bolus applicator back and forth to make swallowing easier.
4. Squeeze off the bolus as soon as the grip of the smaXtec bolus applicator is in the corner of your mouth. Excluded here are very small-framed or heifers.
5. Lift the cow's head by pulling up below the nose, rub the throat of the cow to induce swallowing to reduce the chance of regurgitation. Carefully pull the smaXtec bolus applicator out of the mouth. Be careful not to damage the teeth.

Keep the animal restrained for a short time to ensure that the bolus is not regurgitated.



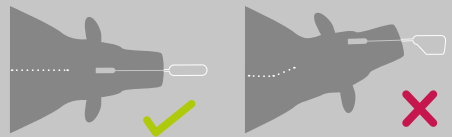
Important: Never use excessive force!

It often takes several seconds before the animal swallows and the smaXtec bolus applicator can be fully inserted into the pharynx. Patience brings more success than the use of force.

The animal does not swallow or you feel resistance in the mouth?

Check:

- whether the animal's head and the smaXtec bolus applicator are straight,
- whether there are feed particles in the smaXtec bolus applicator and remove them.



3 Animal observation after application

After bolus administration, observe the animal for several hours.

Be especially aware of the following unlikely risk factors:

- Bolus choking
- Signs that the bolus is still in the esophagus:
 - Heavy breathing, rattling, increased coughing and/or tympany (accumulation of a large amount of gas in the rumen).