We see things from your perspective

Rüsch®
Single-Use Laryngoscope Portfolio
Sheridan®

Working together to advance anesthesia practice

With its rich heritage of research and innovation, Teleflex is dedicated to advancing anesthesia practice through the continuous improvement of airway management technology.

A diverse portfolio of trusted airway management brands

Every 3 seconds an LMA® Airway is used somewhere in the world*

> 25m

427 patents held for airway devices

> 12,000 clinicians trained in Teleflex procedural labs each year

125 year history of producing German-quality anesthesia and respiratory medical devices

> 12,000 clinicians trained in Teleflex procedural labs every year

Teleflex products used during intubations each year*

Learn more about our broad range of single-use laryngoscopes

*Data on file
Bright light when you need it most

Reliable visualization is critical for successful intubation

Reliable visualization of the vocal cords is a critical requirement for successful intubation. Laryngoscopes with poor light intensity have the potential to negatively impact vocal cord visualization; therefore, the International Organization for Standardization (ISO) recommends a minimum light intensity of 500 lux for intubation (ISO 7376:2009). 1

Research shows the light intensity from many reusable laryngoscope blades is substandard, and may be associated with more poor grade laryngeal views and more failed first intubation attempts compared with single-use blades. 2,3 Repeated reprocessing of reusable fiber optic laryngoscope blades is a contributory factor to poor illumination, with research showing that light intensity can degrade by 34-50% over time. 2,3

~1/3 of reusable laryngoscopes tested in clinical studies exhibited substandard illuminance. 4

34-50% degradation in light intensity occurs over time due to repeated reprocessing of reusable fiber optic laryngoscope blades. 1,3

2.5 A 2.5-fold greater mean light intensity can be achieved with LED light sources versus incandescent bulbs. 7

Not all light is equal

The Rüsch® Single-Use Laryngoscope portfolio features the latest advances in laryngoscope blade illumination technology, designed to provide reliable visualization when you need it most.

Blue-white LED light source

Rüsch® Standard Single-Use Laryngoscope Blades and Rüsch® Fiber Optic Single-Use Handles incorporate a bright blue-white, integrated LED light source, which provides uniform light to minimize shadowing and aid tissue differentiation. Laryngoscopes with LED light sources frequently outperform laryngoscopes with incandescent bulbs, with up to a 2.5 times greater mean illumination. 7

Light source integrated at the blade tip

The LED-in-blade design of Rüsch® Standard Single-Use Laryngoscope Blades is the latest innovation in laryngoscope blade illumination, providing blue-white, LED illumination that is close to source for a high-quality laryngeal view, but remains cool as compared to incandescent bulbs.

Focused fiber optic light transmission

Rüsch® Fiber Optic Single-Use Laryngoscope Blades deliver focused fiber optic light transmission to minimize light scatter and aid visualization.

Rüsch® Single-Use Laryngoscopes: tried and trusted

Results of benchtop assessment of mean initial light output of leading manufacturers’ single-use laryngoscope systems (Figure 1): 1,5,6,7

- Rüsch® TruLite Secure™ Laryngoscope Blade and Handle and Rüsch® Polaris™ Single-Use Laryngoscope Blade + Rüsch® DispoLED® Laryngoscope Handle offer superior mean initial light output
- ~2.5-3 times brighter compared to the IntuBrite™ Dual LED
- ~5-6 times brighter compared to the Flexicare® BritePro™ Solo

Illuminance was evaluated in Mac 3 blades and handles using a light-proof container, laryngoscope positioning system, and spectrometer.

Figure 1. Mean Initial Light Output of Single-Use Laryngoscope Systems

![Figure 1. Mean Initial Light Output of Single-Use Laryngoscope Systems](image-url)

<table>
<thead>
<tr>
<th>System</th>
<th>Mean Initial Light Output (Lux)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rüsch® TruLite Secure™ Single-use Laryngoscope System</td>
<td>12,600</td>
</tr>
<tr>
<td>Rüsch® Polaris™ Single-use Laryngoscope Blade + Rüsch® DispoLED® Laryngoscope Handle</td>
<td>11,263</td>
</tr>
<tr>
<td>IntuBrite™ Dual LED</td>
<td>4,589</td>
</tr>
<tr>
<td>Flexicare® BritePro™ Solo</td>
<td>3,337</td>
</tr>
</tbody>
</table>
A changing perspective on single use

Currently, more than one third of all intubations in the U.S. are performed with a single-use laryngoscope blade. This number is set to rise as the market shifts towards a greater use of disposable devices. Single-use laryngoscope blades present several advantages over reusable blades, notably:

- a reduced risk of cross-contamination
- a reduction in reprocessing costs
- evidence of improved performance

The Rüsch® Single-use Laryngoscope portfolio has been designed with this in mind, and offers a broad range of standard and fibre optic blades and handles to meet diverse clinical requirements.

Concerns over inadequate reprocessing

Sub-optimal cleaning, disinfection, sterilization, and handling of reusable laryngoscope blades are factors associated with a potential risk of cross-contamination. Studies of reusable blades and handles considered ready for patient use have shown that:

- up to 77% of blades test positive for occult blood or residual proteins
- up to 86% of handles are contaminated with blood or micro-organisms despite low-level disinfection
- up to 93% of blades exhibit microbial contamination

Joint Commission recommendation:**

*Equipment used for intubation, such as laryngoscope blades, should be properly cleaned using the process for disinfection and sterilization of semi-critical items as designated by the Centers for Disease Control and Prevention (CDC) as “high-level” disinfection.*

Reasons to Use Rüsch® Single-Use Laryngoscopes

- a reduced risk of cross-contamination
- a reduction in reprocessing costs
- evidence of improved performance

The hidden costs of reprocessing

The costs associated with reusable laryngoscopes are not restricted to the initial capital purchase, but include reprocessing, maintenance, repair, and storage. Adopting a single-use solution, such as those in the Rüsch® Single-use Laryngoscope portfolio, avoids many of the costs and reliability issues attributed to repeat reprocessing.**

A changing perspective on single use

Currently, more than one third of all intubations in the U.S. are performed with a single-use laryngoscope blade. This number is set to rise as the market shifts towards a greater use of disposable devices. Single-use laryngoscope blades present several advantages over reusable blades, notably:

- a reduced risk of cross-contamination
- a reduction in reprocessing costs
- evidence of improved performance

The Rüsch® Single-use Laryngoscope portfolio has been designed with this in mind, and offers a broad range of standard and fibre optic blades and handles to meet diverse clinical requirements.

Concerns over inadequate reprocessing

Sub-optimal cleaning, disinfection, sterilization, and handling of reusable laryngoscope blades are factors associated with a potential risk of cross-contamination. Studies of reusable blades and handles considered ready for patient use have shown that:

- up to 77% of blades test positive for occult blood or residual proteins
- up to 86% of handles are contaminated with blood or micro-organisms despite low-level disinfection
- up to 93% of blades exhibit microbial contamination

Joint Commission recommendation:**

*Equipment used for intubation, such as laryngoscope blades, should be properly cleaned using the process for disinfection and sterilization of semi-critical items as designated by the Centers for Disease Control and Prevention (CDC) as “high-level” disinfection.*

Reasons to Use Rüsch® Single-Use Laryngoscopes

- a reduced risk of cross-contamination
- a reduction in reprocessing costs
- evidence of improved performance

The hidden costs of reprocessing

The costs associated with reusable laryngoscopes are not restricted to the initial capital purchase, but include reprocessing, maintenance, repair, and storage. Adopting a single-use solution, such as those in the Rüsch® Single-use Laryngoscope portfolio, avoids many of the costs and reliability issues attributed to repeat reprocessing.**

A changing perspective on single use

Currently, more than one third of all intubations in the U.S. are performed with a single-use laryngoscope blade. This number is set to rise as the market shifts towards a greater use of disposable devices. Single-use laryngoscope blades present several advantages over reusable blades, notably:

- a reduced risk of cross-contamination
- a reduction in reprocessing costs
- evidence of improved performance

The Rüsch® Single-use Laryngoscope portfolio has been designed with this in mind, and offers a broad range of standard and fibre optic blades and handles to meet diverse clinical requirements.

Concerns over inadequate reprocessing

Sub-optimal cleaning, disinfection, sterilization, and handling of reusable laryngoscope blades are factors associated with a potential risk of cross-contamination. Studies of reusable blades and handles considered ready for patient use have shown that:

- up to 77% of blades test positive for occult blood or residual proteins
- up to 86% of handles are contaminated with blood or micro-organisms despite low-level disinfection
- up to 93% of blades exhibit microbial contamination

Joint Commission recommendation:**

*Equipment used for intubation, such as laryngoscope blades, should be properly cleaned using the process for disinfection and sterilization of semi-critical items as designated by the Centers for Disease Control and Prevention (CDC) as “high-level” disinfection.*

Reasons to Use Rüsch® Single-Use Laryngoscopes

- a reduced risk of cross-contamination
- a reduction in reprocessing costs
- evidence of improved performance

The hidden costs of reprocessing

The costs associated with reusable laryngoscopes are not restricted to the initial capital purchase, but include reprocessing, maintenance, repair, and storage. Adopting a single-use solution, such as those in the Rüsch® Single-use Laryngoscope portfolio, avoids many of the costs and reliability issues attributed to repeat reprocessing.**

A changing perspective on single use

Currently, more than one third of all intubations in the U.S. are performed with a single-use laryngoscope blade. This number is set to rise as the market shifts towards a greater use of disposable devices. Single-use laryngoscope blades present several advantages over reusable blades, notably:

- a reduced risk of cross-contamination
- a reduction in reprocessing costs
- evidence of improved performance

The Rüsch® Single-use Laryngoscope portfolio has been designed with this in mind, and offers a broad range of standard and fibre optic blades and handles to meet diverse clinical requirements.

Concerns over inadequate reprocessing

Sub-optimal cleaning, disinfection, sterilization, and handling of reusable laryngoscope blades are factors associated with a potential risk of cross-contamination. Studies of reusable blades and handles considered ready for patient use have shown that:

- up to 77% of blades test positive for occult blood or residual proteins
- up to 86% of handles are contaminated with blood or micro-organisms despite low-level disinfection
- up to 93% of blades exhibit microbial contamination

Joint Commission recommendation:**

*Equipment used for intubation, such as laryngoscope blades, should be properly cleaned using the process for disinfection and sterilization of semi-critical items as designated by the Centers for Disease Control and Prevention (CDC) as “high-level” disinfection.*

Reasons to Use Rüsch® Single-Use Laryngoscopes

- a reduced risk of cross-contamination
- a reduction in reprocessing costs
- evidence of improved performance

The hidden costs of reprocessing

The costs associated with reusable laryngoscopes are not restricted to the initial capital purchase, but include reprocessing, maintenance, repair, and storage. Adopting a single-use solution, such as those in the Rüsch® Single-use Laryngoscope portfolio, avoids many of the costs and reliability issues attributed to repeat reprocessing.**

A changing perspective on single use

Currently, more than one third of all intubations in the U.S. are performed with a single-use laryngoscope blade. This number is set to rise as the market shifts towards a greater use of disposable devices. Single-use laryngoscope blades present several advantages over reusable blades, notably:

- a reduced risk of cross-contamination
- a reduction in reprocessing costs
- evidence of improved performance

The Rüsch® Single-use Laryngoscope portfolio has been designed with this in mind, and offers a broad range of standard and fibre optic blades and handles to meet diverse clinical requirements.

Concerns over inadequate reprocessing

Sub-optimal cleaning, disinfection, sterilization, and handling of reusable laryngoscope blades are factors associated with a potential risk of cross-contamination. Studies of reusable blades and handles considered ready for patient use have shown that:

- up to 77% of blades test positive for occult blood or residual proteins
- up to 86% of handles are contaminated with blood or micro-organisms despite low-level disinfection
- up to 93% of blades exhibit microbial contamination

Joint Commission recommendation:**

*Equipment used for intubation, such as laryngoscope blades, should be properly cleaned using the process for disinfection and sterilization of semi-critical items as designated by the Centers for Disease Control and Prevention (CDC) as “high-level” disinfection.*

Reasons to Use Rüsch® Single-Use Laryngoscopes

- a reduced risk of cross-contamination
- a reduction in reprocessing costs
- evidence of improved performance

The hidden costs of reprocessing

The costs associated with reusable laryngoscopes are not restricted to the initial capital purchase, but include reprocessing, maintenance, repair, and storage. Adopting a single-use solution, such as those in the Rüsch® Single-use Laryngoscope portfolio, avoids many of the costs and reliability issues attributed to repeat reprocessing.**
The durability of reusable with the convenience of a single-use blade

Concerns exist regarding the performance, rigidity, and strength of some single-use laryngoscope blades compared with reusable blades. With its durable, metal construction, the Rüsch® Polaris™ Laryngoscope Blade addresses these concerns, offering users the feel of a reusable blade with the convenience of a single-use blade.

In times of critical situations, it’s essential to have the right equipment on hand. The Rüsch® TruLite Secure™ Laryngoscope is a single-use solution with a combined blade and handle. This fully disposable innovation system features reinforced critical components designed to perform in the toughest OR and field conditions.

Additionally, our entire single-use portfolio offers:

- Intuitive packaging and color coding to facilitate correct size selection
- A broad range of blade designs and sizes to address diverse patient anatomies

### Rüsch® Polaris™ Single-Use Laryngoscope Blade

<table>
<thead>
<tr>
<th>ITEM NUMBER</th>
<th>OVERALL LENGTH (MM)</th>
<th>DISTAL WIDTH (MM)</th>
<th>COLOR</th>
<th>CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>4150110 Mac 1</td>
<td>94.5</td>
<td>9.9</td>
<td>White</td>
<td>10</td>
</tr>
<tr>
<td>4150120 Mac 2</td>
<td>111.0</td>
<td>13.0</td>
<td>Blue</td>
<td>10</td>
</tr>
<tr>
<td>4150130 Mac 3</td>
<td>133.0</td>
<td>14.0</td>
<td>Yellow</td>
<td>10</td>
</tr>
<tr>
<td>4150135 Mac 3.5</td>
<td>145.0</td>
<td>14.5</td>
<td>Red</td>
<td>10</td>
</tr>
<tr>
<td>4150140 Mac 4</td>
<td>149.0</td>
<td>13.0</td>
<td>Pink</td>
<td>10</td>
</tr>
<tr>
<td>4150150 Mac 5</td>
<td>159.0</td>
<td>14.5</td>
<td>Dark Yellow</td>
<td>10</td>
</tr>
<tr>
<td>4150002 Miller 00</td>
<td>66.5</td>
<td>12.8</td>
<td>Beige</td>
<td>10</td>
</tr>
<tr>
<td>4150001 Miller 0</td>
<td>78.0</td>
<td>12.8</td>
<td>Violet</td>
<td>10</td>
</tr>
<tr>
<td>4150010 Miller 1</td>
<td>103.0</td>
<td>12.8</td>
<td>Orange</td>
<td>10</td>
</tr>
<tr>
<td>4150015 Miller 1.5</td>
<td>124.0</td>
<td>12.8</td>
<td>Dark Blue</td>
<td>10</td>
</tr>
<tr>
<td>4150020 Miller 2</td>
<td>154.0</td>
<td>13.5</td>
<td>Grey</td>
<td>10</td>
</tr>
<tr>
<td>4150030 Miller 3</td>
<td>195.0</td>
<td>13.5</td>
<td>Green</td>
<td>10</td>
</tr>
<tr>
<td>4150040 Miller 4</td>
<td>205.0</td>
<td>19.0</td>
<td>Lavender</td>
<td>10</td>
</tr>
</tbody>
</table>

### Rüsch® GreenLite™ Single-Use Laryngoscope Blade

<table>
<thead>
<tr>
<th>ITEM NUMBER</th>
<th>OVERALL LENGTH (MM)</th>
<th>DISTAL WIDTH (MM)</th>
<th>COLOR</th>
<th>CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>4150110 Mac 1</td>
<td>94.5</td>
<td>9.9</td>
<td>White</td>
<td>10</td>
</tr>
<tr>
<td>4150120 Mac 2</td>
<td>111.0</td>
<td>13.0</td>
<td>Blue</td>
<td>10</td>
</tr>
<tr>
<td>4150130 Mac 3</td>
<td>133.0</td>
<td>14.0</td>
<td>Yellow</td>
<td>10</td>
</tr>
<tr>
<td>4150135 Mac 3.5</td>
<td>145.0</td>
<td>14.5</td>
<td>Red</td>
<td>10</td>
</tr>
<tr>
<td>4150140 Mac 4</td>
<td>149.0</td>
<td>13.0</td>
<td>Pink</td>
<td>10</td>
</tr>
<tr>
<td>4150150 Mac 5</td>
<td>159.0</td>
<td>14.5</td>
<td>Dark Yellow</td>
<td>10</td>
</tr>
<tr>
<td>4150002 Miller 00</td>
<td>66.5</td>
<td>12.8</td>
<td>Beige</td>
<td>10</td>
</tr>
<tr>
<td>4150001 Miller 0</td>
<td>78.0</td>
<td>12.8</td>
<td>Violet</td>
<td>10</td>
</tr>
<tr>
<td>4150010 Miller 1</td>
<td>103.0</td>
<td>12.8</td>
<td>Orange</td>
<td>10</td>
</tr>
<tr>
<td>4150015 Miller 1.5</td>
<td>124.0</td>
<td>12.8</td>
<td>Dark Blue</td>
<td>10</td>
</tr>
<tr>
<td>4150020 Miller 2</td>
<td>154.0</td>
<td>13.5</td>
<td>Grey</td>
<td>10</td>
</tr>
<tr>
<td>4150030 Miller 3</td>
<td>195.0</td>
<td>13.5</td>
<td>Green</td>
<td>10</td>
</tr>
<tr>
<td>4150040 Miller 4</td>
<td>205.0</td>
<td>19.0</td>
<td>Lavender</td>
<td>10</td>
</tr>
</tbody>
</table>
Single-Use Conventional Systems

Rüsch® TruLite Secure™ Single-Use Blade and Handle Laryngoscope

Rüsch® DispoGrip™ Single-Use Laryngoscope Handle

Stainless-Steel Pin
Built to withstand the forces of intubation

Compatible with Standard/Conventional Blades

Textured Grip
Ergonomically designed finger grips for user comfort and ease of use

Battery Compartment
Contains two alkaline AAA batteries. Safety features help to prevent re-use

Rüsch® EquipLite™ Single-Use Laryngoscope Blade

Color-Coded
Large range of color-coded sizes

LED Light Source
Provides strong, focused, and reliable illumination

Solid, Metal Construction
With beveled blade tip

Teleflex is committed to minimizing the environmental impact of its products. All single-use laryngoscope blade and handle components can be recycled.
References:

1. Teleflex Global Anesthesia sales data, YOY, Dec. 2017
10. Data on file; 2018 internal study. Testing standardized to Mac 3 blades with manufacturer’s corresponding handle. Sekonic® C-7000 SpectroMaster was used to measure light output from laryngoscopes enclosed in a black box designed to eliminate ambient light. N=23, calculated to deliver 95% confidence. Comparative bench data may not be indicative of clinical performance.
11. Based on IMS Health Q4 2016 sales data.

Teleflex is a global provider of medical technologies designed to improve the health and quality of people’s lives. We apply purpose driven innovation – a relentless pursuit of identifying unmet clinical needs – to benefit patients and healthcare providers. Our portfolio is diverse, with solutions in the fields of vascular and interventional access, surgical, anesthesia, cardiac care, urology, emergency medicine and respiratory care. Teleflex employees worldwide are united in the understanding that what we do every day makes a difference. For more information, please visit teleflex.com.

Teleflex is the home of Arrow®, Deknatel®, Hudson RCI®, LMA®, Pilling®, Rüsch®, and Weck® – trusted brands united by a common sense of purpose.

Corporate Office
Phone +1 610 225 6800, 550 E. Swedesford Road, Suite 400, Wayne, PA 19087, USA

CAUTION: U.S. federal law limits this device to sale by or on order of a physician. Single use. Refer to package insert for current warnings, indications, contraindications, precautions and Instructions For Use.

Teleflex, the Teleflex logo, Arrow, Rüsch, EquipLite, Deknatel, DispoGrip, DispoLED, GreenLite, Hudson RCI, LMA, Pilling, Polaris, TruLite Secure and Weck are trademarks or registered trademarks of Teleflex Incorporated or its affiliates, in the U.S. and/or other countries. All other trademarks are the marks of their respective owners.

Information in this document is not a substitute for the product Instructions for Use. The products in this document may not be available in all countries. Please contact your local representative. All data current at time of printing (07/2018). Subject to technical changes without further notice.

© 2018 Teleflex Incorporated. All rights reserved. MC-004128