

## BOVINE & EQUINE PRODUCT CATALOGUE & OPERATION MANUAL

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## **BREED'N BETSY TESTIMONIALS**

Visit breednbetsy.com.au to listen to students talk about using "Betsy" and how it has helped their progression!



### **BREED'N BETSY** BOVINE BACK END & PELVIC WALL

Breed'n Betsy is the original and the most highly developed artificial training device on the market, found in classrooms all over the world. This unique training tool was created for teaching and learning the specific skills required to be successful in artificial breeding, pregnancy diagnosis and embryo transfer.

The look, touch and feel approach has proven to be the key to its continued success, with students quickly making links between theory and the hands-on learning provided by the units. With a variety of package options and an unparalleled level of realism and adaptability, Breed'n Betsy has become the 'go to' for universities, high schools and colleges.

From the initial prototypes to the unmatched realism of the device today, I am proud of the continual innovation and development of every element in the Breed'n Betsy product line. I am confident that the products will compliment your teaching and improve student learning outcomes.

If you have any questions or concerns, please don't hesitate to contact me.

Regards, Brad Pickford



WATER RECTUM



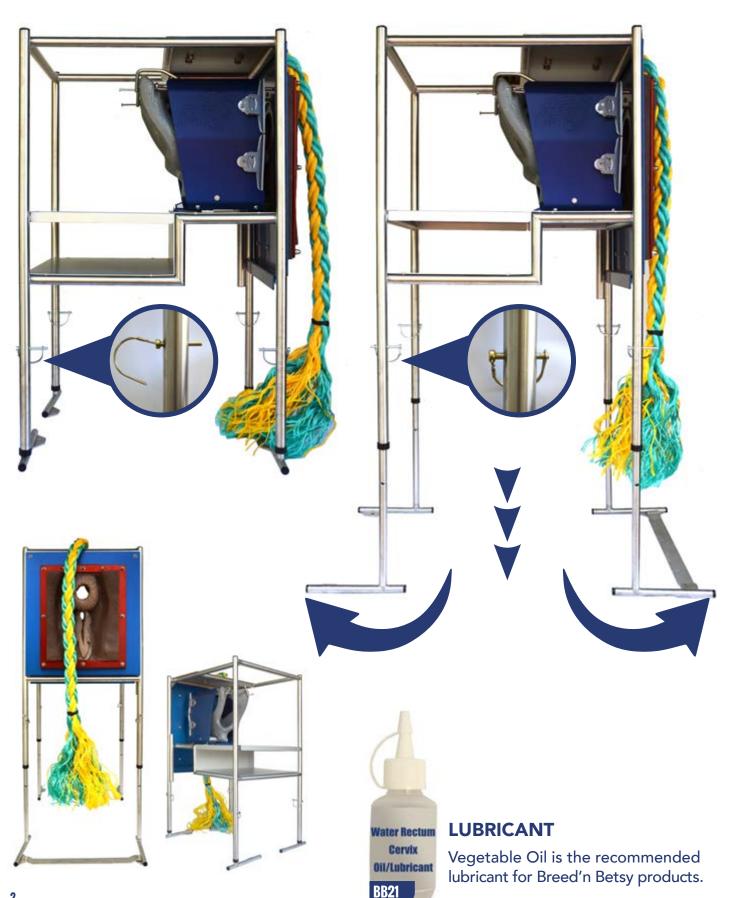
#### **BOVINE BACK END**



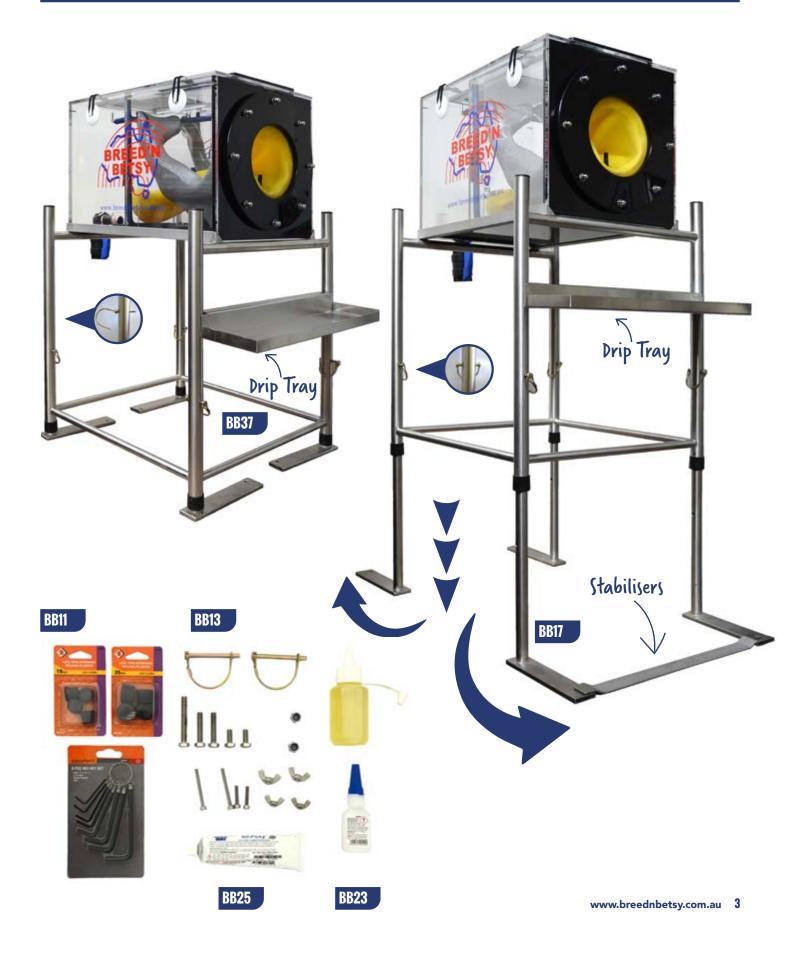


# **BREED'N BETSY** BOVINE BACK END FRAME





### **BREED'N BETSY** WATER RECTUM (PORTABLE FRAME)



### **BREED'N BETSY** PORTABLE FRAME SETUP

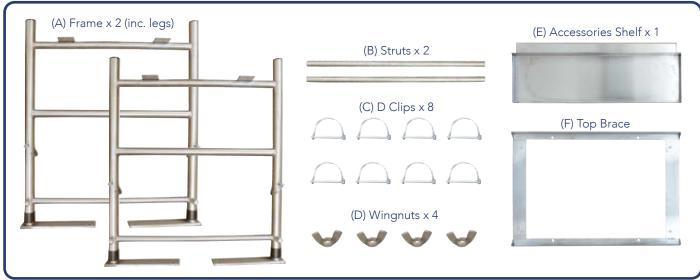
#### SETUP INSTRUCTIONS

- **1.** Fix Top Brace (F) to frame using 4 x Wingnuts (D)
- 2. Attach Struts (B) to frame with D Clips (C)
- **3.** Extend legs of frame and insert D Clips (C)
- **4.** Postion Tray (E) onto centre bar at front of frame.



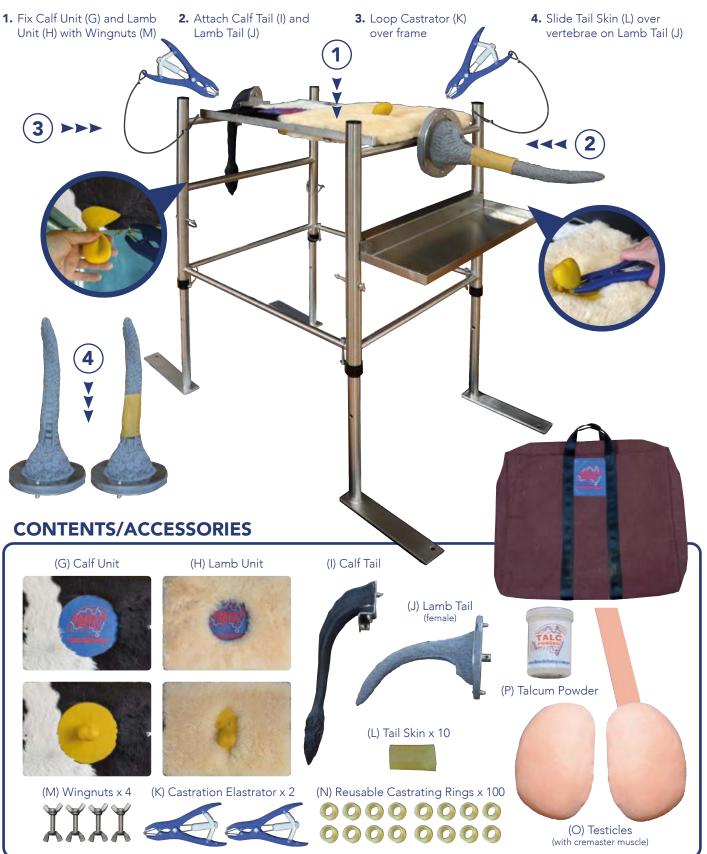


#### CONTENTS



### **BREED'N BETSY CASTRATING SIMULATOR**

#### SETUP INSTRUCTIONS



### **BREED'N BETSY** BOVINE PELVIC WALL & PELVIS



#### PELVIC WALL SETUP



PARTS OF THE PELVIC WALL



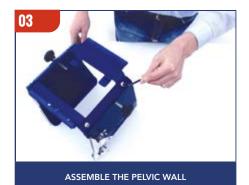
PLACE PELVIS IN PELVIC WALL & ATTACH PELVIC RODS



ASSEMBLE THE PELVIC WALL



ATTACHING ORGANS TO PELVIC WALL







6

### **BREED'N BETSY** ATTACHMENT SETUP



Clip the broad ligaments to pelvic rods or attachment to pelvic wall to position the ovaries as required. Wash all organs with detergent/disinfectant and allow to dry completely before storage.



### **BREED'N BETSY** LATEX BREEDING TRACT & CERVIXES

Clip organ attachment to pelvic wall secure organs in the Breed'n Betsy. Wash all organs with detergent/disinfectant and allow to dry completely before storage. Use cervixes individually or in the Latex Breeding Tract.



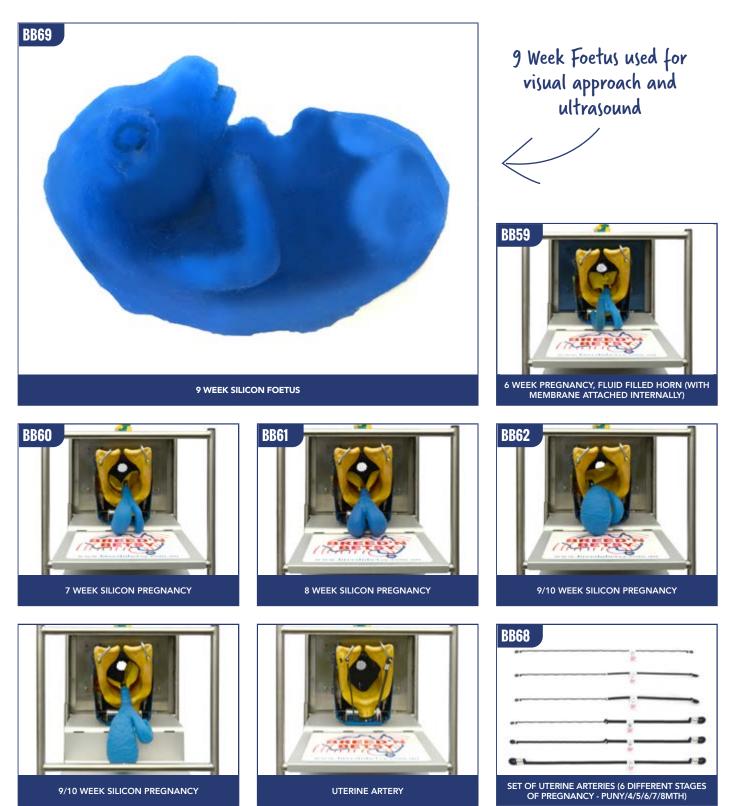
### **BREED'N BETSY** COMPLETE BREEDING TRACTS

Clip organ attachment to pelvic wall secure organs in the Breed'n Betsy. Wash all organs with detergent/disinfectant and allow to dry completely before storage.



### **BREED'N BETSY** PREGNANCY ORGANS & SETUP

Non Pregnant with ovaries attachments. Clip organ attachment to pelvic wall secure organs in the Breed'n Betsy. Wash all organs with detergent/disinfectant and allow to dry completely before storage. Use Latex Drying Powder to dry inside pregnancy bladders.



# **BREED'N BETSY PREGNANCY ORGANS & SETUP**

Clip organ attachment to pelvic wall secure organs in the Breed'n Betsy. Wash all organs with detergent/disinfectant and allow to dry completely before storage. Use Latex Drying Powder to dry inside pregnancy bladders.



9 WEEK LATEX PREGNANCY BLADDER

11 WEEK LATEX PREGNANCY BLADDER

UTERINE ARTERIES ATTACHED

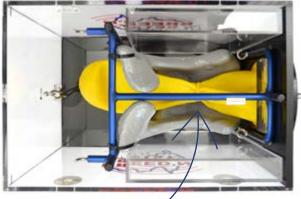


# **BREED'N BETSY** WATER RECTUM

#### WATER RECTUM

Recently updated and now on it's own stand, the Water Rectum is one of the most exciting features of the simulation packages. It provides a unique level of realism for the student - the water creates a floating effect that makes the organs less static requiring more precision and the sphincter places pressure on the user's arm. This combination is unique and allows for continual assessment of student understanding and a higher level of diagnostic training.

Vision from all sides including the top enables trainers to guide students through every step of essential processes including organ/ovary location, cervix location, palpation, retraction/ indirect retraction and manipulation of organs.







#### LUBRICANT Vegetable Oil



**STAINLESS STEEL PIPETTE** 



ARTIFICIAL BREEDING & PREGNANCY DIAGNOSIS



**BB39** 



WATER RECTUM CARRY BAG





INSERT PALPATION LINER



ATTACH COVER



TIGHTEN NUTS WITH ALLEN KEY & SPANNER



COMPLETED COVER ASSEMBLY

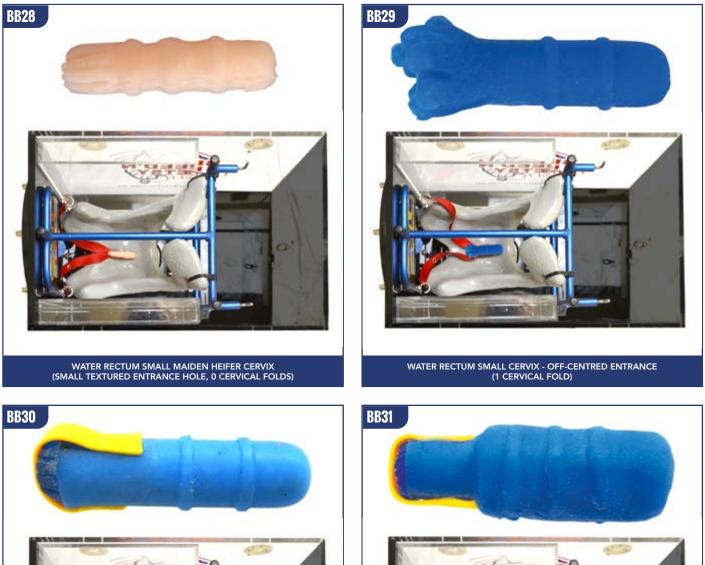


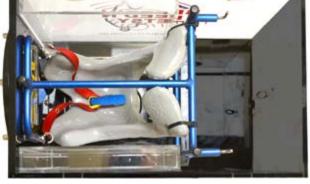
ATTACH PALPATION LINER CLIP. THE BLUE VIRGINAL FOLD AT THE BOTTOM EXTEND ONTO FRONT WALL

### WATER RECTUM BREEDING CERVIX SETUP

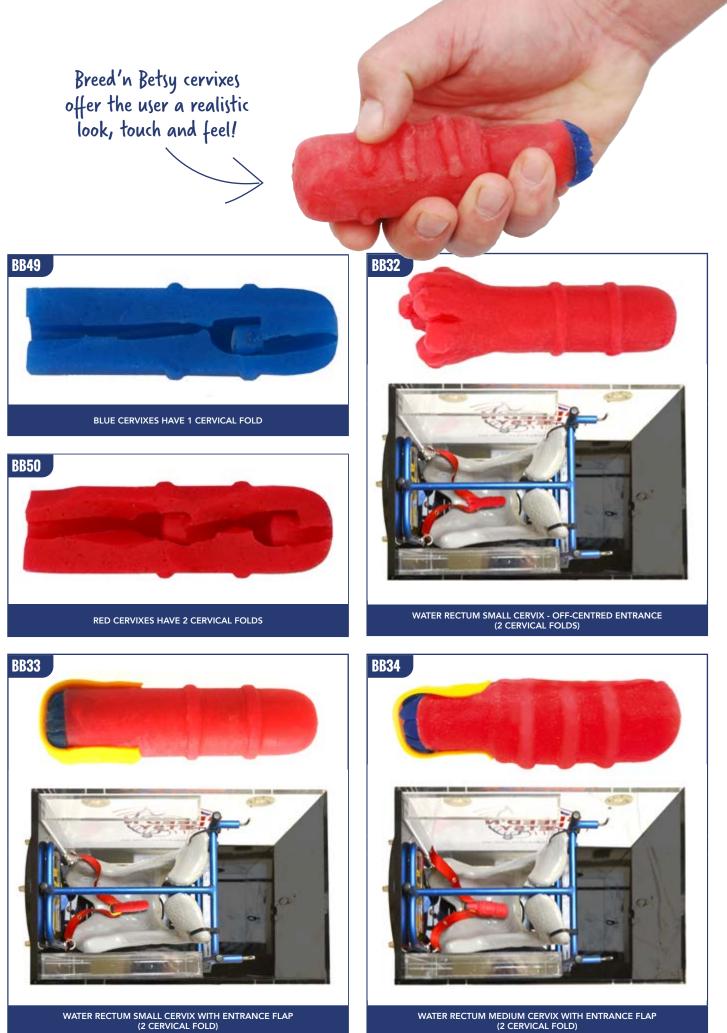


Attach the broad ligaments to the hooks on the internal water rectum frame. Use the different eyelet settings to position the cervix closer or further from the back end. Wash all cervixes and water rectum with detergent/disinfectant and allow to dry completely before storage.





WATER RECTUM SMALL CERVIX WITH ENTRANCE FLAP (1 CERVICAL FOLD) WATER RECTUM MEDIUM CERVIX WITH ENTRANCE FLAP (1 CERVICAL FOLD)



WATER RECTUM SMALL CERVIX WITH ENTRANCE FLAP (2 CERVICAL FOLD)

### WATER RECTUM INTERNAL ORGAN SETUP

BREED'N

Use the organ attachment to secure organs in the water rectum. Wash all organs and water rectum with detergent/disinfectant and allow to dry completely before storage.



SMALL REPRODUCTIVE TRACT HEIFER TRACT WITH OVARIES ATTACHED



6 WEEK PREGNANCY, FLUID FILLED HORN WITH MEMBRANE ATTACHMENT



9/10 WEEK SILICON PREGNANCY



7 WEEK SILICON PREGNANCY



12 WEEK SILICON PREGNANCY



MEDIUM REPRODUCTIVE TRACT WITH BROAD LIGAMENTS & OVARY ATTACHMENTS



LARGE REPRODUCTIVE TRACT WITH BROAD LIGAMENTS & OVARY ATTACHMENTS



8 WEEK SILICON PREGNANCY





#### BB51

SMALL SILICON BREEDING TRACT (2 CERVICAL FOLDS WITH ENTRANCE FLAP)



9 WEEK LATEX PREGNANCY BLADDER



UTERINE ARTERY



2 HORNS 9-11 WEEK FILLED LATEX PREGNANCY BLADDER



WATER RECTUM ORGAN ATTACHMENT

#### , Virginal Ligament



MEDIUM SILICON BREEDING TRACT (2 CERVICAL FOLDS WITH ENTRANCE FLAP)





11 WEEK LATEX PREGNANCY BLADDER



### **BREED'N BETSY PIPETTE CERVIX LOCATOR**



#### **PELVIS ASSEMBLY**





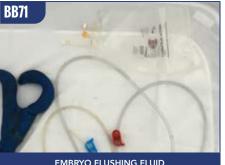


### **BREED'N BETSY** EMBRYO TRANSFER (BOVINE)





EMBRYO FLUSHING TRACT



EMBRYO FLUSHING FLUID FRAME ATTACHMENT



EMBRYO IMPLANTING TRACT



### **BREED'N BONNY PELVIC WALL & BREEDING CERVIX**

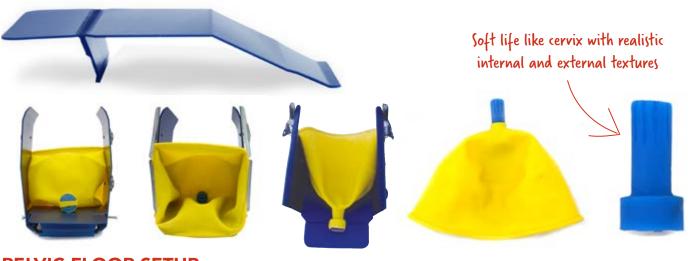
#### EQUINE PELVIC WALL & PELVIC FLOOR



#### **BREEDING CERVIX**

Continuous use, realistic equine cervix used for artificial breeding and swab training.





#### **PELVIC FLOOR SETUP**







## **BREED'N BONNY EQUINE BACK END & PELVIS**

#### EQUINE BACK END



EQUINE PELVIS



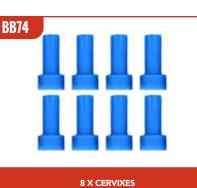




EQUINE BREEDING CERVIX COMPLETE WITH VAGINAL LATEX LIGAMENT ATTACHMENT



INSEMINATING THE CERVIX FROM BONNY'S BACK END



TRAINING VETERINARY STUDENTS AT CHARLES

TRAINING VETERINARY STUDENTS AT CHARLES STURT UNIVERSITY



EQUINE BACK END



EQUINE BACK END

### **BREED'N BONNY TRACTS, PREGNANCIES & OVARIES**

Bonny is a realistic, year round training device for students to acquire skills in palpation and retraction in the equine reproductive cycle.

#### **REPRODUCTIVE TRACTS**







56 DAY PREGNANCY (PALPATION)



ACCESSORIES CARRY BAG



BREEDING TRACT SETUP



BREEDING TRACT & OVARY SETUP



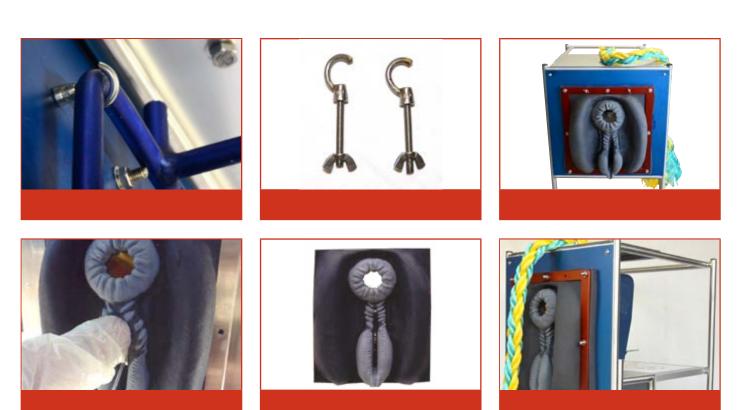


49 Day PD

WATER RECTUM ORGAN ATTACHMENT

# **BREED'N BONNY EQUINE FIXED FRAME**

#### **PELVIS ASSEMBLY**











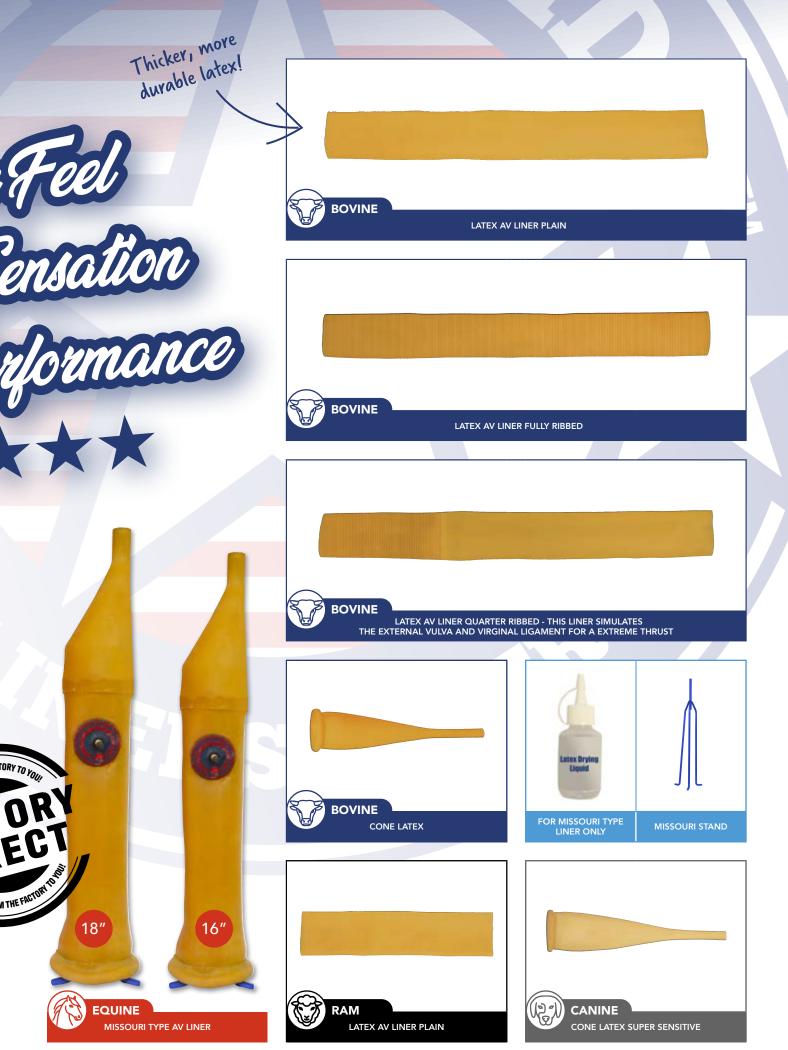












### **BREED'N BETSY** BOVINE PACKAGES



No.	BOVINE PACKAGES	USAGE
01	<b>COMPLETE BOVINE PACKAGE</b> This package contains one Water Rectum and Stand along with one Bovine Back End and Frame. Complete Silicone Breeding Tracts, Open Tracts, Latex Breeding Tracts, Ovaries, Water Rectum Cervixes and Cervixes. Two training units that can be used for Artificial Breeding, Pregnancy Diagnosis, Ovary Palpation, Open Reproductive Tracts Palpation & Retraction.	FF WR CV OT LT C WC BT PD
02	<b>COMPLETE WATER RECTUM PACKAGE</b> This package contains one Water Rectum and Stand. Complete Silicone Breeding Tracts, Ovaries, Water Rectum Cervixes and Cervixes. It is a flexible training option with the Water Rectum providing appropriate simulation for students of all abilities and needs. Suitable for Artificial Breeding, Pregnancy Diagnosis, Ovary Palpation, Open Reproductive Tracts Palpation & Retraction.	FF WR OV OT LT C WC BT PD
03	<b>COMPLETE BOVINE BACK END PACKAGE</b> This package contains one Bovine Back End and Frame. Complete Silicone Breeding Tracts, Open Tracts, Latex Breeding Tracts and Cervixes. It is a good option for smaller teaching classes and introductory to Bovine Reproduction. Suitable for Artificial Breeding, Pregnancy Diagnosis and Open Reproductive Tract Palpation & Retraction.	FF WR CV CJ LJ C WC BJ PD
04	<b>ARTIFICIAL BREEDING PACKAGE</b> This package contains one Water Rectum and Stand along with one Bovine Back End and Frame. Open Tracts, Ovaries, Water Rectum Cervixes and Cervixes. Suitable for Artificial Breeding with two training units that will introduce your students to Artificial Insemination and Palpation of empty tracts. This package has both units allowing you to have multiple stations set up for teaching.	
05	<b>ARTIFICIAL BREEDING PACKAGE (WATER RECTUM ONLY)</b> This package contains the Water Rectum and Stand. Suitable for Artificial Breeding it also includes Open Tracts, Ovaries, Water Rectum Cervixes and Cervixes designed specifically for the use in the Water Rectum.	
06	<b>ARTIFICIAL BREEDING PACKAGE (BOVINE BACK END AND FRAME ONLY)</b> This package contains one Bovine Back End and Frame. Suitable for Artificial Breeding this package is a good beginner set for an introduction into Bovine Artificial Insemination and includes Complete Silicone Breeding Tracts, Open Tracts, Ovaries and Cervixes.	
07	<b>WATER RECTUM</b> This package includes the Water Rectum and Stand which can be added onto one of the other packages if you are looking for an additional work station. Does not include any internal organs.	FF WR OV OT LT C WC BT PD
08	<b>BOVINE BACK END &amp; FRAME</b> This package contains a Bovine Back End and Frame that can be added onto one of the other packages if you are looking for an additional work station. Does not include any internal organs.	FF WR OV OT LT C WC BT PD



### **BREED'N BONNY** EQUINE PACKAGES

09	<b>COMPLETE EQUINE PACKAGE</b> This package contains one Water Rectum and Stand along with one Equine Back End and Frame. Open Tract, Latex Breeding Tracts, Ovaries, Pregnancies and Cervixes. Two training units set up for Equine Pregnancy Diagnosis, Open Reproductive Tract Palpation & Retraction, Ovary Palpation and Artificial Breeding/Swab Collection training.	FF WR OV OT LT C WC BT PD
10	<b>EQUINE ARTIFICIAL BREEDING PACKAGE</b> This package contains one Equine Back End and Frame. Latex Breeding Tracts and Cervixes. This package can be used for Artificial Breeding and Swab Collection Training.	FF WR OV OT LT C WC BT PD
11	<b>EQUINE BACK END AND FRAME</b> This package can be added to any existing frame to advance training with in the areas of Artificial Breeding and Swab Training. Does not include any internal organs.	FF WR OV OT LT C WC BT PD
12	<b>EQUINE/BOVINE WATER RECTUM</b> This package can be added to any existing frame to advance training with in areas of Pregnancy Diagnosis and Ovary Palpation. Does not include any internal organs.	FF WR OV OT LT C WC BT PD

## **COMBO PACKAGES**

#### PACKAGE No.

No.

PACKAGE

#### **COMPLETE BOVINE/EQUINE PACKAGE** 13

This package contains one Water Rectum and Stand along with one **Equine Back End** and Frame. Bovine Pelvis and Bovine/Equine Pelvic Wall. Complete Silicone Breeding Tracts, Open Tracts, Latex Breeding Tracts, Ovaries, Water Rectum Cervixes and Cervixes. Two training units that can be used for Artificial Breeding, Pregnancy Diagnosis, Ovary Palpation, Open Reproductive Tracts Palpation & Retraction. Does not include any equine internal organs, refer to product list.

### **CASTRATING PACKAGES**

No.	PACKAGE	
14	<b>COMPLETE CASTRATING PACKAGE</b> This package contains Portable Frame, Canvas Bag on wheels, Calf Unit, Lamb Unit, Calf Tail, Lamb Tail (female), Wingnuts x 4, Castration Elastrator x 2, Reusable Castrating Rings x 100, Tail Skin x 10, Talcum Powder, Testicles (with cremaster muscle)	
15	<b>CASTRATING PACKAGE</b> This package contains Calf Unit, Lamb Unit, Calf Tail, Lamb Tail (female), Wingnuts x 4, Castration Elastrator x 2, Reusable Castrating Rings x 100, Tail Skin x 10, Talcum Powder, Testicles (with cremaster muscle)	









### **BREED'N BETSY PRODUCT LIST**



CODE	PRODUCT	PAGE
	BREED'N BETSY BOVINE / EQUINE FRAME ACCESSORIES	
BB01	1 x Betsy Bovine Back End	1
BB02	1 x Betsy Bovine Pelvis	4
BB03	1 x Betsy Pelvic Wall	4
BB04	1 x Equine Back End	17
BB05	1 x Equine Pelvis	17
BB06	1 x Equine Pelvic Wall	16
BB07	1 x Set of Pelvic Rod Connectors	5
BB08	1 x Water Rectum Carry Bag	10
BB09	1 x Accessories Carry Bag	19
BB10	1 x Latex Rectal Wall	3
BB11	4 x Plastic Frame Leg Plugs	
BB12	4 x Plastic Frame Plugs	
BB13	4 x Frame Leg Pins (Stainless Steel Frame / Fixed Frame)	3
BB14	10 x Frame Leg Pins (Aluminum Portable Frame)	
BB15	4 x Plastic Plugs with hand screw threads for frame attachment (Portable Frame only)	
BB16	8 x Hand Screws (Portable Frame only)	
BB17	1 x Frame Stabilisers	3
BB18	1 x Latex Organ Attachment	5
BB19	4 x Pelvic Wall Clips (with bolts and screws)	5
BB20	1 x Latex Drying Powder (Latex Pregnancy Water Bladders)	3
BB21	1 x Cervix Lubricant Oil	2,15
BB22	1 x Set of Latex Broad Ligaments (Equine)	
BB23	1 x Latex Repair Glue	3
BB24	1 x Water Rectum Acrylic Box Repair Kit	
BB25	1 x Silicon Repair Glue	3
BB26	1 x Water Rectum Organ Attachment	15
BB27	1 x Water Rectum Water Tap Attachment	
BB37	1 x Water Rectum Drip Tray	3

	BREED'N BETSY BOVINE WATER RECTUM ACCESSORIES	
BB28	1 x Water Rectum Small Maiden Heifer Cervix (Small textured entrance hole, 0 cervical folds)	12
BB29	1 x Water Rectum Small Cervix - Off-centred entrance (1 cervical fold)	12
BB30	1 x Water Rectum Small Cervix with entrance flap (1 cervical fold)	12
BB31	1 x Water Rectum Medium Cervix with entrance flap (1 cervical fold)	12
BB32	1 x Water Rectum Small Cervix - Off-centred entrance (2 cervical folds)	13
BB33	1 x Water Rectum Small Cervix with entrance flap (2 cervical fold)	13
BB34	1 x Water Rectum Medium Cervix with entrance flap (2 cervical fold)	13
BB51	1 x Small Silicon Breeding Tract (1-3 year old cow) (2 cervical folds with entrance flap)	6,15
BB52	1 x Medium Silicon Breeding Tract (3-5 year old cow) (2 cervical folds with entrance flap)	6,15
BB53	1 x Large Silicon Breeding Tract (5+ year old cow) (2 cervical folds with entrance flap)	6,15
BB38	2 x Latex Palpation Liners (with new attachment for Breeding Valve, Breeding Tracts and Cervixes)	11
BB39	12 x Anus Sphincter Rings	10

CODE	PRODUCT	PAGE
	BREED'N BETSY ARTIFICIAL BREEDING ACCESSORIES	
BB40	1 x Latex Breeding Tract without Cervix	6
BB41	1 x Latex Breeding Tract with Cervix (choice of 7 Cervixes)	6
BB42	1 x Small Maiden Heifer Cervix (Small textured entrance hole, 0 cervical folds)	6
BB43	1 x Small Cervix - Off-centred entrance (1 cervical fold)	6
BB44	1 x Small Cervix with entrance flap (1 cervical fold)	6
BB45	1 x Medium Cervix with entrance flap (1 cervical fold)	6
BB46	1 x Small Cervix - Off-centred entrance (2 cervical folds)	6
BB47	1 x Small Cervix with entrance flap (2 cervical fold)	6
BB48	1 x Medium Cervix with entrance flap (2 cervical fold)	6
BB49	1 x Small Cervix cut open (1 cervical fold)	13
BB50	1 x Small Cervix cut open (2 cervical folds)	13
BB51	1 x Small Silicon Breeding Tract (1-3 year old cow) (2 cervical folds with entrance flap)	6,15
BB52	1 x Medium Silicon Breeding Tract (3-5 year old cow) (2 cervical folds with entrance flap)	6,15
BB53	1 x Large Silicon Breeding Tract (5+ year old cow) (2 cervical folds with entrance flap)	6,15
BB54	6 x Stainless Steel Pipette Breeding Rods with Water Rectum Valve Caps	10

BREED'N BETSY BOVINE NON-PREGNANT REPRODUCTIVE TRACTS AND OVARIES		
BB55	1 x Small Silicon Reproductive Tract (heifer size) with Ovaries attached	6,14
BB56	1 x Medium Silicon Reproductive Tract (2-3 year old cow) with Broad Ligaments to attach Ovaries	6,14
BB57	1 x Large Silicon Reproductive Tract (5+ year old cow) with Broad Ligaments to attach Ovaries	6,14
BB58	11 x Interchangeable Ovaries (including: Non Cycle, Corpus Luteum, Cyst and Follicles)	6

	BREED'N BETSY BOVINE PREGNANCY DIAGNOSIS	
BB59	1 x 6 Week Pregnancy, Fluid Filled Horn (with membrane attachment)	8,14
BB60	1 x 7 Week Silicon Pregnancy	8,14
BB61	1 x 8 Week Silicon Pregnancy	8,14
BB62	1 x 9/10 Week Silicon Pregnancy	8,14
BB63	1 x 9 Week Latex Pregnancy Water Bladder	9,15
BB64	1 x 9-11 Week Latex Pregnancy Water Bladder (2 horns )	9,15
BB65	1 x 11 Week Latex Pregnancy Water Bladder	9,15
BB66	1 x 12 Week Silicon Pregnancy	9,14
BB67	1 x Silicon Placenta with 4 month placentomes	9,14
BB68	1 x Set of Uterine Arteries (5 different stages of pregnancy - Puny/5/6/7/8mth)	8,15
BB69	1 x 9 Week Silicon Foetus	8

	EMBRYO TRANSFER (BOVINE)	
BB70	1 x Embryo Flushing Tract	19
BB71	1 x Embryo Flushing Fluid Frame Attachment	19
BB72	1 x Embryo Implanting Tract	19
	BREED'N BONNY EQUINE ACCESSORIES	
BB73	1 x Equine Breeding Cervix complete with Vaginal Latex Ligament attachment	17
BB74	8 x Cervixes	17
BB75	1 x Non Pregnant Reproductive Tract	18
BB76	1 x 16 Day Pregnancy Internal Fluid with Vesicles	18
BB77	1 x 28 Day Pregnancy	18
BB78	1 x 35 Day Pregnancy	18
BB79	1 x 42 Day Pregnancy	18
BB80	1 x 49 Day Pregnancy	18
BB81	1 x 56 Day Pregnancy	19

10 x Ovaries with Follicles

BB82

19

#### HINTS FOR SUCCESSFUL OPERATION OF "BREED'N BETSY"

- 1. Apply sufficient lubricant both internally and externally, to the anus, to allow free hand and arm movement.
- 2. Use artificial breeding gloves (lubricated) with every insertion.
- 3. A sheath should be used when using normal insemination guns loaded with non-active .25cc (mini) or .50cc (maxi) straws.
- 4. If cervix is dry or sticking to the insemination gun, apply sufficient lubricant to allow the insemination gun to slide freely.
- 5. After use, always wash Betsy down with detergent/disinfectant and water to remove all debris.
- 6. After water rectum use wash everything (frame, water rectum box, organs, liner) with detergent/disinfectant then allow to dry. Reverse out palpation liner to dry. Make sure all latex pieces are dry before storage.
- 7. Water Bladders: blow half up with air and close the tap this will stop the latex sticking together when dried.

#### **PHOTOS**





























\*Locating the correct vertebrae/position for tail docking.

\*The retractable testicle moves up and down the body cavity and scrotum so the students can palpate the testicles into the correct position.

Retractable Testicle





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