

HEINE introduces the „+“ range of **F.O. blades** with HEINE HiLite® Fiber Optic bundle and the state of the art HEINE XHL® Xenon Halogen bulbs in the Handle.

The innovative HEINE HiLite® Fiber Optic bundle with up to 100 % more cross-section improves light transmission and makes the blade more resistant to autoclaving than ever.

HEINE offers a 5-year guarantee* on all blades with HEINE HiLite® fibers. HEINE XHL® Xenon Halogen bulbs incorporate the latest Xenon Halogen Technology to give you up to 40 % more light! All HEINE F.O.+ laryngoscope systems offer exceptional value for money and effectively save money for you.

HEINE XHL® Xenon Halogen 3.5V bulbs last up to twice as long as 2.5V bulbs and give up to three times the light of conventional 2.5 V Halogen laryngoscopes bulbs. HEINE 3.5V systems use a long-lasting 3.5V rechargeable battery which avoids the need to replace non-rechargeable batteries at frequent intervals.

HEINE F.O. laryngoscope blades and handles are compatible with the ISO 7376 (green standard).

* 4000 standard autoclave cycles of 134°C/5 min. with more than 1000 lux.

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

Innovative Fiber Optic Technology for advanced performance



- ⋮ **HEINE HiLite® fiber bundle** with 4.3mm dia. and up to 6500 individual micro-fibers for improved light transmission and longer life.
- ⋮ **HEINE XHL® Xenon Halogen Technology** for up to 40 % more light than conventional halogen bulbs.
- ⋮ **HEINE guarantees** all blades with HiLite fiber bundles for **5 years***.
- ⋮ With Classic+ there are **no connecting screws** to get lost, no external light pathways to get wrong and no tricky openings or crevices to get dirty – a major contribution to eliminating cross-infection.
- ⋮ **Smooth shape avoids sharp edges and cavities** for easy cleaning and sterilizing.
- ⋮ **These blades need no maintenance** – ever.
- ⋮ **Both ends of the large fiber bundle (4.3 mm Ø)** are protected – for life.
- ⋮ **2.5V battery or 3.5V rechargeable power** for even more light.
- ⋮ **Compatible with all handles** to the ISO 7376 (green standard).

* 4000 standard autoclave cycles of 134°C/5min. with more than 1000 lux.

- ⋮ Easy intubation
- ⋮ 4000 autoclave cycles
- ⋮ 5 year warranty



Mac 3 end-view



Mac 3 side-view



Size	Overall length	Distal width	
Mac 0	82mm	9mm	F-000.22.100
Mac 1	93mm	11mm	F-000.22.101
Mac 2	115mm	13mm	F-000.22.102
Mac 3m**	135mm	15mm	F-000.22.143
Mac 3	135mm	15mm	F-000.22.103
Mac 4	155mm	15mm	F-000.22.104
Mac 5	176mm	15mm	F-000.22.105

** stronger curve



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

Innovative Fiber Optic Technology for advanced performance

Miller Classic+ F.O. laryngoscopes with the new, greatly-improved blade shape.



- ∴ **The Miller Classic+ F.O. 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 XHL® Xenon Halogen Technology** for up to 40% more light than conventional halogen bulbs.
- ∴ **HEINE guarantees** all blades with HiLite fiber bundles for **5 years***.
- ∴ With classic+ there are **no connecting screws** to get lost, no external light pathways to get wrong and no tricky openings or crevices to get dirty – a major contribution to eliminating cross-infection.
- ∴ **Smooth shape avoids sharp edges and cavities** for easy cleaning and sterilizing.
- ∴ These blades need **no maintenance** – ever.
- ∴ Both ends of the **fiber bundle** are protected – for life.
- ∴ **2.5V battery or 3.5V rechargeable power** for even more light.
- ∴ **Compatible** with all handles to the ISO 7376 (green standard).
- ∴ **HEINE Paed laryngoscopes** have been developed specifically for the intubation of neo-nates and infants.

* 4000 standard autoclave cycles of 134 °C/5min. with more than 1000 lux.

- ∴ Easy intubation
- ∴ 4000 autoclave cycles
- ∴ 5 year warranty



Miller 2 end-view



WIS 2 end-view



Paed 1 end-view



Miller 2 side-view



WIS 2 side-view



Paed 1 side-view

Size	Overall length	Distal width	
Miller 00 <small>(not shown)</small>	76mm	9.5mm	F-000.22.119
Miller 0	80mm	10.5mm	F-000.22.120
Miller 1	100mm	11.5mm	F-000.22.121
Miller 2	152mm	13mm	F-000.22.122
Miller 3	192mm	13mm	F-000.22.123
Miller 4	207mm	15.9mm	F-000.22.124
WIS 1	110mm	13mm	F-000.22.131
WIS 2	130mm	16mm	F-000.22.132
WIS 3	160mm	16mm	F-000.22.133
Paed 0	82mm	12mm	F-000.22.110
Paed 1	95mm	13mm	F-000.22.111

HEINE MacModular+® Fiber Optic (F.O.) Laryngoscope Blades

With easy-to-remove Fiber Optic Light Module



Mac Modular+ F.O. laryngoscope blades (US Pat. 6,139,491): Both blade and light module are autoclavable and can be fitted or removed in seconds without a screwdriver. The light module does not project into the line of sight, making intubation safer and easier.

- ∴ **HEINE HiLite® fiber bundle** for improved light transmission and longer life.
- ∴ **HEINE XHL® Xenon Halogen Technology** for up to 40% more light than conventional halogen bulbs.
- ∴ **5 years warranty***.
- ∴ **Modular construction** – swap modules in a few seconds.
- ∴ **Ideal Mac shape** with no light pipe in the line of sight.
- ∴ **Blade module made entirely of stainless steel.**
- ∴ **Economical** modular design.
- ∴ **Compatible** with all handles to the ISO 7376 (green standard).

* 4000 standard autoclave cycles of 134°C/5 min. with more than 1000 lux.



Mac 3 F.O. Modular+ blade, complete



Mac 3 Blade module, metal



Mac 3 F.O. Light module

Dimensions	Overall length	Distal width
Mac 1	95mm	12mm
Mac 2	114mm	15mm
Mac 3	133mm	15mm
Mac 4	156mm	15mm

Size	F.O. Modular+ blade, complete	Blade module, metal	F.O. Light module
Mac 1	F-000.22.501	F-000.22.531	F-000.22.561
Mac 2	F-000.22.502	F-000.22.532	F-000.22.562
Mac 3	F-000.22.503	F-000.22.533	F-000.22.563
Mac 4	F-000.22.504	F-000.22.534	F-000.22.564



HEINE Miller Modular+® Fiber Optic (F.O.) Laryngoscope Blades

With easy-to-remove Fiber Optic Light Module



Miller Modular+ F.O. laryngoscope blades (US Pat. 6,666,819/DE 10125389): Both blade and light module are autoclavable and can be fitted or removed in seconds without a screwdriver. The improved geometry guarantees a clear, unobstructed view of the epiglottis and vocal cords. The distal lip of the blade features a special atraumatic shape.

- ∴ **HEINE HiLite® fiber bundle** for improved light transmission and longer life.
- ∴ **HEINE XHL® Xenon Halogen Technology** for up to 40% more light than conventional halogen bulbs.
- ∴ **5 years warranty***.
- ∴ Blade with **quickly-detachable fiber optic light module**.
- ∴ **Blade and light modules both autoclavable up to 134 °C/5 min.**
- ∴ The ideal position of the fiber optic bundle **eases intubation**.
- ∴ **High light output**.
- ∴ **Economical** modular design.
- ∴ **Compatible** with all handles to the ISO 7376 (green standard).

* 4000 standard autoclave cycles of 134 °C/5 min. with more than 1000 lux.



Miller 2 F.O. Modular+ blade, complete



Miller 2 blade module, metal



Miller 2 F.O. Light module

Dimensions	Overall length	Distal width
Miller 0	76mm	11 mm
Miller 1	104 mm	12 mm
Miller 2	154 mm	15 mm
Miller 3	195 mm	15 mm
Miller 4	205 mm	17 mm

Size	F.O. Modular+ blade, complete	Blade module metal	F.O. Light module
Miller 0	F-000.22.510	F-000.22.540	F-000.22.570
Miller 1	F-000.22.511	F-000.22.541	F-000.22.571
Miller 2	F-000.22.512	F-000.22.542	F-000.22.572
Miller 3	F-000.22.513	F-000.22.543	F-000.22.573
Miller 4	F-000.22.514	F-000.22.544	F-000.22.573

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 a 4.3mm dia. and up to 6500 individual micro-fibers for improved light transmission and longer life.
- ∴ **HEINE XHL® Xenon Halogen Technology.** For up to 40% more light than conventional halogen bulbs.
- ∴ **Swivelling blade tip facilitates difficult intubation.**
- ∴ **Reduced likelihood of damage** to teeth and soft tissue.
- ∴ **Integrated Fiber Optics for the best possible illumination.**
- ∴ **High quality stainless steel construction.**
- ∴ **Autoclavable.**
- ∴ **Fits all standard F.O. handles** (green standard). Exception: F.O. angled handle.

FlexTip+ F.O. Laryngoscope Blade

in case

Mac 3	F-000.22.313
Mac 4	F-000.22.314
Mac 3 and Mac 4	F-000.22.316



∴ Swivelling blade tip

∴ Clear view

∴ 5 year warranty

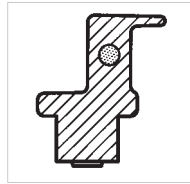


HEINE SANALON+® Fiber Optic (F.O.) Laryngoscope Blades

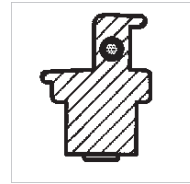
Reusable Emergency Laryngoscope Blades



- ∴ Reusable F.O. laryngoscope blade made of tough, durable **SANALON**.
- ∴ **HEINE HiLite® fiber bundle** for improved light transmission and longer life.
- ∴ **HEINE XHL® Xenon Halogen Technology** for up to 40% more light than conventional halogen bulbs.
- ∴ Tremendous strength with low weight.
- ∴ Rounded edges significantly reduce the risk of injury.
- ∴ Blades do not “freeze” at low temperatures.
- ∴ Extremely cost-effective.



Mac 2 end-view



Paed 1 end-view



Miller 2 end-view



Mac 2 side-view



Paed 1 side-view



Miller 2 side view

SANALON+ blades	Overall length	Distal width	
Mac 2	115mm	13mm	F-000.22.202
Mac 3a	145mm	15mm	F-000.22.213
Paed 1	95mm	13mm	F-000.22.221
Miller 2	155mm	13mm	F-000.22.232
Miller 4	212mm	13mm	F-000.22.234

Handle	2.5V
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Laryngoscope handle F.O. SP with bulb	F-001.22.815
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XHL Xenon Halogen spare bulb	X-001.88.035
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HEINE XP® Disposable Laryngoscope Blades

Eliminate cross-infection



XP Mac



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.

- ∴ **Extreme torsional stiffness**, practically unbreakable.
- ∴ **No danger of cross-infection.**
- ∴ **Hygienic and safe.**
- ∴ **Blade shape optimized** to ease the passage of the tube.
- ∴ **Optimum light transmission** by oversize light guide.
- ∴ **Extremely bright light** from the XHL Xenon Halogen bulb in the handle.
- ∴ Patient-friendly with **reduced risk of injury** or damage to teeth.
- ∴ **Blades do not "freeze"** or stick to the tongue at low temperatures.
- ∴ **XP blades conform to the rigorous ISO 7376** (green standard).
- ∴ **Cost-effective** compared with most reusable systems.



XP Miller 1 side-view



XP Mac 2 side-view

∴ Hygienic and safe

∴ Extremely bright light

∴ Torsional stiffness

XP blade	Overall length	Distal width	
Miller 0	80mm	10mm	F-000.22.771*
Miller 1	104mm	10mm	F-000.22.772*
Miller 2	155mm	13mm	F-000.22.773*
Miller 3	195mm	13mm	F-000.22.774*
Miller 4	221mm	14mm	F-000.22.775*
Mac 1	90mm	9mm	F-000.22.761*
Mac 2	114mm	10mm	F-000.22.762*
Mac 3	134mm	14mm	F-000.22.763*
Mac 4	154mm	14mm	F-000.22.764*

* 25 disposable blades individually packed in Dispenser Box.



HEINE XP® Disposable Laryngoscope Handle Shell

Eliminates cross-infection



The Disposable Laryngoscope Handle Shell with bottom cap is powered by the best-selling battery insert for HEINE F.O. handles. The battery insert can be removed from the handle shell after intubation without risk of contamination, when handled properly.

XP Disposable Laryngoscope Handle Shell with bottom cap

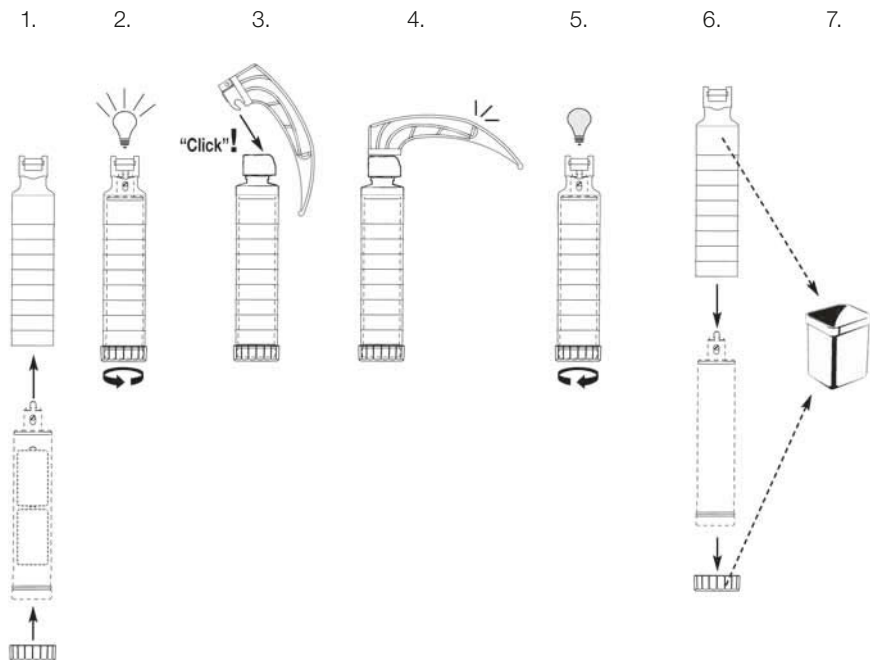
without battery insert, pack of 25

F-000.22.926

Battery insert for F.O. handles	2.5V	3.5V NiMH	3.5V LI ION
Battery insert* for Standard F.O. handles with bottom cap and XHL Xenon Halogen bulb	F-001.22.858	F-002.22.868	F-007.22.868*

XHL Xenon Halogen spare bulb	X-001.88.035	X-002.88.044	X-002.88.044
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* Standard F.O. and F.O. LED battery insert is incompatible with the XP handle shell.



The XP Disposable Handle Shell is designed to be the “outer shell” for a standard HEINE battery or rechargeable battery insert (2.5V or 3.5V Xenon Halogen). The HEINE battery insert is placed inside the XP disposable handle shell and the bottom cap is attached. By turning the bottom cap, the handle is turned on, delivering full Xenon Halogen illumination. After the procedure, the user simply unscrews the bottom cap, and slides the clean battery insert out, leaving just the cap, XP handle shell and XP laryngoscope blade to be disposed of.

HEINE Fiber Optic (F.O.) Laryngoscope Handles



HEINE F.O. laryngoscope handles with HEINE XHL® Xenon Halogen or LED bulb technology.

All 3.5V rechargeable handles are also available from HEINE with Lithium-Ion technology (except BETA SLIM and small F.O. Laryngoscope handles).

- ∴ **Compatible with Sterrad®** and other low-temperature gas plasma sterilisation procedures.
- ∴ **Double the capacity** - up to 120min. working time without recharging.
- ∴ **Lightweight and convenient.**
- ∴ **No more memory effect.** Full capacity whenever needed.
- ∴ The handle **can be powered by either 2.5V batteries or a 3.5V rechargeable battery** for even more light. (Exception: F.O. SP handle).
- ∴ **Rechargeable handles are always ready for use** and the rechargeable batteries are environmentally-friendly compared with standard batteries.
- ∴ **The handle shell can be sterilized or autoclaved while the battery insert is being charged.** (Exception: Short F.O. handle, F.O. angled handle and F.O. SP handle).
- ∴ **HEINE F.O. handles can be converted from battery to rechargeable specification.** (Exception: Short F.O. handle and F.O. SP handle.)
- ∴ **Compatible** with all blades to the ISO 7376 (green standard).

HEINE Standard F.O. L / F.O. L LED Laryngoscope Handle



Innovative 3,5V F.O. rechargeable Laryngoscope handle with charge indicator in the bottom cap **and the option of LED illumination.**

- ∴ **Rechargeable handle with charge status display in bottom cap.** The state of charge is indicated for 10 seconds after switching on or after removal from the charger.
- ∴ **Rechargeable handle option A:** Rechargeable handle including battery insert with XHL - Xenon-halogen bulb.
- ∴ **Rechargeable handle option B:** Rechargeable handle including battery insert with LED.
- ∴ **No memory effect.** Full power at any time without loss of capacity.
- ∴ **Update conventional F.O. Laryngoscope handles.** Simply change to Li-ion L rechargeable battery and Standard F.O. L bottom cap.
- ∴ **Compatible** with previous chargers NT200 and Nicatron.
- ∴ **Li-ion rechargeable battery for Standard F.O. L and Standard F.O. L LED rechargeable laryngoscope handles with charge status display.**
- ∴ **Ability to retrofit.** All Standard F.O. 3,5V rechargeable laryngoscope handles can be converted to Standard F.O. L and Standard F.O. L LED 3,5V rechargeable handles by fitting the Li-ion L rechargeable battery and bottom cap for Standard F.O. L / Standard F.O. L LED rechargeable 3,5V laryngoscope handles.
- ∴ **Two hours charging time with the NT 300 charger.**
- ∴ **Downwards compatible.** The Li-ion L rechargeable battery with BETA L/ Standard F.O. rechargeable handle can also be charged in existing NT200 and Nicatron chargers.
- ∴ **Please note:** The **Li-ion L** rechargeable battery (X-007.99.383) is not compatible with BETA rechargeable laryngoscope handles and bottom caps. The **Standard F.O. L** bottom cap is not compatible with the **Li-ion** rechargeable battery 3.5V (X-007.99.301).

∴ **Fast-Charge feature**

∴ **Charge status display**

 Rechargeable handle with charge status display in the bottom insert.



HEINE Fiber Optic (F.O.) Laryngoscope Handles

Fiber Optic and LED Laryngoscope Handles for more light



Standard F.O. Laryng. Handle	2.5V	3.5V NiMH	3.5V	3.5V/LED
Standard F.O. handle, compl. [01]	F-001.22.860	F-002.22.863	F-007.22.885	F-008.22.891
Battery insert without bottom cap [02]	F-001.22.859	F-002.22.859	F-002.22.859	F-008.22.890*
Bottom cap [03] [04]	F-001.22.861	F-002.22.867	F-002.22.887*	F-002.22.887*
Recharg. battery [05]	–	X-002.99.382	X-007.99.383	X-007.99.383
Handle shell [06]	F-000.22.824	F-000.22.824	F-000.22.824	F-000.22.824
Spare bulb	X-001.88.035	X-002.88.044	X-002.88.044	–
NT300 charger only (without handle)	–	X-002.99.495	X-002.99.495	X-002.99.495

* not compatible with XP Handle shell.



Small F.O. Laryngoscope handle	2.5V	3.5V NiMH
Small F.O. Handle, complete [01]	F-001.22.800	F-002.22.806
Battery insert with bottom cap [02]	F-001.22.802	F-002.22.802
Rechargeable battery [03]	–	X-002.99.106
Handle shell [04]	F-000.22.804	F-000.22.804
Spare bulb	X-001.88.035	X-002.88.044
NT300 charger only (without handle/without adaptor)	–	X-002.99.495
Two adaptor sets	–	X-000.99.086



Short F.O. Laryngoscope Handle	2.5V	3.5V NiMH
Short F.O. Handle, complete [01]	F-001.22.812	F-002.22.414
Rechargeable Battery [02]	–	X-002.99.393
Spare bulb	X-001.88.035	X-002.88.044
NT300 charger only (without handle)	–	X-002.99.495
Two adaptor sets	–	X-000.99.086



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).

F.O. Angled Handle	2.5V	3.5V NiMH	3.5V
F.O. Angled Handle, complete [01]	F-001.22.941	F-002.22.942	F-007.22.945
Bottom cap [02] [03]	X-000.99.119	X-002.99.412	F-007.22.947
Rechargeable Battery [04]	–	X-002.99.382	X-007.99.383
Spare bulb	X-001.88.035	X-002.88.044	X-002.88.044
NT300 charger only (without handle)	–	X-002.99.495	X-002.99.495



Cost-effective high quality battery handle with SANALON connector.

F.O. SP Laryngoscope handle	2.5V
F.O. SP Handle, complete [01]	F-001.22.815
Spare bulb	X-001.88.035

: Rechargeable handle with LED charge status display in the bottom insert.

HEINE NT 300® Charger and Adaptors



Fast charge capability

Automatic Charging

Charge indicator

Dimensions: Width 142 mm, Height 61 mm, Depth 66 mm, Weight 830 g.
The NT 300 charger automatically charges any HEINE rechargeable battery irrespective of its state of charge or output voltage. The rechargeable battery cannot be overcharged. With the appropriate adaptor set it is possible to recharge all BETA L, BETA NT, BETA SLIM rechargeable handles and all laryngoscope rechargeable handles in the same NT 300.

HEINE F.O. rechargeable laryngoscope handles can be recharged with or without the handle shell in place. The bulbs in all handles are clearly marked to distinguish between 2.5V and 3.5V systems.

HEINE handles and chargers conform to international standards including IEC 60601-1, DIN 58870, ASTM F 1195-88, ISO 7376 (green standard).

- ∴ **Innovative, compact design. Practical and spacesaving.**
- ∴ **Two independent charging compartments.** Complete functionality for one or two handles at a time.
- ∴ **Fast charge feature.** 2 hours to recharge a BETA L/Standard F.O. L 3.5V, rechargeable Laryngoscope handle with Li-ion L rechargeable battery. 4 hours for other rechargeable handles.
- ∴ **Automatic charging.** Independent of the state of charge of the rechargeable battery. Guarantees extended battery life.
- ∴ **Cannot overcharge:** Charger switches off automatically when the battery is fully-charged.
- ∴ **Charge indicator:** Light pulses from the charging compartment to confirm the charging mode. At full charge the light stays on and reduces in brightness after 4 hours in the standby mode.
- ∴ **Compatible with all HEINE F.O. rechargeable laryngoscope handles.**

NT 300 Charger	3.5V
Charger without handle, with adaptor for Standard F.O./Laryngoscopes handles [03]	X-002.99.495
Two adaptor sets for Small F.O. Laryngoscopes rechargeable handle [01] + [02]	X-000.99.086

Adaptor- and Adaptor sleeves for NT 300

- [01] For the small F.O. battery insert.
- [02] For the small F.O. Laryngoscope handle.
- [03] For the Standard F.O. battery insert and F.O. angled handle 3.5V.
(Also for BETA F.O. NT2 rechargeable laryngoscope handles and BETA rechargeable handles for diagnostic instruments.)
Use without Adaptor for Standard F.O. Laryngoscope handle.



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

Set with Paed 1, Mac 2, Mac 3 blades and spare bulb, in zipper case:



(A sample laryngoscope set)

Kombi-case F-179.00.000 (empty case)
With the Kombi-case you can assemble
a personal laryngoscope set to suit your
personal needs.

Classic+ Sets	2.5V	3.5V NiMH	3.5V LI ION L
with Standard F.O. battery handle	F-119.10.860		
with Standard F.O. rechargeable handle with NiMH battery and NT 300 charger		F-119.20.865	
with Standard F.O. L rechargeable handle with Li-ion L battery and NT 300 charger			F-119.29.865

Set with Paed 1, Mac 2, Mac 3, Mac 4 blades and spare bulb, in zipper case:

Classic+ Sets	2.5V	3.5V NiMH	3.5V LI ION L
with Standard F.O. battery handle	F-120.10.860		
with Standard F.O. rechargeable handle with NiMH battery and NT 300 charger		F-120.20.865	
with Standard F.O. L rechargeable handle with Li-ion L battery and NT 300 charger			F-120.29.865

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

FlexTip+ F.O. Laryngoscope Set with blade Mac 3 and spare XHL Xenon Halogen bulb, in case:



FlexTip+ Sets	2.5V	3.5V NiMH	3.5V LI ION L
with Standard F.O. battery handle	F-227.10.860		
with Standard F.O. rechargeable handle with NiMH battery and NT 300 charger		F-227.20.865	
with Standard F.O. L rechargeable handle with Li-ion L battery and NT 300 charger			F-227.29.865

FlexTip+ F.O. Laryngoscope Set with blade Mac 4 and spare XHL Xenon Halogen bulb, in case:

FlexTip+ Sets	2.5V	3.5V NiMH	3.5V LI ION L
with Standard F.O. battery handle	F-229.10.860		
with Standard F.O. rechargeable handle with NiMH battery and NT 300 charger		F-229.20.865	
with Standard F.O. L rechargeable handle with Li-ion L battery and NT 300 charger			F-229.29.865

: Rechargeable handle with charge status display in the bottom insert.

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



FlexTip+ F.O. Laryngoscope Set with blades Mac 3, Mac 4 and spare XHL Xenon Halogen bulb, in case:

FlexTip+ Sets	2.5V	3.5V NiMH	3.5V LI ION L
with Standard F.O. battery handle	F-230.10.860		
with Standard F.O. rechargeable handle with NiMH battery and NT 300 charger		F-230.20.865	
with Standard F.O. L rechargeable handle with Li-ion L battery and NT 300 charger			F-230.29.865
Case for FlexTip+ F.O. Laryngoscope Sets F-227, F-229 or F-230 Mac 3 and Mac 4, in case			F-227.01.000 F-000.22.316

HEINE MacModular+® Fiber Optic (F.O.) Laryngoscope Sets



Set complete with F.O. Modular+ blade Mac 1, Mac 2, Mac 3 and Mac 4 and spare XHL Xenon Halogen bulb, in zipper case:

Modular + Sets	2.5V	3.5V NiMH	3.5V LI ION L
with Standard F.O. battery handle	F-228.10.860		
with Standard F.O. rechargeable handle with NiMH battery and NT 300 charger		F-228.20.865	
with Standard F.O. L rechargeable handle with Li-ion L battery and NT 300 charger			F-228.29.865

HEINE SANALON+® Emergency Laryngoscope Sets



SANALON+ Emergency Laryngoscope Set with blades Paed 1, Mac 2 and Mac 3a, spare XHL Xenon Halogen bulb, F.O. SP handle 2.5V, two alkaline batteries, in case **F-155.10.815**

SANALON+ Emergency Laryngoscope Set with blades Mac 2 and Mac 3a, F.O. SP handle 2.5V, two alkaline batteries, in zipper pouch **F-158.10.815**

SANALON+ Emergency Laryngoscope Set with blades Paed 1 and Mac 3a, F.O. SP handle 2.5V, two alkaline batteries, in zipper pouch **F-163.10.815**



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 F.O. SP handle and replaceable batteries.

- ⋆ **XP disposable blades effectively avoid cross-infection.**
- ⋆ **Hygienic and safe.**
- ⋆ **Perfected blade shape:** Simplifies intubation.
- ⋆ **Extremely bright light from XHL Xenon Halogen bulb.** The light is directed precisely on to the epiglottis and vocal cords.
- ⋆ **HEINE XHL® Xenon Halogen Technology** for up to 40 % more light than conventional halogen bulbs.
- ⋆ **Can be used under all conditions.**
- ⋆ **Blades do not “freeze”** or stick to the tongue at low temperatures.
- ⋆ **The blades are designed to minimize the likelihood of damage** to teeth.
- ⋆ **Virtually unbreakable** in normal use and torsionally-stiff.
- ⋆ **Non-slip handle design.**
- ⋆ **Lightweight and compact.**
- ⋆ **XP blades conform to the ISO Standard ISO 7376 (green standard).**
- ⋆ **Exceptional value.**

XP Emergency Set	2.5V
with blades Miller 0, Miller 1, Mac 2, Mac 3, Mac 4, F.O. SP handle 2.5V, two alkaline batteries, in case	F-257.10.815

XP* Blades	Overall Length	Distal Width	
Miller 0	80mm	10mm	F-000.22.771*
Miller 1	104mm	10mm	F-000.22.772*
Mac 2	114mm	10mm	F-000.22.762*
Mac 3	134mm	14mm	F-000.22.763*
Mac 4	154mm	14mm	F-000.22.764*

* 25 disposable blades individually packed in Dispenser Box.

XP Emergency Set Accessories	2.5V
F.O. SP Laryngoscope handle 2.5V, with bulb	F-001.22.815
XHL Xenon Halogen spare bulb for F.O. SP handle	X-001.88.035
Refill assortment of 5 XP blades, Miller 0, 1, Mac 2, 3, 4 (one each, 5 pieces in total)	F-000.22.740