# Original handles. Original power sources. Original bulbs. 100% HEINE.



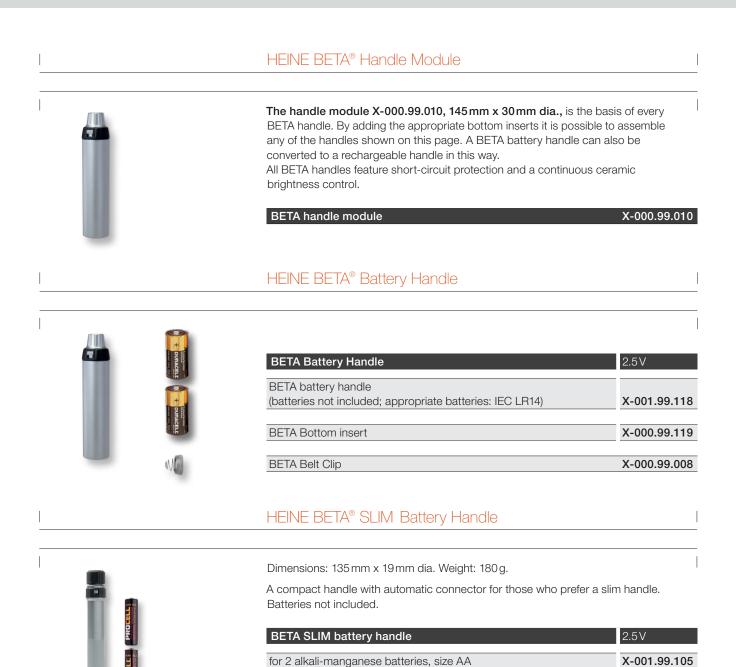


# HEINE BETA® 4 Handle Range – Next-generation energy management

- : One handle for all applications: A well thought out range combines everybody's needs and all technologies. Choice of power sources from basic alkaline batteries up to latest Li-ion technology.
- : 4 handle options:
- BETA drycell handle

BETA4 USB rechargeable handle with USB cord and medical approved plug-in power supply
BETA4 NT and BETA4 SLIM NT rechargeable handle for NT4 Table Charger

- : Compatibility during your entire career. The BETA4 Rechargeable Handles are compatible with all 3.5V XHL and LED HEINE instruments.
- : Complete freedom of choice: One basic handle for any situation. Decide between dry-cell or rechargeable; enhanced mobility with USB charging or convenient desk charging in the HEINE NT4 Table Charger.





#### Next-generation energy management

- : High-quality metal construction for strength and durability.
- : Exclusive Automatic Connector with locking design. No metal on metal friction which can wear out over time, for a secure fit for the lifetime of your instruments.
- : Deep Battery Discharge Protection: Integrated safety system protects your investment by preventing batteries from completely draining; thus ensuring maximum battery life.
- : Familiar brigthness control: Rheostat for continuous brightness control with power level indicator.
- : Li-ion technology: no "memory effect". Charge your handle how you like without worrying about charge level or battery condition.
- : Extended ON time: work typ. 6 weeks between recharging with LED instruments.
- : Quick charge.
- : Slightly knurled finish of the handle provides a non-slip grip but is easy to clean and disinfect.
- : Charge Status Indicator in the bottom insert: the indicator shines orange if the battery needs to be recharged. In the BETA4 USB Handle the indicator blinks green during the charging process and shines permanently green as soon as it is fully charged.

#### BETA 4 NT rechargeable handle for NT4 table charger

: Ready-to-use Function. Handles switch ON & OFF automatically when placed into charger. Set your desired brightness level once and it stays there every time you use your instrument. Also prevents battery damage and premature bulb burn outs if the instruments are accidentally left on.

	3.5V Li-ion
Rechargeable handle complete with Li-ion rechargeable battery and	
BETA4 NT bottom insert	X-007.99.396
BETA4 NT bottom insert	X-002.99.394
Li-ion rechargeable battery for BETA 4 rechargeable handle	X-007.99.383
BETA Belt Clip [01]	X-000.99.008

#### BETA4 USB Li-ion rechargeable handle

: Maximum safety. You can charge your HEINE BETA 4 USB handle with any USB plug or other USB power source, with absolute peace of mind. The BETA4 USB handle has an integrated, exclusive Galvanic Separation Module that protects the handle, and the user, even if a faulty or inferior plug is used; thus preventing the possibility of the full mains voltage flowing directly to the handle. We do however recommend the use of a medical approved plug-in power supply.

	3.5V Li-ion
Rechargeable handle complete with Li-ion rechargeable battery,	
BETA4 USB bottom insert, USB cord with medical approved plug-in	
power supply and handle rest	X-007.99.388
Rechargeable handle complete with Li-ion rechargeable battery and	
BETA4 USB bottom insert (without additional accessories)	X-007.99.387
Li-ion rechargeable battery for BETA4 rechargeable handle	X-007.99.383
BETA4 USB bottom insert	X-002.99.395
USB Cord [01] with E4-USB plug-in power supply [02]	X-000.99.303
E4-USB Medical approved plug-in power supply [02]	X-000.99.305
BETA Belt Clip	X-000.99.008



# EXCLUSIVELY AT HEINE

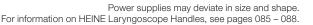
- Exclusive Automatic Connector
- Li-ion technology
- Charge Status Indicator
- · USB flexible and convenient
- charging option













### HEINE BETA® 4 SLIM NT Rechargeable Handle



Dimensions: 135 mm x 19 mm dia. Weight: 180 g.

A compact handle with automatic connector for those who prefer a slim handle. Rechargeable in NT4 table charger fitted with the small adaptor ring.

BETA4 SLIM NT rechargeable handle	3.5V Li-ion
Rechargeable handle complete with rechargeable battery M3Z 4 NT Li-ion and BETA4 SLIM NT bottom insert	X-007.99.474
BETA4 SLIM NT bottom insert Rechargeable battery M3Z 4 NT Li-ion	X-000.99.110 X-007.99.380

#### HEINE® NT 4 Table Charger



Dimensions: Width 142 mm, Height 61 mm, Depth 66 mm.

With the appropriate adaptor set all BETA4 NT and BETA4 SLIM NT rechargeable handles can be charged in the NT4 table charger. The same applies to all Standard F.O. 4 NT, F.O. 4 SLIM NT and F.O. 4 SHORT NT laryngoscope rechargeable handles.

- : Innovative, compact design. Practical and space-saving.
- : Two independent charging wells. Complete functionality for one or two handles at a time.
- : Automatic charging. Independent of the state of charge of the rechargeable battery. Guarantees extended battery life.
- : Cannot be overcharged. Charger switches off automatically when the battery is fully charged.
- : Charge status indicator. Light pulses from the charging well to confirm the charging mode. Continuous light indicates that the charging process has been completed.

NT4 table charger	
without handle, with adaptor. For BETA4 NT rechargeable handles,	
Standard F.O. 4 NT and F.O. 4 SHORT NT laryngoscope	
rechargeable handles. BETA 4 SLIM NT rechargeable handles	
and F.O. 4 SLIM NT laryngoscope rechargeable handles	
(Adaptor set required X-000.99.086).	X-002.99.494
Adaptor set (two pieces) for BETA4 SLIM NT rechargeable handles	
and F.O. 4 SLIM NT laryngoscope rechargeable handles [01]	X-000.99.086



# HEINE BETA® Rechargeable Handles

#### Handle Range for NT300 Table Charger

#### **PLEASE NOTE:**

All the rechargeable handles shown here are only compatible with the systems of the previous generation and the NT300 table charger. Not suitable for BETA4 rechargeable handles.

BETA L Li-ion rechargeable handle	3.5V Li-ion L
Rechargeable handle complete with Li-ion rechargeable battery and bottom insert	X-007.99.395
BETA L Bottom insert with charge status indicator	X-002.99.396
Li-ion rechargeable battery for BETA L rechargeable handle	X-007.99.383

BETA NT NiMH rechargeable handle	3.5V NiMH
Rechargeable handle complete with NiMH rechargeable battery	<u>x x x x x x x </u>
and bottom insert	X-002.99.411
BETA NT Bottom insert	X-002.99.412
NiMH rechargeable battery for BETA NT rechargeable handle	X-002.99.382

BETA SLIM NiMH rechargeable handle	3.5V NiMH
135 mm x 19 mm Ø, rechargeable handle with NiMH rechargeable	<u> </u>
battery and bottom insert	X-002.99.471
NiMH rechargeable battery for BETA SLIM rechargeable handle	X-002.99.106

NT 300 table charger	XXXXXX
for BETA handles and Laryngoscope handles Angled F.O.,	
Standard F.O., Small and Short F.O. (without handle, with adaptor)	X-002.99.495
*****	(XXXXX)
Adapter set (two pieces) for BETA SLIM and Small F.O. Laryngoscope	
Rechargeable Handles [01]	X-000.99.086

\*Due to the increased demands on the charging management function of these rechargeable batteries, a latest generation HEINE NT300 recharging station must be used to properly and fully recharge these rechargeable batteries. Latest generation HEINE NT300 recharging stations can be identified by the serial number on the underside of the recharging station. Recharging stations starting with the serial number **SN 101 1**000 001 are compatible.









#### HEINE Large Battery Handle



Dimensions: 165 mm x 37 mm dia. Weight: 212 g without batteries, 505 g with batteries.

A large handle for 2 alkali-manganese batteries IEC LR20/D cells. Designed for countries where larger batteries are still preferred. (Only suitable for certain instrument cases.) Batteries not included.

Large battery handle	2.5 V
for 2 alkali-manganese batteries, size D	X-001.99.120

# HEINE mini 3000<sup>®</sup> Battery Handle



Innovative, compact battery handle in a high-quality, modern design. Suitable for all mini 3000 instruments.

- : Oval, compact, stylish shape. Lies ergonomically in the hand.
- : High-quality handle: Chrome-finish upper section/refined plastic. Shockproof, sturdy, non-slip.
- : Attachment clip with integrated on/off switch. Secure. Switches off automatically when returned to the pocket. 20.000 switch cycles guaranteed.
- : Screw-on end cap. For easy battery change.
- : Threaded connector made of metal. Prevents wear.
- : Replaceable batteries. Size AA, or optional rechargeable battery with mini NT table charger.
- : Complete range of mini 3000 instruments. Versatile range.
- : Registered Design.
- Rechargeable mini 3000 handle. The mini 3000 battery handle can be retro-fitted with the mini rechargeable battery 2.5 V NiMH and the bottom insert to update to the mini 3000 rechargeable handle. Fully-automatic charging with the mini NT table charger.

mini3000 Battery Handle	2.5V
with two dry batteries IEC LR6 (AA size)	D-001.79.021

All non-rechargeable mini handles are fitted with batteries (IEC LR 6 AA size). mini 3000 handles can be supplied in black or blue. Please specify the colour you prefer when ordering. If not otherwise specified, we will supply black instruments.





Compact charging technology





· Automatic charging

: Charge indicator



mini NT Charger set 2.5V. Consists of the mini NT table charger, 2 mini NT
rechargeable batteries and 2 bottom inserts for the mini 3000 rechargeable handles.
With this set, existing mini 3000 handles can be updated to the 2.5V rechargeable
system. Optional adaptor set for mini 2000.

mini NT table charger: Width 112 mm, Height 50 mm, Depth 52 mm, Weight 270 g.

- : Innovative, compact design. Practical and space-saving.
- : Two independent charging wells. Complete functionality for one or two handles at a time.
- : Fast charge feature. Typ. 4 hours to recharge a mini 3000 NiMH 2.5V rechargeable battery.
- : Automatic charging. Independent of the state of charge of the rechargeable battery. Guarantees extended battery life.
- : Cannot be overcharged. Charger switches off automatically when the battery is fully charged.
- : Charge status indicator. Light pulses from the charging well to confirm the charging mode. Continuous light indicates that the charging process has been completed.
- : No memory effect. Full power at any time without loss of capacity.

Please note: Suitable only for mini 3000 2.5 V NiMH rechargeable battery.

mini NT table charger and accessories	
mini NT Charger, only [01]	X-001.99.484
mini 3000 Rechargeable handle complete* [02]	D-001.79.022
Rechargeable battery NiMH 2Z, only [03]	X-001.99.487
Bottom insert for mini 3000 Rechargeable Handle, only [04]	X-001.99.488

mini NT Adaptor Set for 1 mini 2000 Handle	
This set contains:	
1 bottom insert [01] and 1 adaptor for mini 2000 [02].	
Together with a rechargeable battery it will allow the upgrade of one	
existing mini 2000 handle.	X-001.99.493



[01]

[02]

mini NT Charger Set for 2 mini 3000 Handles	
With this set, existing mini 3000 Handles can be updated to the 2.5 V	
rechargeable system. It contains:	
mini NT table charger [01], 2 rechargeable batteries NiMH 2Z [02],	
2 bottom inserts for mini 3000 rechargeable handle [03]	X-001.99.485



\*HEINE mini 3000 pocket instruments - a complete range of quality diagnostic instruments for your pocket. Available in black or blue. Please specify the colour you prefer when ordering. If not otherwise specified, we will supply black instruments.



# Plug-in transformer for the HEINE® ML4 LED/OMEGA® 500

Powerful electric supply unit for the ML4 LED HeadLight/OMEGA 500 (System voltage 6V).

Plug-in transformer for ML4 LED HeadLight/OMEGA 500

X-095.16.330

#### HEINE® HC 50 L Headband Rheostat

#### Fingertip Illumination Control for OMEGA500/UNPLUGGED

- : Left or right sided Mounting Options on the OMEGA Headband.
- : Can be combined with EN 50 and mPack (with connection cord X-000.99.667).
- : 100-240V Compatible Transformer.
- : For use with OMEGA500 with XHL and LED<sup>HQ</sup> illumination.

HC50L Headband Rheostat	6V
HC 50 L Headband Rheostat (without plug-in transformer and connecting cord) [01]	X-095.16.325
Plug-in transformer for HC50L Headband Rheostat [02]	X-095.16.330
Connecting Cord Cinch to EN50 charger/mPack/plug-in transformer for HC50 L, 1,6 m [03]	X-000.99.667





[02]





# Wall Transformer HEINE® EN 50 UNPLUGGED

#### Intelligent charger for mPack UNPLUGGED

- : Charger and wall-mount in one. The wall transformer serves as an instrument holder and a charger at the same time.
- : Intelligent charging system. The instrument automatically switches off and goes into charging mode when placed in wall transformer. It is impossible to overcharge the mPack UNPLUGGED; the process ends automatically when charging is completed.
- : Simultaneous charging. The charging system charges the battery on the headband as well as an additional single spare battery.
- : Compatible transformer (100 240 V). Multi-voltage power supply unit incl. 4 different mains adaptors.
- : Registered Design.

Wall transformer EN 50 UNPLUGGED (without mPack UNPLUGGED) 6 V

X-095.17.310

# HEINE® mPack UNPLUGGED

#### Headband-mounted rechargeable battery



Headband battery (rechargeable)
LED charge status indicator

Rechargeable battery for OMEGA500 Indirect Binocular Ophthalmoscope UNPLUGGED and ML4 LED HeadLight UNPLUGGED (System voltage 6V).

- : Lightweight with balanced weight distribution. High level of comfort.
- : Charge status indicator. Display of remaining operating time.
- : Can be recharged by wall- or plug-in transformer.
- : Direct operation possible while charging through the use of the mobile plug-in transformer.
- : Charging time: typ. 2 hours.
- : Operating time: typ. 3.5 hours for ML4 LED HeadLight, typ. 2 hours for OMEGA500 UNPLUGGED, typ. 8 hours for OMEGA500 UNPLUGGED with LED.
- : Intelligent charging system. Automatic changeover from operating to charging mode (in the wall unit).
- : Top safety standards. Integrated charge and performance checks during operation. Lithium polymer technology. UL-compliant.
- : Registered Design.

mPack UNPLUGGED	
mPack UNPLUGGED	X-007.99.665
Transformer UNPLUGGED for mPack UNPLUGGED [01]	X-095.16.316
Lithium-Polymer rechargeable battery	
for mPack UNPLUGGED	X-007.99.680
Extension Cord from plug-in transformer UNPLUGGED to mPack UNPLUGGED, 2 m [02]	X-000.99.668



# HEINE® mPack

#### Portable Power Pack for OMEGA 500 and ML4 HeadLight

- : Freedom from cables that tie the user to desk, wall or static power supplies.
- : Triple the Capacity with Li-ion Technology. Compared with current NiCd systems. When fully charged at least 3x the capacity of conventional NiCd systems. More than double of other Li-ion systems. No memory effect.
- : Fast Charge. Charges to full capacity in typ. 2 hours.
- : Charge status indicator. Always lets you know how much operating charge you have left.
- : Operating time: typ. 8.5 hours for ML4 LED HeadLight, typ. 4 hours for OMEGA500, typ. 13 hours for OMEGA500 with LED.
- : Flexible Charging Options. Charge in the EN 50 Charger base station, or with mobile plug-in transformer.
- : Intelligent. Automatically switches to "charge" mode when inserted in EN 50. Can also be used as mains power supply even while in "charge" mode.
- : Automatic remote power adjustment for compatibility with all HEINE 6V and selected LED instruments.
- : Stepless light intensity control 0.5 100 %. Optimum brightness setting prevents reflexes.
- : 100 240V Compatible Transformer incl. 4 plugs for world wide compatibility.

mPack	6V
EN 50-m Charger Wall/Table Unit with <b>mPack</b> , (incl. 90° Angled	
Adaptor, Instrument support for Professional L Headband [01])	X-095.17.302
mPack with Li-ion rechargeable battery and plug-in transformer	X-007.99.672
mPack with Li-ion rechargeable battery, without transformer	X-007.99.671

Li-ion rechargeable battery for mPack	X-007.99.676
Plug-in transformer for mPack [02]	X-095.16.315
Plug-in 90° Angled Adaptor (for EN50 Charger/mPack) [03]	C-000.33.509





# : Li-ion Battery

	Capacity Indicator
Dettory	Capacity Indicator
Ballery	Oup a t

# : Fast Charge









# : Switches off automatically



# Wall-/Table-Transformer HEINE® EN 50

#### Modular Power Supply System/charger

The HEINE Modular Power Supply System offers unsurpassed flexibility and innovative features. The EN50 powers OMEGA500 and ML4 LED HeadLight. Furthermore, all other HEINE 6V products are compatibel. The EN50 Charger, the mPack and HC50 L Headband Mounted Rheostat can be combined in every conceivable configuration.

- : Modular, compact design functions as the base for Tabletop or Wall Mounted use and as charging base for the mPack mobile charging system.
- : Upgradeable. mPack Charging base by simple removal of the control module.
- : Soft Start Technology. A gradual introduction of current reduces bulb "shock" and extends bulb life.
- : 100 240V Compatible Transformer incl. 4 plugs for world wide compatibility.
- : Registered Design.

6V
X-095.17.301
X-095.17.305
X-095.17.300

Plug-in 90° Angled Adaptor (for EN 50/mPack without instrument	
support) [04]	C-000.33.509
Instrument support for Headband	C-000.33.511



#### HEINE<sup>®</sup> mPack mini Power source for LoupeLight2/MicroLight2 and SIGMA250 : Freedom from cables that tie the user to desk, wall or static power supplies. : Operating time LoupeLight2/MicroLight2: Typ. 9 hours in everyday practical use. In continuous operation at full power typ. 4 hours. Operating time SIGMA 250: Typ. 11 hours in continuous operation at maximum power. : Charging time typ. 4 hours. : Charge status indicator. Display of remaining battery power with three LEDs. The flashing of the last LED indicates that immediate charging is required. During charging the LEDs light up one after the other. : Stepless light intensity control. Optimum brightness setting between 100% and 3% reduces reflexes. : USB cord with E4-USB Medical approved plug-in power supply. : The integrated galvanic separation module protects the battery and the user EXCLUSIVELY AT HEINE against the consequences of defective power supplies, thus preventing the possibility · Stepless light intensity control of the full mains voltage flowing directly to the housing. We recommend the use of a Compact and lightweight medical approved plug-in power supply. Simple cleaning : Simple cleaning. Closed housing, no seams at the sides, few edges. : Compact and lightweight. With a weight of just 95 g and dimensions of 44 x 23 x 101mm the power source can be easily stowed. : NEW: Optimised mPack mini belt clip for simple attachment of the power source to the belt or waistband. The mPack mini can also be charged in the belt clip [01]. NEW : Li-ion technology. No "memory effect", without worrying about charge level or battery condition. : Integrated rechargeable battery. Can be exchanged at authorised specialist dealers. mPack mini m ar m wi

6V

Pack mini with Li-ion rechargeable battery	
nd E4-USB plug-in transformer	X-007.99.650
Pack mini with Li-ion rechargeable battery,	
rithout E4-USB plug-in transformer	X-007.99.649

mPack mini Belt Clip [01]	X-000.99.006
USB cord [02] with E4-USB plug-in transformer [03]	X-000.99.303
E4-USB Medical approved plug-in power supply for USB cord [03]	X-000.99.305





# EXCLUSIVELY AT HEINE

- Excellent energy efficiency
- Optimal cleaning
- Expandable via USB interface

# HEINE® EN 200 Diagnostic Centre

#### Modern, energy efficient wall system

- : Excellent energy efficiency. Lower power consumption saves costs and is environmentally-friendly.
- : Simultaneous use of handles. The handles can be operated optimally with LED and/or XHL instruments. Due to the galvanic separation, two doctors can use the devices for examination purposes independently of each other.
- : Multiple diagnostic possibilities. Compatible with all HEINE instruments (LED or XHL) with AV connector.
- : Maximum safety for user and patient. The integrated galvanic separation protects the handles from unwanted electrical interaction.
- : Optimal cleaning. Flat, space-saving housing without any openings allows optimal hygienic reprocessing. The absence of a mechanical switch reduces the risk of cross-contamination.
- : Ready-to-use Function. Due to cutting-edge technology in the HEINE EN200 the handle switches on and off automatically when taken off or returned to the unit. Set your brightness level once and it stays there every time you use your instrument. When not in use or when not returned to the unit, the illumination switches off after 15 minutes.
- : Connectivity Ready. The device offers an USB port and can be expanded with HEINE modules such as the HEINE EN 200 BP Automatic Digital Sphygmomanometer.
- : Soft Start Technology protects bulbs in the critical switch-on phase (prevents current surge) and prolongs bulb life.
- : Continuous brightness control between 100 % and 3 % for both XHL and LED illumination.
- : Integrated anti-theft system by means of a locking screw prevents unauthorised instrument head removal.

# HEINE EN 200 Diagnostic Centre Set

#### with GAMMA XXL LF-WB Analogue Sphygmomanometer



# EN200 Diagnostic Centre with GAMMA XXL LF-WB

GAMMA XXL LF-WB Analogue Sphygmomanometer	
Cuff Basket	
EN 200 Wall Transformer	
BETA400 LED F.O. Otoscope	
BETA 200 LED Ophthalmoscope	
AllSpec Tip Dispenser	
Wallboard (mounting material included)	A-095.12.950
See above, but with BETA200 LED F.O. Otoscope	A-095.12.951



I

# HEINE® EN 200 Diagnostic Centre Kits



EN 200 Kits *	3.5V
with EN 200 Wall Transformer, BETA 400 LED F.O. Otoscope,	LED
BETA 200 LED Ophthalmoscope [01]	A-095.12.218
with EN200 Wall Transformer, BETA400 F.O. Otoscope,	XHL
BETA200 Ophthalmoscope	A-095.12.214
with EN200 Wall Transformer, BETA200 LED F.O. Otoscope,	LED
BETA200 LED Ophthalmoscope	A-095.12.219
with EN200 Wall Transformer, BETA200 F.O. Otoscope,	XHL
BETA 200 Ophthalmoscope	A-095.12.215
with EN200 Wall Transformer, <b>K180 F.O. Otoscope</b> ,	XHL
K180 Ophthalmoscope	A-095.12.220

\* without additional accessories



# HEINE® EN 200 Diagnostic Centre – individual



**Put together your individual Diagnostic Centre:** The EN200 Wall Transformer and additional components such as the AllSpec Tip Dispenser and the EN200 BP Automatic Digital Sphygmomanometer can be combined in a modular system. You can also select the instruments you need (3.5 V XHL or LED version) individually from the HEINE range and customise your Diagnostic Centre to meet your individual requirements.

EN 200 Wall Transformer* [01]	X-095.12.250
AllSpec Tip Dispenser, for EN 200 [02]	B-000.11.149
EN 200 BP Automatic Digital Sphygmomanometer [03]	M-000.09.201
GAMMA XXL LF-W Analogue Sphygmomanometer [04]	M-000.09.323
NEW: GAMMA XXL LF-WB Analogue Sphygmomanometer	
(without cuff-holder) [05]	M-000.09.327
Cuff Basket for storing blood pressure cuffs [06]	M-000.09.140
Wallboard for simple wall mounting made of satined acrylic glass	
50x75x0.8cm, 3.8kg, with pre-drilled holes, mounting material	
included for device combination EN200BP/Cuff Basket/EN200/	
Tip Dispenser [07]	X-095.12.005
Wallboard as above for device combination EN200/Tip Dispenser [08]	X-095.12.006
Wallboard as above for device combination GAMMA XXL LF-W/	
EN 200/ Tip Dispenser [09]	X-095.12.007
Wallboard as above for device combination GAMMA XXL LF-WB/	
Cuff Basket/EN200/Tip Dispenser [10]	X-095.12.008

\* without instruments





