



FULL LINE CATALOGUE 2010/2011

Electrical connection systems
Tools and measuring instruments



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

Klauke[®]
A Textron Company



Dear customer,

A very warm welcome to the new Klauke Catalogue. A catalogue very much dedicated to the "Generation Safety Plus". The new generation of hydraulic crimping and cutting tools combines proved and tested Klauke technologies and benefits with even more intelligence, performance and ergonomics. Everything needed to work with our tools even safer and facilitating easy operation.

In addition we are extending our range with professional crimping tools for plug connection systems in the photovoltaic sector and special ergonomic tools for processing cable end sleeves. All this emphasises also this year our company's innovative strength. Within the Greenlee range the next generation of battery-powered hydraulic punching tools, MagnumPro fish tapes and innovative voltage testers, multimeters and VDE testers is available. All new developments with specific product benefits and advantages for the user.

The product range:

Klauke® *Electrical connection systems, crimping, cutting and hand tools*



GREENLEE®
A Textron Company

Punching and processing tools, cable pulling technology, testing, measuring and inspection equipment

Connections with a system – the Power of Partnership: our philosophy to connect man and technology in a unique way which in addition creates the basis for a one-of-a-kind relationship between you and ourselves.

*Yours sincerely
Klauke Team*

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



Faster. Stronger. Better.
For you in this catalogue.

Klauke stands for permanent development and constant product improvement.

Generation Safety Plus

Hydraulic crimping tools

EK 50/5-L



EK 60/22-L



- ▶ Intelligent Pressing System – IPS
- ▶ Integrated pressure sensor, evaluation function via USB adapter
- ▶ Powerful 18 V Li-Ion battery

[More from page 302](#)

Hydraulic cutting tools

ESG 85-L



- ▶ Robust and lightweight cutting heads
- ▶ Cutting range up to \varnothing 105 mm, also for armoured cables
- ▶ Manual retraction stop – MRS

[More from page 326](#)

Hydraulic universal tools

EK 60 UNV-L



- ▶ One tool for cutting, crimping and punching
- ▶ Also as 12-ton version: EK 120 UNV-L
- ▶ Time saving by MRS+ function

[More from page 330](#)

Crimping dies series 5

Series 5



5
Klauke

- ▶ For 5 ton crimping tool EK 50/5-L
- ▶ Crimping dies with double profile
- ▶ Crimping range up to 240 mm² (Cu)

[More from page 397](#)

Hydraulic crimping heads

THK 120

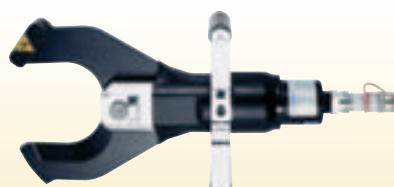


- ▶ BG-compliant version
- ▶ 120 kN crimping force
- ▶ Crimping dies Klauke series 13

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Hydraulic cutting heads

SDK 105



- ▶ Up to \varnothing 120 mm depending on design
- ▶ Models for fine-stranded conductors, steel-armoured cables and Al/St cables (ACSR)
- ▶ Up to 40% lighter than previous models

[More from page 352](#)

Success tells its own tale and our innovations always create greater benefits for our customers. Work becomes even more efficient. Electrical connections even get safer.

Mechanical crimping tools

K 38 ERGO

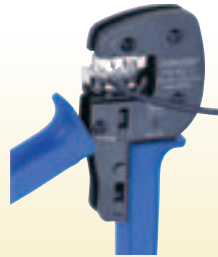


- ▶ Ergonomic design
- ▶ Square crimping ideal for box terminals and spring clamp technology
- ▶ Easy handling

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Crimping tools for photovoltaic applications

K 90 MC3
K 90 MC4



- ▶ Crimping tools for Multi-Contact plug-in systems MC3 and MC4
- ▶ High precision by linear closing dies

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Holemaking tools

LS 60-L



LS 50-L FLEX



- ▶ Improved performance with Li-Ion technology
- ▶ LS 50-L FLEX with rotating head
- ▶ Automatic limit stop and lag stop

More from page 522

Fish tapes

Magnum Pro™



- ▶ Fish tapes made from steel, stainless steel, nylon and fibre glass
- ▶ Extreme robust shock-proof housing with comfort handle

More from page 568

Voltage tester and multimeter

GT-16



DM-210A



- ▶ Voltage testers for fast contactless testing
- ▶ Digital multimeter with illuminated display
- ▶ Readouts transferred to PC

More from page 582

Installation tester

ETest Multi



ETest R_E



ETest R_{ISO}



- ▶ ETest Multi – The VDE 0100 Tester
- ▶ ETest R_E – Earth resistance meter
- ▶ ETest R_{ISO} – Insulation resistance meter

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- What's new
- Solutions for installers, trade and industry
- Our tradition of innovations
- Demanding more than standards
- Anything is possible
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- For secure connections worldwide



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- Stainless steel and nickel tubular cable lugs and connectors
- Copper compression cable lugs and connectors to DIN
- Copper solderless terminals, connectors & pin cable lugs to DIN
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Holemaking tools 496

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Safety Plus – a Generation with added value.

From advanced technology, get more out of it –

Generation Safety Plus.

Klauke electro-hydraulic crimping and cutting tools are always the most convenient and powerful solution when it concerns reliable crimping of connection material and cutting. However, previous achievements do not mean we should rest on our laurels. On the contrary, we will be working continuously for improvement.

The result: our new tool generation - Safety Plus.

The successful and established Klauke® mini-Series and the new Klauke® mini+, ultra and ultra+ series set standards for crimping and cutting tools as regards intelligence, performance and ergonomic and thus make electrical connection systems more secure than ever.



More intelligence.

- ▶ Integrated pressure measurement with visual and audible signals in case of failure.
- ▶ Evaluation function using optical interface and USB adapter.
- ▶ Light diode for maintenance control, charge level indicator and data transmission to the PC.
- ▶ Automatic retract stop (ARS) for positioning control in case of multiple crimps.



Higher performance.

- ▶ High-performance Li-Ion batteries with high capacity and extremely short charging time.
- ▶ High-performance motors for maximum operating speed.
- ▶ Energy saving function by stopping motor.
- ▶ Mains adapter NG2 for mains operation.

More ergonomic.

- ▶ Grip through to 2-component housing.
- ▶ Optimised centre of gravity.
- ▶ One-button-operating concept for easy handling.
- ▶ High-performance LED for work area illumination.

The most powerful Mini ever seen.

EK 50/5-L

The new 5-ton tool class.

The Klauke[®] mini+ is the clear evidence of the fact that small dimensions and lightweight do not necessarily associate with low performance. Its ergonomic design enables simple handling. It outshines most of the large series due to its high-performance engine, new 18 V Li-Ion batteries and also the automatic feedback for crimping process. All ideal conditions – so that each work step becomes easy – even in tight areas.



Characteristics:

- ▶ Crimping area up to 240 mm² (Cu)/185 mm² (Al).
- ▶ Electronic control and monitoring of crimping operation.
- ▶ Integrated pressure measurement with visual and audible signals in case of failure.
- ▶ Evaluation function using optical interface and USB adapter.
- ▶ 18 V/1.3 Ah Li-Ion battery.
- ▶ With LED for workplace illumination.

Crimping dies of series 5.





*Cutting made easy
up to Ø 120 mm.*

The new hydraulic cutting tools.

The latest generation of our hydraulic cutting tools distinguishes itself through function and performance. New features enable the working with it safer and easier.

The 18 V Li-Ion batteries of the battery-powered hydraulic tools feature 50 % more energy than the conventional NiMH batteries.

The ultra+ models with 120 kN cutting force are available with both open and closed head and cut armored cables of diameters up to 105 mm.

Retraction can be interrupted at any position using the manual retract stop (MRS) – this saves time and energy.



The extremely robust cutting heads are distinguished primarily thanks to their lightweight. The new heads are up to 40 % lighter than the previous models.



Characteristics:

- ▶ For Al/St ropes (ACSR) of up to Ø 55 mm.
- ▶ For multiple and fine stranded cables and conductors up to Ø 120 mm.
- ▶ Closed cutting heads with innovative bolt interlock.
- ▶ Manual retract stop (MRS) for efficient operations.

Efficiency for the cable harness assembly.

**The workbench-mounted tool with 120 kN crimping force:
THK 120**

The range of hydraulic crimping tools for workbench mounting has been supplemented with an additional tool: The THK 120 with 120 kN crimping force and a crimping range up to 400 mm². The processing time is clearly reduced through wide crimping using dies from Klauke 13-series as compared to 6-ton tools, in particular in case of large nominal cross sections.

Characteristics:

- ▶ For 13-series interchangeable dies, wide crimping.
- ▶ Quick action coupling.
- ▶ For connecting to hydraulic drive units with 700 bar operating pressure for best possible crimping results.



Ideal for box terminals and spring clamp technology.

The cable end-sleeves specialist:

K38 ERGO

In constricted places, the crimping of cable end-sleeves proves to be extraordinarily tricky. This is where the new mechanical crimping tool K38 ERGO can help.



Thanks to its pistol form and slim crimping head, cable end-sleeves can be crimped comfortably into tightly fitted control cabinets. The conductors can be inserted comfortably from the front. The ergonomic design allows extraordinarily easy handling.

The tool inclusive of practical plastic case and a range of insulated cable end-sleeves is available as K38 ERGO set.

Characteristics:

- ▶ Square crimping ideal for box terminals and spring clamp technology.
- ▶ Crimping range from 0.25 mm² up to 6 mm².
- ▶ Easy operation with minimum effort.
- ▶ Ergonomic design.

Highest precision for photovoltaic.

Crimping tools for Multi-Contact plug-in systems:

K90 MC3 / K90 MC4

Especially for the photovoltaic sector, the range is added to Klauke K90 MC tool series for the Multi-Contact plug-in systems MC3 and MC4.

The tools with simultaneous die movement ensure maximum level of precision. The crimping head KP 90 MC31 can be combined with all basic tools of Klauke Pro-Series.



Characteristics:

- ▶ Crimping profiles for Multi-Contact plug-in systems.
- ▶ High precision by linear closing dies.
- ▶ Ergonomic design with optimum force transmission.



Safe installation tests for every application.

The new multi-testers of GREENLEE[®] A Texttron Company

The new ETest-Series for safe installation tests. With the help of these devices you make sure that electronic installations comply with all requirements according to VDE 0100.

ETest Multi and ETest Riso have a cordless probe, thanks to which you can use your hand freely to hold the tester – so that you can test and simultaneously read the results.



Characteristics:

- ▶ The ETest Multi is a VDE 0100 tester, which can be used for continuity tests, voltage and insulation resistance measurements (100 V, 250 V, 500 V) as well as for line and earth loop impedance measurements.
- ▶ The earth resistance measuring device ETest RE is suitable for 110 V and 230 V installations as well as for electrical three-phase systems.
- ▶ The ETest RISO meets the requirements for insulation resistance measurements and continuity measurements. The device is compatible with the EN 61577 und IEC 61010-1600 V Cat. III standards.

Voltage detection, measurement and more.

The new voltage tester and multimeter **GT-16 and DM-210A**



The non-contact voltage tester GT-16 detects voltages between 5 and 1000 V AC. Due to the compact size, the device fits in every shirt pocket or in the tool belt. An acoustic signal and LED are immediately displayed when voltage is applied.



The new generation of multimeters is provided with several new features. Thanks to the enlarged and illuminated displays, the devices can be read properly in dark as well. Voltage can also be detected without contact. The respective models have a variety of measuring functions - partly even with temperature measurement. The measurement results can be transmitted via optical RS 232 interface or USB cable directly to a PC.

*New generation also for
punching tools.*

**Punching made easy: LS 50-L FLEX
and LS 60-L**



With the LS 50-L FLEX Klauke introduces a new battery-hand hydraulic punch driver on the basis of mini+ with Lithium ions technology. The tool has a rotating head which provides highly flexible use to the user. Using the new LS 60-L Klauke replaces the LS 60. The battery-hand hydraulic punch driver is also equipped with the new Lithium ions technology. Both tools have an automatic end stop. In addition to this they have a lag stop which interrupts the rate of advance immediately after releasing the control switch. Built-in white LED illuminates the field of working area.

Characteristics:

- ▶ Compact, ergonomically formed 2-component housing for optimum hold and effortless operations.
- ▶ Automatic limit stop and lag stop.

*Even easier retraction thanks to
improved housing.*

The cable-fish tapes of the MagnumPro™ Series.

We have developed the fish tapes of MagnumPro™ Series based on comprehensive market observations, customer discussions and scientific investigations. These fish tapes are manufactured from steel, stainless steel, nylon and fibreglass. A number of enhancements were available to increase comfort, ergonomics and durability in the housing compared to the previous ones. Lifetime and productivity have increased significantly. Moreover, the eyelets of the latest steel strips were improved – these are smaller with offset bend for improved fishing ability.



Characteristics:

- ▶ 19 models with different materials.
- ▶ Robust, beveled and shock-proof housing with comfort handle.
- ▶ Patented system for easy extension and retraction.



Solutions for installers, trade and industry.

Klauke, a Textron Group Company – and your partner.

We use best matched products and services to create pioneering solutions for installers, trade and industry all over the world. Both alone as Klauke, but also within the multi-industrial company Textron with Greenlee.

Through the **strategic alliance with Greenlee**, we offer complementary and matched product ranges for professional application. Together, we have at our disposal ultra-modern research and development centres in Germany, Great Britain and the United States and an **international distribution network with service centres in more than seventy countries.**

Being **in constant touch with our customers**, we discover ways to optimise our products. This information help to continually develop our products. The resulting safety and efficiency for all working with Klauke products is reason that craftsmen all over the world trust in Klauke.



Our tradition of innovation.

Customer requirements as basis for new developments.

We have been committed to systematically **developing innovative, application oriented solutions since our foundation in 1879**. To achieve this we closely work together with users. All our developments start with your requirements, ideas and preferences. Skilled and qualified labour realise these developments - from the idea through to start of production. The **system concept** plays the key role in this process: All new developments complement the existing product range and offer variable applications.

This generates innovative products that offer significantly more when it comes to operation and affordability. **Numerous awards and innovation prizes** confirm that this is the way forward.

Klauke pliers, for instance, have received the **IF-Product-Design-Award** for ergonomic and safety design. And this range is just one of the innovative product highlights which we present with this catalogue.



product design award



Demanding more than standards

Klauke for more safety and quality.

Just meeting the standard isn't enough. In terms of safety, user friendly application and robustness, all Klauke as well as Greenlee products comply with the highest specifications and **perform in excess of the standards required**. We are certified to ISO 9001. Regular internal and external audits guarantee consistently high quality. Our products comply with international approvals.

We purchase only raw materials and components that guarantee first-class quality. And to guarantee that we work consistently with carefully chosen suppliers. Stringent inspections and quality tests at every stage of the manufacturing process **safeguard our high standards**. Klauke customers depend on it. Which is their right: We guarantee maximum safety and optimised comfort in the application of our products.

Environmental issues also play a crucial role. Our company is **Ecoprofit** (“**EC**ological **PRO**ject **F**or **I**ntegrated **E**nvironmental **T**echnology”) **certified** and excels through its especially pro-environmental production.





Anything is possible.

Special manufacture for individual solutions.

Beside Klauke's expansive product range of solderless connection systems and tools, we also develop a **host of individual solutions for special applications.**

Specially-dimensioned tubular cable lugs, hooked types, with double hole, angled lugs, as well as connectors and parallel connectors **made to specification** and other designs **acc. to drawing** are possible. Made from copper or aluminium. Copper finish, tin or nickel-plated versions are available.

We also design **special tool solutions** for our industrial partners. Precisely tailored for each application. Please refer to the checklist in the Technical Appendix with details on issues required. Please refer directly to your contact person in our sales office.





Here you are in good hands.

Our sales force at your service.

As a partner to installers, trade and industry, our service - and sales - teams are close to our customers. Highly-motivated personnel offer **you every possible support**. Every year, we train thousands of installers and staff from our wholesalers and distribution partners. Apart from product presentations our main objective is to exchange ideas and experiences with our customers.

And it's not only here that we encourage dialogues: Every day our personnel answers questions on the phone or at site. Our application technology tests your electrical connections - and provides active support in the form of individual **solutions for your particular applications**. These measures are the platform from which we consistently advance and improve our products. And guarantee the safety of the electrical connections done with Klauke products.

- ▶ Product presentations and expert **advice at site** through our field service team.
- ▶ **Klauke Mobile** in operation for you.
- ▶ Internal and external **training and seminars** for customers.
- ▶ Information, **advice and workshops** at all important national and international exhibitions.
- ▶ Fast **technical support** for special applications from our experts.
- ▶ We test your electrical connections and **provide test reports** upon request.





More than just maintenance.

Services for your tool.

The Service Center in Remscheid and the worldwide authorised Service Centers (ASC) offer you reliable **technical support for our tools**. Starting with a free tool hotline for maintenance and repair service with test plates and certificates through to a hire service. We do everything we can to make sure your tools remain fully functional - or provide you with alternatives if necessary.



In addition to these services, Klauke of course provides **2 years of guarantee** on full functionality of the tools.

We provide this service all over the world. Our national and international partners' expertise and equipment always conforms to the latest standards.

- ▶ **Free Hotline** for all questions about the tool service in Germany.
- ▶ Repair and maintenance through the **Service Centers**.
- ▶ Complete maintenance service with annual inspection and maintenance at fixed prices, including **test plate and certificate**.
- ▶ Fast, uncomplicated **tool hire service for all standard tools**.
- ▶ On-site **Service Mobile**.



Klauke ASC®
Authorised Service Center

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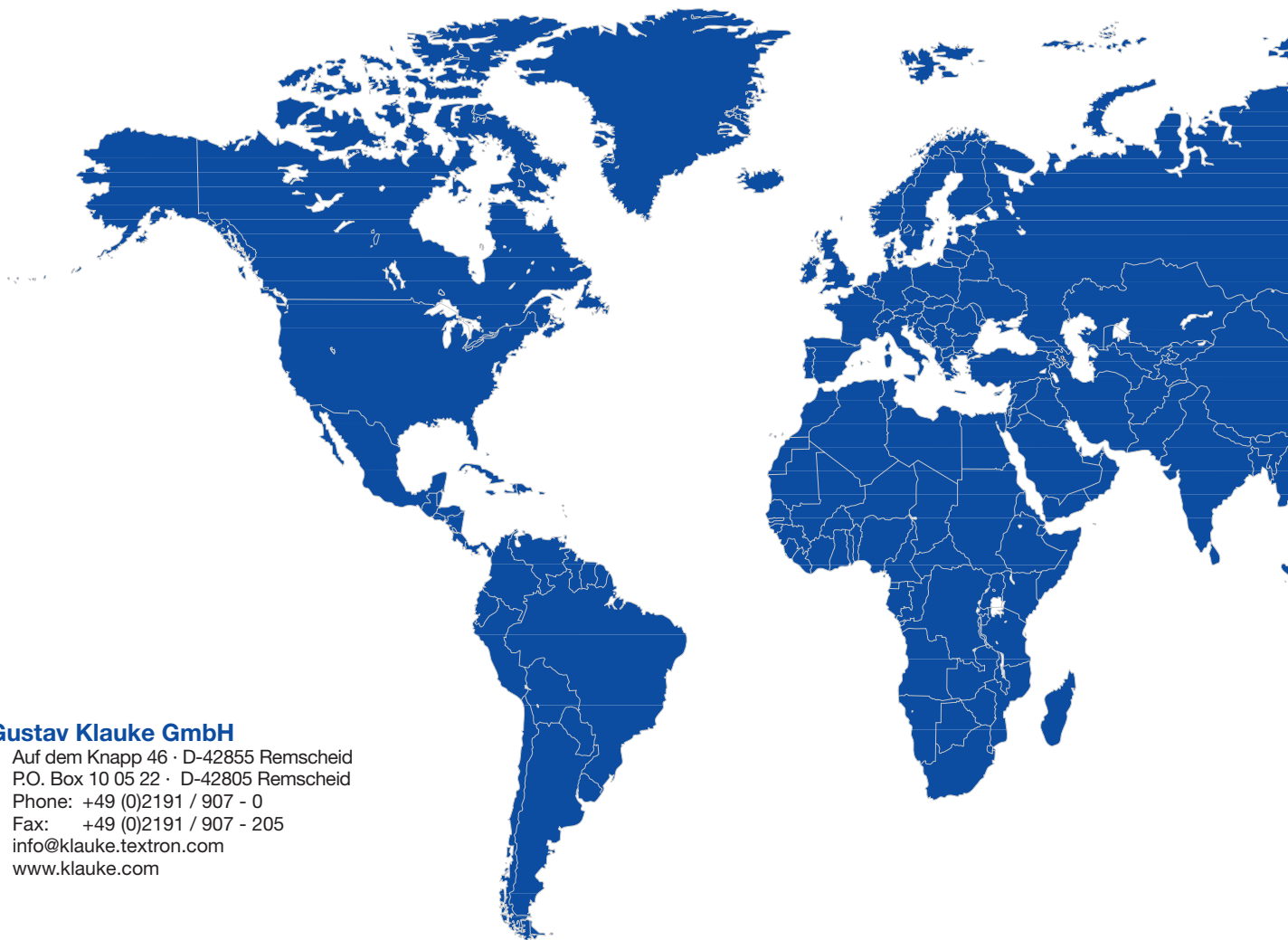
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