

# Soft accessories for Ni-Cd batteries

A complete collection of products for your system



# Installation and commissioning kits

Suitable for industrial standby Ni-Cd batteries

## **Protective equipment kit** Personal protective equipment (PPE), always put safety first P/N 08-00132-01

Apron for electrolyte protection (80x100cm)	1 pc
Storage box for protective kit	1 pc
Eye wash with pH neutral solution (200ml)	2 pcs
Protective gloves, pair	5 pcs
Protective goggles	1 pc
Protective shoe cover, pair	5 pcs



## **Electrolyte testing kit** Suitable for cells to test specific gravity

P/N 08-00171-01

Testing tube for electrolyte level	1 pc
Electrolyte hydrometer, range 1,08 - 1,30 g/l	1 pc
Plastic bottle 1 litre (electrolyte)	1 pc
Plastic zip-lock bag 1 litre	1 pc



## **Spanner kit** Suitable when installing connectors

P/N 08-00172-05

Brush	1 pc
Anti-corrosion oil (0,5 litre), protective agent	1 pc
Single-ended spanner SW 13mm, insulated	1 pc
Single-ended spanner SW 16mm, insulated	1 pc
Double-ended spanner SW 8/10mm, insulated	1 pc
Plastic zip-lock bag (1 litre)	1 pc



## Complete installation & commissioning kit

P/N 08-00174-01

Protective equipment kit (08-00132-01)	1 kit
Electrolyte testing kit (08-00171-01)	1 kit
Spanner set kit (08-00172-01)	1 kit
Digital multimeter (01-01925-01)	1 pc



## Electrolyte filling kit

P/N 08-00175-01

Suitable for cells delivered empty and discharged (ED)

Plastic funnel $\phi$ 140 (large)	1 pc
Plastic funnel $\phi$ 80 (small)	1 pc
Plastic jug with lid and plug (2 litres)	1 pc
Glass thermometer, temperature range -20 to +110°C	1 pc



## Electrolyte mixing kit

P/N 08-00176-01

Suitable for cells delivered empty and discharged (ED)

Mixing tank (50 litres)	1 pc
Tank lid	1 pc
Stirring paddle	1 pc



## Complete electrolyte preparation kit

P/N 08-00177-01

Electrolyte filling kit (08-00175-01)	1 kit
Electrolyte mixing kit (08-00176-01)	1 kit



## Additional accessories

Suitable for industrial standby Ni-Cd cells

### Carbonate testing kit

Suitable for electrolyte testing for carbonates

P/N 08-00009-01

Accessory box	1 pc
Plastic bottle (200ml)	1 pc
Plastic graduated cylinder (25ml)	1 pc
Plastic funnel $\phi$ 80	1 pc
Erlenmeyer flask (100ml) with rubber plug	2 pc
Filter V100	20 pcs
Plastic bags with 8g Soda ( $\text{BaCl}_2$ ) powder	10 pcs
Hydrometer	1 pc



### Digital multimeter

Fluke 113 Utility meter with VCHEK™

P/N 01-60651-01

TL75 Test leads

Voltage AC/DC 0.001 – 600V

Diode testing (2V)

Resistance 0,1 $\Omega$  – 60k $\Omega$

Capacitance 1 – 9999 $\mu$ F

Category CAT III 600V and category IV 300V standards.

Size 167.1x85.1x46mm (6.58x3.35x1.81in)

Weight 404g (13oz)



### Infrared thermometer

Fluke 62 Max mini Infrared thermometer

P/N 01-60652-02

Infrared thermometer for measuring temperatures from -30 to 500°C (-22 to 932°F).

Provides a 10:1 distance to spot ratio.

IP 54 (IEC 60529)

Size 175x85x75mm (6.88x3.34x2.95in)

Weight 255g (8.99oz)



## Torque wrench set

P/N 08-00178-01

High quality adjustable Knipex torque wrench with sockets  
Insulated 1000V EN/IEC 60900

Torque wrench 5-50 Nm (1/2")  
Socket SW10 (1/2")  
Socket SW13 (1/2")  
Socket SW16 (1/2")

1 pc  
1 pc  
1 pc  
1 pc



## Spanner rings

High quality Knipex spanner ring  
Insulated 1000V EN/IEC 60900

Spanner ring SW 10mm  
Spanner ring SW 13mm  
Spanner ring SW 16mm

01-60653-01  
01-60653-02  
01-60653-03



## Cell numbering

Adhesive set for marking cells, black digits on white background.  
Label size 14x14mm, letter size 7mm delivered on coil.

Numbering kit #1 – 50  
Numbering kit #1 – 100  
Numbering kit #1 – 200  
Numbering kit #1 – 350  
Numbering kit #1 – 500

01-01978-31  
01-01978-32  
01-01979-31  
01-01979-32  
01-01979-33



## Topping-up equipment

P/N 08-00195-02

Complete kit to top-up cells with distilled/de-ionized water

Water cart, 37.5 litres  
Charger 120V/230V (exchangeable AC plug)  
Filling pistol (with spacer tube kit, fits all our cells)

1 pc  
1 pc  
1 pc



## Cell replacement kit

P/N 31-11204-01

Suitable for replacing cells in a compact rack, where the rows are not stepped.

Sliding plate 800x195x2mm  
Filling plates 195x195x8mm  
Sling 2m

1 pc  
3 pcs  
1 pc



## Diphoterine®

Solution is an emergency rinsing solution for splashes of chemicals. Rapid use in case of contact with electrolyte (KOH) quickly eliminates secondary treatment of burn injuries.

SIEW 50ml, eye treatment  
Clipped leather holster for SIEW 50ml  
Mini DAP 200ml, for smaller body parts

01-52009-75  
01-52009-76  
01-52009-78



## Terminal plate

P/N 31-10736-xx

Collecting bar to be installed on the top of the cells to change the number of outgoing cables and/or change cable cross section (up to 120mm<sup>2</sup>).

Terminal plates (+/-)  
Available in various dimensions to fit our cells with Ni-plated copper.

Thickness: 4mm

2 pcs



## Terminal plate cover

P/N 31-10129-xx

Complete terminal plate with cover and bolts for assembling.

End lugs (35 – 120mm<sup>2</sup>)  
Washers, DIN137b  
Bolts, SIS 2343  
Nuts, SIS 2343  
Insulated post screws  
Cover and cover gabels



## Connection box

P/N 08-10010-01

Solution for connecting external cables of 95 to 400 mm<sup>2</sup>.

Designed for 6 cables (max 120mm<sup>2</sup>) from cells and up 3 outgoing cables.

All cables between the cells and the connection box are supplied when specified.

Size: 380x280x120mm (LxWxD)

P/N for these cables are 31-10116-01 – 31-10128-61

Length between 110 – 10000mm are available.

End lugs for outgoing connection, between 95 – 400mm<sup>2</sup>.



## Busbar

31-10874-01

Solution for connecting external cables of 120mm<sup>2</sup> to 500mm<sup>2</sup>.

Designed for 12 cables from cells and up 3 outgoing cables.

All cables between the cells and the Busbar are supplied when specified.

Length between 110 – 10000mm are available.

End lugs (M12) for outgoing connection are available between 100 – 500mm<sup>2</sup>.



## Electrolyte hydrometer

P/N 01-01980-01

Glass hydrometer for measuring electrolyte specific gravity during mixing.

Range 1,08 - 1,30 g/l



## Central water filling system

For usage when one single connection is needed to top-up the complete cells in the battery with water.

Vent  
Flame Arrestor  
Hose (m)  
Hose nipple  
Bracket  
L-joint  
I-joint  
Coupling (male/female)



## Symmetry monitoring

Insulated kit for midpoint measurements within your battery system.

Symmetry monitoring kit M6  
Symmetry monitoring kit M8  
Symmetry monitoring kit M10

31-05422-01  
31-05422-02  
31-05422-03

All kits are delivered with protection cover, end lug, thin nut, & post screw SIS 2343.



## Anti-corrosion oil

Protects metal parts on battery, terminals, connectors.

P/N 11-71013-08

Anti-corrosion oil (0.5l)



## Cabinet for accessories

Wall or floor-mounted painted steel cabinet for accessories.

P/N 01-02013-01

Size 900x500x450mm (HxWxD)

Weight 30kg





## Lifting device

P/N 01-02014-01

Gigant lifter is used for lifting heavy cells during installation and replacement.

Capacity: 400kg  
Lifting height: 1500mm  
Table dimension: 650 x 576mm



## Lifting device

P/N 01-02014-10

Genie GL-8 portable and compact design which is used for lifting heavy cells during installation and replacement.

Capacity: 181kg  
Lifting height: 3006mm  
Table dimension: 580 x 560mm



## Warning sign kit

P/N 01-02054-01

Complete warning sign label kit for battery room.  
Symbols and colors according to ISO 3864.

No smoking allowed  
Use protective goggles  
Warning - caution battery room  
Manual/information  
Warning - electrical shock  
Caution - corrosive substance

1 pc  
1 pc  
1 pc  
1 pc  
1 pc  
1 pc



## Thermometer

P/N 01-02016-01

Wall mounted thermometer.

Temperature range -50 to +50°C



## Solid Electrolyte

Electrolyte to be used when mixing on-site with distilled or de-ionized water for block batteries, SBLE, SBM & SBH.

Solid electrolyte E22 1kg  
Solid electrolyte E22 5kg  
Solid electrolyte E22 20kg

11-85002-58  
11-85002-59  
11-85002-64

Solid electrolyte E13 1kg  
Solid electrolyte E13 5kg  
Solid electrolyte E13 20kg

11-85002-54  
11-85002-55  
11-85002-62



## Liquid Electrolyte

Separate electrolyte to be used for block batteries, SBLE, SBM & SBH.

Liquid electrolyte E22 5 litre  
Liquid electrolyte E22 10 litre  
Liquid electrolyte E22 25 litre

11-85001-06  
11-85001-07  
11-85001-08

Liquid electrolyte E13 5 litre  
Liquid electrolyte E13 10 litre  
Liquid electrolyte E13 25 litre

11-85001-26  
11-85001-27  
11-85001-28

Plastic bottle 25 litre (electrolyte)  
Tap for 25 litre electrolyte bottle

01-00126-01  
01-01727-02



# Spare parts for your batteries

## Accessory box

P/N 08-10020-01

Suitable for SBH, SBM and SBLE cells with M6 terminals with a range of all used components needed for replacement of lost parts.

Accessory box	1 pc
Flip top vent small red	5 pcs
Flip top vent tool small	1 pc
Bolt M6, ISO4017, A2-70, SW10	10 pcs
Washer M6 DIN137b, stainless spring steel	10 pcs
Insulated screw M6, A2-70, SW10	10 pcs



## Accessory box

P/N 08-10020-02

Suitable for SBH, SBM and SBLE cells with M8 terminals with a range of all used components needed for replacement of lost parts.

Accessory box	1 pc
Flip top vent small red	5 pcs
Flip top vent large red	5 pcs
Flip top vent tool small	1 pc
Flip top vent tool large	1 pc
Bolt M8, ISO4017, A2-70, SW13	10 pcs
Washer M8 DIN137b, stainless spring steel	10 pcs
Insulated screw M8, A2-70, SW13	10 pcs



## Accessory box

P/N 08-10020-03

Suitable for SBH, SBM and SBLE cells with M10 terminals with a range of all used components needed for replacement of lost parts.

Accessory box	1 pc
Flip top vent large red	5 pcs
Flip top vent tool large	1 pc
Bolt M10, ISO4017, A2-70, SW16	10 pcs
Washer M10 DIN137b, stainless spring steel	10 pcs
Insulated screw M10, A2-70, SW16	10 pcs



### Accessory box

P/N 08-10020-13

Suitable for Uptimax with M6 terminals with a range of all used components needed for replacement of lost parts.

Accessory box	1 pc
XLP vent small red	5 pcs
XLP vent tool small	1 pc
Bolt M6, ISO4017, A2-70, SW10	10 pcs
Washer M6 DIN137b, stainless spring steel	10 pcs
Insulated screw M6, A2-70, SW10	10 pcs



### Accessory box

P/N 08-10020-14

Suitable for Uptimax with M8 terminals with a range of all used components needed for replacement of lost parts.

Accessory box	1 pc
XLP vent small red	5 pcs
XLP vent tool small	1 pc
XLP vent large red	5 pcs
XLP vent tool large	1 pc
Bolt M8, ISO4017, A2-70, SW13	10 pcs
Washer M8 DIN137b, stainless spring steel	10 pcs
Insulated screw M8, A2-70, SW13	10 pcs




### Accessory box

P/N 08-10020-15

Suitable for Uptimax with M10 terminals with a range of all used components needed for replacement of lost parts.

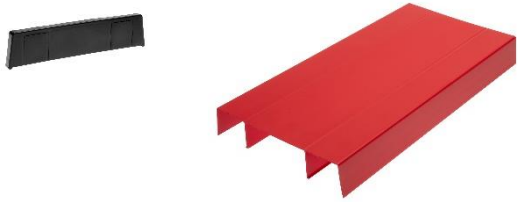
Accessory box	1 pc
XLP vent large red	5 pcs
XLP vent tool large	1 pc
Bolt M10, ISO4017, A2-70, SW16	10 pcs
Washer M10 DIN137b, stainless spring steel	10 pcs
Insulated screw M10, A2-70, SW16	10 pcs



<b>Connector cover</b>		To be used on block batteries (large)
Connector cover block battery (normal) Gable Width 30mm Length 400mm	31-00349-01 31-05339-01	
Connector cover block battery (crosswise) Gable Width 107mm Length 405mm	31-01347-17 31-05340-01	

<b>Connector cover</b>		To be used on block batteries (small)
P/N 31-00347-01	31-05338-01 gable	
Connector cover block battery Width 15mm Length 400mm		

<b>Connector Cover</b>		To be used on Uptimax (large)
P/N 31-05378-01	31-05379-01 gable	
Connector cover Uptimax product Width 190mm Length 400mm		

<b>Connector Cover</b>		To be used on Uptimax (small)
P/N 31-05376-01	31-05377-01 gable	
Connector cover block battery/single cell Width 128mm Length 400mm		