



Duckworth & Kent
titanium surgical instrument manufacturer

at the leading edge

Toric Markers



Precision Guided Marking

The Toric IOL's can result in marked reduction of astigmatism and therefore a high likelihood of spectacle freedom for distance vision. However, one must be able to correctly identify the intended meridians for the incision and axis alignment in order to achieve success.

Find us on



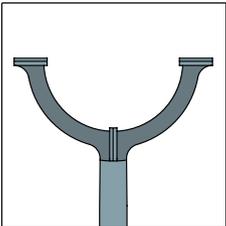
Toric Reference Markers

The Cionni Toric Reference Marker is used to mark the horizontal and vertical reference meridians. It is imperative to identify these meridians because they will be used to further identify the desired meridians for the incision and IOL alignment. The reference marks should be identified with the patient in an upright position as the eye typically rotates when the patient is supine. After applying a drop of topical anaesthetic, the marker's dull "blades" are coated with a marking pen. With the patient looking straight ahead, the marker is held so that the horizontal blades are aligned with the patient's 0 and 180 meridians. The marker is moved forward towards the eye so that the three blades touch the limbus at 0, 90 and 180 degrees.

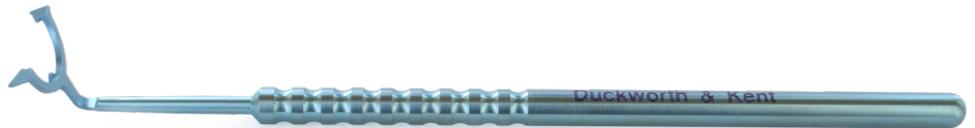


9-840

Cionni Toric Reference Marker



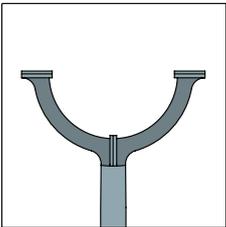
- 3 blades, radial marks
- 10mm inside diameter, 15mm outside diameter



- 70° angled shaft
- Round handle, length 124mm

9-840-1

Cionni Toric Reference Marker for small eyes



- 3 blades, radial marks
- 8.5mm inside diameter, 12.75mm outside diameter

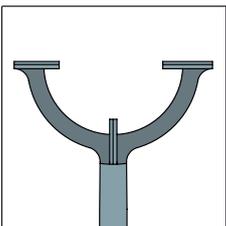


- 70° angled shaft
- Short round handle, length 98mm

The Cionni Toric Reference Marker for small eyes marks from the 8.5mm diameter going out to 12.75mm diameter. The marker is used to mark the horizontal and vertical reference meridians pre-opp with the patient in an upright position as the eye typically rotates when the patient is supine. These meridians will be used to identify the desired meridians for the incision and IOL alignment.

9-840-2

Barrett-Cionni Toric Reference Marker

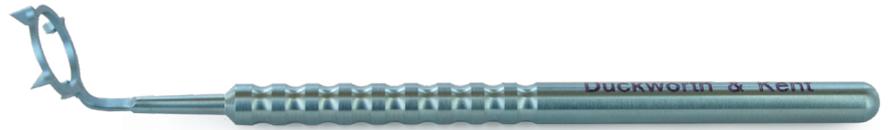
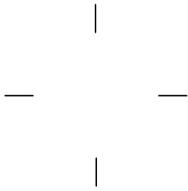
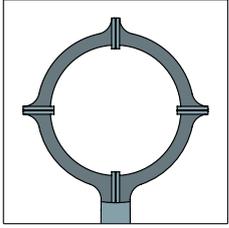


- 3 blades, radial marks
- 8mm inside diameter, 15mm outside diameter



- 70° angled shaft
- Round handle, length 124mm

9-840-3 Four Blade Toric Reference Marker



- 4 blades, radial marks
- 8.5mm inside diameter, 12.75mm outside diameter
- 70° angled shaft
- Short round handle, length 100mm

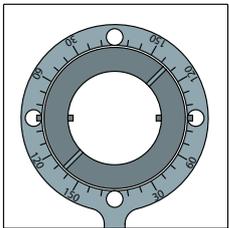
The Four Blade Toric Reference Marker marks from the 8.5mm diameter going out to 12.75mm diameter. The marker is used to mark the horizontal and vertical reference meridians pre-opp with the patient in an upright position as the eye typically rotates when the patient is supine. These meridians will be used to identify the desired meridians for the incision and IOL alignment.

Cionni Toric Axis Markers

Marking the incisional and desired axis of IOL alignment can be accomplished using the Cionni Toric Axis Marker (ref:9-841). The line on the top portion of the marker is rotated to set the blades to the desired meridian for the incision or IOL axis. The two blades on the underside of the Axis Marker are then coated with a marking pen and the limbus dried with a sponge. The Axis Marker is then positioned over the eye, lining up the holes at the horizontal and vertical meridians with the previously made limbal reference marks. The Axis Marker is then lowered to touch the eye so that the blades make the desired marks on the limbus. The Cionni Axis Marker 9-841 creates marks at the limbus away from the marks of the IOL. Only one instrument is required to align and create the marks. The maximum diameter of the head of the gauge is 18mm.

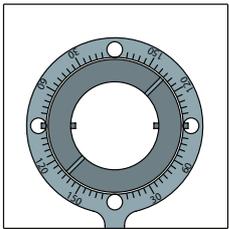


9-841 Cionni Toric Axis Marker



- 2 rotating blades, radial marks
- 11mm inside diameter, 15mm outside diameter
- Marks 0° to 180° in 10° increments
- 40° angled shaft
- Flat handle, length 116mm

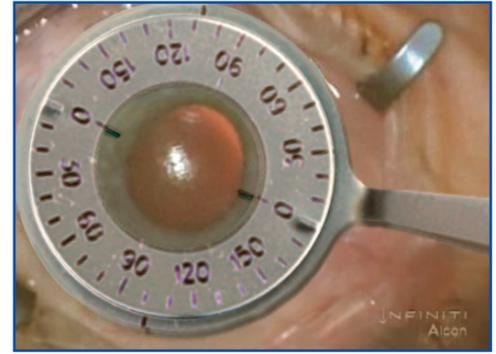
9-841-1 Cionni Toric Axis Marker for small eyes



- 2 rotating blades, radial marks
- 9.35mm inside diameter, 12.75mm outside diameter
- Marks 0° to 180° in 5° increments
- External gauge diameter 16mm
- 40° angled shaft
- Flat handle, length 116mm

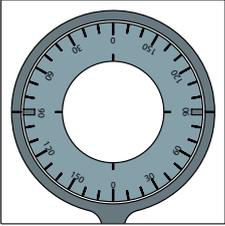
Barrett Toric Axis Marker

Designed for surgeons familiar with placing a 2 blade axis markers inside a Mendez gauge. The 2 blades on the Barrett Toric Marker are fixed and the degree gauge scale rotates, so the surgeon relates the blade orientation to the handle. First, the degree gauge is rotated, lining up the desired meridian for the IOL axis to the lines on the edge of the marker. The two blades on the underside of the Axis Marker are then coated with a marking pen and the limbus dried with a sponge. The Axis Marker is then positioned over the eye, rotating the handle to line up the lines at 0 degrees on the degree gauge with the horizontal meridians previously made by the reference marker. The Axis Marker is then lowered to touch the eye so that the blades make the desired marks on the limbus.



9-841-2

Barrett Toric Axis Marker

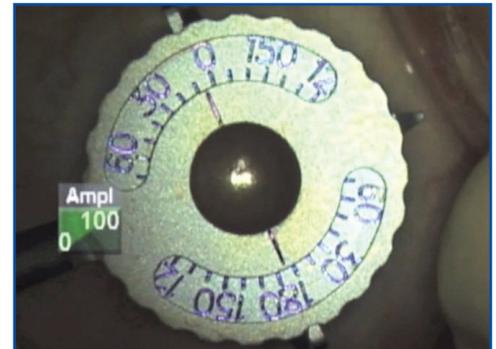


- 2 fixed blades, orientated 90° to handle
- 11mm inside diameter, 15mm outside diameter
- Rotating dial marks 0° to 180° in 10° increments

- External gauge diameter 18mm
- 40° angled shaft
- Flat handle, length 116mm

R J Mackool™ Toric Axis Marker

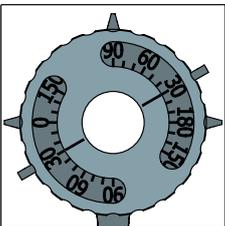
The R J Mackool™ Toric Axis Marker features an easier to operate pre-settable dial. This permits the technician, operating room nurse or surgeon to precisely set the instrument dial within seconds, as opposed to the cumbersome alternative of turning the instrument over to view the marking blades on the bottom of the instrument, while simultaneously attempting to grasp and align them with the gauge on the top of the instrument. A unique blade design retains dye, permitting the cornea to be marked with the lightest of touch, and all blades extend 1 mm from the diminutive dial where they are easily observed during the corneal marking. The rounded edges of the marking blades prevent abrasion to the cornea during the marking manoeuvre, and their extension well beyond the diminutive central portion of the marker permits the surgeon to see the blades as they are placed at the preselected meridian.



9-841-3

R J Mackool™ Toric Axis Marker

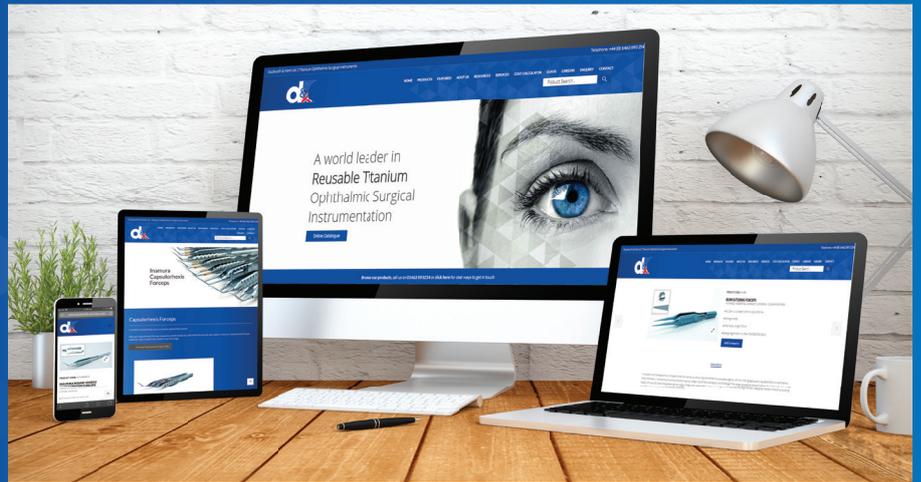
US Patent No. 9,011,470



- 2 rotating blades, radial marks
- 9mm inside diameter, 12.8mm outside diameter
- Marks 0° to 180° in 10° increments

- 3 non-marking reference blades
- 45° angled shaft
- Round handle, length 127mm

For more information
please contact us via our
online enquiry form

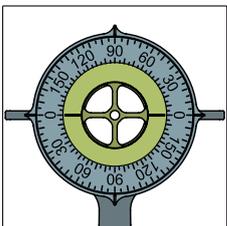


Barrett Dual Axis Toric Marker & toriCAM® app

The dual marker allows for compensation and marking of the 'true' horizontal, as determined by the toriCAM® app. The app provides an accurate reference for toric IOL implantation and orientation. The marker has two dials, an outer to align with the reference axis provided by the app and an inner connected to the marking blades on the underside to mark the recommended toric axis provided by the Toric Calculator. The outer dial is designed to compensate for any inaccuracies in the horizontal axis marks made on the eye. At each 90 degree point on the dial there are pointers on the outer edge which are aligned with the horizontal corneal limbal marks indicating the estimated horizontal axis. The toriCAM® app, available from the app store on itunes, enables the measurement of the angle of the horizontal axis marks made on the eye. The app will then determine and display the actual angle of the marked reference axis and the data will be saved and displayed on the phone with the patient's name and date. The outer dial is then set to this angle to compensate for any inaccuracy of the marks made on the eye. The inner dial is set to the axis required for the correct alignment of the toric lens and the marker is then used to mark the cornea with the correct axis to implant and align a toric lens.



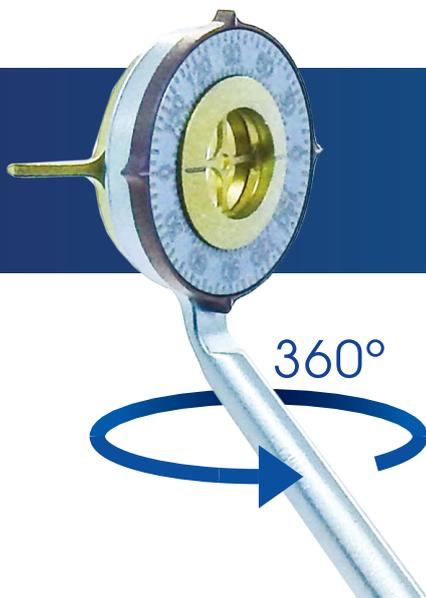
9-841-4 Barrett Dual Axis Toric Marker



- Two dials, one outer and one inner
- Two marking blades
- Marks 0° to 180° in 5° increments



- 45° angled shaft
- Round handle, length 125mm

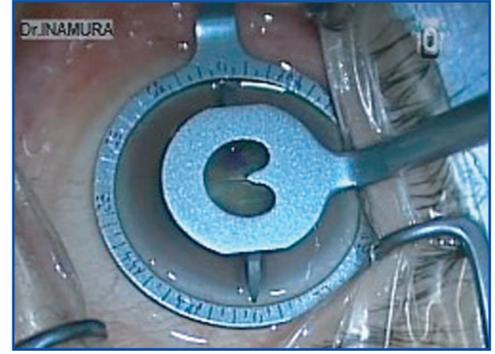


Scan the QR code to view our 360° Interactive images of our Toric Markers or visit www.duckworth-and-kent.com/products



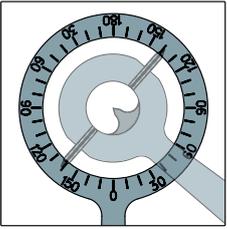
Mendez Degree Gauge & Axis Marker

The two blades on the Axis Marker are coated with a marking pen. The Mendez Degree Gauge is aligned with the patient's meridians at 0°, 90° and 180° and placed on the eye. The Axis Marker is then lined up using the Mendez Degree Gauge with the desired meridian for the incision or IOL axis. The Axis Marker is then lowered to touch the eye so that the blades make the desired marks. The ends of the blades come to a point at the tip allowing accurate alignment with Mendez Degree Gauge. The Axis Marker 9-729-1 and Mendez Gauge used together create marks on the cornea which easily align with IOL marks. The Mendez Gauge has marks every 5 degrees and has a maximum diameter of 14mm.

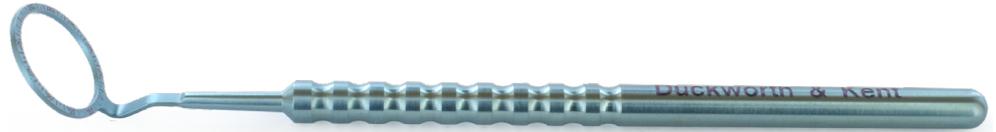


9-705R-1

Mendez Degree Gauge



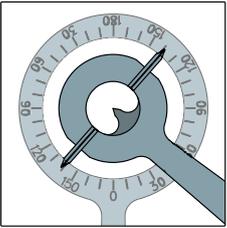
- Marks 0° - 180° in 5° increments x 2
- 12mm internal ring diameter
- 14mm external diameter



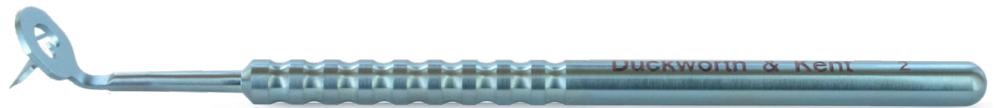
- 60° angled handle
- Round handle, length 103mm

9-729-1

Axis Marker



- 2 axial blades
- 4mm inside diameter, 11.6mm outside diameter



- Lowest profile with centre pointer
- Round handle, length 95mm

Cost Calculator

www.duckworth-and-kent.com/costcalculator

When compared with single-use alternatives, Duckworth & Kent instruments are not only more cost-beneficial long term, but have a lower impact on the environment.

See how much you can save by investing in our innovative precision engineered reusable titanium product range.

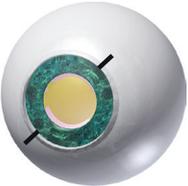
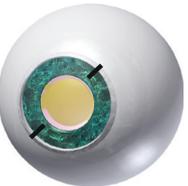
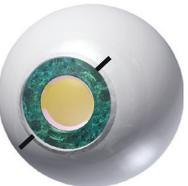
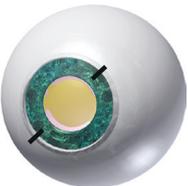


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Cost Effective & Precision Engineered Reusable Titanium Instruments

Comparison Table

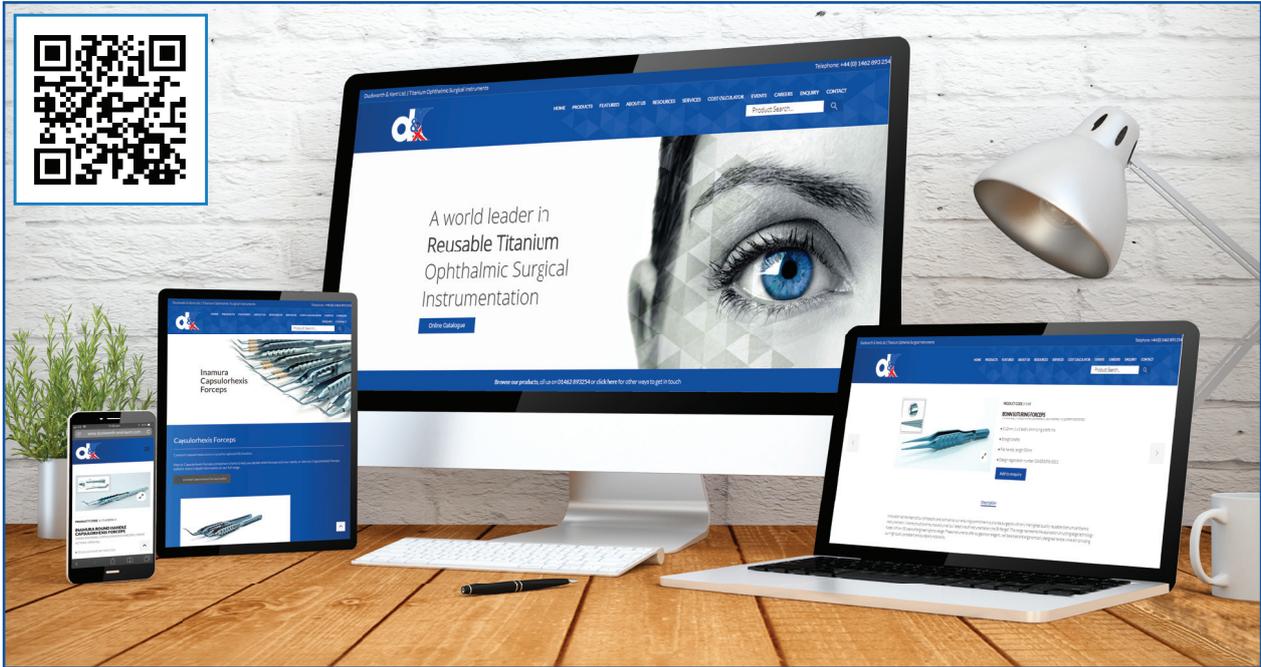
Toric Axis Marker	Marks Created	Description	Recommended Marker
 9-729-1 9-705R-1		Axis Marker, 9-729-1, and Mendez Gauge, 9-705R-1 - Suitable for restricted eyes, gauge diameter 14mm - Degree Gauge marks every 5 degrees - Marks on cornea	9-840-1 
 9-841		Cionni Toric Axis Marker, 9-841 - Single Handed Instrument - Gauge diameter 18mm - 2 blades rotate within the degree gauge - Easy to use, marks every 10 degrees - Marks at the limbus	9-840 
 9-841-1		Cionni Toric Axis Marker for small eyes, 9-841-1 - Single Handed Instrument - Gauge diameter 16mm, suitable for small eyes - 2 blades rotate within the degree gauge - Easy to use, marks every 5 degrees - Marks at the limbus	9-840-1 
 9-841-2		Barrett Toric Axis Marker, 9-841-2 - Single Handed Instrument - Gauge diameter 18mm - Degree gauge scale rotates, blades are fixed to handle - For surgeons familiar with 2 blade axis marker & Mendez gauge - Easy to use, marks every 10 degrees - Marks at the limbus	9-840-2 
 9-841-3		R J Mackool™ Toric Axis Marker, 9-841-3 - 2 rotating blades - 9.0mm inside diameter, 12.8mm outside diameter - Marks 0° to 180° in 10° increments - 3 non-marking reference blades - 45° angled shaft - Round handle, length 127mm	9-840-1 
 9-841-4		Barrett Dual Axis Toric Marker, 9-841-4 - Two dials, one outer and one inner - Two marking blades - Marks 0° to 180° in 5° increments - 45° angled shaft - Round handle, length 125mm	9-840-2 

Barrett Dual Axis Toric Marker App
 Available on the iPhone
App Store

The marker has two dials, an outer to align with the reference axis provided by the app and an inner connected to the marking blades on the underside to mark the recommended toric axis provided by the Toric Calculator.



Visit : www.duckworth-and-kent.com to view a wide range of ophthalmic titanium instruments



As well as product information for a wide range of instruments, you will also find detailed literature and informative videos showing some of our instruments in action.

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CATARACT SET

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mariagente@
kellyobrien@
nickyguthrie@ } duckworth-and-kent.co.uk

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Email: info@duckworth-and-kent.co.uk

Tel: +44 (0)1462 893254

Fax: +44 (0)1462 896288

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