

CORONET

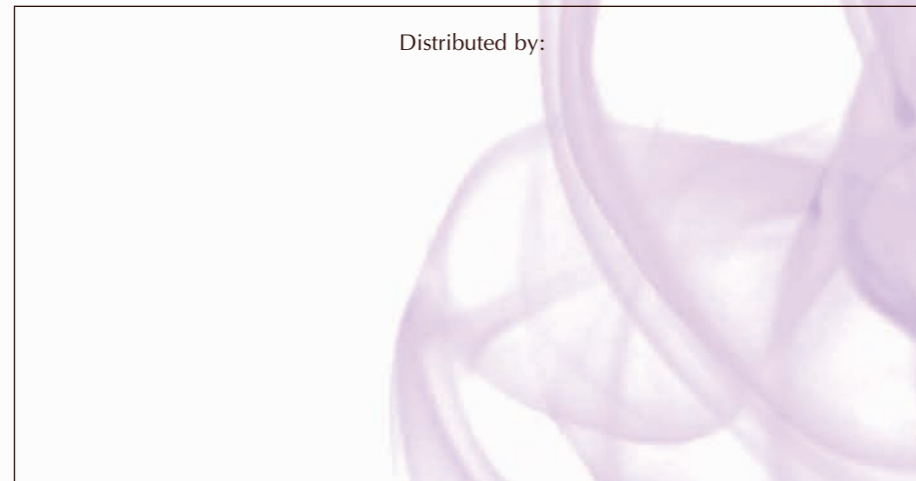
CORNEAL GRAFT

CORONET is the Ophthalmic Division of
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Coronet Trephines

Thank you for your interest in the CORONET range of corneal graft instruments.

Corneal graft surgery has developed significantly over the last decade and the expectations of both the surgeon and the patient have risen and now demand the very best instrumentation available. Good corneal wound architecture is the key to post-operative success and the trephine blade sharpness and profile are vital in achieving the best surgical outcome.

The CORONET range of corneal graft instruments was conceived several years ago and has progressed to embrace the most modern technologies available to produce our ultra-sharp trephine blades. The unique sharpness and consistent reliability of the blade edge has established our international reputation.

Modern technology has been essential in creating the innovative designs inherent in the CORONET corneal programme and has helped us to redefine the corneal trephine. Even so we depend on highly skilled craftsmen and operators to assemble, inspect and test each product. Our quality philosophy and management system demand high levels of commitment from all involved in the manufacture of our products to ensure your complete satisfaction.

Innovation is the lifeblood of the company and we seek to positively enhance our product range and meet the demands of the latest advances in surgical technique and we seek the opinion and input from surgeons working in the field at every opportunity.



Philip Weston
Managing Director

All CORONET trephines utilise the unique CORONET blade technology to create an ultra-sharp cutting edge of reliable and repeatable quality. The ultra-sharp, thin profile cutting edge minimises damage to the endothelial cells and reduces undercut and tissue distortion. The comprehensive range of sizes are available in 0.25mm increments.



'Modern technology plus modern design helps the Coronet programme to have the most innovative and effective designs.'

All the products in this catalogue have been manufactured in accordance with the requirements of ISO 13485:2003 and the Medical Devices Directive 93/42/EEC and are authorised to bear the CE mark.

Recipient Vacuum Trephine

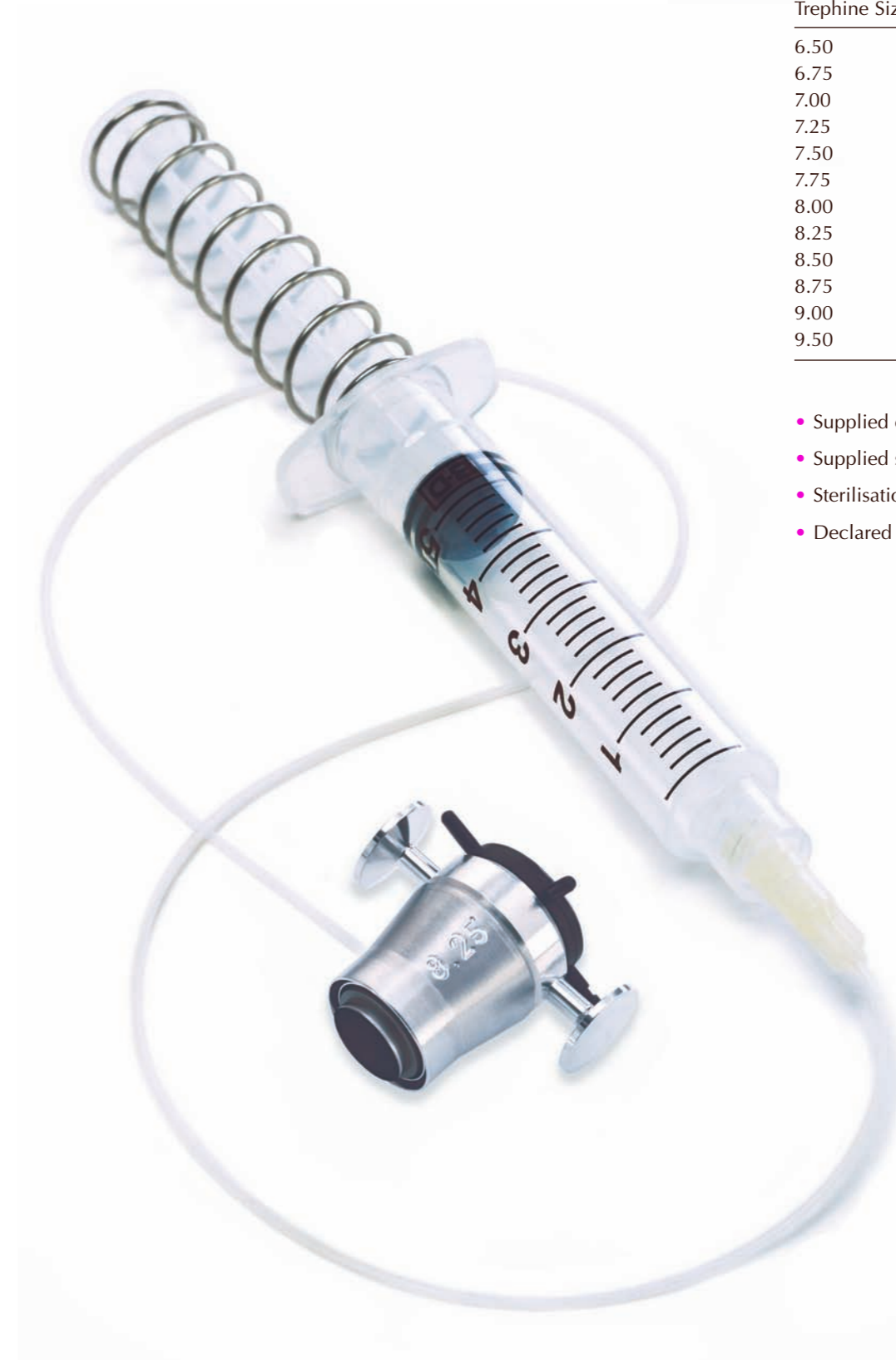
51-840

The CORONET Recipient Vacuum Trephine is ergonomically designed and the length has been calculated to give easier access to the most recessed eyes.

The trephine is supplied in a comprehensive range of blade diameters and utilises the unique CORONET blade technology to create an ultra-sharp cutting edge of reliable and repeatable quality.

Functional characteristics

- Vacuum created holds trephine securely onto the surface of the cornea
- Ergonomic design and length gives easier access to recessed eyes
- Ultra-sharp thin profile blade minimises damage to endothelial cells and reduces undercut
- Fine cross hairs assist with centralisation of the trephine
- Non-reflective head
- Blade progresses 0.063mm downward per quarter turn and 0.252mm per full rotation
- Marker pin allows the operator to calculate the quarter and full turns through which the blade has progressed.



Trephine Size (mm)	Code
6.50	51-840-6.50
6.75	51-840-6.75
7.00	51-840-7.00
7.25	51-840-7.25
7.50	51-840-7.50
7.75	51-840-7.75
8.00	51-840-8.00
8.25	51-840-8.25
8.50	51-840-8.50
8.75	51-840-8.75
9.00	51-840-9.00
9.50	51-840-9.50

- Supplied one per box
- Supplied sterile for single use only.
- Sterilisation by Ethylene Oxide (EO)
- Declared 3 year shelf life

Donor Vacuum Punch

51-835

The CORONET Donor Vacuum Punch, like the Donor Punch, awards the surgeon with visualisation of the graft at all times during the procedure. The base provides a stable operating platform with the additional vacuum function (suction), which holds the corneal tissue securely and in the most relaxed anatomically correct shape in preparation for the trephination of the donor button.

The CORONET Donor Vacuum Punch is supplied with a CORONET standard trephine plus a graft protector cover.

Patent Protected

Functional characteristics

- 100% visualisation of the graft at all times
- Graft tissue may be manipulated through the 'windows' to achieve optimal positioning
- Vacuum holds the corneal tissue securely throughout the procedure and reduces the likelihood of bubbles forming under the epithelial tissue
- Base provides a stable, safe operating platform, holding the tissue in a relaxed anatomically correct shape
- The ultra-sharp, thin profile trephine blade minimises damage to the endothelial cells and reduces undercut
- Marker holes in base assist when centering the tissue and reduces the likelihood of bubbles forming under the epithelial tissue
- Graft protector cover protects the graft from particulate contamination during transfer to recipient



Trephine Size (mm)	Code
6.00	51-835-6.00
6.25	51-835-6.25
6.50	51-835-6.50
6.75	51-835-6.75
7.00	51-835-7.00
7.25	51-835-7.25
7.50	51-835-7.50
7.75	51-835-7.75
8.00	51-835-8.00
8.25	51-835-8.25
8.50	51-835-8.50
8.75	51-835-8.75
9.00	51-835-9.00
9.25	51-835-9.25
9.50	51-835-9.50
9.75	51-835-9.75

- Supplied one per box
- Supplied sterile for single use only
- Sterilisation by Ethylene Oxide (EO)
- Declared 3 year shelf life

Donor Punch

51-850

The unique CORONET Donor Punch has been designed to award the surgeon with visualisation of the graft at all times during the procedure. The base provides a stable operating platform and holds the corneal tissue in the most relaxed anatomically correct shape in preparation for the trephination of the donor button.

The CORONET Donor Punch is supplied with a CORONET standard trephine which utilises the unique CORONET blade technology to create an ultra-sharp cutting edge of reliable and repeatable quality plus a graft protector cover to protect the graft from atmospheric dust particulate following trephination.

Patent Protected

Functional characteristics

- 100% visualisation of the graft at all times
- Graft tissue may be manipulated through the 'windows' to achieve optimal positioning
- Base provides a stable, safe operating platform, holding the tissue in a relaxed anatomically correct shape
- Ultra-sharp, thin profile blade minimises damage to the endothelial cells and reduces undercut
- Marker holes in base assist when centring the tissue and reduces the likelihood of bubbles forming under the epithelial tissue
- Graft protector cover protects the graft from atmospheric dust particulate



Trephine Size (mm)	Code
6.00	51-850-6.00
6.25	51-850-6.25
6.50	51-850-6.50
6.75	51-850-6.75
7.00	51-850-7.00
7.25	51-850-7.25
7.50	51-850-7.50
7.75	51-850-7.75
8.00	51-850-8.00
8.25	51-850-8.25
8.50	51-850-8.50
8.75	51-850-8.75
9.00	51-850-9.00
9.25	51-850-9.25
9.50	51-850-9.50
9.75	51-850-9.75

- Supplied one per box
- Supplied sterile for single use only
- Sterilisation by Ethylene Oxide (EO)
- Declared 3 year shelf life

Guarded Trepine - fixed-depth blade

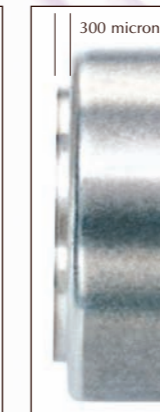
51-860/51-865

The CORONET Guarded Trepine has been designed to meet the requirements of the surgeon when performing a lamellar keratoplasty.

The fixed blade depth awards the surgeon control over the blade penetration.

Functional characteristics

- Suitable for both recipient and donor
- Especially useful for any lamellar technique
- Choice of two fixed depth blades; 300 microns or 400 microns
- Cross hair to assist with centralisation



Size (mm)	300 Micron Fixed Depth Code	400 Micron Fixed Depth Code
7.00	51-860-7.00	51-865-7.00
7.50	51-860-7.50	51-865-7.50
8.00	51-860-8.00	51-865-8.00
8.50	51-860-8.50	51-865-8.50

- Supplied one per box
- Supplied sterile for single use only
- Sterilisation by Gamma Irradiation
- Declared 5 year shelf life

Standard Trepine

51-900

Designed for the Donor Punch or for the manual technique on either the donor tissue or the recipient eye.

Functional characteristics

- This trephine is able to fit a number of commercially available Donor Graft Punches



Size (mm)	Code
6.00	51-900-6.00
6.25	51-900-6.25
6.50	51-900-6.50
6.75	51-900-6.75
7.00	51-900-7.00
7.25	51-900-7.25
7.50	51-900-7.50
7.75	51-900-7.75
8.00	51-900-8.00
8.25	51-900-8.25
8.50	51-900-8.50
8.75	51-900-8.75
9.00	51-900-9.00
9.25	51-900-9.25
9.50	51-900-9.50
9.75	51-900-9.75

- Supplied one per box
- Supplied sterile for single use only
- Sterilisation by Gamma Irradiation
- Declared 5 year shelf life

Standard Trepine with Cross Hair

51-901

Functional characteristics

- Designed for the manual technique on the recipient eye
- Precise cross hair to assist centralisation



Size (mm)	Code
6.00	51-901-6.00
6.25	51-901-6.25
6.50	51-901-6.50
6.75	51-901-6.75
7.00	51-901-7.00
7.25	51-901-7.25
7.50	51-901-7.50
7.75	51-901-7.75
8.00	51-901-8.00
8.25	51-901-8.25
8.50	51-901-8.50
8.75	51-901-8.75
9.00	51-901-9.00
9.25	51-901-9.25
9.50	51-901-9.50

- Supplied one per box
- Supplied sterile for single use only
- Sterilisation by Gamma Irradiation
- Declared 5 year shelf life

Donor Compact Trephine

51-902

The CORONET Compact Trephine has been designed to meet the requirements of the surgeon who prefers to use an IOWA-type punch for the donor graft.

Functional characteristics

- Ultra-sharp, thin profile blade
- Shorter length
- This trephine is available to fit a number of commercially available donor graft punches
- Suitable for IOWA-type punch



Size (mm)	Code
6.25	51-902-6.25
6.50	51-902-6.50
6.75	51-902-6.75
7.00	51-902-7.00
7.25	51-902-7.25
7.50	51-902-7.50
7.75	51-902-7.75
8.00	51-902-8.00
8.25	51-902-8.25
8.50	51-902-8.50
8.75	51-902-8.75
9.00	51-902-9.00

- Supplied one per box
- Supplied sterile for single use only
- Sterilisation by Gamma Irradiation
- Declared 5 year shelf life

Long-handled Trephine

51-903

The CORONET Long-handled Trephine is suitable for use on either the donor tissue or the recipient eye.

Functional characteristics

- Ultra-sharp, thin profile blade
- Available in large diameter sizes – 10.00mm, 10.50mm, 11.00mm and 11.50mm



Size (mm)	Code
6.00	51-903-6.00
6.25	51-903-6.25
6.50	51-903-6.50
6.75	51-903-6.75
7.00	51-903-7.00
7.25	51-903-7.25
7.50	51-903-7.50
7.75	51-903-7.75
8.00	51-903-8.00
8.25	51-903-8.25
8.50	51-903-8.50
8.75	51-903-8.75
9.00	51-903-9.00
9.25	51-903-9.25
9.50	51-903-9.50

- Supplied one per box
- Supplied sterile for single use only
- Sterilisation by Gamma Irradiation
- Declared 5 year shelf life

Larger Sizes (mm)	Code
10.00	51-903-10.00
10.50	51-903-10.50
11.00	51-903-11.00
11.50	51-903-11.50

Artificial Anterior Chamber

51-935

The CORONET Artificial Anterior Chamber has been designed to be used with any of the CORONET standard hand held trephines and is unique in concept in that one chamber fits all sizes of donor graft - ONE SIZE FITS ALL.

The Artificial Anterior Chamber allows the donor cornea material to be supported on a chamber of balanced salt solution, the pressure of which can be varied to recreate the required intraocular pressure. This permits the surgeon to cut the donor button from the epithelial surface, which directly mirrors the cut on the recipient cornea and so the donor button will have a similar wound architecture to that of the recipient. Cutting the donor button from the epithelial surface also reduces potential damage to delicate endothelial tissues and facilitates better approximation with the recipient cornea, which in turn reduces the likelihood of post-operative scarring and astigmatism.

Patent Pending

Functional characteristics

- The chamber is suitable for any size donor graft tissue from 14.5mm through to 18mm
- Two tissue retaining heads are supplied with the chamber:
 - Small to accommodate graft tissue 14.50mm - 16.00mm
 - Large to accommodate graft tissue 17.00mm - 18.00mm
- The components of the artificial chamber separate to allow the corneal graft tissue to be placed over a chamber into which the balance salt solution can flow and create a pressure sufficient to support the tissue
- The pressure created in the chamber is similar to that of the natural eye. The tissue is clamped into position on the top of the pedestal by the tissue retainer, which grips the tissue gently around the scleral ring and seals the chamber so that the balanced salt solution cannot escape
- The compression ring holds the retainer securely in place while the surgeon carries out the procedure
- The pressure within the chamber can be varied by adjusting the height of the infusion bag on the stand and clamping off the flow once the required pressure has been achieved
- The chamber can be used safely with any of the CORONET hand-held trephines
- Once the cut has been achieved to the surgeons' satisfaction, it may be completed with a diamond knife

Description	Code
Artificial Anterior Chamber with large and small tissue-retaining heads	51-935

- Supplied one set per box
- Supplied sterile for single use only
- Sterilisation by Ethylene Oxide (EO)
- Declared 3 year shelf life



Exactor Trepine

51-905

The Exactor trephine is the only stainless steel ground blade trephine in the CORONET range. Designed for the preparation of the donor tissue in the eye bank, the trephine is available in three sizes; 15mm, 17mm and 18mm diameters.

Functional characteristics

- Designed to give repeatable and standardised diameters for the users of the eye bank
- The sharp cutting edge enhances the preparation of the donor material and reduces any stress impact on the endothelial cells essential to maintaining the integrity of the cells and minimising cell loss



Size (mm)	Code
15	51-905-15
17	51-905-17
18	51-905-18

- Supplied one per box
- Supplied sterile for single use only
- Sterilisation by Gamma Irradiation
- Declared 5 year shelf life

Corneal Marker

51-915

Functional characteristics

- Eight-blade marker
- Available in two sizes; 7.00mm and 8.00mm



Size (mm)	Code
7.00	51-915-7.00
8.00	51-915-8.00

- Supplied five per box
- Supplied sterile for single use only
- Sterilisation by Gamma Irradiation
- Declared 5 year shelf life