



# HIGHLIGHTS 2010 GB

Electrical Connection Systems  
Tools and Measuring Devices



Verbindungen mit **System**  
The **Power** of Partnership

**Klauke**<sup>®</sup>  
A Textron Company



## Gustav Klauke GmbH

Auf dem Knapp 46  
42855 Remscheid  
Telephone: +49 (0)2191 / 907 - 0  
Hotline Sales Germany: +49 (0)2191 / 907 - 107  
Fax Domestic Sales: +49 (0)2191 / 907 - 201  
Fax International Sales: +49 (0)2191 / 907 - 205  
info@klauke.textron.com  
www.klauke.com

## Distributors / Sales Offices

- **GREENLEE TEXTRON INC.**  
4455 Boing Drive  
Rockford, Il. 61109-298 8  
USA  
Tel.: +1 815 / 397 - 7070  
Fax: +1 815 / 397 - 9247  
www.greenlee.textron.com
- **KLAUKE FRANCE S.A.R.L.**  
16, Rue Saint-Louis, Z.I. ACTISUD  
F-57150 Creutzwald  
France  
Tel.: +33 (0)387 / 29 84 70  
Fax: +33 (0)387 / 29 84 79  
gcordel@klauke.textron.com
- **KLAUKE HANDELSGES.M.B.H.**  
Ared-Str. 7 TOP 3  
2544 Leobersdorf  
Österreich  
Tel.: +43 (0)2256 / 629 25  
Fax: +43 (0)2256 / 629 25 - 30  
atoffice@klauke.textron.com
- **OOO KLAUKE RUS**  
Russian Federation  
125009, Moscow, Tverskaya 16/2  
Building 1, 7th floor, office 901B  
Russian Federation  
Tel.: +7 495 / 935 89 71  
Fax: +7 495 / 935 89 62  
slekomtseva@klauke.textron.com
- **Klauke UK Ltd.**  
**UK / IRELAND**  
Hillside Road East, Bungay, Suffolk  
NR35 1JX  
Tel.: +44 (0)1986 / 89 15 19  
Fax: +44 (0)1986 / 89 61 32  
uksales@klauke.textron.com
- **TEMPO EUROPE LTD.**  
Brecon House, William Brown Close  
Llantarnam Park, Cwmbran NP44 3AB  
Wales  
Tel.: +44 (0)1633 / 62 77 33  
Fax: +44 (0)1633 / 62 77 32  
info@tempo.textron.com
- **TEXTRON CHINA INC.**  
**GREENLEE / KLAUKE OFFICE**  
Floor 6th Lippo Plaza, No. 222 Huai Hai  
M. Rd  
200021 Shanghai,  
P.R. of China  
Tel.: +86 21 / 53 96 65 55  
Fax: +86 21 / 53 96 69 13  
jsking@greenlee.textron.com
- **GREENLEE / KLAUKE OFFICE SOUTH EAST ASIA**  
50 Loyang Way  
Singapore 508743  
Tel.: +65 / 98 19 22 97  
Fax: +65 / 67 48 16 51  
cwee@greenlee.textron.com
- **GREENLEE / KLAUKE OFFICE AUSTRALIA / NEW ZEALAND**  
25 Webb Ellis Court,  
Pelican Waters, Queensland 4551  
Australia  
Tel.: +61 7 / 54 39 73 77  
Fax: +61 7 / 54 39 75 77  
nellement@greenlee.textron.com
- **GREENLEE / KLAUKE OFFICE LATIN AMERICA**  
1846 nw 82 Ave  
Miami, Florida 33126  
USA  
Tel.: +1 305 / 406 1315  
Fax: +1 305 / 406 1715  
rvazquez@greenlee.textron.com
- **TEXTRON INDIA PVT. LTD.**  
**GREENLEE / KLAUKE OFFICE**  
Global Village, Behind R V College of  
Engineering,  
RVCE Post, Mylasandra,  
Bangalore - 560 059  
India  
Mobil: +91-99 0232 2466  
Fax: +91-80-6712 9250  
bpaul01@textron.com



## Electrical Connection Systems

- Assortments Connecting Material 6



## Crimping dies

- Series 5 19



## Holemaking Tools

- Punching Tools and Sets 22



## Test and Measuring Instruments

- Voltage Testers 26
- Digital Multimeter 28

## Highlights 2010

- Welcome 4



## Crimping- and Cutting tools

- Mechanical Pressing, Crimping and Cutting tools 7
- Mechanical Crimping Tools (Photovoltaic) 8
- Hand-operated hydraulic Cutting Tools 10
- Battery powered Crimping Tools 11
- Battery powered Cutting Tools 12
- Hydraulic Crimping Heads 16
- Hydraulic Systems 17
- Adapters 18



## Hand Tools

- Wire Stripping Tools 9
- All-insulated Tools 20
- Insulated Tools / Combination Pliers / Bags 21



## Cable Pulling Technology

- Cable Pulling Systems 24



## *Solutions for Installers, Trade and Industry.*

In permanent contact with our partners we create with optimally matched products and services pioneering solutions for installers, trade and industry all over the world. Resulting safety, performance and efficiency for everybody working with Klauke and Greenlee products is reason that professionals all around the world rely on Klauke.



product  
design  
award



## *Innovation by a fine tradition.*

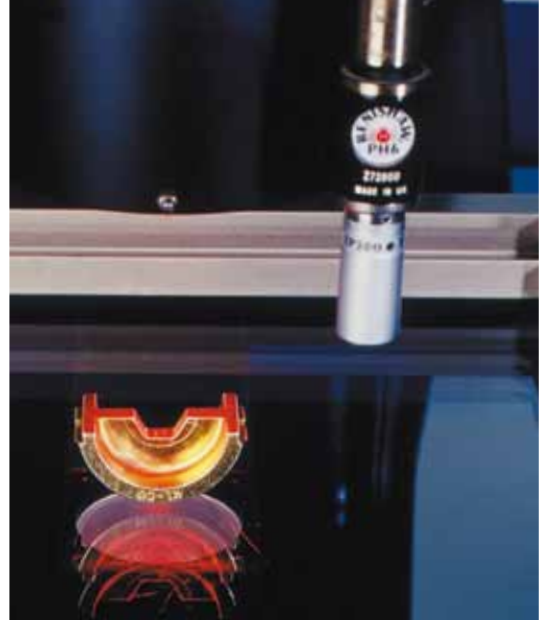
We have been committed to systematically developing innovative and application oriented solutions since 1879. We work closely with our customers to create innovative products unparalleled in terms of application and cost-effectiveness.

Numerous commendations and innovation awards confirm that this is the correct way forward.



## *Demanding a great deal better than the norm.*

Again and again we set ourselves the highest possible standards. In terms of safety user friendly application and robustness all Klauke products comply with the highest specifications and perform in excess of the standards required.



## *Everything is possible.*



Apart from the comprehensive Klauke range of connection material and tools we also provide custom-made and individual solutions for specific applications.

## *Here you're in good hands.*

Our sales and service teams are close to the market and offer you every support required.

- ▶ Product presentation and professional advice **at location** through our field service.
- ▶ **Klauke-Mobil** vehicle on the way.
- ▶ Internal and external **training courses and seminars** for users.
- ▶ Information, **advice and workshops** at all important national and international exhibitions.
- ▶ Fast **technical support** for special applications by our experts.
- ▶ Upon request we test and check your electrical connections and provide **test certifications**.

## *More than just maintenance.*

Our Service Center in Remscheid and authorised Service Centers (ASC) all over the world offer a free tool hotline, maintenance and repair service with test plates, certificates and a tool hire service.





**SK 43 NB**

Assortment box with insulated cable end-sleeves 0,5 - 10 mm<sup>2</sup> DIN 46228, part 4 and stripping tool K 43/2 and crimping tool K 30/3

**Characteristics**

- Dimension: 370 x 210 x 40 mm

| Item  |        |   | Part. No.     |
|---|--------|---|---------------|
| Assortment box with insulated cable end-sleeves 0,5 - 10 mm <sup>2</sup> DIN 46228, part 4 and stripping tool K 43/2 and crimping tool K 30/3 |        |   | <b>SK43NB</b> |
| Steel carrying case   |        |   | <b>SK43L</b>  |
| Scope of supply   | Colour | Description   | Quantity      |
| K432  |        | Stripping Tool K43/2, 0,08 - 10 mm <sup>2</sup>   | 1             |
| K303  |        | Mechanical crimping tool for cable end-sleeves and twin cable end-sleeves 0,08 - 10 mm <sup>2</sup> | 1             |
| 4698  | □      | Insulated cable endsleeves 0,5 mm <sup>2</sup>  | 500           |
| 4708  | ■      | Insulated cable endsleeves 0,75 mm <sup>2</sup>   | 500           |
| 4718  | ■      | Insulated cable endsleeves 1 mm <sup>2</sup>  | 400           |
| 4728  | ■      | Insulated cable endsleeves 1,5 mm <sup>2</sup>  | 400           |
| 4738  | ■      | Insulated cable endsleeves 2,5 mm <sup>2</sup>  | 300           |
| 47410   | ■      | Insulated cable endsleeves 4 mm <sup>2</sup>  | 100           |
| 47512   | ■      | Insulated cable endsleeves 6 mm <sup>2</sup>  | 100           |
| 47612   | ■      | Insulated cable endsleeves 10 mm <sup>2</sup>   | 100           |



**MK 230 B 507**

Assortment box with insulated cable end-sleeves 0,5 - 6 mm<sup>2</sup> and crimping tool K 507

**Characteristics**

- Dimension: 366 x 230 x 51 mm

| Item  |        |  | Part. No.        |
|---|--------|--|------------------|
| Assortment box with insulated cable end-sleeves 0,5 - 6 mm <sup>2</sup> and crimping tool K 507 |        |  | <b>MK230B507</b> |
| Steel carrying case   |        |  | <b>MK230L</b>    |
| Scope of supply   | Colour | Description  | Quantity         |
| K507  |        | Mechanical crimping tool for insulated cable connections 0,5 - 6 mm <sup>2</sup> | 1                |
| 6204  | ■      | Terminals 0,5 - 1 mm <sup>2</sup>  | 50               |
| 6205  | ■      | Terminals 0,5 - 1 mm <sup>2</sup>  | 50               |
| 6206  | ■      | Terminals 0,5 - 1 mm <sup>2</sup>  | 50               |
| 6304  | ■      | Terminals 1,5 - 2,5 mm <sup>2</sup>  | 50               |
| 6305  | ■      | Terminals 1,5 - 2,5 mm <sup>2</sup>  | 50               |
| 6306  | ■      | Terminals 1,5 - 2,5 mm <sup>2</sup>  | 50               |
| 670   | ■      | Butt connectors 0,5 - 1 mm <sup>2</sup>  | 50               |
| 680   | ■      | Butt connectors 1,5 - 2,5 mm <sup>2</sup>  | 50               |
| 705   | ■      | Pin terminals 0,5 - 1 mm <sup>2</sup>  | 50               |
| 710   | ■      | Pin terminals 1,5 - 2,5 mm <sup>2</sup>  | 50               |
| 730   | ■      | Receptacles 1,5 - 2,5 mm <sup>2</sup>  | 50               |
| 830   | ■      | Tabs 1,5 - 2,5 mm <sup>2</sup>   | 50               |
| 620C4   | ■      | Terminals 0,5 - 1 mm <sup>2</sup>  | 50               |
| 630C4   | ■      | Terminals 1,5 - 2,5 mm <sup>2</sup>  | 50               |
| 715   | ■      | Pin terminals 4 - 6 mm <sup>2</sup>  | 25               |
| 700   | ■      | Butt connectors 4 - 6 mm <sup>2</sup>  | 25               |
| 6505  | ■      | Terminals 4 - 6 mm <sup>2</sup>  | 25               |
| 6506  | ■      | Terminals 4 - 6 mm <sup>2</sup>  | 25               |
| 650C6   | ■      | Terminals 4 - 6 mm <sup>2</sup>  | 25               |

■ **K38 ERGO, K38 ERGO Set**

Mechanical crimping tool for cable end-sleeves and twin cable end-sleeves 0,25 mm<sup>2</sup> (K38 ERGO Set in plastic case)

- Square crimping suitable for box terminals and spring clamp technology
- Ergonomic design
- Required crimping force only approx. 200 N
- Practical tool case (K38 ERGO Set)

**Characteristics**

- Accurate drive with ratchet
- Front insertion
- Little space required during operation
- Automatic adjustment of cross section from 0,25 - 6 mm<sup>2</sup>
- Max. length of end-sleeves 18 mm, from 12 mm two crimps are required

| Technical data          |                                   |                                   |
|-------------------------|-----------------------------------|-----------------------------------|
|                         | <b>K38ERGO</b>                    | <b>K38ERGOSET</b>                 |
| Crimping range total:   | 0,25 - 6 mm <sup>2</sup>          | 0,25 - 6 mm <sup>2</sup>          |
| Cable end-sleeves:      | 0,25 - 6 mm <sup>2</sup>          | 0,25 - 6 mm <sup>2</sup>          |
| Twin cable end-sleeves: | 2 x 0,5 - 2 x 2,5 mm <sup>2</sup> | 2 x 0,5 - 2 x 2,5 mm <sup>2</sup> |
| Length:                 | 160 mm                            | 160 mm                            |
| Weight / Weight total:  | 406 g                             | 740 g                             |
| Dimension:              |                                   | 235 x 180 x 50 mm                 |

| Item   | Part. No.         |
|--|-------------------|
| Mechanical crimping tool for cable end-sleeves and twin cable end-sleeves 0,25 - 6 mm <sup>2</sup>                 | <b>K38ERGO</b>    |
| Mechanical crimping tool for cable end-sleeves and twin cable end-sleeves 0,25 - 6 mm <sup>2</sup> in plastic case | <b>K38ERGOSET</b> |

| Scope of supply K38ERGOSET | Description  | Quantity |
|----------------------------|--|----------|
| K38ERGO                    | Mechanical crimping tool for cable end-sleeves and twin cable end-sleeves 0,25 - 6 mm <sup>2</sup> | 1        |
| 469/8                      | Insulated cable end-sleeves 0,5 mm <sup>2</sup>  | 50       |
| 470/8                      | Insulated cable end-sleeves 0,75 mm <sup>2</sup>   | 50       |
| 471/8                      | Insulated cable end-sleeves 1,0 mm <sup>2</sup>  | 50       |
| 472/8                      | Insulated cable end-sleeves 1,5 mm <sup>2</sup>  | 50       |
| 473/8                      | Insulated cable end-sleeves 2,5 mm <sup>2</sup>  | 50       |



■ **K 04**

Mechanical crimping tool for tubular cable lugs and connectors, standard type 10 - 25 mm<sup>2</sup>

- Hexagonal crimping
- Tool pre - tensioning adjustable
- Large cross section

**Characteristics**

- Energy-efficient ergonomic drive
- With ratchet
- Exact cross-section assignment

| Technical data  |                         |
|-----------------|-------------------------|
| Crimping range: | 10 - 25 mm <sup>2</sup> |
| Length:         | 260 mm                  |
| Weight:         | 560 g                   |

| Item  | Part. No.  |
|---|------------|
| Mechanical crimping tool for tubular cable lugs and connectors, standard type 10 - 25 mm <sup>2</sup> | <b>K04</b> |





### K85 ERGO

Mechanical crimping tool for insulated cable connections 0,5 - 6 mm<sup>2</sup>

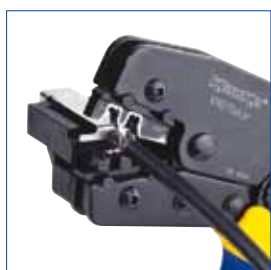
- Double crimping
- Energy-efficient ergonomic drive
- Tool pre-tensioning adjustable

#### Characteristics

- Crimping of conductor and insulation in one step
- With ratchet
- Colour-coded cross-section

| Technical data        |                           |
|-----------------------|---------------------------|
| Crimping range total: | 0,5 - 6 mm <sup>2</sup>   |
| Red insulation:       | 0,5 - 1 mm <sup>2</sup>   |
| Blue insulation:      | 1,5 - 2,5 mm <sup>2</sup> |
| Yellow insulation:    | 4,0 - 6,0 mm <sup>2</sup> |
| Length:               | 260 mm                    |
| Weight:               | 560 g                     |

| Item   | Part. No.      |
|--|----------------|
| Mechanical crimping tool for insulated cable connections 0,5 - 6 mm <sup>2</sup> | <b>K85ERGO</b> |



### K907 MC Set

Mechanical crimping tool for multi-contact plug connectors MC4 1,5 - 6 mm<sup>2</sup> and photovoltaic stripper in a box

- Roll-crimping
- Spring supported tool opening
- Tool pre-tensioning adjustable

#### Characteristics

- Accurate drive with ratchet
- Complete tool set
- Optimized force transmission
- Accurate and easy stripping
- Exchangeable crimping dies, easy change by locking pins

| Technical data        |                         |                         |                   |
|-----------------------|-------------------------|-------------------------|-------------------|
|                       | K907SOLAR               | KL735PV                 | K907MCSET         |
| Crimping range total: | 1,5 - 6 mm <sup>2</sup> |                         |                   |
| Crimping range MC4:   | 1,5 - 6 mm <sup>2</sup> |                         |                   |
| Stripping range:      |                         | 2,5 - 6 mm <sup>2</sup> |                   |
| Length:               | 220 mm                  | 80 mm                   |                   |
| Weight:               | 510 g                   | 20 g                    |                   |
| Weight total:         |                         |                         | 900 g             |
| Dimension:            |                         |                         | 235 x 180 x 50 mm |

| Item  | Part. No.        |
|---|------------------|
| Mechanical crimping tool for multi-contact plug connectors MC4 1,5 - 6 mm <sup>2</sup> and photovoltaic stripper in a box | <b>K907MCSET</b> |

| Scope of supply K907MCSET | Description  | Quantity |
|---------------------------|--|----------|
| K907SOLAR                 | Mechanical crimping tool for multi-contact plug connectors MC4 1,5 - 6 mm <sup>2</sup> | 1        |
| K907MC41                  | Crimping dies MC4 1,5 + 2,5 mm <sup>2</sup>  | 1        |
| K907MC42                  | Crimping dies MC4 1,5 + 2,5 mm <sup>2</sup>  | 1        |
| K907MC4142POS             | Positioner MC4 contact   | 1        |
| KL735PV                   | Photovoltaic stripper  | 1        |

■ **K90 MC3 2, K90 MC4 1, K90 MC4 2**

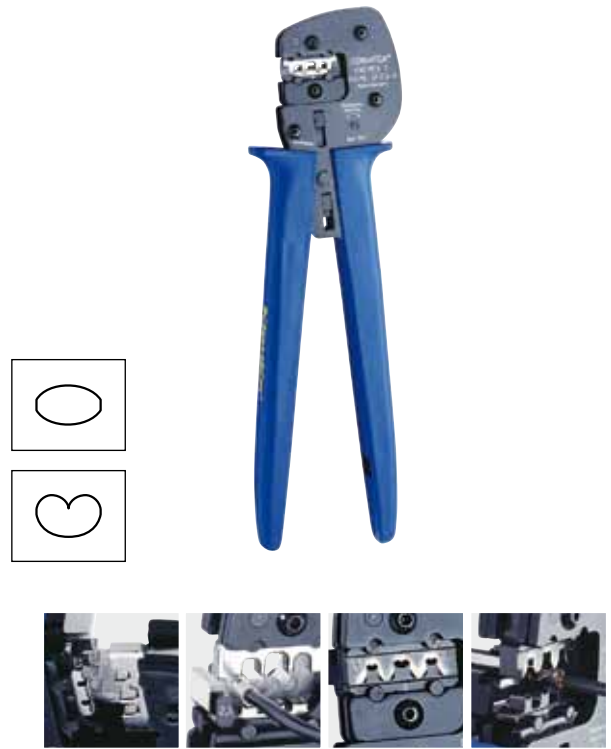
Mechanical crimping tool for multi-contact plug connectors MC3 2,5 - 6 mm<sup>2</sup>, MC4 1,5 - 4 mm<sup>2</sup>, MC4 2,5 - 6 mm<sup>2</sup>

- High precision by linear die movement
- Integrated, disengageable ratchet
- Ergonomic non-slip handles

**Characteristics**

- Precise drive
- With ratchet
- With precision stop
- Optimized force transmission

| Technical data   |                         |                         |                         |
|--|-------------------------|-------------------------|-------------------------|
|  | <b>K90MC32</b>          | <b>K90MC41</b>          | <b>K90MC42</b>          |
| Crimping range total:  | 2,5 - 6 mm <sup>2</sup> | 1,5 - 4 mm <sup>2</sup> | 2,5 - 6 mm <sup>2</sup> |
| Multi-Contact plug connectors:   | 2,5 - 6 mm <sup>2</sup> | 1,5 - 4 mm <sup>2</sup> | 2,5 - 6 mm <sup>2</sup> |
| Length:  | 270 mm                  | 270 mm                  | 270 mm                  |
| Weight:  | 735 g                   | 735 g                   | 735 g                   |
| Item   | Part. No.               |                         |                         |
| Mechanical crimping tool for multi-contact plug connectors MC3 2,5 - 6 mm <sup>2</sup> | <b>K90MC32</b>          |                         |                         |
| Mechanical crimping tool for multi-contact plug connectors MC4 1,5 - 4 mm <sup>2</sup> | <b>K90MC41</b>          |                         |                         |
| Mechanical crimping tool for multi-contact plug connectors MC4 2,5 - 6 mm <sup>2</sup> | <b>K90MC42</b>          |                         |                         |



■ **Automatic wire stripper for all standard round cables being used for solar technology**

- All standard round and flat cables
- Fine adjustment (5-way) on various cable types and diameters

**Suitable for:**

- Baring and stripping all standard flexible cables for solar technology from 1,5 - 6 mm<sup>2</sup> (15-9 AWG).

**Characteristics**

- Fine adjustment (5-way)
- Integrated side cutter to max. 3 mm Ø
- Optical measure of length 8 - 24 mm, 5/16 - 1 inch

| Item                                     | Part. No.      |
|--|----------------|
| Automatic wire stripper for photovoltaic | <b>KL765PV</b> |



■ **KL 735 PV**

Photovoltaic stripper

- High precision by linear die movement
- Integrated, disengageable ratchet
- Ergonomic non-slip handles

**Characteristics**

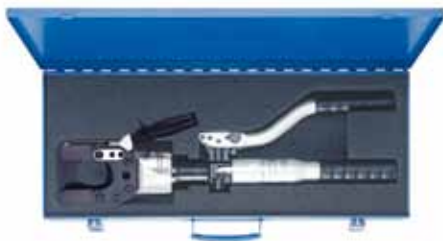
- Fixed stripping length of 8,5 mm
- Stripping of photovoltaic cables 2,5 - 6 mm<sup>2</sup>
- Compact design

| Item                  | Part. No.      |
|-----------------------|----------------|
| Photovoltaic stripper | <b>KL735PV</b> |





HSG 55



HSG 85/2



■ **HSG 55 / HSG 85/2**

**HSG55:** Hand-operated hydraulic cutting tool ø 55 mm

**HSG85/2:** Hand-operated hydraulic cutting tool ø 85 mm

**HSG 55**

- Cuts armoured copper and aluminium cables and Al/St cables (ACSR)
- Suitable for Al, Cu and steel round material
- 120 kN cutting force for max. performance

**HSG 85/2**

- Cuts copper and aluminium cables with little armouring (depending on cable type)
- Large cutting range
- Bolt interlock guarantees highest safety for the operator

**Characteristics**

- Closed cutting head with locking device, rotating flip top style
- Easy handling
- Low weight by high-grade aluminium housing
- Two stage hydraulic system with quick feed and power stroke
- Automatic retraction when cut is complete
- Manual retract in case of need
- Environment-friendly hydraulic oil, quickly bio-degradable

| Technical data       |                    |                    |
|----------------------|--------------------|--------------------|
|                      | <b>HSG 55</b>      | <b>HSG 85/2</b>    |
| Cutting range:       | max. ø 55 mm       | max. ø 85 mm       |
| Cutting force:       | 120 kN             | 60 kN              |
| Length:              | approx. 605 mm     | approx. 677 mm     |
| Weight:              | 7,3 kg             | 5,9 kg             |
| Ambient temperature: | -20°C up to + 40°C | -20°C up to + 40°C |

| Item   | Part. No.     |
|--|---------------|
| Hand-operated hydraulic cutting tool ø 55 mm | <b>HSG55</b>  |
| Hand-operated hydraulic cutting tool ø 85 mm | <b>HSG852</b> |
| Scope of supply                              | Part. No.     |
| Steel carrying case for HSG 55               | <b>MK55</b>   |
| Steel carrying case for HSG 85               | <b>MK85</b>   |

| Accessories                          | Part. No. |
|--------------------------------------|-----------|
| Outer, stationary blade for HSG 55   | ESG55EF   |
| Inner, moving blade for HSG 55       | ESG55ES   |
| Outer, stationary blade for HSG 85/2 | ESG85EF1  |
| Inner, moving blade for HSG 85/2     | ESG85ES1  |

**EK 50/18-L**

Battery powered crimping tool 6 - 185 mm<sup>2</sup>

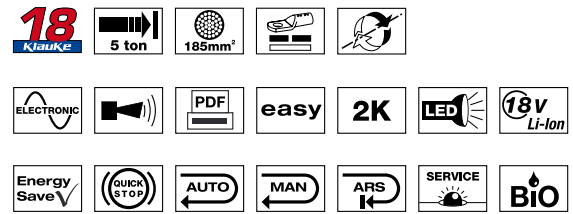
- For dies acc. to DIN 48083, sheet 1
- More reliability, performance and comfort by „Intelligent Pressing System“ (IPS)
- Automatic retraction (ARS) for quick crimping cycles

**Characteristics**

- For interchangeable dies, series 18, narrow crimping
- Rotating open crimping head, C shape
- Electronic control and inspection of crimping cycle
- Integrated pressure test with optical and acoustical signal in case of failure
- Analysis of data via optical interface and USB adapter
- One-push button operational concept for easy handling
- Two-component plastic housing with soft-filler for comfortable and safe one hand operation
- Low weight for fatigue-proof operation
- LED illuminates working area
- High performance 18 V Lithium-Ion Battery with high capacity and extremely short charging time
- Powerful motors for fast crimping cycles and efficient work
- Power save function by motor stop (automatic stop) once crimp is completed
- Quick motor stop guarantees highest safety for the operator
- Automatic retraction once crimp is completed
- Manual retract in case of need
- Automatic retraction stop (ARS) for position control during multiple crimp operations
- Multifunctional LED for maintenance indication, battery control and transmittance of datas via USB adapter
- Environment-friendly hydraulic oil, quickly bio-degradable



**Klauke® mini+**

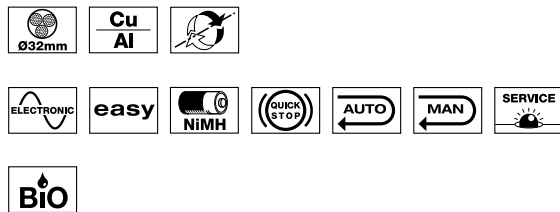


| Technical data          |  |
|-------------------------|--|
| Crimping force:         | 50 kN                                      |
| Stroke:                 | 17 mm                                      |
| Crimping range:         | 6 - 185 mm <sup>2</sup>                    |
| Crimping cycle:         | 5 s up to 6 s (depending on cross section) |
| Number of crimps:       | approx. 160 at 150 mm <sup>2</sup> Cu DIN  |
| Battery voltage:        | 18 V                                       |
| Battery capacity:       | 1,3 Ah, Li-Ion                             |
| Charging time:          | 15 min.                                    |
| Weight (incl. battery): | 2,8 kg                                     |
| Ambient temperature:    | -20°C up to +40°C                          |



| Item  | Part. No.      |
|---|----------------|
| Battery powered crimping tool 6 - 185 mm <sup>2</sup> | <b>EK5018L</b> |
| Scope of supply                                       | Part. No.      |
| Battery 18 V / 1,3 Ah, Li-Ion (23,4 Wh)               | RAL1           |
| Charger for 18 V Li-Ion batteries                     | LGL1           |
| Plastic case  | KK50L          |

| Accessories                                      | Part. No. |
|--|-----------|
| Battery 18 V / 3,0 Ah, Li-Ion (54 Wh)            | RAL2      |
| Mains adapter 18 V, 230 V mains operated         | NG2230    |
| USB-Adapter                                      | PGA1      |
| Digital meter for force and pressure measurement | TC1S      |
| Measuring adapter Series 5                       | MA5       |
| Force sensor 70 kN                               | TF70L     |



ES32E



ES32FE

■ **ES 32 / ES 32 F**

Battery powered cutting tool ø 32 mm

- Cuts multi-stranded copper and aluminium cables (ES 32)
- Cuts fine stranded and finest stranded copper cables (ES 32 F)
- Slim cutting head – designed for tight spaces

**Characteristics**

- Open cutting head, rotates 330°
- Electronic control and inspection of the crimping cycle
- One-push button operational concept for easy handling
- Ergonomic design for one hand operation
- Low weight for fatigue-proof operation
- Powerful NiMH battery technology
- Quick motor stop guarantees highest safety for the operator
- Automatic retraction when cut is complete
- Manual retract in case of need
- Multifunctional LED for maintenance indication, battery control and transmittance of datas via USB adapter
- Environment-friendly hydraulic oil, quickly bio-degradable

| Technical data          |  |
|-------------------------|--|
| Cutting range:          | ES32: multi stranded max. ø 32 mm (z.B. 4 x 50 mm <sup>2</sup> NY) ES32F: fine stranded max. ø 15 mm (z.B. H07V-R 1 x 50 mm <sup>2</sup> ) |
| Cutting force:          | 15 kN  |
| Cutting time:           | 2 s up to 4 s (Depending on cable type)  |
| Number of cuts:         | approx. 90 at H07V-R 1 x 240 mm <sup>2</sup>   |
| Battery voltage:        | 9,6 V  |
| Battery capacity:       | 2,0 Ah   |
| Charging time:          | 40 min. (15 min. with quick charger)   |
| Weight (incl. battery): | 2,0 kg   |
| Ambient temperature:    | -20°C up to +40°C  |

| Item  | Part. No.    |
|---|--------------|
| Battery powered cutting tool ø 32 mm                      | <b>ES32</b>  |
| Battery powered cutting tool ø 32 mm, fine stranded       | <b>ES32F</b> |
| Scope of supply   | Part. No.    |
| Battery 9,6 V / 2,0 Ah, NiMH                              | RAM2         |
| Charger for NiCd and NiMH batteries, 230 V mains operated | LG4F         |
| Plastic case 450 x 370 x 105 mm                           | KK35B2       |

| Accessories   | Part. No. |
|---|-----------|
| Spare blade set for ES32  | ES32E     |
| Spare blade set for ES32F                                       | ES32FE    |
| Quick charger for NiCd and NiMH batteries, 230 V mains operated | LG5       |
| USB-Adapter   | PGA1      |

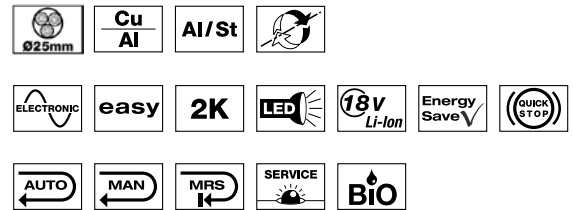
**■ ESG 25-L**

Battery powered cutting tool ø 25 mm

- Cuts armoured copper, aluminium cables and Al/St cables (ACSR) and round material (Cu, Al, St)
- Excellent cutting properties for high flexible conductors and steel cables
- Extreme low weight and sturdy design

**Characteristics**

- Closed rotating cutting head, flip top style
- Electronic control and inspection of the crimping cycle
- One-push button operational concept for easy handling
- Two-component plastic housing with soft-filler for comfortable and safe one hand operation
- Balanced center of gravity for easy and fatigue-proof operation
- LED illuminates working area
- High performance 18 V Lithium-Ion Battery with high capacity and extremely short charging time
- Powerful motor for fast cutting cycles and efficient work
- Power safe function by motor stop (automatic stop) once cut is completed
- Quick motor stop guarantees highest safety for the operator
- Automatic retraction when cut is complete
- Manual retract in case of need
- Manual retraction stop (MRS) for efficient operations
- Multifunctional LED for maintenance indication, battery control and transmittance of datas via USB adapter
- Environment-friendly hydraulic oil, quickly bio-degradable



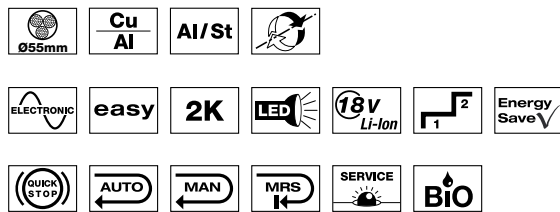
| Technical data          |                         |
|-------------------------|-------------------------|
| Cutting range:          | max. ø 25 mm            |
| Cutting force:          | 50 kN                   |
| Cutting time:           | Depending on cable type |
| Number of cuts:         | Depending on cable type |
| Battery voltage:        | 18 V                    |
| Battery capacity:       | 1,3 Ah, Li-Ion          |
| Charging time:          | 15 min.                 |
| Weight (incl. battery): | 2,1 kg                  |
| Ambient temperature:    | -20°C up to +40°C       |

| Item                                  | Part. No.     |
|---------------------------------------|---------------|
| Battery powered cutting tool ø 25 mm  | <b>ESG25L</b> |
| Scope of supply                       | Part. No.     |
| Battery 18 V / 3,0 Ah, Li-Ion (54 Wh) | RAL2          |
| Charger for 18 V Li-Ion batteries     | LGL1          |
| Plastic case                          | KK50L         |

| Accessories                              | Part. No. |
|--|-----------|
| Outer, stationary blade                  | ESG25EF   |
| Inner, moving blade                      | ESG25ES   |
| Mains adapter 18 V, 230 V mains operated | NG2230    |
| USB-Adapter                              | PGA1      |



Battery powered cutting tools



**ESG 55-L**

Battery powered cutting tool ø 55 mm

- Cuts armoured copper and aluminium cables and Al/St cables (ACSR)
- Suitable for Al, Cu and steel round material
- 120 kN cutting force for max. performance

**Characteristics**

- Closed cutting head with locking device, rotating flip top style
- Electronic control and inspection of the crimping cycle
- One-push button operational concept for easy handling
- Two-component plastic housing with soft-filler for comfortable and safe one hand operation
- Balanced center of gravity for easy and fatigue-proof operation
- LED illuminates working area
- High performance 18 V Lithium-Ion Battery with high capacity and extremely short charging time
- Powerful motor for fast cutting cycles and efficient work
- Two stage hydraulic system with quick feed and power stroke
- Power safe function by motor stop (automatic stop) once cut is completed
- Quick motor stop guarantees highest safety for the operator
- Automatic retraction when cut is complete
- Manual retract in case of need
- Manual retraction stop (MRS) for efficient operations
- Multifunctional LED for maintenance indication, battery control and transmittance of datas via USB adapter
- Environment-friendly hydraulic oil, quickly bio-degradable



ESG55EF



ESG55ES

| Technical data          |   |
|-------------------------|---|
| Cutting range:          | max. ø 55 mm                              |
| Cutting force:          | 120 kN                                    |
| Cutting time:           | 10 s up to 19 s (Depending on cable type) |
| Number of cuts:         | Depending on cable type                   |
| Battery voltage:        | 18 V                                      |
| Battery capacity:       | 3,0 Ah, Li-Ion                            |
| Charging time:          | 22 min.                                   |
| Weight (incl. battery): | 8,0 kg                                    |
| Ambient temperature:    | -20°C up to +40°C                         |

| Item                                  | Part. No.     |
|---------------------------------------|---------------|
| Battery powered cutting tool ø 55 mm  | <b>ESG55L</b> |
| Scope of supply                       |               |
| Battery 18 V / 3,0 Ah, Li-Ion (54 Wh) | RAL2          |
| Charger for 18 V Li-Ion batteries     | LGL1          |
| Plastic case                          | KK120L        |

| Accessories                              | Part. No. |
|--|-----------|
| Outer, stationary blade                  | ESG55EF   |
| Inner, moving blade                      | ESG55ES   |
| Mains adapter 18 V, 230 V mains operated | NG2230    |
| USB-Adapter                              | PGA1      |

**■ ES 65-L**

Battery powered cutting tool ø 65 mm

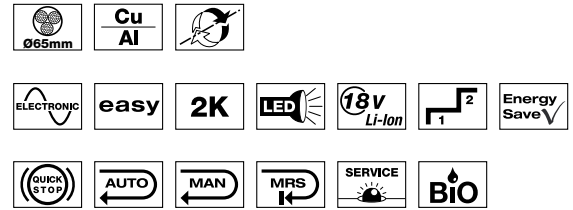
- **Cuts copper and aluminium cables with little armouring (depending on cable type)**
- **Also suitable for fine stranded cables**

**Characteristics**

- Rotating open cutting head
- Electronic control and inspection of the crimping cycle
- One-push button operational concept for easy handling
- Two-component plastic housing with soft-filler for comfortable and safe one hand operation
- Balanced center of gravity for easy and fatigue-proof operation
- LED illuminates working area
- High performance 18 V Lithium-Ion Battery with high capacity and extremely short charging time
- Powerful motor for fast cutting cycles and efficient work
- Two stage hydraulic system with quick feed and power stroke
- Power safe function by motor stop (automatic stop) once cut is completed
- Quick motor stop guarantees highest safety for the operator
- Automatic retraction when cut is complete
- Manual retract in case of need
- Manual retraction stop (MRS) for efficient operations
- Multifunctional LED for maintenance indication, battery control and transmittance of datas via USB adapter
- Environment-friendly hydraulic oil, quickly bio-degradable



**Klauke® ultra+**



| Technical data          |                         |
|-------------------------|-------------------------|
| Cutting range:          | max. ø 65 mm            |
| Cutting force:          | 40 kN                   |
| Cutting time:           | Depending on cable type |
| Number of cuts:         | Depending on cable type |
| Battery voltage:        | 18 V                    |
| Battery capacity:       | 3,0 Ah, Li-Ion          |
| Charging time:          | 22 min.                 |
| Weight (incl. battery): | 6,3 kg                  |
| Ambient temperature:    | -20°C up to +40°C       |

| Item                                  | Part. No.    |
|---------------------------------------|--------------|
| Battery powered cutting tool ø 65 mm  | <b>ES65L</b> |
| Scope of supply                       | Part. No.    |
| Battery 18 V / 3,0 Ah, Li-Ion (54 Wh) | RAL2         |
| Charger for 18 V Li-Ion batteries     | LGL1         |
| Plastic case                          | KK120L       |

| Accessories                              | Part. No. |
|--|-----------|
| Mains adapter 18 V, 230 V mains operated | NG2       |
| Spare blade                              | ES65E     |
| USB-Adapter                              | PGA1      |



**ES65E**



**SDG 55**

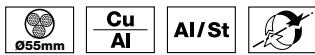
Hydraulic cutting head ø 55 mm

- Cuts armoured copper and aluminium cables and Al/St cables (ACSR)
- Suitable for Al, Cu and steel round material
- 120 kN cutting force for max. performance

**Characteristics**

- Closed cutting head with locking device, flip top style, rotates 360° at non pressurized condition, with quick coupling
- For connection with hydraulic drive units operating at 700 bar
- Ergonomic handling

| Technical data      |              |
|---------------------|--------------|
| Cutting range:      | max. ø 55 mm |
| Cutting force:      | 120 kN       |
| Operating pressure: | max. 700 bar |
| Length:             | 380 mm       |
| Weight:             | 5,6 kg       |



ESG55EF



ESG55ES

| Item                           | Part. No.    |
|--------------------------------|--------------|
| Hydraulic cutting head ø 55 mm | <b>SDG55</b> |
| Scope of supply                | Part. No.    |
| Carrying bag                   | TT2          |

| Accessories             | Part. No. |
|-------------------------|-----------|
| Outer, stationary blade | ESG55EF   |
| Inner, moving blade     | ESG55ES   |



**SDK 65**

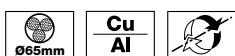
Hydraulic cutting head ø 65 mm

- Cuts copper and aluminium cables with little armouring (depending on cable type)
- Also suitable for fine stranded cables

**Characteristics**

- Open cutting head with quick coupling, rotates 360° at non pressurized condition
- For connection with hydraulic drive units operating at 700 bar
- High base stability by double handle

| Technical data      |              |
|---------------------|--------------|
| Cutting range:      | max. ø 65 mm |
| Cutting force:      | 42 kN        |
| Operating pressure: | max. 700 bar |
| Length:             | 425 mm       |
| Weight:             | 4,7 kg       |



ES65E

| Item                           | Part. No.    |
|--------------------------------|--------------|
| Hydraulic cutting head ø 65 mm | <b>SDK65</b> |
| Scope of supply                | Part. No.    |
| Carrying bag                   | TT4          |

| Accessories | Part. No. |
|-------------|-----------|
| Spare blade | ES65E     |

■ **AS 65 FHP / AS 105 FHP / AS 120 FHP**

- AS 65 FHP: Hydraulic cutting tool with foot pump ø 65 mm
- AS 105 FHP: Hydraulic cutting tool with foot pump ø 105 mm
- AS 120 FHP: Hydraulic cutting tool with foot pump ø 120 mm

- Cuts copper and aluminium cables with little armouring (depending on cable type)
- Also suitable for fine stranded cables and telecommunication cables
- Foot pump with two-stage hydraulics

**Characteristics**

- Open cutting head with quick coupling, rotates 360° at non pressurized condition
- High-pressure hose, 2 m
- Manual retract in case of need, even at high pressure

| Technical data      |              |               |               |
|---------------------|--------------|---------------|---------------|
|                     | AS65FHP      | AS105FHP      | AS120FHP      |
| Cutting range:      | max. ø 65 mm | max. ø 105 mm | max. ø 120 mm |
| Cutting force:      | 42 kN        | 74 kN         | 55 kN         |
| Weight:             | 16,7 kg      | 19,7 kg       | 20,7 kg       |
| Operating pressure: | max. 700 bar | max. 700 bar  | max. 700 bar  |

| Item   | Part. No.       |
|--|-----------------|
| Hydraulic cutting tool with foot pump ø 65 mm  | <b>AS65FHP</b>  |
| Hydraulic cutting tool with foot pump ø 105 mm | <b>AS105FHP</b> |
| Hydraulic cutting tool with foot pump ø 120 mm | <b>AS120FHP</b> |
| Scope of supply                                | Part. No.       |
| High-pressure hose, 2 m                        | <b>HS22</b>     |
| Steel carrying case                            | <b>MKU</b>      |

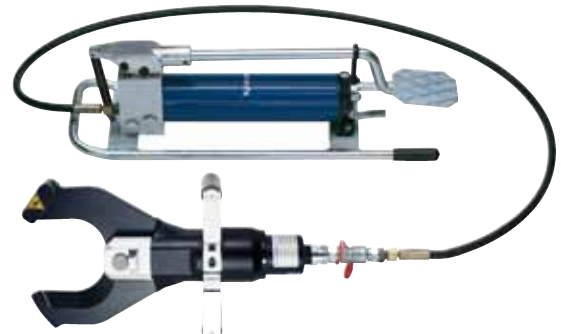
| Accessories                                      | Part. No.     |
|--|---------------|
| High-pressure hose, 3 m                          | <b>HS23</b>   |
| High-pressure hose, 4 m                          | <b>HS24</b>   |
| High-pressure hose, 5 m                          | <b>HS25</b>   |
| High-pressure hose, 6 m                          | <b>HS26</b>   |
| High-pressure hose, 8 m                          | <b>HS28</b>   |
| High-pressure hose, 10 m                         | <b>HS210</b>  |
| Digital meter for force and pressure measurement | <b>TC1S</b>   |
| Pressure sensor 1000 bar                         | <b>TP1000</b> |
| Spare blade for AS65FHP                          | <b>ES65E</b>  |
| Spare blade for AS105FHP                         | <b>ES105E</b> |
| Spare blade for AS120FHP                         | <b>ES120E</b> |



**AS 65 FHP**



**ES65E**



**AS 105 FHP / AS 120 FHP**



**ES105E**



**ES120E**

Adapter



**PGA 1**

USB-Adapter

- Easy connection with PC via USB interface
- Free of charge download of software „PGAWIN“ at [www.klauke.com](http://www.klauke.com)
- Statistical analysis of the average behaviour of hydraulic crimping tools

**Characteristics**

- Documentation of faultless functions of hydraulic crimping tools with „Intelligent Pressing System“ - IPS
- Statistical analysis of the crimping process
- Suitable to readout datas of the Klauke tool series „Generation Plus“ and forerunner models with multifunction LED display
- Transmittance of crimping and machine datas from the tool to the PC
- Test report with indication of date and time as PDF document



| Technical data       |                    |
|----------------------|--------------------|
| System requirements: | from Windows XP    |
| Length:              | 1,80 m (USB cable) |
| Version:             | USB 2.0            |
| Weight:              | 315 g              |

| Item        | Part. No.   |
|-------------|-------------|
| USB-Adapter | <b>PGA1</b> |

**NG 2**

18 V Mains adapter for 115 V or 230 V

**Characteristics**

- For all Klauke tools operating with 18 V batteries
- Temperature protection
- Starting current limitation
- Overload protection 250 V



| Technical data |               |
|----------------|---------------|
| Voltage range: | 18 V          |
| Netzanschluss: | 115 V / 230 V |
| Weight:        | 0,8 kg        |

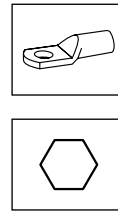
| Item                                       | Part. No.     |
|--|---------------|
| 18 V Mains adapter for 115 V mains voltage | <b>NG2115</b> |
| 18 V Mains adapter for 230 V mains voltage | <b>NG2230</b> |

**■ Crimping dies HR 5**

**Suitable for:**

- Copper tubular cable lugs and connectors „Standard design“

| mm <sup>2</sup> | Part. No.      | Crimp width mm |  |
|-----------------|----------------|----------------|--|
| 6 + 35          | <b>HR5635</b>  | 5              |  |
| 10 + 50         | <b>HR51050</b> | 5              |  |
| 16 + 70         | <b>HR51670</b> | 5              |  |
| 25 + 95         | <b>HR52595</b> | 5              |  |
| 120             | <b>HR5120</b>  | 5              |  |
| 150             | <b>HR5150</b>  | 5              |  |
| 185             | <b>HR5185</b>  | 5              |  |
| 240             | <b>HR5240</b>  | 5              |  |

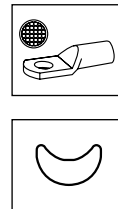


**■ Crimping dies HF 5**

**Suitable for:**

- Copper tubular cable lugs and connectors for fine stranded conductors

| mm <sup>2</sup> | Part. No.    |  |  |
|-----------------|--------------|--|--|
| 10              | <b>HF510</b> |  |  |
| 16              | <b>HF516</b> |  |  |
| 25              | <b>HF525</b> |  |  |
| 35              | <b>HF535</b> |  |  |
| 50              | <b>HF550</b> |  |  |

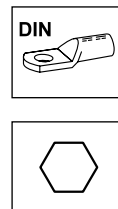


**■ Crimping dies HD 5**

**Suitable for:**

- Copper compression cable lugs and connectors acc. to DIN 46235 / DIN 46247

| mm <sup>2</sup> | Part. No.      | Crimp width mm | Kennziffer |
|-----------------|----------------|----------------|------------|
| 6 + 35          | <b>HD5635</b>  | 5              | 5 + 12     |
| 10 + 50         | <b>HD51050</b> | 5              | 6 + 14     |
| 16 + 70         | <b>HD51670</b> | 5              | 8 + 16     |
| 25 + 95         | <b>HD52595</b> | 5              | 10 + 18    |
| 120             | <b>HD5120</b>  | 5              | 20         |
| 150             | <b>HD5150</b>  | 5              | 22         |
| 185             | <b>HD5185</b>  | 5              | 25         |

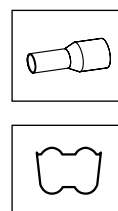


**■ Crimping dies HAES 5**

**Suitable for:**

- Cable end-sleeves
- Special trapezoid crimp for „compacted“ fine stranded conductors

| mm <sup>2</sup> | Part. No.      | Crimp width mm |  |
|-----------------|----------------|----------------|--|
| 10              | <b>HAES510</b> | 20             |  |
| 16              | <b>HAES516</b> | 20             |  |
| 25              | <b>HAES525</b> | 20             |  |
| 35              | <b>HAES535</b> | 20             |  |
| 50              | <b>HAES550</b> | 20             |  |
| 70              | <b>HAES570</b> | 20             |  |
| 95              | <b>HAES595</b> | 20             |  |

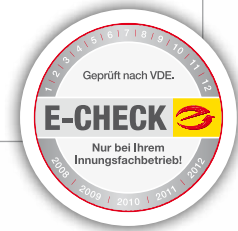


Klauke tools get the knack of it. As soon as the set torque has been reached the torque wrench releases automatically and you can rely on constant quality standards. In addition the release accuracy of  $\pm 4\%$  and the calibration certificate assure ISO certified operating cycles at all times.

**It's 100% quality Made in Germany.**

#### Highlights

- Small installation size for versatile application (for instance in cable trenches and hard to reach areas)
- Automatic release once set torque value is reached
- Built in ratchet for right and left hand operation
- Friction locked interlocking system at the square with a withdrawal force up to 50 Nm (EC/IEC 60900:2004)
- Torque range 5 – 25 Nm
- Fixation of alarm value at the turning handle without any additional setting tools
- Quick meter-reading of values at clearly arranged scale
- Threshold value of the  $\pm 4\%$  accuracy per ISO 6789:2003
- Calibration certification and serial number
- Safety by 2 coloured multi-layer insulation



**■ Combination pliers bent**

VDE-version and standard version

- With combination ring spanner 11 - 17 mm (M8 - M10)

**Suitable for:**

- Holds flat and round material
- Blades for hard and soft wires

**Characteristics**

- DIN ISO 5746
- Inductive hardened blades for hard and soft wire
- Force trade for optimal lever transmission
- Special tool steel drop-forged, oil-hardened
- 2 components safety handles



| Item  | Length | Part. No.         |
|---|--------|-------------------|
| Combination pliers bent <b>VDE-version</b>      | 205 mm | <b>KL026205IS</b> |
| Combination pliers bent <b>VDE-version</b>      | 250 mm | <b>KL026250IS</b> |
| Item  |        | Part. No.         |
| Combination pliers bent <b>Standard version</b> | 205 mm | <b>KL026205</b>   |
| Combination pliers bent <b>Standard version</b> | 250 mm | <b>KL026250</b>   |

**■ VDE-Screwdrivers M-TEC**

- With magnet – depth of immersion up to 41 mm

**Suitable for:**

- Nuts on long threaded rods
- Bolts and nuts to be fixed in hard to reach areas

**Characteristics**

- Spring-loaded magnet body
- With box spanner tube – depth of immersion up to 41 mm



| Item                            | Part. No.         | Dimensions mm | For thread | Weight g | Packing Unit/ pcs |
|---------------------------------|-------------------|---------------|------------|----------|-------------------|
| VDE-Screwdrivers M-TEC size 5,5 | <b>KL14555IS</b>  | 5,5           | M3         | 100      | 12                |
| VDE-Screwdrivers M-TEC size 6   | <b>KL14560IS</b>  | 6             | M3,5       | 100      | 12                |
| VDE-Screwdrivers M-TEC size 7   | <b>KL14570IS</b>  | 7             | M4         | 100      | 12                |
| VDE-Screwdrivers M-TEC size 8   | <b>KL14580IS</b>  | 8             | M5         | 110      | 12                |
| VDE-Screwdrivers M-TEC size 10  | <b>KL145100IS</b> | 10            | M6         | 110      | 12                |
| VDE-Screwdrivers M-TEC size 13  | <b>KL145130IS</b> | 13            | M8         | 110      | 12                |

**■ KL920 L**

**Characteristics**

- **Outside:**
  - 1 large lockable insertion pocket, 9 pockets for tools
  - 2 boxes for small parts, 2 hook-and-loop fasteners for spirit-levels
- **Inside:**
  - 3 large pockets for tools, 14 loops for tools

| Item   | Part. No.     |
|--|---------------|
| Universal tool bag, size: 300 x 200 x 200 mm | <b>KL920L</b> |





### ■ Battery powered punch driver LS 50-L FLEX

Flexible electro hydraulic punch driver

- Rotating head
- Li-Ion technology
- Punching capacity:  
Special shape punches 92 x 92 mm (2 mm mild steel)  
Round punches 80 mm (3 mm mild steel / 2 mm stainless steel)
- Automatic stop makes the punching tools last longer
- Punching force 50 kN
- Weight incl. battery (3 Ah / 18 V) 2,0 kg
- Complete set includes draw studs, step bit and spacer, battery and battery charger in plastic case

| Technical data          |  |
|-------------------------|--|
| Punching force:         | 50 kN  |
| Weight (incl. battery): | approx. 2,0 kg   |
| Drive motor:            | DC permanent field motor   |
| Battery voltage:        | 18 V DC  |
| Battery capacity:       | 3 Ah (RAL2/BL1830) oder 1,5 Ah (RAL1/BL1815)   |
| Charging time:          | 22 min. (RAL2/BL1830) oder 15 min. (RAL1/BL1815)   |
| Punching time:          | 5 s at ø 22,5 mm, 3 mm mild steel<br>6 s at ø 63,5 mm, 3 mm mild steel   |
| Capacity:               | 120 punch operations at ø 22,5 mm, 3,4 mm mild steel resp.<br>190 punch operations at ø 22,5 mm, 3 mm mild steel resp.<br>180 punch operations at ø 22,5 mm, 2,5 mm mild steel |
| Hydraulic oil:          | Rivolta S.B.H. 11  |
| Ambient temperature:    | -20°C up to + 40°C   |
| Noise level:            | 70,6 dB (A) within 1 m distance  |

| Item  | Part. No.        |
|---|------------------|
| Battery powered punch driver LS 50-L FLEX     | <b>LS50LFLEX</b> |
| Scope of supply                               |                  |
| Battery charger 230 V with Euro plug, Li-Ion  | LGL1             |
| Battery 18 V / 3,0 Ah, Li-Ion, Makita BL 1830 | RAL2             |
| Draw Stud 9,5 mm / 19 mm                      | 52042827         |
| Draw Stud 19 mm                               | 50318721         |
| Spacer, short LS60                            | 50032488         |
| Kwik Stepper Step Bit                         | 52049371         |
| Plastic case                                  | KK50LFLEX        |

## Battery powered punch driver LS 60-L

Electro-hydraulic punch driver with microprocessor control

- Automatic stop makes the punching tools last longer
- Automatic retraction
- Automatic battery charge status detection

### Suitable for:

- Punches up to 92 x 92 mm resp. 46 x 92 mm and punches 68 x 68 mm resp. ISO 63 (64 mm  $\varnothing$ ) round, 3 mm mild steel
- Round punches 96 mm, 2,5 mm mild steel
- Slug Splitter round punches up to 64 mm, 2,5 mm stainless steel

| Technical data          |  |
|-------------------------|--|
| Punching force:         | 60 kN  |
| Weight (incl. battery): | 4,0 kg   |
| Punching capacity:      | Special shape punches 105 x 105 mm (mild steel 2 mm)<br>Round punches 96 mm (ST37 2,5 / VA 1,5 mm) |

| Item   | Part. No.    |
|--|--------------|
| LS 60-L Battery powered punch driver             | <b>LS60L</b> |
| Scope of supply                                  | Part. No.    |
| Draw studs for hydraulic operation 9,5 x 71 mm   | 51300430     |
| Draw studs for hydraulic operation 19 x 135 mm   | 52045040     |
| Spacer, short                                    | 50032488     |
| Adapter 19,0 x 48 mm with internal thread 9,5 mm | 50339672     |
| Kwik Stepper Step Bit                            | 52049371     |
| Plastic case                                     | KKLS60LGL    |
| Impulse charger 230 V                            | LGL1         |
| Battery 12 V / 3,0 Ah, Li-Ion                    | RAL2         |



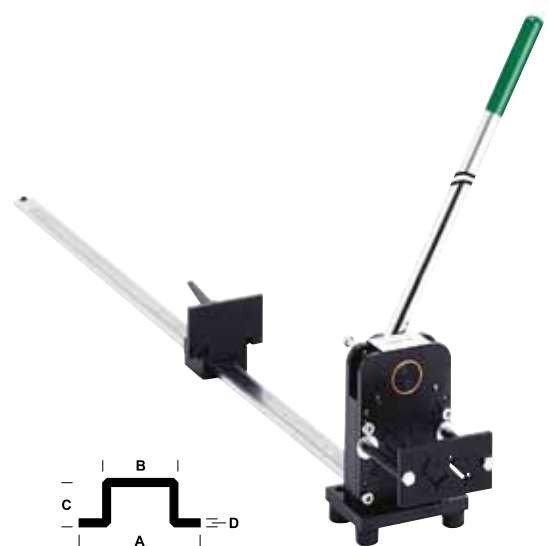
## DIN Rail Cutter

- For burr-free cutting
- Little effort required
- Includes die-plate with 2 profiles

### Suitable for:

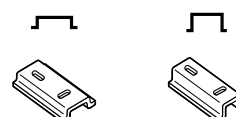
- With holes for workbench assembly
- Manual operation

| Item            | Part. No.       |
|-----------------|-----------------|
| DIN Rail Cutter | <b>52055684</b> |



A - 35,0 mm  
B - 27,0 mm  
C - 7,5 mm  
D - 1,0 mm

A - 35,0 mm  
B - 27,0 mm  
C - 15,0 mm  
D - 1,5 mm



# A series of heroes

Greenlee celebrates the introduction of the new heroes. The innovative generation of the new cable pulling systems convinces by approved quality and many clever details for professional cable installation. As with authentic heroes you can rely on a strong performance whenever needed.

## Speedy Spinner

### The quick hero.

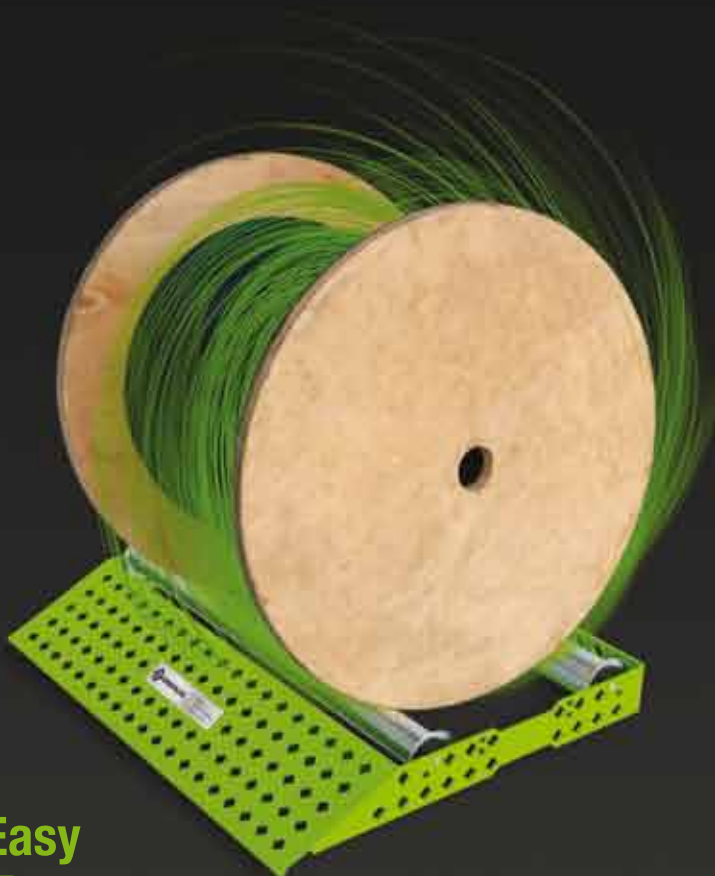
With a flexible fibreglass tape in a unique winder case for quick and easy pulling operations.

## Smart Butler

### The efficient hero.

A practical and sturdy construction for a low friction reeling and unwinding.

> [www.klauke.com](http://www.klauke.com)



## Easy Roller

**The lightweight and robust hero.**  
A well-thought-out unit for easy handling  
of cable rollers.

Voltage Tester



**GT-12**

Non-contacting voltage tester 50 - 1000 V

**Characteristics**

- Fast, easy, non-contacting voltage detection
- Clear LED and acoustic warning signal when voltage has been located
- ON/OFF switch for longer battery service life
- Handy pen design which fits into a jacket or tool pocket
- Rubberized comfort handle
- Fast, easy replacement of batteries
- Automatic self test

| Technical data      |                |
|---------------------|----------------|
| Voltage range:      | AC 50 - 1000 V |
| Frequency:          | 50 - 500 Hz    |
| Measuring category: | CAT IV 1000 V  |

| Item  | Part. No.       |
|---|-----------------|
| GT-12 Non-contacting voltage tester 50 - 1000 V | <b>52042113</b> |
| Scope of supply                                 | Part. No.       |
| Batteries 2 x 1,5 V AAA                         |                 |



**GT-16**

Adjustable non-contacting voltage tester 5 - 1000 V

**Characteristics**

- Fast, easy, non-contacting voltage detection
- Clear LED and acoustic warning signal when voltage has been located
- ON/OFF switch for longer battery service life
- Handy pen design which fits into a jacket or tool pocket
- Ergonomic comfort handle
- Fast, easy replacement of batteries
- Automatic self test
- Adjustable sensitivity by turn switch

| Technical data      |               |
|---------------------|---------------|
| Voltage range:      | AC 5 - 1000 V |
| Frequency:          | 50 - 500 Hz   |
| Measuring category: | CAT IV 1000 V |

| Item  | Part. No.       |
|---|-----------------|
| GT-16 Adjustable non-contacting voltage tester 5 - 1000 V | <b>52033580</b> |
| Scope of supply   | Part. No.       |
| Battery 1 x 1,5 V AAA                                     |                 |

**GT-55NE**

Double-pole voltage tester with LED display

- Schuko compatible (19 mm distance)
- One hand operation

**Characteristics**

- IP64 - splash water proof and dust tight
- Display for AC and DC
- LED display 12, 24, 50, 120, 230, 400, 750 V AC/DC
- Single-pole phase testing, optical and acoustical
- Polarity display, loud beeper
- Unique measuring point illumination for working under poor light conditions

| Technical data      |                               |
|---------------------|-------------------------------|
| Voltage range:      | 12 - 750 V AC/DC              |
| Frequency:          | 45 - 65 Hz                    |
| Measuring category: | CAT III 1000 V / CAT IV 600 V |

| Item  | Part. No.       |
|---|-----------------|
| GT-55NE Double-pole voltage tester with LED display | <b>52049408</b> |
| Scope of supply                                     | Part. No.       |
| Batteries 2 x 1.5 V AAA                             |                 |



**GT-85NE**

Double-pole voltage tester with LCD display

- LCD display with backlight
- True resistance measurement up to 2000 Ω
- Two-pole rotary field testing
- Schuko compatible (19 mm distance)

**Characteristics**

- IP65 - splash water proof and dust tight
- Display for AC and DC
- Single-pole phase testing, optical and acoustical
- Continuity check, optical and acoustical
- Diode test
- Polarity display, loud beeper
- Unique measuring point illumination for working under poor light conditions
- Frequency display

| Technical data      |                               |
|---------------------|-------------------------------|
| Voltage range:      | 12 - 750 V AC/DC              |
| Resistance:         | 0 - 2000 Ω                    |
| Frequency:          | 1 - 999 Hz                    |
| Measuring category: | CAT III 1000 V / CAT IV 600 V |

| Item  | Part. No.       |
|---|-----------------|
| GT-85NE Double-pole voltage tester with LCD display | <b>52049407</b> |
| Scope of supply                                     | Part. No.       |
| Batteries 2 x 1,5 V AAA                             |                 |





### DM-200A / DM-210A

Digital Multimeter

- PC-Interface (DMSC-2U) USB, RS-232 cable and software for data recording via PC software

#### Characteristics

- Automatic and manual range selection
- Large LCD Display with backlight
- Automatic shut off
- Analog bargraph
- Optical and acoustic warning in case of incorrect handling

| Technical data           |  |                              |
|--------------------------|--|------------------------------|
|                          | DM-200A                                | DM-210A                      |
| Voltage measurement:     | 0,01 mV - 1000 V AC/DC                 | 0,01 mV - 1000 V AC/DC       |
| Current measurement:     | 0,1 $\mu$ A - 8A AC/DC                 | 0,1 $\mu$ A - 8A AC/DC       |
| Resistance:              | 0,1 $\Omega$ - 60 M $\Omega$           | 0,1 $\Omega$ - 60 M $\Omega$ |
| Voltage response range:  | 30 - 500 V                             | 30 - 500 V                   |
| Capacity:                |  | 60,00 nF - 3000 $\mu$ F      |
| Temperature measurement: |  | -50°C - 1000°C               |
| Frequency:               | 5,00 Hz - 1,000 MHz                    | 5,00 Hz - 1,000 MHz          |
| Measuring category:      | CAT II 1000 V, CAT III 600, CAT IV 300 |                              |

| Item                       | Part. No.   |           |
|----------------------------|-------------|-----------|
| DM-200A Digital Multimeter | 52047801    |           |
| DM-210A Digital Multimeter | 52047802    |           |
| Scope of supply            | Description | Part. No. |
| TSG-3                      | Test leads  | 50120344  |
| Protective covering        |             |           |
| Batteries 2 x 1,5 V AAA    |             |           |

| Accessories | Description                            | Part. No. |
|-------------|--|-----------|
| TC-20       | Nylon bag with carrying handle         | 50075357  |
| DMSC-2U     | Interface kit for downloading of datas | 50075551  |

## DM-510A

Digital Multimeter, True RMS

- **Autocheck function enables automatic selection of AC/DC voltage or resistance with low electric impedance for ghost-voltage-elimination**
- **PC-Interface (DMSC-2U) RS232C + USB cable and software for data recording via PC software**

### Characteristics

- Frequency-, temperature- and capacity measurement
- Automatic and manual range selection
- Large LCD Display with backlight
- Automatic shut off
- Analog bargraph
- Optical and acoustic warning in case of incorrect handling



| Technical data           |  |
|--------------------------|--|
| Voltage measurement:     | 0,01 mV - 1000 V AC/DC                 |
| Current measurement:     | 0,1 $\mu$ A - 8A AC/DC                 |
| Resistance:              | 0,1 $\Omega$ - 60 M $\Omega$           |
| Voltage response range:  | 30 - 500 V                             |
| Capacity:                | 60,00 nF - 3000 $\mu$ F                |
| Temperature measurement: | -50°C - 1000°C                         |
| Frequency:               | 5,00 Hz - 1,000 MHz                    |
| Measuring category:      | CAT II 1000 V, CAT III 600, CAT IV 300 |

| Item                                 | Part. No.   |           |
|--------------------------------------|-------------|-----------|
| DM-510A Digital Multimeter, True RMS | 52047803    |           |
| Scope of supply                      | Description | Part. No. |
| TSG-3                                | Test leads  | 50120344  |
| Batteries 2 x 1,5 V AAA              |             |           |
| Temperature probe, blank             |             |           |

| Accessories | Description                    | Part. No. |
|-------------|--------------------------------|-----------|
| TC-20       | Nylon bag with carrying handle | 50075357  |





**DM-810A**

Digital Multimeter, True RMS

- **PC-Interface (DMSC-9U) USB cable and software for data recording via PC software**

**Characteristics**

- Automatic and manual range selection
- Large LCD Display with backlight
- Automatic shut off
- Analog bargraph
- Optical and acoustic warning in case of incorrect handling

| Technical data       |                              |
|----------------------|------------------------------|
| Voltage measurement: | 0,01 mV - 1000 V AC/DC       |
| Current measurement: | 0,1 $\mu$ A - 10A AC/DC      |
| Resistance:          | 0,1 $\Omega$ - 60 M $\Omega$ |
| Capacity:            | 0,01 nF - 25 mF              |
| Frequency:           | 5,00 Hz - 1,000 MHz          |
| Measuring category:  | CAT IV 1000 V                |

| Item                                 | Part. No.                      |           |
|--------------------------------------|--------------------------------|-----------|
| DM-810A Digital Multimeter, True RMS | <b>52047805</b>                |           |
| Scope of supply                      | Description                    | Part. No. |
| TSG-3                                | Test leads                     | 50120344  |
| TC-20                                | Nylon bag with carrying handle | 50075357  |
| Battery 9 V                          |                                |           |

| Accessories | Description                            | Part. No. |
|-------------|--|-----------|
| CMSC-9U     | Interface kit for downloading of datas | 50077554  |
| TSGF        | Measuring cable set with fuse          | 52034235  |

**DM-820A**

Digital Multimeter, True RMS

- PC-Interface (DMSC-9U) USB cable and software for data recording via PC software
- Recording of peak value (5 ms Peak Hold) max, min and max/min results

**Characteristics**

- Automatic and manual range selection
- Large LCD Display with backlight
- Automatic shut off
- Analog bargraph
- Optical and acoustic warning in case of incorrect handling



| Technical data           |                        |
|--------------------------|------------------------|
| Voltage measurement:     | 0,01 mV - 1000 V AC/DC |
| Current measurement:     | 0,1 µA - 10A AC/DC     |
| Resistance:              | 0,1 Ω - 60 MΩ          |
| Capacity:                | 0,01 nF - 25 mF        |
| Temperature measurement: | -50°C - 1000°C         |
| Frequency:               | 5,00 Hz - 1,000 MHz    |
| Measuring category:      | CAT IV 1000V           |

| Item                                 | Part. No.                      |           |
|--------------------------------------|--------------------------------|-----------|
| DM-820A Digital Multimeter, True RMS | <b>52047806</b>                |           |
| Scope of supply                      | Description                    | Part. No. |
| TSG-3                                | Test leads                     | 50120344  |
| TC-20                                | Nylon bag with carrying handle | 50075357  |
| Battery 9 V                          |                                |           |
| Temperature probe, blank             |                                |           |

| Accessories | Description                            | Part. No. |
|-------------|--|-----------|
| DMSC-9U     | Interface kit for downloading of datas | 50077554  |
| TSGF        | Measuring cable set with fuse          | 52034235  |





Strong brands for your success:

**Klauke**<sup>®</sup>



**Gustav Klauke GmbH**

Auf dem Knapp 46  
D-42855 Remscheid

Phone: +49 (0) 2191 / 907 - 0

Fax: +49 (0) 2191 / 907 - 205

E-Mail: [info@klauke.textron.com](mailto:info@klauke.textron.com)

Internet: [www.klauke.com](http://www.klauke.com)