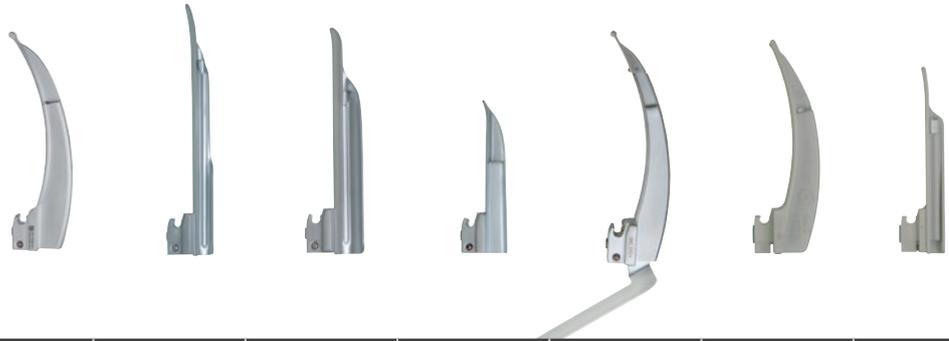


**You can  
COUNT  
on our  
laryngoscopes.  
ALWAYS.**



HEINE Laryngoscopes

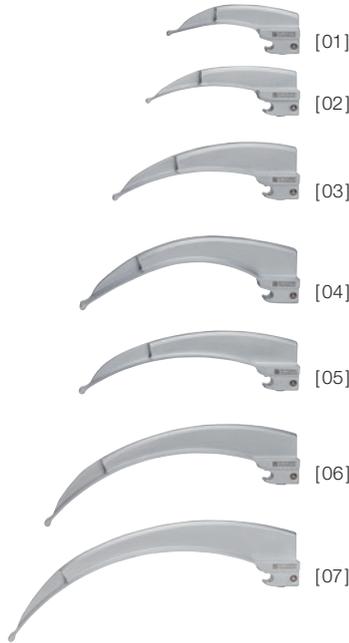


	Classic+ Macintosh	Classic+ Miller	Classic+ WIS	Classic+ Paed	FlexTip+	XP Macintosh	XP Miller
Blade size	0, 1, 2, 3, 3m, 4, 5	00, 0, 1, 2, 3, 4	1, 2, 3	0, 1	3, 4	1, 2, 3, 4	0, 1, 2, 3, 4
Material	Stainless Steel	Polycarbonate	Polycarbonate				
Diameter of HiLite Fiber Bundle in mm	4,3	3,7	3,7	3,6	4,3	–	–
Reprocessing	Reusable, Sterilisation without disassembly	⊗	⊗				
Recommendations	–	–	–	–	–	Suitable for low ambient temperatures	Suitable for low ambient temperatures
Guarantee	5 years Guarantee and 4000 autoclave cycles	⊗	⊗				
Catalogue page	079	080	080	080	081	082	082

⊗: Single use only.

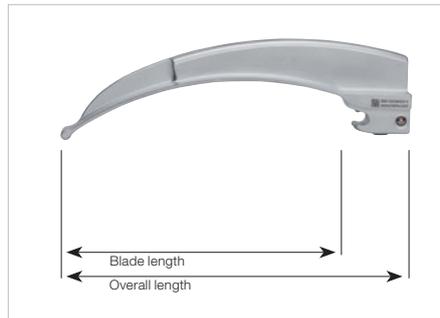
## HEINE Classic+ Macintosh Fiber Optic (F.O.) Blades

### Innovative Fiber Optic Technology for advanced performance



Our new, innovative manufacturing technology achieves even better illumination and a longer service life.

- ∴ **The HEINE HiLite Fibre Optic (F.O.) fiber bundle, optimised for use** with up to 6,500 individual fibres and refined directional characteristics, achieves the best possible illumination of the pharynx even after 4,000 sterilisation cycles. For simple and safe intubation.
- ∴ **The new one-piece design from chrome-plated, stainless, high-grade steel** makes the Classic+ F.O. blade even more resistant to the oxidation and/or corrosion damage that can occur in the reprocessing process due to intense use.
- ∴ **HEINE Classic+ blades have no screwed joints, no external fiber bundles and no openings** that could contaminate.
- ∴ **The clean shape without any edges or corners** is easy to clean, disinfect and sterilise.
- ∴ **Compatible with all handles** to the ISO 7376 (green standard).
- ∴ **5 years guarantee.** After 4000 autoclave cycles of 134 °C/4 min, illuminance of at least 1,000 lux.

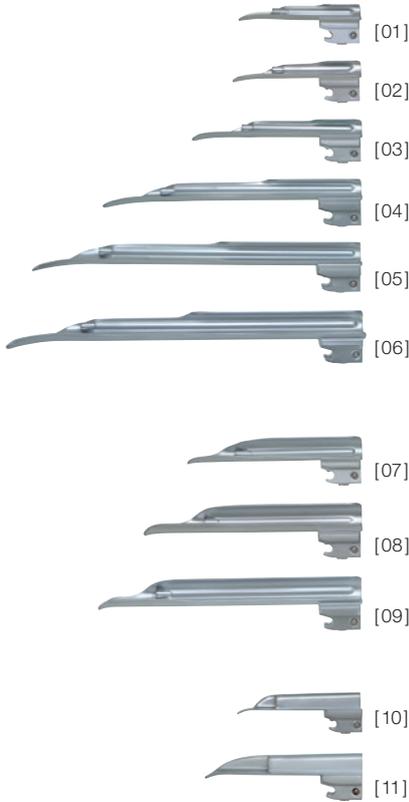


Size	Overall length	Blade length	Distal width	
Mac 0 [01]	82 mm	66 mm	9 mm	<b>F-000.22.100</b>
Mac 1 [02]	94 mm	78 mm	10 mm	<b>F-000.22.101</b>
Mac 2 [03]	114 mm	98 mm	14 mm	<b>F-000.22.102</b>
Mac 3m* [04]	134 mm	118 mm	14 mm	<b>F-000.22.143</b>
Mac 3 [05]	134 mm	118 mm	14 mm	<b>F-000.22.103</b>
Mac 4 [06]	155 mm	139 mm	15 mm	<b>F-000.22.104</b>
Mac 5 [07]	177 mm	161 mm	15 mm	<b>F-000.22.105</b>

\* stronger curve

HEINE Classic+ Miller, WIS and Paed Fiber Optic (F.O.) Blades

Innovative Fiber Optic Technology for advanced performance



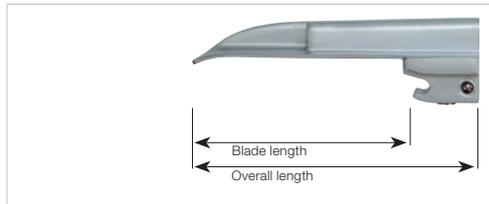
- ∴ **The Miller Classic+ blades with improved geometry simplify intubation.**  
The shortened shoulder of the blade dramatically improves the anesthetist's view of the epiglottis and vocal cords. The distal lip of the blade features a special atraumatic shape.
- ∴ **HEINE HiLite fiber bundle** with up to 6,500 individual micro-fibers for improved light transmission and longer life.
- ∴ **Both ends of the large fiber bundle** are protected – for life.
- ∴ **HEINE Classic+ blades have no screwed joints**, no external fiber bundles and no openings that could contaminate.
- ∴ **The clean shape without any edges or corners** is easy to clean, disinfect and sterilise.
- ∴ These blades need **no maintenance** – ever.
- ∴ **Compatible** with all handles to the ISO 7376 (green standard).
- ∴ **High-quality design from chrome-plated, stainless, high-grade steel.**
- ∴ **5 years guarantee.** After 4000 autoclave cycles of 134 °C/4 min, illuminance of at least 1,000 lux.
- ∴ **HEINE Paed laryngoscopes** have been developed specifically for the intubation of neonates and infants.



Miller 2 side-view



WIS 2 side-view



Paed 1 side-view

Size	Overall length	Blade length	Distal width	
Miller 00 [01]	76 mm	51 mm	10 mm	F-000.22.119
Miller 0 [02]	80 mm	55 mm	11 mm	F-000.22.120
Miller 1 [03]	100 mm	78 mm	12 mm	F-000.22.121
Miller 2 [04]	152 mm	130 mm	13 mm	F-000.22.122
Miller 3 [05]	192 mm	170 mm	13 mm	F-000.22.123
Miller 4 [06]	207 mm	185 mm	16 mm	F-000.22.124
WIS 1 [07]	110 mm	85 mm	13 mm	F-000.22.131
WIS 2 [08]	130 mm	105 mm	16 mm	F-000.22.132
WIS 3 [09]	160 mm	133 mm	16 mm	F-000.22.133
Paed 0 [10]	82 mm	65 mm	12 mm	F-000.22.110
Paed 1 [11]	95 mm	78 mm	13 mm	F-000.22.111

## HEINE FlexTip+ Fiber Optic (F.O.) Laryngoscope Blade

### A useful Tip for a difficult intubation

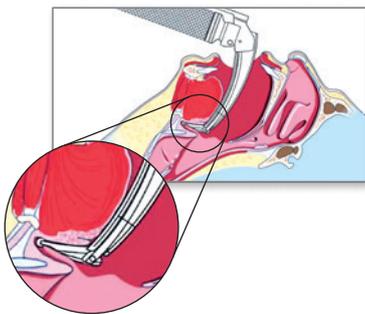
The FlexTip+ is a Macintosh Laryngoscope Blade with a tip which is adjustable through 70°. A lever controls the tip angle during intubation to lift the epiglottis, giving a clear view of the vocal cords. Contact with the upper row of teeth and unnecessary pressure on the tongue and soft tissue are avoided.

- ∴ **HEINE HiLite fiber bundle.** With up to 6500 individual micro-fibers for improved light transmission and longer life.
- ∴ **Integrated Fiber Optics for the best possible illumination.**
- ∴ **High-quality design from chrome-plated, stainless, high-grade steel.**
- ∴ **Swivelling blade tip facilitates difficult intubation.**
- ∴ **Reduced likelihood of damage** to teeth and soft tissue.
- ∴ **Fits all standard F.O. handles** (green standard). Exception: F.O. Angled Handle.
- ∴ **5 years guarantee.** After 4000 autoclave cycles of 134 °C/4 min, illuminance of at least 1,000 lux.



[01]

FlexTip+ F.O. Blade in case	Overall length	Blade length	Distal width	
Mac 3 [01]	134 mm	115 mm	13 mm	<b>F-000.22.313</b>
Mac 4	157 mm	137 mm	13 mm	<b>F-000.22.314</b>
Mac 3 and Mac 4	134 mm/ 157 mm	115 mm/ 137 mm	13 mm/ 13 mm	<b>F-000.22.316</b>





## HEINE XP Disposable Laryngoscope Blades

### Eliminate cross-infection



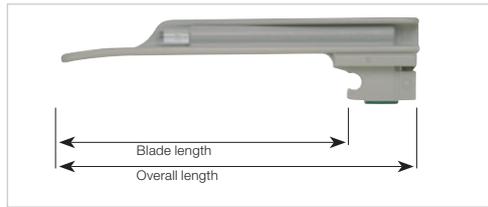
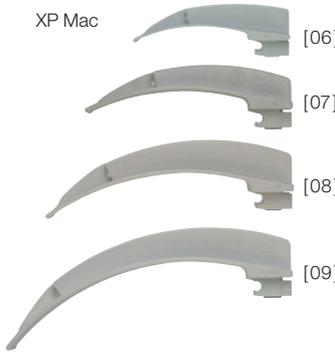
XP Miller



The Disposable Laryngoscope Blade features the HEINE Classic+ blade shape of the world's best-selling integral fiber optic blade. With proper use the disposable XP blade avoids cross-infection from one patient to the next.

- ∴ **No danger of cross-infection.**
- ∴ **Hygienic and safe.**
- ∴ **Optimum light transmission** by oversize light guide.
- ∴ **Extremely bright:** Highest level of illuminance with HEINE 2.5V or 3.5V LED illuminance within laryngoscope insert.
- ∴ **Blade shape optimized to ease the passage of the tube.**
- ∴ **Patient-friendly** with **reduced risk of injury** or damage to teeth.
- ∴ **Extreme torsional stiffness**, practically unbreakable.
- ∴ **Blades do not “freeze”** or stick to the tongue at low temperatures.
- ∴ **Compatible** with all handles to the ISO 7376 (green standard).

XP Mac



XP Miller 1 side-view



XP Mac 2 side-view

XP blade	Overall length	Blade length	Distal width	
Miller 0 [01]	80 mm	62 mm	10 mm	F-000.22.771*
Miller 1 [02]	104 mm	85 mm	10 mm	F-000.22.772*
Miller 2 [03]	155 mm	136 mm	13 mm	F-000.22.773*
Miller 3 [04]	195 mm	177 mm	13 mm	F-000.22.774*
Miller 4 [05]	221 mm	194 mm	14 mm	F-000.22.775*
Mac 1 [06]	90 mm	72 mm	9 mm	F-000.22.761*
Mac 2 [07]	114 mm	96 mm	10 mm	F-000.22.762*
Mac 3 [08]	134 mm	116 mm	14 mm	F-000.22.763*
Mac 4 [09]	154 mm	136 mm	14 mm	F-000.22.764*

\* 25 disposable blades individually packed in Dispenser Box.

For HEINE XP Emergency Set, please see page 088.

⊗: Single use only.

## HEINE XP Disposable Laryngoscope Handle Shell

### Eliminates cross-infection



The disposable laryngoscope handle shell with the globally distributed laryngoscope insert is powered by the best-selling battery insert for HEINE F.O. handles. The laryngoscope insert can be removed from the handle shell after intubation without risk of contamination.

#### XP Disposable Laryngoscope Handle Shell with bottom insert

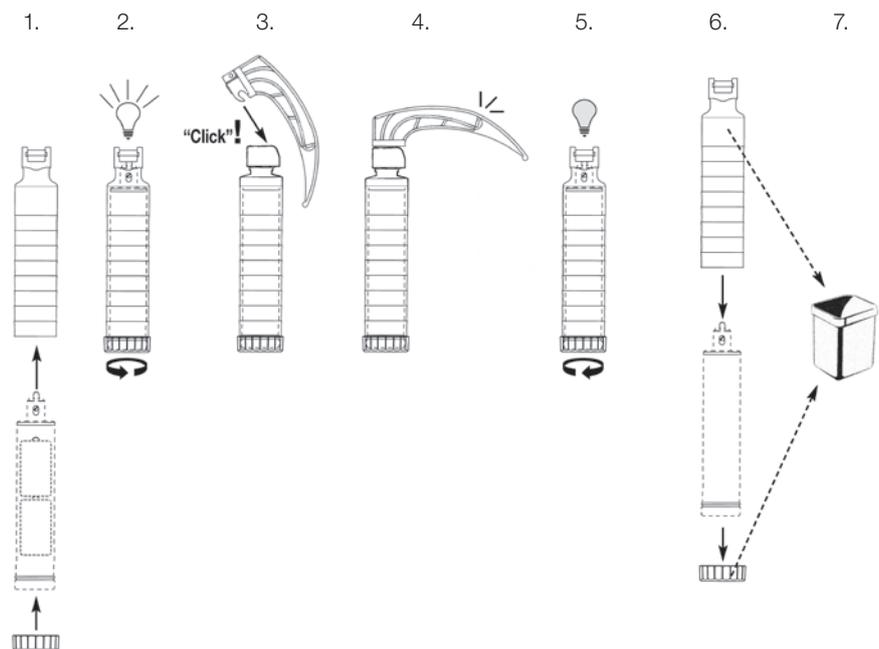
without laryngoscope insert, pack of 25

F-000.22.926

Standard F.O. Laryngoscope Insert	2.5V	3.5V NiMH	3.5V Li-ion
with XHL illumination and Standard F.O. Bottom Insert	F-001.22.858	F-002.22.868	-
with LED illumination and Standard F.O. Bottom Insert	F-008.22.858	F-008.22.868	F-008.22.889
with XHL illumination and Standard F.O.4 NT Bottom Insert	-	-	F-007.22.893*
with LED illumination and Standard F.O.4 NT Bottom Insert	-	-	F-008.22.893*
XHL Xenon Halogen spare bulb	X-001.88.035	X-002.88.044	X-002.88.044

\* Please note: The Laryngoscope insert with the HEINE F.O.4 NT Bottom Insert can only be charged in the HEINE NT4 Table Charger.

⊗: Single use only.



The XP disposable handle shell was especially designed for use with HEINE laryngoscope inserts. The HEINE laryngoscope insert is placed inside the disposable handle shell and the light is activated by turning the bottom insert. Following intubation, the user simply unscrews the bottom insert and the laryngoscope insert can be removed with no risk of contamination. The handle shell, the bottom insert and the XP blade are all disposed of.



## HEINE EasyClean® LED Laryngoscope Handle

Now all three handle sizes: **STANDARD, SLIM AND SHORT**



The HEINE EasyClean LED Laryngoscope Handle was developed to allow even simpler, faster and safer hygienic reprocessing of the handle – no complex disassembling and assembling of batteries and light unit. This saves the technical service personnel a great deal of time, and reduces the training and maintenance effort.

### SIMPLE, FAST AND SAFE CLEANING

- **Non-slip “Wave Design”** improves the reliability of the wipe disinfectant for the handle after use (‘Intermediate Disinfection’).
- **100% waterproof.** In the case of immersion disinfection (‘High-Level Disinfection’) or low temperature sterilisation processes (STERRAD®, VHP® (Steris)), neither the batteries nor the LED light unit need to be removed.
- **Autoclavable LED technology:** No removal of the light unit required for use in autoclaves, just batteries.

### PERFECT VIEW

- **There’s LED. And there’s LED<sup>HQ</sup>.** HEINE has set a new standard which maintains that only the best is good enough, from the selection of materials to processing, from light intensity and thermal management to a colour rendering index as high as possible. **That’s what we call LED in HEINE Quality – or LED<sup>HQ</sup>.**
- **Maximum brightness:** 3x brighter than conventional halogen light.
- Virtually **unlimited hours of working life.**

### FAIL-SAFE

- **Typ. 10 hours of operating time** (EasyClean LED Laryngoscope Handle in continuous operation).
- **Fade-Out Feature:** brightness reduces slowly as battery operating time diminishes, for even more efficient battery use.
- **Compatible with all laryngoscope blades** according to ISO 7376 (Green Standard).



EasyClean LED Laryngoscope Handle	LED
EasyClean LED Laryngoscope Handle suitable for 2x C-batteries (LR14), complete* [01]	<b>F-008.22.820</b>
EasyClean LED SLIM Laryngoscope Handle suitable for 2x AA-batteries (LR6), complete* [02]	<b>F-008.22.821</b>
EasyClean LED SHORT Laryngoscope Handle, suitable for 3x AAA-batteries (LR03), complete* [03]	<b>F-008.22.822</b>

\*Delivery without batteries.

### HYGIENIC REPROCESSING OPTIONS:\*\*

Reprocessing process →	Wipe disinfection	Manual immersion disinfection	Low temperature gas plasma sterilisation (STERRAD®/VHP® (Steris))	Mechanical cleaning + disinfection (thermal disinfectant)	Steam sterilisation/ autoclave
Temperature	Cold	< 60 °C	< 60 °C	max. 93 °C	max. 134 °C/4 min
<b>with batteries</b>	✓	✓	✓	Batteries removed previously	Batteries removed previously
<b>with HEINE LED</b>	✓	✓	✓	✓	✓

\*\*Detailed cleaning instructions can be found in our instructions for use at [www.heine.com](http://www.heine.com)

## HEINE F.O.4 NT Laryngoscope Handles

### Li-ion in all handle sizes – XHL or LED<sup>HQ</sup> illumination



- **Compatible with all laryngoscope blades to the ISO 7376 (green standard).**
- **HEINE Standard F.O. Laryngoscope Handles can be converted from battery to rechargeable handles by simply exchanging the bottom insert.**
- **Fade-Out Feature:** brightness reduces slowly even with low residual capacity, for even more efficient use of dry or rechargeable batteries.
- **There's LED. And there's LED<sup>HQ</sup>.** HEINE has set a new standard which maintains that only the best is good enough, from the selection of materials to processing, from light intensity and thermal management to a colour rendering index as high as possible. **That's what we call LED in HEINE Quality – or LED<sup>HQ</sup>.**



\*Charge Status Indicator in the bottom insert.  
Typ. XHL 2,5 hours operating time.  
Typ. LED 7 hours operating time.



Standard F.O.4 NT Laryngoscope Handle*	XHL 3.5V Li-ion	LED 3.5V Li-ion
<b>Standard F.O.4 NT Handle, complete [01]</b>	F-007.22.894	F-008.22.894
Laryngoscope insert without bottom insert [02]+[03]	F-002.22.859	F-008.22.890
Bottom insert F.O.4 NT [04]*	F-002.22.884	F-002.22.884
Rechargeable battery [06]	X-007.99.383	X-007.99.383
Handle shell [07]	F-000.22.824	F-000.22.824
Spare bulb	X-002.88.044	-
NT4 table charger, only (without handle)	X-002.99.494	X-002.99.494

Standard F.O. Laryngoscope Battery Handle	XHL 2.5V	LED 2.5V
<b>Standard F.O. Handle,</b> suitable for 2x C-batteries (LR14), compl.** [01]	F-001.22.860	F-008.22.860
Bottom insert [05]	F-001.22.861	F-001.22.861

F.O.4 SLIM NT Laryngoscope Handle	XHL 3.5V Li-ion	LED 2.5V Li-ion
<b>F.O.4 SLIM NT Handle, complete [01]</b>	F-007.22.804	F-008.22.804
Laryngoscope insert without bottom insert [02]+[03]	F-002.22.801	F-008.22.801
Bottom insert F.O.4 SLIM NT [04]	F-000.22.854	F-000.22.854
Rechargeable battery [06]+[07]	X-007.99.380	X-007.99.104
Handle shell [08]	F-000.22.804	F-000.22.804
Spare bulb	X-002.88.044	-
NT4 table charger only (without handle)	X-002.99.494	X-002.99.494
Set of two adaptors	X-000.99.086	X-000.99.086

F.O. SLIM Laryngoscope Battery Handle	XHL 2.5V	LED 2.5V
<b>F.O. SLIM Handle</b> suitable for 2x AA-batteries (LR6), complete** [01]	F-001.22.800	F-008.22.800
Bottom insert [05]	F-000.22.851	F-000.22.851

F.O.4 SHORT NT Laryngoscope Handle	XHL 3.5V Li-ion	LED 2.5V Li-ion
<b>F.O.4 SHORT NT Handle, complete [01]</b>	F-007.22.424	F-008.22.424
Charging module [02]+[03]	X-007.99.394	X-007.99.304
Spare bulb	X-002.88.044	-
NT4 table charger only (without handle)	X-002.99.494	X-002.99.494

F.O. SHORT Laryngoscope Battery Handle	XHL 2.5V	LED 2.5V
<b>F.O. SHORT Handle</b> suitable for 2x AA-batteries (LR6), complete** [04]	F-001.22.812	F-008.22.812

\*\*Delivery without batteries.

Please note: All Li-ion versions can only be charged with the NT4 table charger.



### HEINE NT4 Table Charger and Adaptors



All rechargeable HEINE F.O.4 NT Laryngoscope Handles can only be charged with the NT4 table charger. The use of an adaptor is required for some handles. For detailed information about the NT4 table charger and adaptor, please see page 142.

NT4 table charger	
without handle, with adaptors for Standard F.O.4 NT Laryngoscope Insert and F.O.4 SHORT NT Laryngoscope Handle	X-002.99.494
Set of two adaptors for F.O.4 SLIM NT Laryngoscope Rechargeable Handle [01]	X-000.99.086

### HEINE F.O. 4 Upgrade Kit

#### For converting to HEINE F.O.4 charging technology



For converting a Standard F.O. or Standard F.O. LED laryngoscope rechargeable handle to a Standard F.O.4 NT solution.

Upgrade Kit F.O. 4 NT	3.5V Li-ion
Bottom insert Standard F.O.4 NT, Li-ion L rechargeable battery, NT4 table charger	F-011.99.420

230V is the standard mains voltage. If a different voltage is required, e. g. 120V, please specify when ordering.

### HEINE F.O. Angled Handle

#### For complex intubation



The Fiber Optic Angled Handle can be fitted with any HEINE Fiber Optic blade. The angle of the blade to the handle gives a significantly better view for intubation e.g. in cases of injury to the neck. One F.O. Angled Handle for all F.O. Blades (except FlexTip). The rechargeable handle can be charged only in the NT 300 table charger.

F.O. Angled Handle	2.5V	3.5V NiMH	3.5V Li-ion L
F.O. Angled Handle, complete [01]	F-001.22.941	F-002.22.942	F-007.22.945
Bottom insert [02] [03] [04]	X-000.99.119	X-002.99.412	X-002.99.396
Rechargeable battery [05] [06]	-	X-002.99.382	X-007.99.383
Spare bulb	X-001.88.035	X-002.88.044	X-002.88.044
NT 300 charger, only (without handle)	-	X-002.99.495	X-002.99.495



## HEINE Classic+ Fiber Optic (F.O.) Laryngoscope Sets



[01]

Set complete with: **Paed 1, Mac 2, Mac 3 blades**  
spare XHL Xenon Halogen bulb,  
zipper case

Classic+ Sets	2.5V	3.5V Li-ion
with Standard F.O. Battery Handle [01]	<b>F-119.10.860</b>	
with Standard F.O.4 NT Rechargeable Handle with Li-ion Battery and NT4 table charger		<b>F-119.23.865*</b>



[02]

As above, but with LED illumination, without spare bulb

LED <sup>HD</sup> Classic+ Sets	2.5V	3.5V Li-ion
with Standard F.O. LED Battery Handle	<b>F-119.18.860</b>	
with Standard F.O.4 LED NT Rechargeable Handle with Li-ion Battery and NT4 table charger		<b>F-119.94.865*</b>
with EasyClean LED Battery Handle [02]	<b>F-119.18.820</b>	



[01]

Set complete with: **Paed 1, Mac 2, Mac 3, Mac 4 blades**  
spare XHL Xenon Halogen bulb,  
zipper case

Classic+ Sets	2.5V	3.5V Li-ion
with Standard F.O. Battery Handle [01]	<b>F-120.10.860</b>	
with Standard F.O.4 NT Rechargeable Handle with Li-ion Battery and NT4 table charger		<b>F-120.23.865*</b>



[02]

As above, but with LED illumination, without spare bulb

LED <sup>HD</sup> Classic+ Sets	2.5V	3.5V Li-ion
with Standard F.O. LED Battery Handle	<b>F-120.18.860</b>	
with Standard F.O.4 LED NT Rechargeable Handle with Li-ion Battery and NT4 table charger		<b>F-120.94.865*</b>
with EasyClean LED Battery Handle [02]	<b>F-120.18.820</b>	

\* Please note: The 3.5V Li-ion version will be delivered with the HEINE F.O.4 NT bottom insert and can only be charged in the HEINE NT4 table charger.



HEINE FlexTip+ Fiber Optic (F.O.) Laryngoscope Sets



[01]

FlexTip+ F.O. Laryngoscope Set complete with: **Blades Mac 3, Mac 4** spare XHL Xenon Halogen bulb, case

FlexTip+ Sets	2.5V	3.5V Li-ion
with Standard F.O. Battery Handle [01]	<b>F-230.10.860</b>	
with Standard F.O.4 NT Rechargeable Handle with Li-ion Battery and NT4 table charger		<b>F-230.23.865*</b>
As above, but with LED illumination, without spare bulb		
LED HD FlexTip+ Sets	2.5V	3.5V Li-ion
with Standard F.O. LED Battery Handle	<b>F-230.18.860</b>	
with Standard F.O.4 LED NT Rechargeable Handle with Li-ion Battery and NT4 table charger		<b>F-230.94.865*</b>
with EasyClean LED Battery Handle	<b>F-230.18.820</b>	
Case for FlexTip+ F.O. Laryngoscope Sets F-227, F-229 or F-230		<b>F-227.01.000</b>
FlexTip+ Mac 3 and Mac 4, without handle, in case		<b>F-000.22.316</b>

HEINE XP Emergency Set with XP Disposable Blades



Specially-developed for emergency-use featuring the HEINE XP Disposable Laryngoscope Blades. These sets are equipped with XP blades of the same anatomically-correct shape as the Classic+ blade, the world's best-selling F.O. blade with integrated fiber optic bundle.

The HEINE XP Emergency Laryngoscope Set is complete with the 5 most frequently-used blade types and sizes for infants and adults. Instantly-ready for use with XP disposable laryngoscope handle shell included Standard F.O. laryngoscope insert with XHL illumination and alkaline batteries.

XP Emergency Set	2.5V XHL		
<b>with blades Miller 0, Miller 1, Mac 2, Mac 3, Mac 4,</b> XP disposable laryngoscope handle shell, Standard F.O. laryngoscope insert, two alkaline batteries, in case	<b>F-258.10.858</b>		
XP* Blades	Overall Length	Distal Width	
Miller 0	80mm	10mm	<b>F-000.22.771*</b>
Miller 1	104mm	10mm	<b>F-000.22.772*</b>
Mac 2	114mm	10mm	<b>F-000.22.762*</b>
Mac 3	134mm	14mm	<b>F-000.22.763*</b>
Mac 4	154mm	14mm	<b>F-000.22.764*</b>

\*25 disposable blades (⊗) individually packed in Dispenser Box.

XP Emergency Set refill assortment	2.5V XHL	
Refill assortment with XP disposable laryngoscope handle shell and XP blades, Miller 0, 1, Mac 2, 3, 4 (one each, 5 pieces in total)	<b>F-000.22.739</b>	

Further articles or accessories see page 083.