Henryetta, bovine AI training model

A new approach to artificial insemination training

AI training advances to the next level with the new, life-like training model cow Henryetta. This revolutionary concept offers unique training opportunities and provides more flexibility in the timing and location of your AI courses.

Most realistic, life-like AI training model on the market

The most realistic training device on the market replicates the reproductive tract and pelvic cavity of a cow. It consists of a fiberglass body and silicone internals. Four windows provide internal views to guide and evaluate trainee´s procedure. Heating simulates body temperature and inflation of the bowel mimics pneumorectum. Gynaecological parts such as the cervix and uterus can be removed for guided training in the early stages.

Improve the quality and flexibility of your AI training

Henryetta offers an innovative approach to AI training that has been proven to achieve learning goals significantly faster. Large windows allow trainers to monitor AI success and allow more students to benefit from training at the same time. In addition, a difficult or easy cervix can be used among many other options for training variation. The cost of providing live animals and slaughterhouse organs can be greatly reduced.

Benefit from the proven advantages for AI training and improved animal welfare!

Viewing Windows
for control of trainees' actions

Anatomically Correct
including full reproductive tract and rectum

Life Like Tail
for learning techniques on how to handle the tail

Padded Pelvis
for realistic feeling of bone structure and pelvic fat

Temperature Controlled
for realistic body temperature

Removable Rump and Tail
for easy cleaning

Barreling Pump
for imitation of pneumorectum

minitube

Henryetta improves training speed and results at LIC in New Zealand

AI training initially consisted of examining anatomical specimens and passing insemination instruments through the cervix into the uterus. Today, training standards have reached a highly professional level in most countries. Trainees must pass a theoretical test followed by training on real organs and finally on live animals. However, the current standard is threatened by the reduced availability and access to live animals and organs due to cost, logistics and animal welfare standards.

Livestock Improvement Corporation (LIC), a long established New Zealand breeding company, faced these problems and solved them by developing "Henryetta", an anatomically correct AI training device. LIC trains more than 100 AI technicians each year. During the three months AI season, 950 AI technicians inseminate over 4.3 million cows on farms throughout New Zealand.

Henryetta's look and feel is more natural than of any other training device. Even the body temperature, a pneumorectum or the handling the cow's tail can be simulated. In addition to the fact that using Henryetta as a training model helps to improve a company's image, its introduction into AI courses results in a much steeper learning curve. LIC's training success rate data confirms this fact. Before Henryetta, only 55% of students passed the first week of technician training. With the help of Henryetta, this rate increased to over 80% in the following years.

The training process

Henryetta provides a new approach to practical AI training. After covering theory with information on the bovine cycle, heat detection and insemination, trainees move into the practical part of the training.

1. The first step is to practice passing an insemination instrument through a cervix held in the trainee's hand. The trainee must feel the cervical rings and attempt to pass them with eyes closed.

2. Once step 1 is mastered, the cervix is inserted into the silicone reproductive tract and trainees repeat the exercise with the complete tract in front of them.

3. Finally, insemination is practiced on the artificial cow. Each assembly of the cervix into the reproductive tract results in a differently shaped tract, which also effectively simulates real conditions.

LIC training statistics

Year		2010-2012 (before Henryetta)	2013-2016 (with Henryetta)
Trainees (n)		421	371
Passed week 1	n	231	301
	%	55	81

Product features

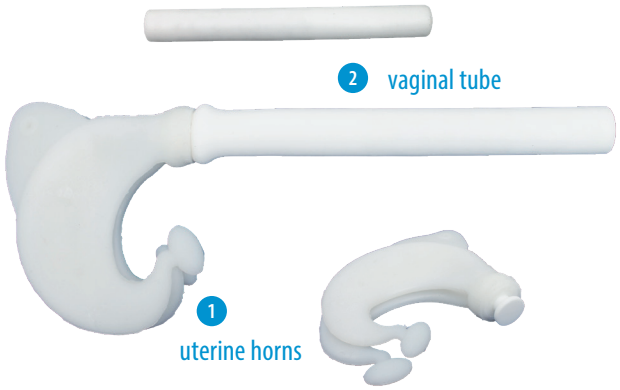
- Footprint: 1320 x 680 mm
- Height: 1400 mm
- Weight: 53 kg
- Power supply: 230 V/50 Hz or 115 V/60 Hz

Henryetta, bovine AI training model	
Model Holstein Friesian, 230 V	22400/1040
Model Simmental, 230 V	22400/1050
Model Holstein Friesian, 115 V	22400/1041
Model Simmental, 115 V	22400/1051

The Simmental design is a special edition produced exclusively on request. Orders may therefore be subject to longer delivery times.

Accessories and spare parts

Uterus [1]	22400/1167
Vaginal tube [2]	22400/1168
Cervix	
small opening for advanced training [3]	22400/1064
wide opening for training start [4]	22400/1163
Rectum bag [5]	22400/1061
Cervix spoon for easy insertion [6]	22400/1161
ReproJelly, 3 l („artificial poo“) [7]	11907/3000
Pump for lubricant ReproJelly	11907/3100



One set of reproductive organs included in scope of delivery!

Pregnancy and palpation model Henryetta AI PLUS

The new **pregnancy and palpation model AI PLUS** is a true evolution of our proven Henryetta AI training cow! Students can now train the most important steps of manual pregnancy check and ovarian diagnostics.

A unique system of placing the uterus inside the cow body on an intestine cushion allows for a realistic feeling and palpation of the entire tract, including the cervix, uterine horns and different variations of the ovaries.

Students can identify the key signs of different stages of pregnancy (enlarged uterus, fluid filled horn, membrane slip and a palpable embryo). Additionally, the trainer can set up different cycle stages by exchanging ovaries with different functional bodies (small follicles, large follicle, Corpus luteum, cyst).

Pregnancy tract	
pregnancy signs approx. day 42 [1]	22400/1171
pregnancy signs approx. day 60 [2]	22400/1172
Ovary	
small follicles [3]	22400/1181
large follicle [4]	22400/1182
Corpus luteum [5]	22400/1185
cystic [6]	22400/1189
Intestine cushion [7]	22400/1179

Pregnant cow uterus for manual pregnancy detection training

- Pregnancy stage approx. day 42 and 60
- Foetus contained
- Pregnant horn enlarged
- Pregnant horn fluid filled to imitate amniotic fluids
- Two membranes to enable training of manual membrane slip for pregnancy diagnostics
- Interchangeable ovaries for ovarian palpation