Perfectly shaped laryngoscopes with persuasive advantages.
Contents

Introduction laryngoscopes 03

F.O. laryngoscopes 04

ri-integral 04-05
- ri-integral Macintosh F.O. blade
- ri-integral flex Macintosh F.O. blade
- ri-integral Miller F.O. blade

ri-modul 05-06
- ri-modul Macintosh F.O. blade
- ri-modul Miller F.O. blade

Accessories
Light conductor

Standard laryngoscopes 06

ri-standard 06-07
- ri-standard Macintosh blade
- ri-standard Miller blade

Lamps 07

Power sources 08

Handles 08-09

Charging bases 09

Cases 09/11

Sets 10-11
Laryngoscopes

Riester laryngoscopes are reliable quality products. They are excellently finished and guarantee extreme durability. All handles and blades are made of high quality materials and are subjected to strict quality controls. The Riester program comprises all conventional laryngoscope models with excellent XL 3.5 V or 2.5 V xenon illumination and fiber optics or with tried and tested 2.7 V vacuum illumination.

- Exceptionally high light intensity thanks to XL xenon illumination technology and the extra-strong fiber bundles of the F.O. blade.
- Macintosh and Miller blades with innovative blade design for optimum visibility of the epiglottis and vocal chords, simple insertion of the endotracheal tube.
- Large choice of power sources:
  - manoeuvrable and sturdy battery handles and
  - practical charging bases.
- Wide selection of laryngoscope sets for paediatrics and adults with particularly convincing cost effectiveness.

All handles and blades are supplied singly and each can be individually combined within the fiber optics or standard model ranges.

Riester XL sheds light on your examination!

The convincing result of intensive research and development work: clearly visible increase in brightness values when using the XL illumination technology and high quality F.O.

Test results* prove the excellent light intensity and durability of Riester F.O. blades and their suitability for long-term continuous use.

*Test results after 1200 autoclaving cycles (134°C for 5 minutes with the Melag Vacuklav 3T). Measurements were performed using a 2.5 V XL Xenon lamp at constant light output at a distance of 40 mm from the distal end of the blade (size 3).
F.O. laryngoscopes

Riester F.O. laryngoscopes pave the way for the future. XL illumination technology, high-quality fiber optics and special blade design ensure optimum visibility and simple intubation.

- With XL 3.5 V or 2.5 V xenon lamp for bright, white light.
- Lamp integrated into the handle with metal contacts simplifies autoclaving of the blades.
- Optimum light transmission thanks to fiber optics, with extra-strong fiber bundles.
- Long service life with autoclaving cycles of 134° C for 5 minutes.
- Stainless steel blades with refined surface finish, easy-to-clean blade surface.

ri-integral

- With integrated F.O. light conductor. Particularly easy to clean, as there are no external conductors and openings to become contaminated!
- Outstanding light intensity through XL xenon illumination and strong fiber bundles.
- Blade design for simple intubation.

ri-integral Macintosh F.O. blade

- Special blade designs offer excellent visibility of the vocal chords and epiglottis and simplify insertion of the endotracheal tube.
- Choice of charging handles or battery handles type AA or type C for charging in the charging base ri-charger® or non-rechargeable.
- All blades are compatible with handles complying with ISO 7376.
- Hard and soft cases are available for individual combinations of up to five blades and one handle.
- Testing of the suitability for autoclaving was performed with the Melag Vacuklav 31.

### Blade length a Blade length b Width at the distal end Order numbers
<table>
<thead>
<tr>
<th>Blade</th>
<th>Length a</th>
<th>Length b</th>
<th>Width</th>
<th>Order number</th>
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</thead>
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<td>9 mm</td>
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<td>No. 12232</td>
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<tr>
<td>MAC 3</td>
<td>135 mm</td>
<td>114 mm</td>
<td>14.5 mm</td>
<td>No. 12233</td>
</tr>
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<td>132 mm</td>
<td>14.5 mm</td>
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<td>MAC 5</td>
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<td>14.5 mm</td>
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</table>

ri-integral flex Macintosh F.O. blade

- Flexible blade with integrated F.O. light conductor.
- With bendable distal end.
- Outstanding light intensity with XL xenon illumination. Improved light transmission through extra-strong fiber bundles.
- New blade design for simple intubation: good visibility of the inlet of the larynx and vocal chords, reduced pressure in the pharyngeal area, minimised risk of injury.
- Available either in sizes 3 or 4.

### Blade length a Blade length b Width at the distal end Order numbers
<table>
<thead>
<tr>
<th>Blade</th>
<th>Length a</th>
<th>Length b</th>
<th>Width</th>
<th>Order number</th>
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</table>
ri-integral Miller F.O. blade

- The flat design of the F.O. blade improves visibility considerably and simplifies intubation.
- Atraumatic blade design.
- Blade size 00 for neonates.

<table>
<thead>
<tr>
<th>Blade length a</th>
<th>Blade length b</th>
<th>Width at the distal end</th>
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<tr>
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<td>MIL 5</td>
<td>255 mm</td>
<td>224 mm</td>
<td>15.5 mm</td>
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</table>

ri-modul Macintosh F.O. blade

- Macintosh F.O. blade with removable light conductor, simple to remove and refit without tools.
- Reasonably priced alternative thanks to modular construction.
- Unusually high light intensity with XL xenon illumination and excellent light transmission through strong fiber bundles.
- Optimum blade design for easy intubation and improved visibility.

<table>
<thead>
<tr>
<th>Blade length a</th>
<th>Blade length b</th>
<th>Width at the distal end</th>
<th>Order numbers</th>
</tr>
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<tbody>
<tr>
<td>MAC 0</td>
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<td>58 mm</td>
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<td>9 mm</td>
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<tr>
<td>MAC 2</td>
<td>116 mm</td>
<td>93 mm</td>
<td>13 mm</td>
</tr>
<tr>
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<td>133 mm</td>
<td>110 mm</td>
<td>14.5 mm</td>
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<tr>
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<tr>
<td>MAC 5</td>
<td>170 mm</td>
<td>150 mm</td>
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</table>
Standard laryngoscopes

The quality laryngoscopes with vacuum illumination convince through their interesting cost effectiveness due to an almost unlimited service life. Well thought-out design guarantees simple handling in daily use.

- With reliable 2.7 V vacuum light source for good illumination of the examination area.
- Quick-to-remove lamp at the front of the blade.
- Can be autoclaved at 134°C for 5 minutes.*
- Stainless steel blades with easy-to-clean blade surface.
- Innovative blade design for simple intubation and good visibility.
- Either for chargeable handles or battery handles type AA or type C for charging in the ri-charger® charging base or non-rechargeable.
- All blades are compatible with handles complying with ISO 7376.
- Hard and soft cases are available for individual combinations of up to five blades and one handle.

* Testing of the suitability for autoclaving was performed with the Melag Vacuklav 31.

<table>
<thead>
<tr>
<th>Blade length a</th>
<th>Blade length b</th>
<th>Width at the distal end</th>
<th>Order numbers</th>
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<td>205 mm</td>
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Accessories

Light conductor for ri-modul Macintosh F.O. blades
- Secure fitting and removal with ball mechanism.

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<td>No. 12269</td>
</tr>
<tr>
<td>MAC 5</td>
<td>No. 12273</td>
</tr>
</tbody>
</table>

Light conductor for ri-modul Miller F.O. blades
- Secure fitting and removal with ball mechanism.

<table>
<thead>
<tr>
<th>Light conductor</th>
<th>Order numbers</th>
</tr>
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<tbody>
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<td>MIL 2</td>
<td>No. 12283</td>
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<td>MIL 4</td>
<td>No. 12285</td>
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</table>
ri-standard Macintosh blade

• The rounded edges of the Macintosh blade reduce the risk of injury.

<table>
<thead>
<tr>
<th>Blade length a</th>
<th>Blade length b</th>
<th>Width at the distal end</th>
<th>Order numbers</th>
</tr>
</thead>
<tbody>
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<td>MAC 4</td>
<td>155 mm</td>
<td>132 mm</td>
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ri-standard Miller blade

• The flat design of the Miller blade provides good visibility of the epiglottis and vocal chords.
• Blade size 00 for neonates.

<table>
<thead>
<tr>
<th>Blade length a</th>
<th>Blade length b</th>
<th>Width at the distal end</th>
<th>Order numbers</th>
</tr>
</thead>
<tbody>
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<td>MIL 4</td>
<td>195 mm</td>
<td>173 mm</td>
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Lamps

XL 2.5 V xenon lamp
for F.O. laryngoscopes XL 2.5 V
Pack of 6
No. 11428

XL 3.5 V xenon lamp
for F.O. laryngoscopes XL 3.5 V
Pack of 6
No. 11429

2.7 V vacuum lamp, small
for standard laryngoscopes ri-standard Miller
No. 00 to 1
Pack of 6
No. 11380

2.7 V vacuum lamp, large
for standard laryngoscopes ri-standard Miller
No. 2 to 4, Macintosh No. 0 to 4
Pack of 6
No. 11381

* All lamps are shown in the original size.
Power sources

A large number of high quality and durable power sources are available for Riester quality laryngoscopes. From sturdy handles to reliable charging bases.

Handles

The sturdy handles are the basis of every reliable examination. Well thought-out ergonomics ensures comfortable handling.

- Solid handles made of chromium plated metal.
- Fluted handle surface for hygienic usage and a secure grip in the hand.
- Practically wear-free, standard holding fixture for the blade.
- Solid metal contact for reliable activation of illumination.
- Simple change of batteries at the base of the handle.
- Choice of battery handles available for charging in the ri-charger® charging base or non-rechargeable handles in the sizes type AA or type C, respectively.

All Riester laryngoscope handles are standardized according to ISO 7376.

Battery handles type C
for charging in the ri-charger® charging base

- For two batteries type C or a ri-accu® rechargeable NiMH battery.
- Simple recharging in the ri-charger® charging base.
- Handle diameter: 28 mm.
- Handles for F.O. laryngoscopes including lamp.
- ri-accu® rechargeable NiMH battery, not included.

Battery handles type C
non-rechargeable

- For two batteries type C.
- Handle diameter: 28 mm.
- Closed battery cover prevents liquids penetrating inside the battery compartment.
- Simple conversion to a charging handle by means of the open charging cover.
- Handles for F.O. laryngoscopes are supplied including the lamp.
- Without batteries.

Alkaline battery 1.5 V, type C
No. 10686

Accessories

Charging cover type C, open

- For simple conversion to a rechargeable battery handle.
- With screw thread.

No. 12270

If the handle is equipped with the open charging cover, it can be recharged in conjunction with ri-accu® in the ri-charger® charging base.
Battery handles type AA
for charging in the ri-charger® charging base
- For two batteries type AA or a ri-accu® rechargeable NiMH battery.
- Simple charging in the ri-charger® charging base.
- Handle diameter: 19 mm.
- Handles for F.O. laryngoscopes including lamp.
- ri-accu® rechargeable NiMH without battery.

for F.O. laryngoscopes
No. 12302 XL 2.5 V
for standard laryngoscopes
No. 12304

For two batteries type AA or a ri-accu® rechargeable NiMH battery.

Short battery handles and battery handles type AA, non-rechargeable
- For two batteries type AA.
- Handle diameters: Type AA: 19 mm, short handle: 32 mm.
- Closed battery compartment cover prevents liquid penetrating.
- Simple conversion from handle type AA to a charging handle by means of the open charging cover. No conversion possible from a short handle to a charging handle.
- Handles for F.O. laryngoscopes including lamp.
- Without batteries.

for F.O. laryngoscopes
Type AA
No. 12306 XL 2.5 V
Short handle
No. 12309
for standard laryngoscopes
Type AA
No. 12308
Short handle
No. 12310

Alkaline battery 1.5 V, type AA, Pack of 4
No. 10685

Charging cover type AA, open
- For simple conversion to a rechargeable battery handle.
- With screw thread.

By means of the open charging cover and the reduction insert, the handle can be charged in the ri-charger® charging base.

The ri-charger® with impulse charging technology prolongs the service life of the ri-accu® rechargeable NiMH battery. Battery handles type AA can be charged with the reduction insert. After each use, instruments are replaced on the charging base so that they remain operational at all times.

If different voltages or country-specific plugs are needed with the standard models, we request you to give us exact details with your enquiries and orders.

Charging bases

The ri-charger® with impulse charging technology prolongs the service life of the ri-accu® rechargeable NiMH battery. Battery handles type AA can be charged with the reduction insert. After each use, instruments are replaced on the charging base so that they remain operational at all times.

If different voltages or country-specific plugs are needed with the standard models, we request you to give us exact details with your enquiries and orders.

Accessories

Charging bases

ri-charger® complete, with wall mounting
- For all rechargeable handles 2.5 V and 3.5 V.

No. 10700 230 V
No. 10701 120 V

Wall mounting
- with screws and plugs
No. 10710

Reduction insert
- for handles AA
No. 10711

Cover
- for ear specula compartment
No. 10712

Cases

Laryngoscope case
- Case for individual blade and handle combinations.
- Individual equipping with up to five blades and one handle.

No. 11389 black
Riester offers a large selection of laryngoscope sets at attractive prices. The sets are equipped with various handles and can be optionally ordered in combination with the ri-charger® charging base.

- F.O. laryngoscope sets are equipped with XL xenon lamps 3.5 V or 2.5 V, standard sets with 2.7 V vacuum lamps.
- The charging handles are charged in the ri-charger® charging device and are equipped with a ri-accu® rechargeable NiMH battery. The non-rechargeable battery handles have a closed battery compartment and are supplied without batteries.
- Supplied in a hard protective case with safety catches.
- Case for individual combinations of up to five blades and one handle, see pages 9 and 11.

### F.O. laryngoscopes

<table>
<thead>
<tr>
<th>Sets</th>
<th>ri-integral Macintosh F.O.</th>
<th>ri-integral Macintosh F.O. baby</th>
<th>ri-integral Miller F.O.</th>
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<td>With blades No. 0, 1 and 2</td>
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<th>ri-modul Macintosh F.O. baby</th>
<th>ri-modul Miller F.O.</th>
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</thead>
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<td>With blades No. 0, 1 and 2</td>
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**ri-integral Miller F.O. baby**
With blades No. 0, 1 and 2.

**ri-standard Miller**
With blades No. 2, 3 and 4.

**ri-standard Macintosh**
With blades No. 0, 1 and 2.

**ri-standard Macintosh baby**
With blades No. 0, 1 and 2.

**ri-standard Miller baby**
With blades No. 0, 1 and 2.

**ri-modul Miller F.O. baby**
With blades No. 0, 1 and 2.
Riester offers a large selection of products in the areas of
Blood pressure measuring devices I Instruments for ENT, Ophthalmological instruments I Dermatological instruments I Thermometers I Stethoscopes I Head mirrors, Head lights, Examination lights I Laryngoscopes I Gynaecological instruments I Percussion hammers I Tuning forks I Products for blood stasis I Pulmonary pressure measuring devices I Dynamometers I Pressure infusion instruments I Veterinary instruments I Doctor's cases and bags

Detailed descriptions of the products can be found in the respective sections of the omnibus edition catalogue (Order No. 51232-50). Or online under www.riester.de.