



BOARMATIC & US BAG®



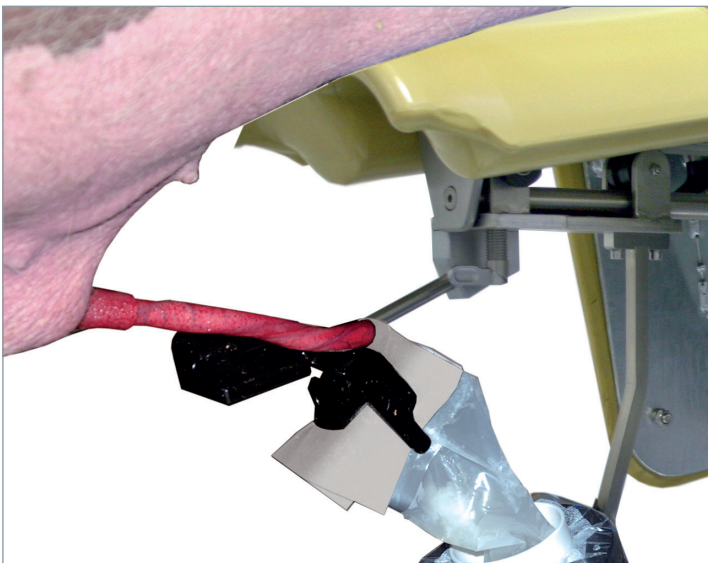
HYGIENIC AND EFFICIENT BOAR SEMEN COLLECTION

The aim of boar semen collection is to obtain an ejaculate with the highest possible concentration and sperm quality. Also, the semen collection process must be efficient and as time saving as possible.

With the BoarMatic, Minitube has developed an efficient, improved technique of boar semen collection. The BoarMatic boar dummy is provided with an integrated mechanism for automatic semen collection. In combination with the US Bag®, boar semen can be collected efficiently under optimal hygienic conditions.

Your benefits

- Low physical stress and high security for the semen collector
- A very good hygienic standard is easy to achieve
- Start of the semen collection with the hand, and free movement of the boar during ejaculation ensure high acceptance by the boars
- Completely disposable solution: only one bag holds the ejaculate from collection to dispensing
- Time saving for the operators

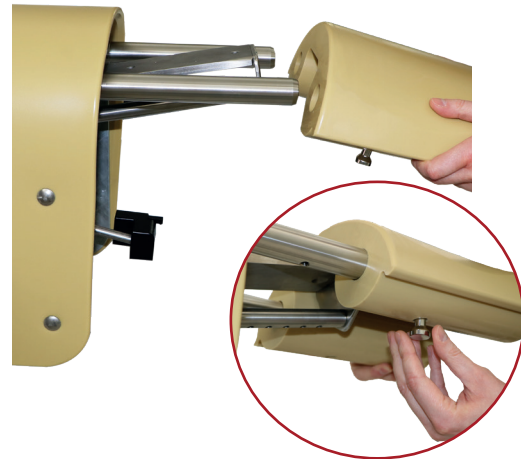




BoarMatic features

The BoarMatic boar dummy with integrated mechanism for automatic semen collection consists of the following components:

- Boar dummy, height adjustable through integrated pneumatic spring
- Slide underneath the dummy with holder for the semen collection cup and clamp for the AC ("Artificial Cervix"). During the whole ejaculation process the boar is free to move forward and backward. After the semen collection the boar dismounts the dummy alone and the slide with the collection cup rolls on its own in a safe position under the dummy.
- The disposable AC is a true copy of a porcine cervix in texture and surface. Rubber cushions stimulate and assure the perfect grip for the tip of the penis. A tear-off pouch for the first sperm free jets of the ejaculate and a sheath leading the ejaculate into the collection cup are integrated in the AC. Together with the US Bag®, a closed unit for the semen collection is provided.
- The mounting part of the dummy is easily exchangeable. Dirty, contaminated mounting elements can be replaced within a few seconds, therefore ensuring maximum hygiene conditions during collection.
- A smaller BoarMatic for young boars is also available.



The initiation of the boar's erection is performed with the AC which is glued to the gloved hand. After starting the ejaculation, the inner pouch with the first jets of the pre sperm ejaculate is discarded. The sheath of the AC is now connected to the semen collection cup and the rubber pad with cushions is fixed in the BoarMatic clamp. The stimulating pressure on the boar's penis continues, so that the boar can continue ejaculation without human help. After finishing the ejaculation, the boar dismounts the BoarMatic by himself.

The US Bag® consists of a sperm friendly plastic bag with integrated filter. Prior to semen collection the US Bag® is inserted into the semen collection cup and is then immediately ready for use. Already during ejaculation the filter separates the bulbourethral gland secretion from the ejaculate. After semen collection, the upper part of the US Bag® together with the filter and the contained secretion is torn off at the perforation and discarded. The whole process can be performed without touching the filter or the inner surface of the bag, thus maintaining the semen bag free from bacteria.



The combination of BoarMatic and US Bag® provides the optimal precondition for a hygienic and efficient semen collection.

1. The disposable AC consists of a rubber pad with rubber cushions and a double plastic sheath. The inner pouch collects the pre-sperm ejaculate and is then discarded, so that the ejaculate only comes into contact with clean surfaces.



2. After cleaning the prepuce, the semen collector grips the tip of the penis with the AC and initiates the erection. When the boar has finished the pre-sperm fraction, the inner pouch is discarded.

3. Afterwards, the erected boar penis with the AC is fixed in the clamp of the BoarMatic. The sheath for the semen is connected with the collection cup. A closed system is created which protects the semen.



4. The boar finishes the ejaculation alone and the semen collector can start the next collection on another dummy. With the diminishing erection, the boar's penis can leave the AC clamp by himself.

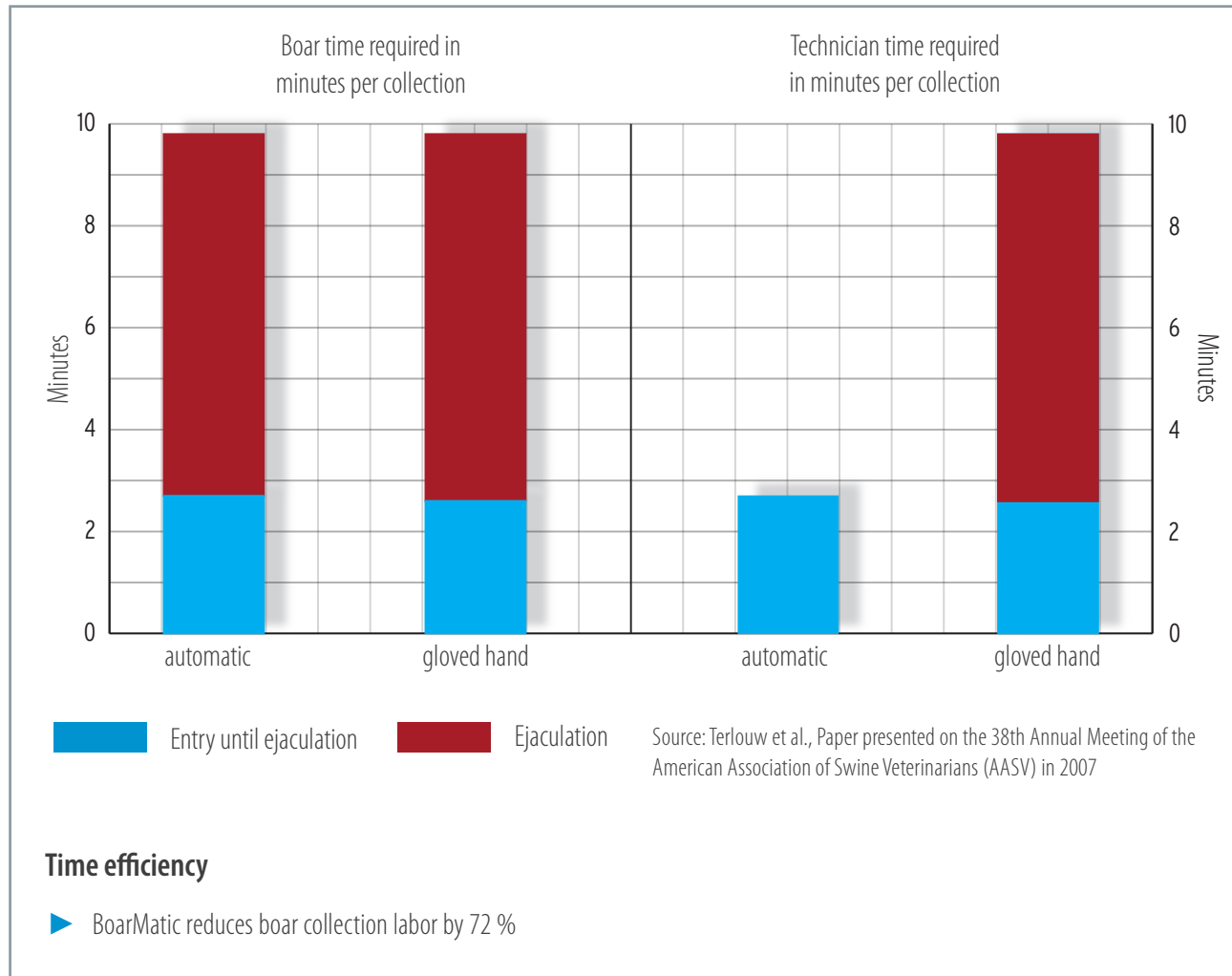
5. The ejaculate is collected safely and clean in the US Bag®. Particles and gel are retained in the integrated filter. The ejaculate can now be evaluated, diluted and processed.





BoarMatic facts

Required time per boar and collector



Your benefits

- Simultaneously collect multiple boars
- Reduces labor: 1 collector/200 boars
- Improves semen hygiene
- Increased technician safety through reduced boar contact
- More time available to perform other tasks such as:
 - ▶ Recording data
 - ▶ Moving boars
 - ▶ Preparing for the next collection or
 - ▶ Starting the next collection
 - ▶ Taking samples



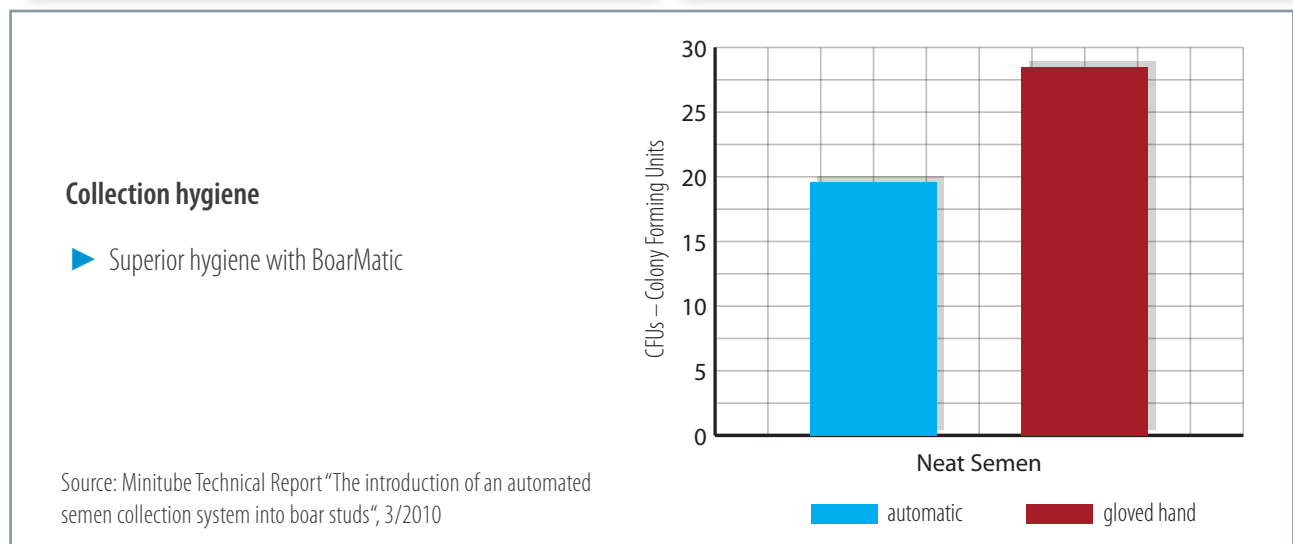
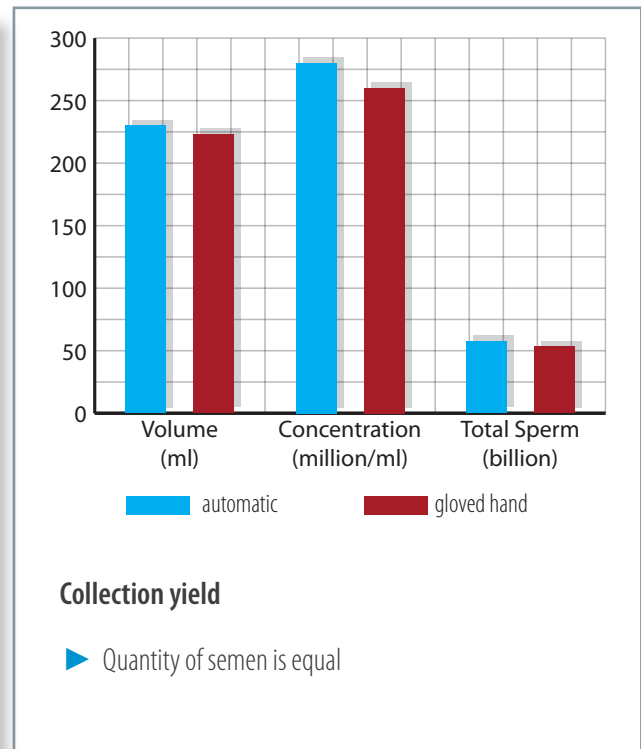
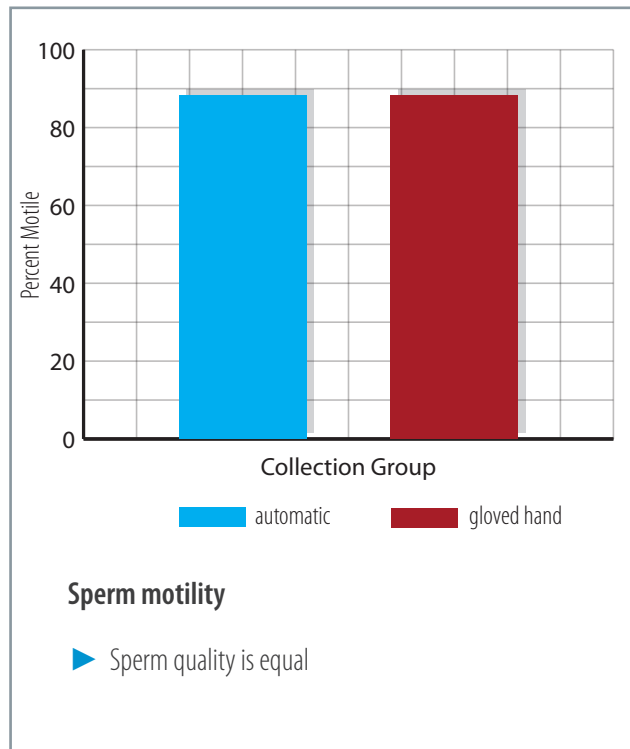
minitube



BoarMatic validation trial

The validation trial was performed with 9 boars. 54 BoarMatic collections and 63 gloved hand collections were evaluated for volume, concentration, motility, bacterial count and time efficiency.

Results:





BoarMatic

- Suitable for all boars
- Adaptable to existing installations
- Does not require electric or pneumatic connection
- Low maintenance
- Makes the process for the collector easier and prevents occupational diseases, like the carpal tunnel syndrome

BoarMatic 11" for adult boars 1

plastic cover [REF. : 11100/0202](#)

stainless steel [REF. : 11100/0200](#)

BoarMatic 9" for young boars, plastic cover [REF. : 11100/0201](#)

US Bag®

- Provides a completely disposable solution from collection to dispensing
- Is an important improvement of work hygiene
- Is made of non sperm toxic plastic
- Has got an integrated filter made of nonwoven fabric (non chloride bleached material) and a perforation to tear off after use
- Avoids that filter and pouch are touched with the hands

US Bag®, volume 3.5 l 2 [REF. : 11123/0100](#)

US Bag®, volume 5.5 l [REF. : 11123/0550](#)

US Bag® with spout, volume 3.5 l [REF. : 11123/0200](#)

Accessories

Mounting part for BoarMatic, 11" 3 [REF. : 11100/0204](#)

Clamp for AC, right [REF. : 11100/0205](#)

Clamp for AC, left [REF. : 11100/0206](#)

Height adjustable clamp holder [REF. : 11100/0208](#)

Semen collection cup for BoarMatic 4 [REF. : 11100/0215](#)

Semen collection cup for BoarMatic, with integrated transponder [REF. : 11100/0216](#)

AC made of sponge rubber 5 [REF. : 11100/0211](#)
50/package

Rubber mat for boar dummy,
150 x 100 cm, 23 mm thick [REF. : 11100/0040](#)

Collection glove, extra sensitive, non sperm toxic, 100/box 6

Size M [REF. : 11128/0055](#)

Size L [REF. : 11128/0060](#)

Size XL [REF. : 11128/0065](#)

Size XXL [REF. : 11128/0070](#)

Hygiene glove, for the protection of the collection glove during boar preparation, 100/package [REF. : 11128/0100](#)

