

# Elastator®

## Sealing Systems, Slaughterhouse Products and Equipment Catalogue.

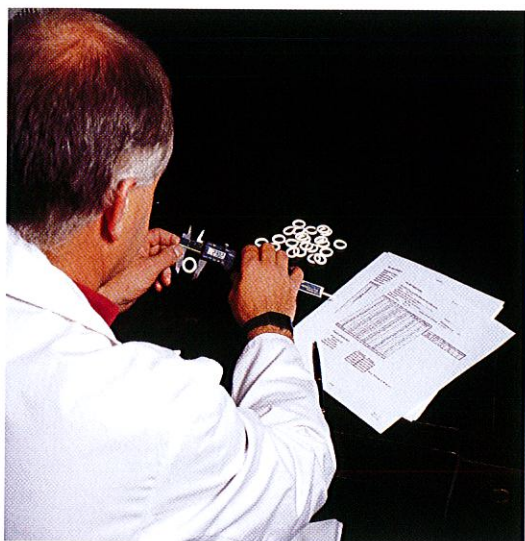


**Heiniger**

THE ULTIMATE QUALITY

900-850  
12/99





*Quality Control*



*Elastrator Testing Machine*

Heiniger Australia, a daughter of the famous Swiss manufacturer of quality sheep shearing and animal clipping products, is proud to add the business name Elastrator to its portfolio. This acquisition is part of the company's strategy to broaden its range of animal husbandry products.

In the 1960s the Elastrator Co. of New Zealand developed a system of application that pioneered the use of latex rings (used traditionally for tail docking and castration procedures) for the sealing of intestinal bowel and urinary tracts of slaughtered livestock. This simple, yet highly effective system led to a dramatic reduction in carcass contamination and has since been adopted internationally.

The system uses one of several different size latex rings each with its own unique loading and application system. These also have industrial sealing applications outside of the meat processing industry.

The key to the success of latex ring sealing is the strict adherence to Quality Control throughout manufacture, grading and tensile testing procedures. The cost of the seal ring is at all times irrelevant to the associated cost of a failure. Heiniger is an ISO 9001 accredited company and all rings follow a QC procedure in line with the parent's manufacturing guidelines. No other manufacturer offers this level of accountability.

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*Another Quality Product from*

**Heiniger**

### CONTACT

International Enquiries	Phone (61) 03933 89400	Fax (61) 03933 81333
Australian Enquiries	Phone 03933 89400	Fax 03933 81333
New Zealand Enquiries	Fax 0800 ELASTRATOR	



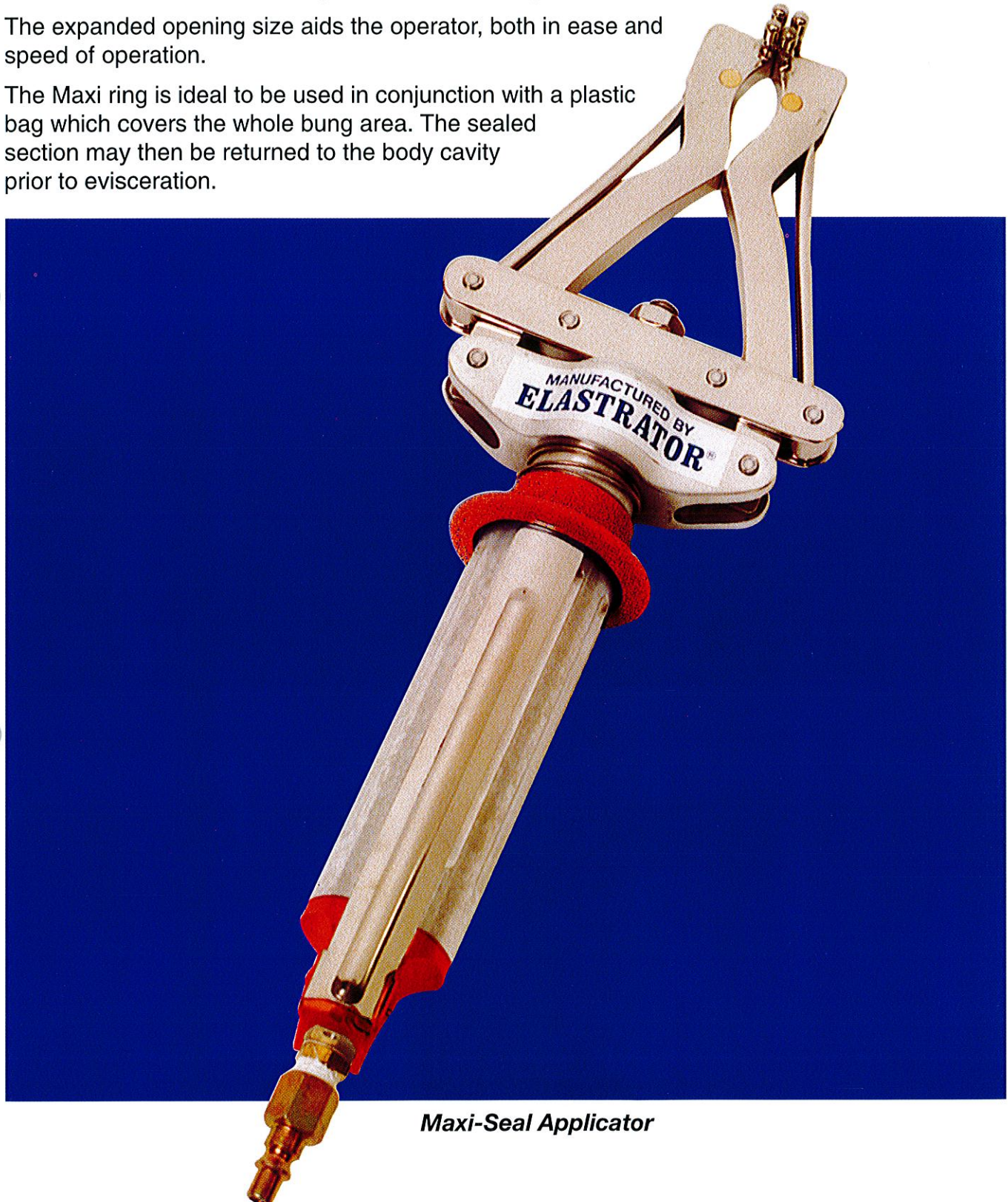
# The Elastrator® Maxi-Seal Ring



Designed specifically for the application of Elastrator® Maxi rings which are used to seal the bung and urinary tract of larger animals - typically 'Lot Fed Beef Cattle' with a larger than normal bung.

The expanded opening size aids the operator, both in ease and speed of operation.

The Maxi ring is ideal to be used in conjunction with a plastic bag which covers the whole bung area. The sealed section may then be returned to the body cavity prior to evisceration.



*Maxi-Seal Applicator*

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**SECTION 4**

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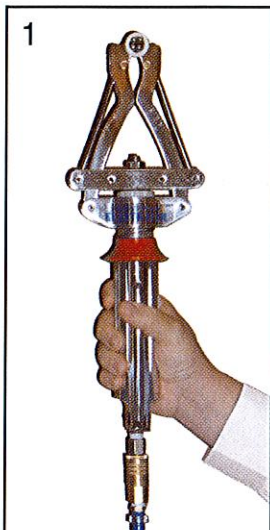


# The Elastrator® Maxi-Seal Ring



## Method of Application

Normal ringing of the bung takes place: the ring is expanded, the bung pulled through and the ring released. Ensure the ring is placed far enough down to contain the urinary tract.



*Maxi-Seal Ring loaded on expander.*



*Maxi-Seal Ring fully expanded.*



*Removing bung from animal (ringing).*



*Passing the expanded ring over the bung.*



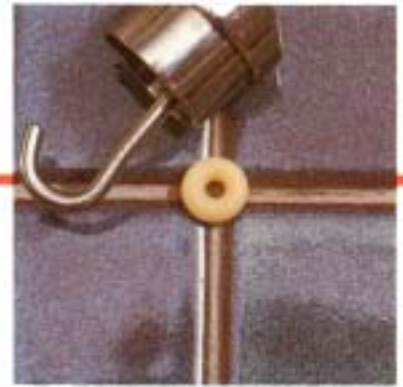
*Sealed bung ready to be placed back in body cavity.*



*Sealed bung on evisceration table.*

# The Mini Ring

Introduced so that companies could keep stomach content contamination to an absolute minimum, thus ensuring maximum returns through little or no down dressing. The Mini ring also allows by its operation the reduction in manning being looked for by companies today. It has proved to be the most efficient seal which, when applied at the paunch of the stomach, contains the contents of the rumen and leaves the weasand empty. Application is by way of a rodding gun loaded from an air operated loading device.



*Auto ring rodder loader with rodder in the loading position*

## **Advantages of Adopting the Mini Ring**

The gains to be expected from the introduction of this area as follows;

- . A simple, clean and efficient operation, resulting in maximum control of contamination.
- . Real reduction on the detain rail.
- . Improvement in recovery figures.
- . Reduction in manning with one man doing rodding, sealing and sticking.
- . Easy acceptance by employees.
- . One ring for both sheep and lambs.
- . Major savings on rings to alternatives.
- . A positive seal that all but eliminates human error can be achieved.
- . Easier evisceration by gutty.
- . Introduction can be achieved without major changes.

## **Bobby Calves**

For bobby calves, a rodding gun is available without a knife blade, but the procedure is the same.



# Elastrator® Auto Loading Devices

## Mini and Standard Rings

For high throughput plants both mini and standard rings may be loaded with the aid of Elastrator's own patented automatic loading devices.

These units present the expanded ring ready for instant loading onto either the mutton or beef rodders. Besides increasing speed, automatic loading improves inter-animal hygiene by eliminating any personal handling of the ring. Up to 2000 rings are stored in the hopper and fed down a magazine where a spear driven by a pneumatic ram collects the ring and expands it up a cone presenting it in a position to be collected by the rodder.



The unit operates on 520-830kPa air pressure. It should be mounted securely at a height and position convenient for operators and close to a washing and sterilising station.

The unit will satisfactorily present rings at rates up to several thousand per hour. Machines should be regularly cleaned and kept dry. Surplus talc or residue should be removed regularly to maintain a smooth flow for the rings. Likewise any jammed or damaged rings must be immediately removed.

On high capacity plants the installation of parallel loaders is recommended. This always provides a backup in the case of unexpected problems.

### Caution

These loaders are to be used with genuine Elastrator rings only. These rings have been tensile tested and graded for size to ensure smooth flow through the machine and to prevent jamming. Generic rings may cause jamming and misapplications.

### Rings

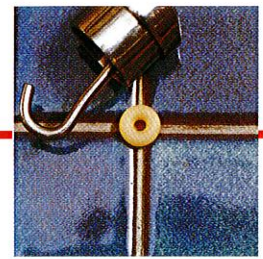
Always keep rings warm and dry, even small amounts of moisture may prevent rings flowing freely through the loader.

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# The Elastrator® Mini Ring



## Typical Mini Ring Application

After stunning, the animal is hung by the forelegs in a spreader with the back leg shackle at a height that will keep the animal in a horizontal position.

First the neck is opened and the weasand is freed. The weasand gun operator then removes the gun from the sterilizer, loads it and picks up the weasand with the hook provided. He pulls the weasand through the end of the gun, holding the weasand tight in the left hand and

pushing the gun to the paunch of the stomach. On reaching this position he pulls the trigger releasing the ring to effect the seal. In conjunction with the clearing and sealing of the weasand an optional blade on top of the gun will allow thoracic sticking of the animal thus ensuring full bleeding takes place as soon as possible.

The gun is then returned to the sterilizer to await the next carcass.



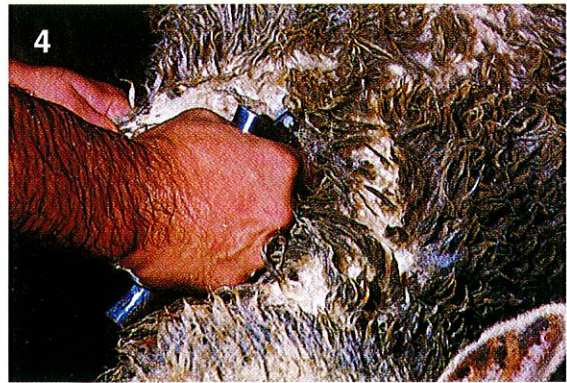
1  
*Animal with forelegs in a spreader held in the horizontal position.*



2  
*Neck opened with the weasand being freed.*



3  
*Weasand pulled through rodder and ready for rodding process.*



4  
*Rodding gun pushed to the paunch of the stomach.*



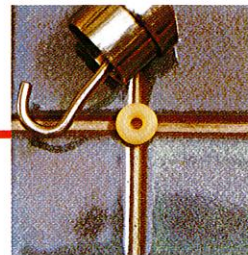
5  
*Evisceration made easy for the 'gutty'.*



6  
*Ring in correct position at the paunch of the stomach.*



# The Elastrator® Mini Ring



Designed to seal the paunch of small animals (lambs, sheep, goats, bobby calves). The mini ring is applied by way of a rodding gun which enables the ring to be correctly placed on the weasand at the paunch of the stomach, thereby affecting the seal (see over). The mini ring applicator comes in three basic configurations.

*Standard Mutton Rodders*



*Mutton Rodders (with blade).* The option of a stainless steel blade mounted on the top of the applicator allows thoracic sticking of the animal on withdrawal, following ring placement.



*Weasand applicators.* This is a shortened version of the standard rodder. Useful for applying a second weasand ring for additional security against ingestive leakage from the weasand when animals have been slaughtered ahead of the recommended holding period.

## **Loading**

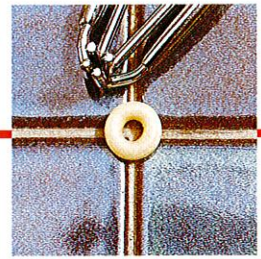
Rings are loaded onto rodders by an auto-loading device – see section 5.

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# The Elastrator® Standard Ring



Designed to seal the oesophagus on cattle and deer. The standard ring is applied by way of a rodding gun which enables the ring to be correctly placed on the weasand at the paunch of the stomach, thereby effecting the seal (see over). The standard ring may also be used to seal the bung on larger sheep and pigs.

## Loading

In small processing (throughput) plants this rodder may be loaded manually by the use of the standard Elastrator ring expander. Rings are kept in the Elastrator ring dispenser ready for easy collection by the expander used then to load the rings on to the rodder.

In larger plants the automatic loading device should be used. See section 5.



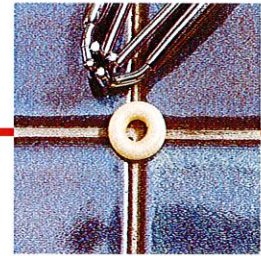
*The Standard Ring Rodder, Ring Dispenser and Ring Expander*

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# The Elastator® Standard Ring



## Method of Application

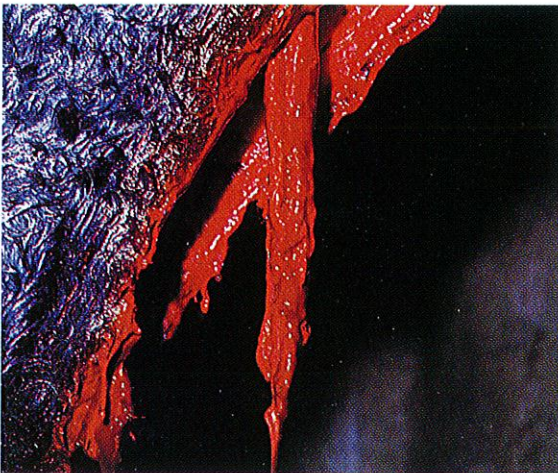
After the animal has been bled the weasand is freed and severed on an angle of 45° from the root of the tongue.

The angled cut allows easier feeding into the rodder of larger weasands. A nick is made halfway through the weasand some 200mm (8") from the bottom to allow the operator to apply some leverage while rodding. The weasand is allowed to drop through the rodder. Next the thumb is inserted in the nick with the left hand and pressure is applied as the rodder is pushed to the paunch. When the operator feels the rodder hit the paunch, he should pull the trigger releasing the ring. The ring will then effect the seal containing the contents of the stomach.

## Results and Advantages

By ensuring the ring is placed at the paunch, any possibility of backflow of stomach content is eliminated and the possibility of contamination during evisceration is minimised.

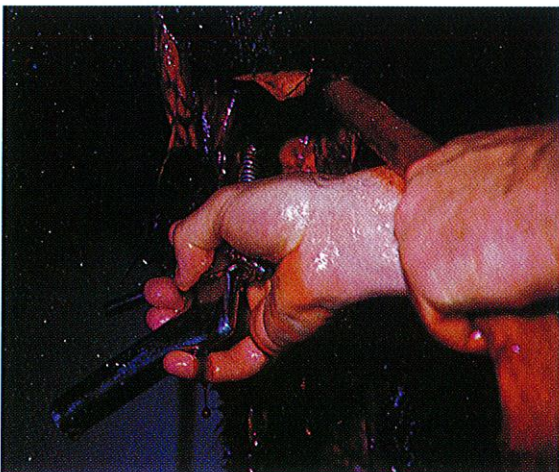
The evisceration itself is far easier for the gutty and thus production gains are achieved for the processor. The human error possible with tying off using string or stockingette is eliminated.



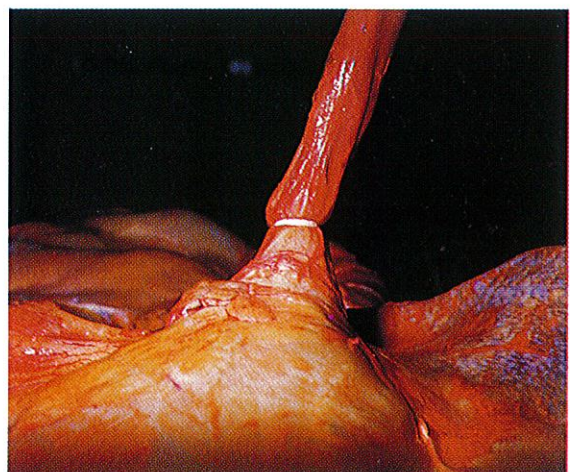
*Weasand freed and severed at an angle of approximately 45°.*



*Weasand threaded through rodder ready for rodding operation.*



*Weasand held while rodding operation complete.*



*Beef weasand ring in correct position at the paunch of the stomach.*