



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.

For the first time 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 2.5V 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 7376-3/EN 1819 (green standard).

*4000 standard autoclave cycles of 134°C (273°F) /5 min. with more than 1000 lux.

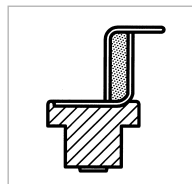
HEINE Classic+® Macintosh Fiber Optic Blades

Innovative Fiber Optic Technology for advanced performance



- **HEINE HiLite® fiber bundle** with 4.3 mm 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 7376-3/EN 1819 (green standard).

* 4000 standard autoclave cycles of 273°F/5 min. with more than 1000 lux.



Mac 3 end-view



Mac 3 side-view



Size	Overall length	Distal width	
Mac 0	82 mm	9 mm	F-00.22.100
Mac 1	93 mm	11 mm	F-00.22.101
Mac 2	115 mm	13 mm	F-00.22.102
Mac 3 m (stronger curve)	135 mm	15 mm	F-00.22.143
Mac 3	135 mm	15 mm	F-00.22.103
Mac 4	155 mm	15 mm	F-00.22.104
Mac 5	176 mm	15 mm	F-00.22.105

HEINE Classic+® Miller, WIS and Paed Fiber Optic Blades

Innovative Fiber Optic Technology for advanced performance

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

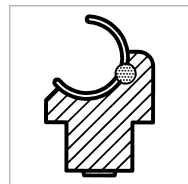


- ∴ The **Miller Classic+ F.O.** blades with **improved geometry** simplify intubation. The shortened shoulder of the blade dramatically improves the anesthetist's view of the epiglottis and vocal cords. The distal lip of the blade features a special atraumatic shape.
- ∴ **HEINE XHL® Xenon Halogen Technology** 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 7376-3/EN 1819 (green standard).
- ∴ **HEINE Paed laryngoscopes** have been developed specifically for the intubation of neo-nates and infants.

* 4000 standard autoclave cycles of 273°F/5 min. with more than 1000 lux.



Miller 2 end-view



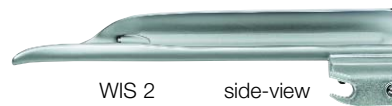
WIS 2 end-view



Paed 1 end-view



Miller 2 side-view



WIS 2 side-view



Paed 1 side-view

Size	Overall length	Distal width	
Miller 00 (not shown)	76 mm	9.5 mm	F-00.22.119
Miller 0	80 mm	10.5 mm	F-00.22.120
Miller 1	100 mm	11.5 mm	F-00.22.121
Miller 2	152 mm	13 mm	F-00.22.122
Miller 3	192 mm	13 mm	F-00.22.123
Miller 4	207 mm	15.9 mm	F-00.22.124
WIS 1	110 mm	13 mm	F-00.22.131
WIS 2	130 mm	16 mm	F-00.22.132
WIS 3	160 mm	16 mm	F-00.22.133
Paed 0	82 mm	12 mm	F-00.22.110
Paed 1	95 mm	13 mm	F-00.22.111



HEINE Mac Modular+® Fiber Optic 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 screw-driver. 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 guarantee*.
- ∴ 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 7376-3/EN 1819 (green standard).

* 4000 standard autoclave cycles of 273°F/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	95 mm	12 mm
Mac 2	114 mm	15 mm
Mac 3	133 mm	15 mm
Mac 4	156 mm	15 mm

Size	F.O. Modular+ blade, complete	Blade module, metal	F.O. Light module
Mac 1	F-00.22.501	F-00.22.531	F-00.22.561
Mac 2	F-00.22.502	F-00.22.532	F-00.22.562
Mac 3	F-00.22.503	F-00.22.533	F-00.22.563
Mac 4	F-00.22.504	F-00.22.534	F-00.22.564

HEINE Miller Modular+® Fiber Optic 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 guarantee***.
- ∴ Blade with **quickly-detachable fiber optic light module**.
- ∴ **Blade and light modules both autoclavable up to 273°F/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 7376-3/EN 1819 (green standard).

* 4000 standard autoclave cycles of 273°F/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	76 mm	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-00.22.510	F-00.22.540	F-00.22.570
Miller 1	F-00.22.511	F-00.22.541	F-00.22.571
Miller 2	F-00.22.512	F-00.22.542	F-00.22.572
Miller 3	F-00.22.513	F-00.22.543	F-00.22.573
Miller 4	F-00.22.514	F-00.22.544	F-00.22.573

HEINE FlexTip+® Fiber Optic 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 4.3 mm 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.
- ∴ **Swiveling 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

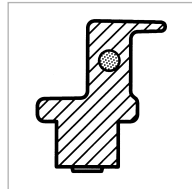


Mac 3	F-00.22.313
Mac 4	F-00.22.314
Mac 3 and Mac 4	F-00.22.316

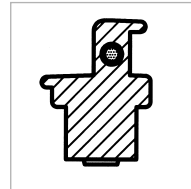
HEINE SANALON+® Fiber Optic Laryngoscope Blades
Reusable Emergency Laryngoscope Blades



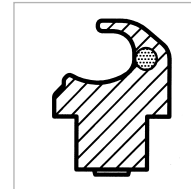
- ∴ Reusable F.O. laryngoscope blade made of tough, durable **SANALON**.
- ∴ **HEINE HiLite® fiber bundle** for improved light transmission and longer life.
- ∴ **HEINE XHL® Xenon Halogen Technology** for up to 40% more light than conventional halogen bulbs.
- ∴ **Tremendous strength with low weight.**
- ∴ 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		2.5 V
Mac 2	115 mm	13 mm	F-00.22.202	
Mac 3 a	145 mm	15 mm	F-00.22.213	
Paed 1	95 mm	13 mm	F-00.22.221	
Miller 2	155 mm	13 mm	F-00.22.232	
Miller 4	212 mm	13 mm	F-00.22.234	
Handle				
Laryngoscope handle F.O. SP with bulb				F-01.22.815
XHL Xenon Halogen spare bulb				X-01.88.035



HEINE XP® Disposable Laryngoscope Blades

Eliminates cross-infection



XP Mac

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 7376-3/EN 1819** (green standard).
- ✦ **Cost-effective** compared with most reusable systems.
- ✦ **100% Latex Free.** Both blades and packaging are Latex Free.



XP Miller



XP Miller 1 side-view



XP Mac 2 side-view

XP blade	Overall length	Distal width	
Miller 0	80 mm	10 mm	F-00.22.771*
Miller 1	104 mm	10 mm	F-00.22.772*
Miller 2	155 mm	13 mm	F-00.22.773*
Miller 3	195 mm	13 mm	F-00.22.774*
Miller 4	221 mm	14 mm	F-00.22.775*
Mac 1	90 mm	9 mm	F-00.22.761*
Mac 2	114 mm	10 mm	F-00.22.762*
Mac 3	134 mm	14 mm	F-00.22.763*
Mac 4	154 mm	14 mm	F-00.22.764*

* 25 disposable blades individually packed in Dispenser Box.

HEINE XP® Disposable Laryngoscope Handle Shell

Eliminates cross-infection



The design of 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.

3.5V NiMH rechargeable batteries replace all 3.5V NiCd rechargeable batteries!
NiMH batteries: ✦ 30 % more capacity
 ✦ Environmentally-friendly

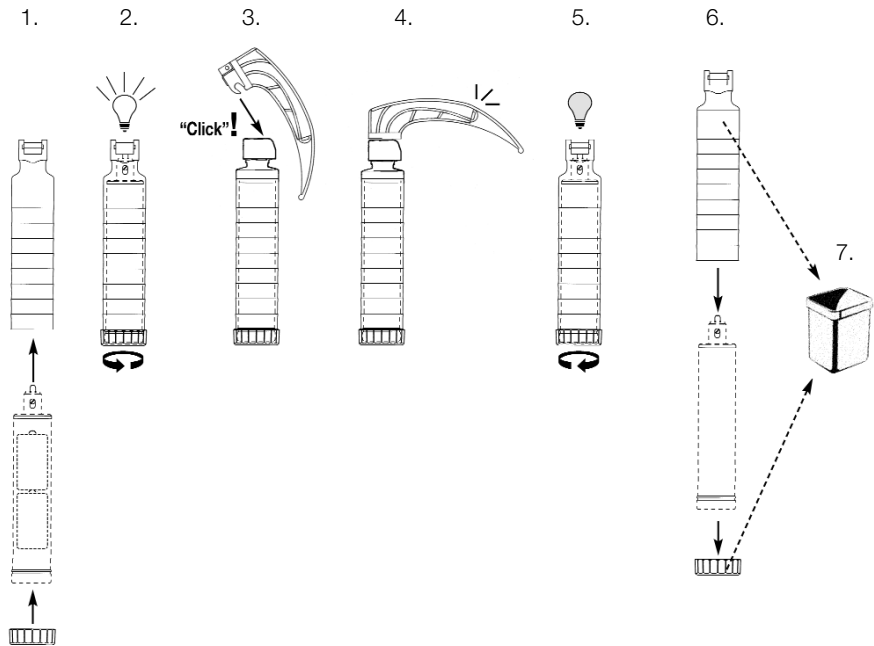
XP Disposable Laryngoscope Handle Shell

with bottom cap (without battery insert, pack of 25)

F-00.22.926

	2.5 V	3.5 V
Battery insert for F.O. handles with bottom cap and XHL Xenon Halogen bulb, for standard batteries	F-01.22.858	
Rechargeable battery insert for F.O. handles with bottom cap XHL Xenon Halogen bulb and NiMH rechargeable battery (rechargeable in NT 200 charger)		F-02.22.868
Rechargeable battery insert for F.O. handles with bottom cap XHL Xenon Halogen bulb and Li-ion rechargeable battery (rechargeable in NT 200 charger)		F-07.22.868
XHL Xenon Halogen spare bulb for battery insert	X-01.88.035	
same, for rechargeable battery insert		X-02.88.044

LI ION



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 F.O. Laryngoscope Handles

Fiber Optic Laryngoscope Handles for more light

HEINE F.O. laryngoscope handles with HEINE XHL® Xenon Halogen bulb technology for up to 40% more light.

LI ION

All 3.5V rechargeable handles are now available from HEINE with Lithium-Ion technology, except alpha+, BETA SLIM and small F.O. Laryngoscope handles.

- ∴ **Double the capacity** - up to 120min working time without recharging.
- ∴ **Lightweight and convenient.**



- ∴ **No more memory effect.** Full capacity whenever needed.

3.5V NiMH rechargeable batteries replace all 3.5V NiCd rechargeable batteries!

- NiMH batteries: ∴ **30% more capacity**
- ∴ **Environmentally-friendly**



- ∴ The handle **can be powered by either 2.5V batteries or a 3.5V rechargeable battery** for even more light. (Exception: short F.O. handle and F.O. SP).
- ∴ **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 and F.O. angled handle, BETA, F.O. SP.)
- ∴ **HEINE F.O. handles can be converted from battery to rechargeable specification.** (Exception: short F.O. handle, F.O. SP.)
- ∴ **Compatible** with all handles to the ISO 7376-3/EN 1819 (green standard).



Standard F.O. Handle	2.5 V
Standard F.O. handle for two C batteries, complete	F-01.22.860
XHL Xenon Halogen spare bulb	X-01.88.035
Battery insert for standard F.O. handle with bottom cap	F-01.22.858
Handle shell for standard F.O. handle	F-00.22.824
Bottom cap	F-01.22.861



Standard F.O. NT Rechargeable Handle	3.5 V
Standard F.O. NT rechargeable handle with NiMH battery, complete	F-02.22.863
same, with Li-ion rechargeable battery	F-07.22.863
XHL Xenon Halogen spare bulb	X-02.88.044
Battery insert for standard F.O. NT rechargeable handle complete with NiMH rechargeable battery and Bottom cap	F-02.22.868
same, with Li-ion rechargeable battery and Bottom cap	F-07.22.868
NiMH rechargeable battery for standard F.O. NT rechargeable handle	X-02.99.382
Li-ion rechargeable battery for standard F.O. NT rechargeable handle	X-07.99.381
Handle shell for standard F.O. NT rechargeable handle	F-00.22.824
Bottom cap	F-02.22.867
NT 200 charger only (without handle, with adaptor)	X-00.99.403



Small F.O. Battery Handle	2.5 V
Small F.O. battery handle for two AA batteries, complete	F-01.22.800
XHL Xenon Halogen spare bulb	X-01.88.035
Battery insert for small F.O. battery handle with bottom cap	F-01.22.802
Handle shell for small F.O. battery handle	F-00.22.804

HEINE F.O. Laryngoscope Handles

Fiber Optic Laryngoscope Handles for more light

D



Small F.O. Rechargeable Handle		3,5 V
Small F.O. rechargeable handle, complete		F-02.22.806
XHL Xenon Halogen spare bulb		X-02.88.044
Battery insert for small F.O. NT rechargeable handle without rechargeable battery		F-02.22.802
NiMH rechargeable battery for small F.O. rechargeable handle		X-02.99.106
Handle shell for small F.O. rechargeable handle		F-00.22.804
NT 200 charger, with adaptor		X-00.99.413

E



Short F.O. Handle		2,5 V
Short F.O. handle for two AA batteries, complete		F-01.22.812
XHL Xenon Halogen spare bulb		X-01.88.035

F



F.O. Angled Handle		2,5 V	3,5 V
F.O. angled handle for two C batteries, complete		F-01.22.941	
F.O. NT angled handle with NiMH battery, complete			F-02.22.942
same, with Li-ion rechargeable battery			F-07.22.942
XHL Xenon Halogen spare bulb		X-01.88.035	X-02.88.044
NiMH rechargeable battery for F.O. NT angled rechargeable handle			X-02.99.382
Li-ion rechargeable battery for F.O. NT angled rechargeable handle			X-07.99.381
Bottom cap		X-00.99.119	X-02.99.412
NT 200 charger, without handle			X-00.99.403

The Fiber Optics 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. SP Laryngoscope Handle		2,5 V
Cost-effective high quality battery handle with SANALON connector		
F.O. SP Laryngoscope handle with XHL Xenon Halogen bulb		F-01.22.815
XHL Xenon Halogen spare bulb		X-01.88.035



HEINE BETA® F.O. Laryngoscope Handle System

Modular Handle System with multiple Charging Options

The BETA F.O. Laryngoscope Handle System lets you combine all the components of the BETA diagnostic handle range with the laryngoscope handle module F-00.22.012.



All 3,5V rechargeable handles are now available from HEINE with Lithium-Ion technology, except small F.O. Laryngoscope handles.

- ∴ **Double the capacity** - up to 120min working time without recharging.
- ∴ **Lightweight and convenient.**
- ∴ **No more memory effect.** Full capacity whenever needed.



3.5V NiMH rechargeable batteries replace all 3.5V NiCd rechargeable batteries!

- NiMH batteries:**
- ∴ **30 % more capacity**
 - ∴ **Environmentally-friendly**



- ∴ **Simplified design concept.** Economically-priced.
- ∴ **Modular construction.** Handle can be upgraded from 2.5V to 3.5V if required.
- ∴ **Autoclavable handle module.** Hygienic and safe.
- ∴ **HEINE XHL® Xenon Halogen Technology** 40% brighter light than conventional halogen bulbs.
- ∴ **Compatible** with all handles to the ISO 7376-3/EN 1819 (green standard).

BETA F.O. Laryngoscope Handles	2.5 V	3.5 V
BETA F.O. laryngoscope battery handle, complete	F-01.22.117	
Bulbholder for BETA F.O. laryngoscope battery handle, with bulb	F-01.22.011	
BETA F.O. rechargeable laryngoscope handle (NiMH) R2 for mains socket		F-02.22.377
same, with Li-ion rechargeable battery		F-07.22.377
BETA F.O. rechargeable laryngoscope handle (NiMH) NT2 for NT 200 charger		F-02.22.412
same, with Li-ion rechargeable battery		F-07.22.412
NiMH rechargeable battery for BETA F.O. rechargeable laryngoscope handle		X-02.99.382
Li-ion rechargeable battery for BETA F.O. rechargeable laryngoscope handle		X-07.99.381
Bulbholder for BETA F.O. rechargeable laryngoscope handle, with bulb		F-02.22.011
XHL Xenon Halogen spare bulb	X-01.88.035	X-02.88.044
BETA F.O. laryngoscope handle module without bulbholder		F-00.22.012
Bottom insert for BETA F.O. laryngoscope battery handle		X-00.99.119
Bottom insert for BETA F.O. rechargeable laryngoscope handle R2		X-02.99.377
Bottom insert for BETA F.O. rechargeable laryngoscope handle NT2		X-02.99.412



Bulbholder with bulb

HEINE NT 200® Charger and Adaptors

One Charger for many Handles



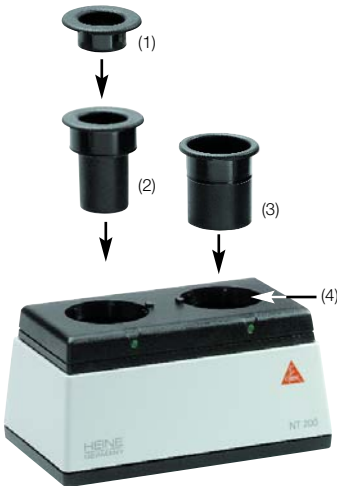
HEINE F.O. rechargeable laryngoscope handles can be recharged with or without the handle shell in place, except BETA F.O. handles. The bulbs in all handles are clearly marked to distinguish between 2.5V and 3.5V systems. HEINE handles and chargers conform to international standards including IEC 60601-1, DIN 58870, ASTM F 1195-88, ISO 7376-3/EN 1819 (green standard).

NT 200 – the first charger which can recharge both large and small handles simultaneously. (See adaptor – and adaptor sleeves below.)

Dimensions: Width 130 mm, Height 60 mm, Depth 75 mm, Weight 400 g.

Charger NT 200

Charger NT 200 without handle, with adaptor (see (3) below)	X-00.99.403
Charger NT 200 without handle, with adaptor sleeves (see (1) and (2) below)	X-00.99.413



Adaptor- and Adaptor sleeves for NT 200

- (1) For the small F.O. rechargeable handle without handle shell.
- (2) For the small F.O. rechargeable handle with handle shell.
- (3) For the standard F.O. NT 3.5 V rechargeable handle without handle shell and BETA F.O. NT 2 rechargeable laryngoscope handles. (Also for BETA rechargeable handles for diagnostic instruments.)
- (4) For the standard F.O. NT 3.5 V rechargeable handle with handle shell.

Ordering-Information: If not otherwise specified, the NT 200 charger is supplied with the large adaptor (3) fitted. If ordered together with the small F.O. rechargeable handle, the charger is supplied with the appropriate adaptor sleeves (1) + (2) fitted. Adaptors and adaptor sleeves can be supplied on demand to enable users to adapt existing NT 200 chargers.

Adaptor and Adaptor sleeves for NT 200

Large adaptor (3) (1 set = 2 pcs.)	X-00.99.080
Adaptor sleeve (1) + (2) (1 set = 2 pcs.)	X-00.99.081



HEINE Classic+® Fiber Optic Laryngoscope Sets



(A sample laryngoscope set)

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

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

	2.5 V	3.5 V
with standard F.O. battery handle	F-119.10.860	
with standard F.O. NT rechargeable handle with NiMH battery and NT 200 charger		F-119.20.865
with standard F.O. NT rechargeable handle with Li-ion battery and NT 200 charger		F-119.27.865

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

	2.5 V	3.5 V
with standard F.O. battery handle	F-120.10.860	
with standard F.O. NT rechargeable handle with NiMH battery and NT 200 charger		F-120.20.865
with standard F.O. NT rechargeable handle with Li-ion battery and NT 200 charger		F-120.27.865

HEINE FlexTip+® Fiber Optic Laryngoscope Blade Sets



Spare bulb
not included

FlexTip+ F.O. Laryngoscope Set with blade Mac 3,
in case:

	2.5 V	3.5 V
with standard F.O. battery handle	F-227.10.860	
with standard F.O. NT rechargeable handle (NiMH) and NT 200 charger		F-227.20.865
as above, with Li-ion battery		F-227.27.865

FlexTip+ F.O. Laryngoscope Set with blade Mac 4,
in case:

	2.5 V	3.5 V
with standard F.O. battery handle	F-229.10.860	
with standard F.O. NT rechargeable handle (NiMH) and NT 200 charger		F-229.20.865
as above, with Li-ion battery		F-229.27.865



Spare bulb
not included

FlexTip+ F.O. Laryngoscope Set with blades Mac 3, Mac 4,
in case:

	2.5 V	3.5 V
with standard F.O. battery handle	F-230.10.860	
with standard F.O. NT rechargeable handle (NiMH) and NT 200 charger		F-230.20.865
as above, with Li-ion battery		F-230.27.865

Case for FlexTip+ F.O. Laryngoscope Sets
F-227, F-229 or F-230

Mac 3 and Mac 4 **F-227.01.000**

F-00.22.316

HEINE Mac Modular+® Fiber Optic Laryngoscope Sets



Set complete with F.O. Modular+ blade Mac 1, Mac 2, Mac 3 and Mac 4, standard F.O. battery handle 2.5 V, in zipper case

F-228.10.860

Set complete with F.O. Modular+ blade Mac 1, Mac 2, Mac 3 and Mac 4, standard F.O. NT 3.5 V rechargeable handle and NT 200 charger, in zipper case
same, with Li-ion battery

F-228.20.865

F-228.27.865

HEINE SANALON+® Emergency Laryngoscope Sets



SANALON+ Emergency Laryngoscope Set with blades Paed 1, Mac 2 and Mac 3a, F.O. SP handle 2.5 V, two alkaline batteries, in case (shown)

F-155.10.815

SANALON+ Emergency Laryngoscope Set with blades Mac 2 and Mac 3a, F.O. SP handle 2.5 V, two alkaline batteries, in zipper pouch (not shown)

F-158.10.815

SANALON+ Emergency Laryngoscope Set with blades Paed 1 and Mac 3a, F.O. SP handle 2.5 V, two alkaline batteries, in zipper pouch (not shown)

F-163.10.815



HEINE XP® Emergency Set with XP Disposable Blades



Specially-developed for emergency use featuring the new 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 7376-3/EN 1819 (green standard).**
- : **Exceptional value.**

XP Emergency Set with blades Miller 0, Miller 1, Mac 2, Mac 3, Mac 4, F.O. SP handle 2.5 V, in hard case (pictured) **F-257.10.815**

Refill assortment of 5 XP blades,
Miller 0, 1, Mac 2, 3, 4 (one each, 5 pieces in total) **F-00.22.740**

XP Set with blades Miller 0, Miller 1, Miller 2, Miller 3, Miller 4, Mac 1, Mac 2, Mac 3, Mac 4, BETA F.O. handle 2.5 V, in nylon zipper case (not pictured) **F-181.10.117**

XP Set with blades Miller 0, Miller 1, Miller 2, Miller 3, Miller 4, Mac 1, Mac 2, Mac 3, Mac 4, F.O. SP handle 2.5 V, in nylon zipper case (not pictured) **F-181.10.815**

Refill assortment of 9 XP blades,
Miller 0, 1, 2, 3, 4, Mac 1, 2, 3, 4 (one each, 9 pieces in total) **F-00.22.783**

XP Blades	Overall Length	Distal Width	
Miller 0	80 mm	10 mm	F-00.22.771*
Miller 1	104 mm	10 mm	F-00.22.772*
Mac 2	114 mm	10 mm	F-00.22.762*
Mac 3	134 mm	14 mm	F-00.22.763*
Mac 4	154 mm	14 mm	F-00.22.764*

* 25 disposable blades individually packed in Dispenser Box.