



FERRARA RING™

Intrastromal Ferrara Ring

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| <i>Brand name</i> | FERRARA RING™ |
| <i>Reference</i> | AFR/FR (5 mm optical zone) and AFR6/FR6 (6 mm optical zone). |
| <i>Definition</i> | Intrastromal Corneal Implants. |
| <i>Arc</i> | 90°, 100°, 110°, 120°, 130°, 140°, 150°, 160°, 170°, 180°, 190°, 200°, 210°, 300°, 320°, 340° |
| <i>Thickness</i> | 0.15, 0.20, 0.25, 0.30, 0.35 mm |
| <i>Indications</i> | <p>The correct indication of Ferrara Ring implants requires a detailed evaluation of the topographic conditions and pachymetry of the cornea, in addition to a complete visual examination.</p> <ul style="list-style-type: none"> • Progressive keratoconus. • Keratoconus with intolerance to contact lenses. • Corneal deformity induced by contact lenses (Harstein's syndrome). • Post-penetrating keratoplasty astigmatism. • Post-Lasik corneal ectasias. • Post-radial keratotomy astigmatism. • Pellucid marginal degeneration. |
| <i>Product description</i> | <p>The FERRARA RING™ consists of a semicircular segment with an arc of multiple lengths and a fixed triangular section: AFR (0.60 mm base) and AFR6 (0.80 mm base).</p> <p>Single use implant. Each segment has a 0.20 mm hole in their apex, to facilitate its implantation.</p> |
| <i>Material</i> | Polymethyl Methacrylate (PMMA) with natural blue light filter. |
| <i>Sterilization method</i> | Ethylene Oxide (ETO). |
| <i>Supply</i> | Individual sterile segment, not pyrogenic |
| <i>Shelf-life</i> | 4.5 years |

REFERENCE TABLE FOR ORDERS



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| <i>Optical zone</i> | AFR= 5 mm optical zone | Reference: AFRXXYYY XX= Ring thickness AFR6XXYYY YYY= Ring arc length |
| | AFR6= 6 mm optical zone | |
| <i>Thickness</i> | 0.15 mm, 0.20 mm, 0.25 mm, 0.30 mm, 0.35 mm. | Example: AFR15160: AFR620150: 5 mm optical zone 6 mm optical zone Thickness 0.15 mm Thickness 0.20 mm Arc 160° Arc 150° |
| <i>Arc length</i> | 90°, 100°, 110°, 120°, 130°, 140°, 150°, 160°, 170°, 180°, 190°, 200°, 210°, 300°, 320°, 340°. | |

CE 0318



V-04-01-AAB-IMP REV.00

For FERRARA RING™ use only (Optical Zone 5.0mm BASE 600µm and 6.0mm BASE 800µm)

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| <i>Reference</i> | AJL-TKR111* | AJL-TKR110* | AJL-TKR105* | AJL-TKR101* | AJL-TKR102* | AJL-TKR102.01* |
| <i>Instrument</i> | Kremer Fixation Forceps. | McPherson Modified Short. | Double Sinsky Hook. | Mendez transfer. | Double optical marker 5 mm. | Double optical marker 6 mm. |
| <i>Indications</i> | Eye fixation during incision. | Ferrara Ring introduction into the tunnel. | Visual axis mark with outer tip. Insertion/extraction of Ferrara Ring from the tunnel. | Axes visualization on the cornea. | Incision and Ferrara Ring track marking. | |




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| <i>Reference</i> | DK-5-330-1* | AJL-TKR104* | AJL-TKR103* | AJL-TKR113* |
| <i>Instrument</i> | Diamond Knife. | Predelaminator. | Suarez Spreader. | Bicalho Guide. |
| <i>Indications</i> | Incision (square shape). | Incision opening, corneal pocket start. | Corneal pocket execution, tunnel start. | Spatulas insertion guide. |


Manual procedure

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| <i>Reference</i> | AJL-TKR107* | AJL-TKR109* | AJL-TKR106* | AJL-TKR108* |
| <i>Instrument</i> | Spatula left 5 mm. (CCW) | Spatula left 6 mm. (CCW) | Spatula right 5 mm. (CW) | Spatula right 6 mm. (CW) |
| <i>Indications</i> | Also known as Corneal Dissectors. Creates a CW and CCW annular subsurface tunnel for Ferrara placement. | | | |

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| 6120A* |
| Ferrara Sterilization Plastic Tray. |
| Maintenance and sterilization of the instruments. |

Procedure with Vacuum Pump

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| <i>Reference</i> | KV2000* | 7K5000* | KV10478-2* |
| <i>Instrument</i> | Vacuum pump. | Tubing set. | Suction ring. |
| <i>Indications</i> | A medical device designed to set the eyeball and facilitate the creation of corneal tunnels during intracorneal ring implantation surgery. | Connector between pump and suction ring. It is necessary for the system to work. The flow is controlled by the vacuum pump, which monitors the pressure. | Port for attachment to a vacuum source. Centers and stabilizes the Corneal Separators onto the cornea during the dissection of the intrastromal tunnels. |

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| <i>Reference</i> | AJLF50L | AJLF60L | AJLF50R | AJLF60R | AT11211* | AJLFT5 | AJLFT6 |
| <i>Instrument</i> | Spatula left 5 mm. (CCW) | Spatula left 6 mm. (CCW) | Spatula right 5 mm. (CW) | Spatula right 6 mm. (CW) | Suction ring aligner | Inspection Gauge, of corneal spatula. | |
| <i>Indications</i> | Also known as Corneal Dissectors. Creates a CW and CCW annular subsurface tunnel for Ferrara placement. | | | | Suction ring aligner with the visual axis work, previously done at the start of the procedure. | Inspects the concentricity and planarity of the Corneal Separator blades. | |

* The set is common for both 5mm and 6mm optical zones except these items.

REV: 01.10/2019