

WIREFUP

EXCITING IMPULSES FOR ELECTRICAL TRADES AND INDUSTRY

ISSUE 1|26



COMPETENCE CONNECTS

Specialist in cable connection technology
and system tools

SAFE WORKING

Special expertise in
VDE-tested tools

EXCITING DEVELOPMENT

The new generation
VDE torque wrenches

haupa[®]

EXCITING IMPULSES!

Welcome to the first issue of our new customer magazine WireUp – the magazine for professionals in the electrical trade and industry. The name says it all: WireUp stands for wiring, getting started, and networking.

That's exactly what drives us at HAUPA – for decades, we have been developing solutions that create connections: between cables and contacts, between people and their projects, between trade, industry, and the future.

With our new magazine, we want to continue this idea. You can look forward to exciting ideas, practical insights, electrifying innovations, application examples, and much more from the industry and the world of HAUPA.

We cordially invite you to network with us – and to help shape the future of the electrical trade. For a strong connection that lasts.

Your HAUPA team

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Legal notice

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WHAT DRIVES US EVERY DAY ...

Interview with Jens-Ole Paas, owner of HAUPA GmbH



task to supply exactly the tools and connection technology that work reliably under these conditions – well thought-out in their application, robust in use, and clear in their function.

What role does your BRINKO brand play alongside HAUPA as a specialist for the plumbing trade?

The plumbing and electrical sectors are growing ever closer together. With our two brands, we are excellently positioned to accompany the future of renewable energies and the growing energy demand in the wake of digital transformation – whether in the field of e-mobility, photovoltaics, heat pump technology, or in the infrastructure of modern data centers.

How do you manage to develop new tools that prove themselves in practice?

Our product development is strongly application-oriented. We work closely with specialist tradespeople, gather targeted feedback from the market, and analyze very precisely where there is potential for optimization potential – whether in terms of ergonomics, efficiency, or safety. It is crucial for us that each product not only fulfills a technical function, but also offers the user tangible added value in everyday life – whether through time savings, ease of use, or durability. Only when these requirements are met we do release a product.

Mr. Paas, does your company have a clear mission?

In short: yes, really good tools with high quality and durability. Developed with technical precision, uncompromisingly safe, efficient, and powerful – for the highest demands in trade or industry. Our heart beats for first-class connection technology and high-performance tools and well-thought-out solutions that impress in everyday use. Always with great passion, a lot of heart and soul,

responsibility, and a little pride in creating things that last.

What motivates you and your team in your daily work?

"What drives us is the desire to offer skilled tradespeople a real advantage in terms of efficiency and safety."

tions for the trade. We know that electricians and HVAC installers work under high time pressure and with high quality requirements every day. We see it as our

Our motivation is closely linked to our commitment to providing reliable and practical solu-

What makes your products and services particularly attractive to specialist wholesalers?

Specialist wholesalers benefit from a product range with high market acceptance, short delivery times, and a clearly structured product range that can be easily integrated into existing distribution systems. We offer personal support from our sales representatives, technical training, sales support, and continuous product development based on the real requirements on the construction site.



COMPETENCE CONNECTS!

Wherever electrical energy needs to be transferred safely, efficiently, and continuously, one thing is crucial: the quality of the connection. For over 60 years, HAUPA has been developing tools and connection technology that specializes in precisely this area – with a clear focus on professional use in industry, trade and energy infrastructure.

Our expertise ranges from manual crimping tools for ferrules, insulated terminals and cable lugs to hydraulic compression and cutting tools for large conductor cross-sections. HAUPA offers sophisticated system solutions, particularly in the field of tubular cable lugs – reliable, compatible, and tried and tested in practice.

Whether in switchgear construction, data center installation, energy distribution or in the fields of photovoltaics, e-mobility, and heat pump technology – our products are used wherever connections have to withstand the highest loads.

"What sets us apart? We think from the user's perspective. Our products are not only compliant with standards – they are designed to make work faster, safer, and more economical. And that's exactly what makes the difference," says Jens-Ole Paas, owner and managing director of HAUPA GmbH.

Your specialist
for cable connection technology
and system tools

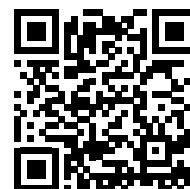
FOR SPECIALIST WHOLESALERS, THIS MEANS:

- Technically sophisticated solutions with high market acceptance
- BMEcat, ETIM-compliant data provision and integration via Open Datacheck
- EDI connection
- Short delivery times thanks to our own warehouse logistics
- A partner who thinks ahead and provides support – including in sales

FOR THE MANUFACTURING INDUSTRY, THIS MEANS:

- Connections with tested, certified quality
- Precision tools that make processes safer and more efficient
- A system concept that simplifies installation, maintenance, and expansion

Information sheet
**PRESS CONNECTIONS
WITH SYSTEM**
Download now:



PERFECT DUO: TUBULAR CABLE LUGS WITH COORDINATED TOOLS

HAUPA has been a reliable partner to many electricians for years. Not because we only sell cable lugs, but because we understand what they have to do – every day. The responsibility they bear. The safety they guarantee. Tubular cable lugs are among the most crucial connecting elements in energy and control technology. That's why only one thing matters to many professionals: absolute reliability. That's exactly what HAUPA offers – with a complete system of high-quality cable lugs and perfectly matched tools. HAUPA tubular cable lugs stand for:

- **Dimensionally accurate manufacturing in accordance with standards (DIN 46235 / DIN 46267)**
- **Perfect fit and material quality (Cu-ETP, Al-99.5%)**
- **Annealed design, thus protecting tools**
- **lasting contact quality – even under load and vibration**
- **Complete product safety through embossing (for DIN types)**

A RANGE FOR ALL REQUIREMENTS

- **Standard tubular cable lugs** for common installations, with high fit accuracy and various crimping variants
- **DIN crimp cable lugs**, tested and labeled – ideal for utilities and industrial applications
- **Aluminum cable lugs**, grease-filled and oxidation-protected – for aluminum conductors in network construction
- **Bimetal cable lugs (Al/Cu)** – friction welded for secure transitions between different materials

HAUPA standard tubular cable lugs are UL certified!

- HAUPA standard tubular cable lugs have been tested and approved to meet the safety requirements for the US and Canadian markets.
- They are part of a UL-certified system, i.e., they have not only been tested as individual products, but also in combination with suitable compression tools.
- Only when the cable lug and tool as a unit meet the requirements (e.g., electrical conductivity, tensile load, temperature resistance), the system does receive certification.

Advantage for electricians: They can be sure that connections made with HAUPA tubular cable lugs and recommended HAUPA tools comply with international safety standards.



SAFETY STARTS WITH THE COMPRESSION SYSTEM

A good cable lug is only as safe as the compression that connects it. That is why HAUPA relies on a coordinated system:

- **Precision crimping pliers** for smaller cross-sections – precisely guided, repeatably safe
- **Hydraulic compression tools** for large cross-sections – manual or battery-powered, with compression force monitoring
- **Crimping profiles according to standards** – clearly marked, tested, documentable

The advantage for electricians: they can rely on the result being right – whether on the construction site, in the control cabinet, or under harsh conditions in the field. HAUPA creates a connection that lasts – because it delivers what it promises.

**ABSOLUTE SAFETY.
IN EVERY HANDLE.**



Our special expertise in VDE-tested tools

As a reliable partner to the electrical trade, we know what is at stake when working with live electrical systems: Safety first! Because in critical moments, there is no second chance. That's why professionals rely on products where safety is not up for debate – but guaranteed. At HAUPA safety is part of the brand.

Why real professionals rely on tested HAUPA quality

Working with live electrical systems is no ordinary job – it requires a high degree of skill, concentration, and above all: absolute confidence in the tools used. For electricians and fitters who work in medium and low-voltage areas, every move they make is potentially life-threatening. That's why it's clear: safety must never be left to chance.

HAUPA offers a complete portfolio of insulated tools and personal protective equipment that meets the highest requirements – developed and tested for daily use in most sensitive areas of electrical engineering.

At HAUPA, testing is not just standard practice – for us, **every insulated tool is a unique piece that is individually tested.** The test voltage is an impressive 10,000 volts – in special water or ball baths. This is the only way to guarantee safe use

under real conditions at up to 1,000 volts AC. Whether screwdrivers, pliers, cable cutters, socket sets or torque tools – all products carry the VDE certificate. Production is regularly monitored by the VDE Association. This is how we create safety that professionals can rely on – and specialist retailers can recommend with confidence.

Technology with responsibility: Insulation of the highest quality

HAUPA tools stand out through their vertical range of manufacture:

- 1000V insulated screwdrivers with molded insulation, non-slip thanks to two-component handle and voltage-resistant
- Double-dipped pliers that perfectly combine mechanical stress and electrical insulation
- Insulated plug-in tools such as ratchets, extensions, and sockets, for safe working on distribution boards and switchgear
- Insulated torque tools with controlled release – for safety-related connections
- Every detail counts – for maximum control under extreme conditions

Complete protection for skilled workers in high-voltage environments

Tools alone are not enough when it comes to maximum safety at the workplace.

That's why HAUPA also offers a complete range of PPE and side isolation for live working:

- Insulating rubber sheets and location mats
- Insulated gloves in accordance with IEC 60903
- Electrician's helmets and face shields
- NH safety handle and alignment tools

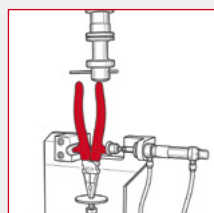
All components are perfectly coordinated – for consistent protection from head to toe.

Why specialist retailers score with HAUPA

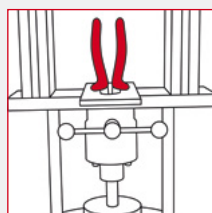
Specialist wholesalers who carry HAUPA in their product range offer their customers not only high-quality tools – they sell trust. Thanks to our many years of expertise and continuous VDE testing, our products enjoy an excellent reputation among electricians, network installers and energy suppliers.

With HAUPA, specialist retailers can offer tools that not only meet standards, but also protect lives.

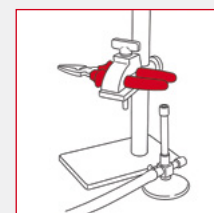
Unit testing in accordance with VDE standard 1000 V IEC 60900:2012



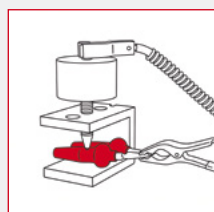
Cold impact test
This test checks the toughness of the PVC material is tested. The tools are cooled to -25°C a weight is dropped onto the tools. There must be no cracks or other damage.



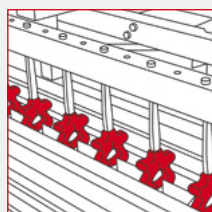
Testing the adhesion of the PVC coating
After storage for 168 hours and an ambient temperature of 70°C, a tensile force of 500 NM is used to test the adhesion of the PVC coating. The insulating material must remain firmly attached to the base tool.



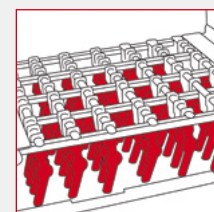
Testing of flame resistance
To eliminate fire hazards, only flame-resistant PVC materials are used.



Pressure test
At a pressure load of 20 NM and a temperature of 70°C, no breakdown may occur when tested with a voltage of AC 5,000 V.



Testing the electrical insulation properties
After 24 hours of underwater storage, the tools are tested for three minutes with AC 10,000 V – while simultaneously checking the leakage current. No breakdown or flashover may occur during this period.



Tension test
Each safety tool is individually tested. This means that all tools with VDE EN marking are tested with AC 10,000 V and approved for 1,000 V. This ensures 10 times the safety is guaranteed.



SINCE 2020
POWERED
BY HAUPA

SINCE 1860
STRONG
PARTNER TO
CRAFTSMANSHIP





For over six decades, HAUPA has been synonymous with high-quality cable connection technology, safety tools for live working, and professional electrician tools. Our portfolio is specifically aimed at electrical installers and electrical wholesalers.

In 2020, we integrated BRINKO, an experienced specialist in HVAC tools, into the group of companies. BRINKO brings with it many decades of tool expertise in the field of plumbing, heating, and air conditioning technology. Together, we combine our expertise to offer both electrical and HVAC specialists a comprehensive range from a single source – technically precise, user-oriented, and reliable.

Supporting the trade since 1860

Hardly any other brand in the HVAC sector can look back on as much experience as BRINKO. For more than 160 years, BRINKO has been supporting plumbing professionals on construction sites – and has reinvented itself several times again. Today, powered by HAUPA, the brand is stronger than ever: with a range that many consider to be the most comprehensive range of tools for plumbing installers in the entire industry.

The breadth and depth of the range make the difference

What makes the traditional BRINKO brand unique is not only its quality, but above all the variety and the tool ranges broken down to suit specific jobs. Whether standard or special tools, whether for inspection, installation, or renovation – tradespeople will find everything they need in one range. This strength of the range is a real competitive advantage:

for the craftsman, who always has the right solution at hand on the construction site, and for the wholesalers who can offer their customers the complete package from a single source.

Tools for the future of the HVAC trade

The trade is changing – renewable energies, heat pumps, photovoltaics, and the growing interface between plumbing and electrical systems have long been part of everyday life. BRINKO thinks ahead and offers tools that not only accompany this change, but actively support it. This makes the installer a shaper of the future of the energy transition.

Trust that grows

Craftsmen trust brands they know and that have proven themselves. That is precisely the strength of BRINKO: a long tradition combined with innovative strength and the commitment to always deliver the best solution. This trust pays off – for users and retailers alike.

BRINKO powered by HAUPA is more than just a tool brand. It stands for a firm promise to be a reliable partner for the HVAC trade – yesterday, today, and tomorrow. Because anyone who wants to shape the future needs tools they can rely on.

"Together, we pool our expertise

to provide both electrical and

HVAC specialists a comprehensive

range of products from one hand."



A SHINING EXAMPLE OF COLOR ACCURACY

Why professionals rely on CRI 90 light sources

Many electricians are familiar with the following situation from their work: It's Monday morning, 7 a.m. and you're standing in a half-finished shell construction. The lighting comes from a conventional construction spotlight. While you connecting the cables in the distribution box, you have to squint hard. Is it the blue wire or the black wire? The color appears distorted in the bright but colorless light. A mistake at this point could have serious consequences later on. This is precisely here, the quality of light determines safety and precision – and the so-called CRI value (Color Rendering Index) makes a significant difference.

CRI – more than just brightness

Many tradespeople pay attention to lumens and watts when it comes to construction spotlights. But at least as important is the CRI value, which describes how faithfully a light source renders colors.

- **A CRI of 70** provides plenty of brightness, but distorts colors.

- **A CRI of 90**, on the other hand, provides conditions almost daylight-like conditions – and thus clarity where it.

Why CRI 90 is indispensable

For electricians, painters, or fitters, color fidelity is not a minor issue, but a safety and quality factor.

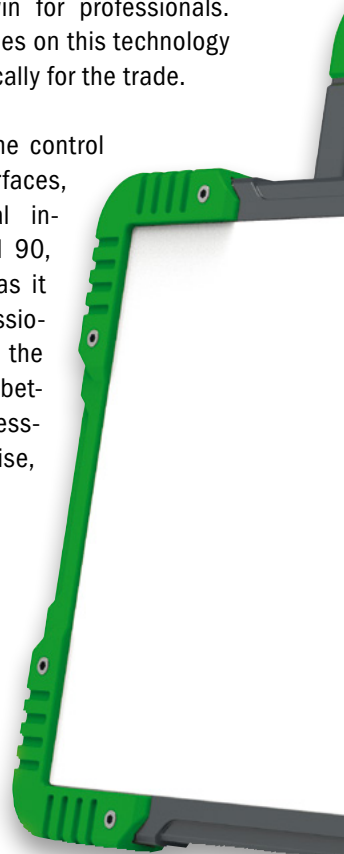
- **Reliable wire identification:** brown, black, blue, or green/yellow can be clearly distinguished.
- **Reliable final inspection:** Surfaces and materials appear as they really are – important for acceptance and documentation.
- **Ergonomic working:** Natural light reduces eye strain and fatigue, allowing you to stay focused for longer.

HAUPA quality pays off

Of course, spotlights with CRI 90 are often slightly more expensive than standard models with CRI 70. But they save time, prevent errors, and increase

safety – a clear win for professionals. HAUPA therefore relies on this technology and offers it specifically for the trade.

Whether wiring in the control cabinet, testing surfaces, or performing final inspections: With CRI 90, you see the world as it really is. For professionals, this makes the decisive difference between uncertain guesswork and precise, reliable work.



CRI 70

A CRI of 70 provides plenty of brightness, but distorts colors.

**CRI 90**

CRI 90 ensures conditions that are almost similar to daylight conditions – and clarity.

**A REAL HIGHLIGHT ON THE CONSTRUCTION SITE**

LED construction site spotlight "HUPlight5200hybrid": developed and certified for use on construction sites, both indoors and for temporary outdoor use.



This versatile hybrid (230 V & rechargeable battery) work light is specially designed for professionals who are often on the move. It is equipped with a battery holder suitable for 18 V batteries from HAUPA, Makita, Dewalt, Milwaukee, Bosch (AMP Share), Metabo (CAS). The corresponding adapters are included in the scope of delivery.

The work light is dimmable in two stages (50%, 25%), has a cool white color temperature (5,000 K), and a color rendering index of RA >90. The operating time is between 2.5 and 9 hours (based on an 18 V/5 AH battery), depending on the selected light output mode.

The opal diffuser reduces glare from the 5,200 lumen light source and ensures homogeneous illumination of the workplace. The housing and front diffuser are made of impact-resistant polycarbonate (IK08). The luminaire is dust and splash-proof (IP54).

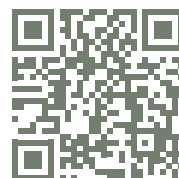
This work light is equipped with a socket (max. 3000 W) that allows connection of another device. This eliminates the need for additional extension cables. In the event of a power failure, the luminaire automatically switches to battery operation in approx. 0.5 seconds. This means you are never left in the dark and minimize the risk of injury and damage.



Click here for more information and details about the HUPlight5200hybrid

PRESSING POWER IS INNATE. OR FROM HAUPA.

Versatile range of crimping pliers further developed: Our HUPcompact series is a minor revolution.



Click here for the
YouTube channel!

Imagine a crimping tool that is so compact that it fits perfectly even in smaller hands – yet so powerful that even large cross-sections can be crimped effortlessly. That was precisely the idea behind the development of the HUPcompact series from HAUPA. In everyday use, it's not just precision that counts, but also ergonomics. Many conventional crimping pliers work with a scissor mechanism, which is functional, but produces a slight distortion during the crimping process. HAUPA asked itself: Why not incorporate the best of hydraulics into hand-held crimping tool? – in other words, 100% parallel feed. The result: crimps of the highest gas-tight, compliant with standards, and absolutely reproducible.

Small, compact, powerful – crimping with just one hand!

The HUPcompact pliers deliver a crimping force of 5 kN – and that with a design that is so ergonomic that it is also suitable for users with small hands. This makes all the difference, especially in control cabinet construction, where precision in confined spaces is required. The motto: as small as necessary, as strong as possible.

A tool that changes the way you work

The HUPcompact series is more than just a new range of pliers. It is the result of a desire to revolutionize the crimping sector – with compact, powerful tools that perfectly combine precision and ergonomics. Whether in control cabinets, photovoltaics, or vehicle construction: Anyone who has ever worked with a HUPcompact will feel the difference – no distortion, hardly any effort, only perfect connections. That's HUPcompact: compact, powerful, and pure precision.



FIVE MODELS FOR EVERY APPLICATION:



HC01 – insulated crimp cable lugs

Safely processes common cross-sections 0.5–1 mm², 1.5–2.5 mm², and 4–6 mm². Thanks to lever ratio, even larger cross-sections are no problem.



HC02 – Wire end ferrules

The trapezoidal wave profile provides additional compaction for fine-stranded conductors. The hold of the wire end ferrule is more reliable than ever. Even on thinned conductors.



HC03 – Open brass cable lugs

With integrated locator for easy alignment of the connector – fewer errors, more speed.



HC04 – non-insulated crimp cable lugs

Universal and robust: the parallel mandrel crimp enables uniform, gas-tight connections – perfect for continuous everyday use.



For MC4 connectors (Multi Contact)

Developed for photovoltaics and the energy transition: reliably crimps MC4 connectors in the extended range of 4–10 mm².

THE FURTHER DEVELOPMENT OF GOOD: BETTER!

As a customer-oriented company, we must constantly maintain a long-term perspective: What is important to our customers? What requirements must innovative products meet? How can good products be made even better? We adapt our thinking to this dynamic. When it comes to customer-specific products and ranges, we do not only think along with them. We like to think ahead, and our team is open to new solutions.

"We are constantly looking for the best possible solutions to make work in the electrical trade even easier in practical terms. We are highly ambitious and passionate about make what is good for our customers even better", promises HAUPA Managing Director Jens-Ole Paas. We therefore offer our customers new ideas and exclusive products that they won't find at any other supplier – such as our HUP compact series!

WE TAKE YOUR REQUESTS PERSONALLY!

At HAUPA, a dedicated team works every day to fulfill your wishes, because the interplay of different skills makes us strong. If you would like to learn a little about the people who are there for you with heart and soul and passion, take a look at their personal profiles.

Rubén Mestauza

MANAGING DIRECTOR SPAIN

What do you like most about your daily work?	The variety of tasks
What did you want to be when you were a child?	Aircraft mechanic
What do you like to do most in your free time?	Spending time with family and friends is important to me
What was your most memorable or important experience?	The birth of my daughter
What makes you laugh?	Mishaps (without hurting anyone). About myself.
Where would you like to travel?	Patagonia in Argentina and Colombia
Do you have a favorite animal?	Cats
Your favorite food?	Wiener schnitzel with fries
What kind of music do you like to listen to?	Spanish flamenco and music from the '90s
Which celebrity would you like to meet?	Elon Musk
Your lifelong dream?	I would like to see a free Cuba, far away from social communism
Your motto in life?	Carpe Diem (Seize the day)





Reinhold Woltsgruber

HAUPA BRAND AMBASSADOR IN AUSTRIA

What do you enjoy most about your daily work?	Customer consultations
What did you want to be when you were a child?	A Pilot
What do you enjoy doing most in your free time?	Walking around town.
What was your most beautiful or important experience?	The births of my sons
What makes you laugh?	Funny movies and cabaret
Where would you like to travel to?	Hawaii
Do you have a favorite animal?	Dolphin
Your favorite food?	Roast venison with bread dumplings and red cabbage
What kind of music do you like?	Pop and rock music
Which celebrity would you like to meet?	Mike Love from the Beach Boys
Your life's dream?	A trip around the world
Your motto in life?	The journey is the destination.

Audrzej Ryznar

MANAGING DIRECTOR POLAND

What do you enjoy most about your daily work?	The contact with people, their passions, their opinions
What did you want to be when you were a child?	First a firefighter, then a pilot
What do you enjoy doing most in your free time?	DIY
What was your most beautiful or important experience?	The most beautiful experience was being close to my family, and the most important and groundbreaking experience was emigrating.
What makes you laugh?	A good joke
Where would you like to travel to?	To Australia to admire the coral reef
Do you have a favorite animal?	House cats
Your favorite food?	A good grilled steak
What kind of music do you like?	Classic blues
Which celebrity would you like to meet?	Keanu Reeves
Your life's dream?	To see Colorado Canyon. To fly over New York in a helicopter.
Your motto in life?	Every day is a new opportunity. It's only difficult at the beginning. It will be alright, and if not, it will be interesting.





**MADE IN
GERMANY?**

A question of attitude!

For decades, HAUPA products have stood for safety, precision, and durability in trade and industry. We are often asked whether our products are "Made in Germany." To answer this question, take a closer look at the term "Made in Germany."

We Germans carry the characteristics of "Made in Germany" within us. They are virtually innate to us and instilled in us from an early age. Typical German virtues include: we are disciplined, hard-working, meticulous, goal-oriented, reliable and, of course, punctual. In fact, we are almost always overly punctual – which is sometimes met with amusement abroad.

"If I had to summarize 'HAUPA made in Germany' in adjectives, I would say: confidence-inspiring and safe, proven and powerful, precise and robust, efficient and technically sophisticated, and so on and so forth ... in other words, all the essential characteristics that still stand for this world-renowned seal of quality today," explains HAUPA Managing Director Jens-Ole Paas.

Typically German: for us, that's a compliment!

What makes HAUPA strong is not only its tools, but also the people behind them. People with a clear attitude. With a deep-rooted commitment to quality, care and reliability – typically German! Our hearts beat for first-class connection technology and powerful tools, as well as well-thought-out solutions that impress in everyday use. Always with great passion, a lot of heart and soul, responsibility, and a little pride in creating things that last.

HAUPA products deliver what they promise

With our pursuit of perfection, we want to offer our customers real added value and make their daily work noticeably easier. In doing so, our products and the people at HAUPA, we keep our promises and always bring a piece of home, trust, and reliability with them.

Most of our first-class products are manufactured internationally, but our employees bring with them every day what really makes "Made in Germany" special: a passion for precision, a sense of responsibility, team spirit, and the willingness to think ahead even when others would be satisfied.

This philosophy is also lived by all HAUPA sales partners internationally. They are not only reliable partners, but also important ambassadors for our brand, carrying our values worldwide in over 50 countries.

"What makes HAUPA strong is not only its tools, but also the people behind them. People with a clear attitude. With a deep-rooted commitment to quality, care and reliability."

At HAUPA, it's not just what we sell that counts, but also how committed we are to doing so. With thoroughness, a sense of duty, and a firm determination to always make good things a little bit better. This aspiration is not an obligation for our team. It is our typical German calling. In short: We, as HAUPA, live and breath by "Made in Germany"!



FROM BRITISH WARNING SIGNAL TO WORLD-RENOVED SEAL OF QUALITY

Origins as a warning: The origins of "Made in Germany" lie in a British law of 1887, the Merchandise Marks Act, which was intended to label foreign products. British retailers were concerned about competition from German products and wanted to make British consumers aware that the goods came from Germany. The marking was intended as a deterrent to distinguish cheap imitations from high-quality British products.

Transformation into a seal of quality: Thanks to the high quality and lower price of many German products, the negative warning into a positive statement of quality. Over time, the designation became a symbol of innovation, engineering and reliability.

Today's significance: "Made in Germany" is now a globally recognized designation of origin and is understood as a seal of quality for products manufactured or developed in Germany. It stands for high added value and is an important purchasing criterion for many consumers.



MORE THAN JUST A LABEL: A PROMISE OF SAFETY WITHOUT COMPROMISE

HAUPA is a premium brand partner of the German Electrical and Information Technology Trade Association (ZVEH). The ZVEH's E-mark is used by specialist companies that stand for quality, sustainability and the future.

HAUPA and ZVEH – a partnership for the electrical trade

Monday mornings start early. Even before the sun rises, the electrician is on the construction site. Pulling cables, making connections, installing distributors – every move must be precise, every contact be reliable. There is no room for compromise here. Anyone who works with live wires needs tools and cable connection technology that he can rely on blindly.

Professionals have been relying on HAUPA for over 60 years. The company has a long tradition of providing first-class tools, cable connection technology, and

solutions that stand up to the tough everyday work of electricians. In 2021, HAUPA went one step further: as a premium brand partner of the ZVEH.

"We see the electrical trade not only as customers, but as partners on an equal footing. The premium partnership is a clear commitment: we stand behind specialist companies and their daily work," says Jens-Ole Paas, managing partner of HAUPA.

More than just tools – a quality alliance

The ZVEH's E-mark brings together specialist companies that stand for

quality, sustainability, and the future. As a premium partner, HAUPA contributes all of its experience: from insulated 1000 V tools to state-of-the-art cable connection technology. For electricians, this means solutions that not only work, but also guarantee safety, trust, and professionalism.

Strong advantages for electrical contractors

This premium brand partnership offers concrete advantages for electrical companies: Higher product and quality safety. When a company like HAUPA is a member of the E-brand partnership, it stands for a binding commitment to

quality and cooperation with the trade. This means that electrical companies can be confident that products and tools meet the requirements of the trade.

In the skilled trades, the reliability of tools and connection technology is what counts: downtime, rework or complaints cost time and money. A partner with brand loyalty offers a better basis for planning and quality.

Innovation and practical relevance

Proximity to our customers and current market developments, as well as a focus on quality, make partnership particularly attractive. For electricians, this means products that are not primarily developed for mass production, but with the requirements of the electrical trade in mind. This means, for example, more ergonomic tools, well-thought-out system solutions, and good service.

Marketing and differentiation advantage

When an electrical contractor uses tools or system components from a premium brand partner, this can also be made visible to the end customer. The company can argue: "We use tools and connection technology from HAUPA – a premium partner of the ZVEH." This creates trust, especially with demanding customers or for special tasks.

A sign of reliability

In a trade where precision protects lives, trust is crucial. The partnership between HAUPA and the ZVEH is more than just a logo on paper. It is a strong signal – and a real plus in terms of safety and trust for the electrical trade.



PREMIUM MARKEN
Partner



Background & partnership

HAUPA was founded in Remscheid in 1961 and has since specialized in system and safety tools as well as certified cable connection technology for the electrical trade. Since 2008, the ZVEH has been running the "E-Marke" brand as a quality mark for electrical trades businesses and cooperation partners who commit to defined quality standards. The partnership sends a clear signal: HAUPA and the association are working more closely together – from product development and sales to training – for the benefit of electrical contractors.

ZVEH at a glance

The ZVEH represents the interests of 48,614 companies from the three trades of electrical engineering, information technology, and electrical engineering. As a federal association, it represents the interests of these companies in politics and business and ensures ensuring that electrical trade issues are taken into account in legislative proposals. In order to represent the interests of its guild members even more effectively, the ZVEH cooperates with partners from the electrical industry, e.g. the electrical industry and wholesale trade, with other industry associations and market partners.

A strong community

The E-Brand Partnership is a quality alliance comprising around 80 partners from the electrical industry and electrical wholesalers. Together with the specialist guild companies, the E-Mark partners stand for high quality, know-how, and comprehensive technical expertise. In a competitive market, brands provide customers with helpful guidance in choosing their service providers by symbolizing values. This is also true of the E-brand of the electrical trades, which has become a real success story.



TOP SPECIAL OFFERS 2026: DON'T SAVE ON QUALITY. BUT DO SAVE ON THE PRICE!

HAUPA TOP DEALS kicks off the year for the electrical trade and industry gets off to a particularly strong start: in a handy special catalog, we have compiled our most popular tools and products at exclusive promotional prices. Benefit from attractive discounts, discover proven quality from the heart of the German tool industry – and secure your benefits until January 31, 2027!

Strong assortment – compact presentation

Our TOP DEALS catalog combines selected highlights from various product ranges – clearly arranged, practical, and ready for immediate use. Whether you work on a construction site, in a workshop, or in an industrial environment, you will find tools and accessories that you can rely on.

A LOOK AT THE TOP DEALS RANGE

- + **Product highlights**
Discover our latest innovations and proven bestsellers at special prices.
- + **Toolboxes & tool bags**
Everything organized, everything at your fingertips – for efficient work on the go.
- + **System tools for all your cable needs**
Precise, ergonomic, and durable – for perfect connections you can rely on.
- + **Assortment boxes & cable connection technology**
Order meets functionality – with high-quality connectors, wire end ferrules, and more.
- + **Tools for live working**
Safety is our top priority – with tested, VDE-certified tools.
- + **Basic tools**
The reliable basis for every project – robust, ergonomic, and "typically HAUPA."
- + **Flashlights & construction site lighting**
Bright, energy-saving, and perfect for every work situation.
- + **HUPChemistry**
Clean performance – from cleaning to Care for flawless results.

HAND CABLE CUTTER Ø 62 MM**Item no. 200183-1**

- For cutting copper and aluminum cables in accordance with DIN EN 60228 (Class 2; Class 5)
- With ratchet mechanism
- Ideal force transmission
- One-handed operation thanks to optimal lever transmission and step-by-step cutting up to Ø 62 mm
- Unlocking possible in any cutting position



EUR net (RRP)

215,⁰⁰**AUTOMATIC STRIPPING PLIERS****Item no. 211930**

- For stripping fine-wire and solid conductors 0.08–6 mm²
- Automatic adjustment to the cross-section
- Integrated side cutters up to 6 mm²
- With stripping length stop
- Replaceable blades (211930/1)



EUR net (RRP)

79,⁵⁰**CRIMPING PLIERS HUP SQUARE16****Item no. 212806**

- Precise square crimp profile for ferrules
- Automatic adjustment to the conductor cross-section
- Unlockable positive locking mechanism
- Guarantees DIN-compliant connections
- High transmission ratio and ergonomically shaped plastic handles
- For fatigue-free working



EUR net (RRP)

112,⁵⁰

**Click here
for the deals!**

YOUR TRIPLE ADVANTAGE:

Quality, price, and availability

HAUPA TOP DEALS are your chance to secure quality tools at particularly favorable conditions – naturally with the usual HAUPA manufacturing quality. The special catalog is deliberately designed to be compact so that you can quickly find what you need. Browse through it now, make your selection, and benefit.

Whether you're placing a single order or a large order, the promotion runs until January 31, 2027. Take advantage of this opportunity to refresh your product range, discover new products, and save money. Request the TOP DEALS catalog now or visit us online at www.haupa.com – and get your next projects off to a flying start!

5000 B.C. THE WORLD WAS A SIMPLER PLACE

The first references to the wheel can be found in the Neolithic Age.



Evolution, revolution, innovation ...

2026 THE WORKING WORLD BECAME SAFER



Today's VDE torque wrenches: A injection-molded insulated design instead of dip insulation – for maximum material adhesion and durability. Right-hand torque allows for quick tightening and loosening.

EXCITING DEVELOPMENT FOR ELECTRICIANS: THE NEW GENERATION OF VDE TORQUE WRENCHES WITH REVERSIBLE CLICK-RACK

Precision meets safety

Anyone who works in the electrical trade knows that safety, precision, and reliability are not optional – they are mandatory! With its new VDE-tested torque wrenches, HAUPA is setting new standards for professional work under voltage. Developed for daily use on construction sites, in switch cabinet construction, or during maintenance work, these tools combine maximum electrical safety with mechanical precision – and with a decisive technological advantage.

Why a VDE-tested torque wrench?

In the electrical trade, correct screw connections are often crucial for the safety and longevity of a system. A contact that is tightened too much can damage the connection, while a contact that is too loose increases the risk of fire. A calibrated, VDE-certified torque wrench ensures that each connection receives exactly the required torque – safely, reproducibly, and demonstrably in accordance with standards.

The advantage of our new series

HAUPA torque wrenches have been specially developed for electrical professionals who do not compromise. The innovative manufacturing process offers several decisive advantages over conventional, dipped VDE designs. They have a right-hand fit, allowing screw connections to be tightened and loosened quickly.

MANY GOOD REASONS FOR MORE PRECISION AND SAFETY

Injection-molded insulated design – no dip insulation

Instead of a double dipped layer, the insulation is injected on directly. In practice, this means maximum material adhesion and durability; there is no peeling or tearing of the insulation, even with frequent use. Another advantage: audibly precise triggering – the click of the key is clearly audible, even in noisy environments.

Perfect visibility while working

The injection molding process keeps the mechanism clearly visible, which makes it easier to control your work – you can always see when the desired torque has been reached.

Slimmer sockets – more space in tight installation situations

Thanks to the precise injection molding process, our VDE sockets without compromising on safety. This means they fit into even the tightest terminal spaces and control cabinet areas, where dipped versions are often too bulky.

Maximum safety – 1000 V VDE-tested

Each wrench and each socket is individually tested and approved in accordance with VDE standards and tested. This means you are guaranteed to be on the safe side when working up to 1000 V AC / 1500 V DC.

Highest precision – calibrated and certified

Each wrench is factory calibrated and enables repeatable torque applications. This ensures that your work remains reliable and compliant with standards – no matter how many screw connections you have to make.

Ergonomic design & professional feel

The handle fits perfectly in your hand, even when wearing gloves. Its low weight and optimal balance enable fatigue-free working throughout the day.



Highlights at a glance:

Quality feature	Your advantage
Injection-insulated design	No detachment, visible triggering, durable
Thin-walled nuts	Can be used in confined spaces
Calibrated torque technology	Precise and reproducible results
1000 V VDE testing	Maximum safety according to IEC 60900
Ergonomic design	Comfortable, robust, practical
Visible and audible release	Maximum work control and safety



Detailed information about our torque wrenches.

FlexBag & FlexBagPro

TWO MULTI-TALENTED TOOLS, THAT MAKE EVERYDAY WORK EASIER

**Color code system for
maximum speed**

**Chrome-plated bits
- for a long service life**

**The FlexPlus handle – can
be angled by 45° & 90**

**Everything you need
for real professionals**



**More information
about the FlexBagPro
is available here**

Anyone who drives from construction site to construction site every day as an installer knows that the right tools determine speed, precision, and ultimately profit. That's why professionals choose solutions that not only work reliably, but also have their backs in every situation.

The HAUPA FlexBag and FlexBag-Pro are a duo that has established itself as the perfect solution for this requirement. Two compact tool sets that don't just accompany tradespeople – they support them.

FLEXBAG: THE SMART POWER PACKAGE FOR EVERY DAY

Item no. 104020-1

The classic FlexBag is the epitome of a well-designed all-rounder. It offers:

- a robust, adjustable ratchet screwdriver
- 40 security bits for almost all common screw profiles
- 8 sockets and practical extensions
- an extremely durable nylon bag for organization and clarity

Installers particularly like to use the FlexBag when they need to work quickly and want to be equipped for many small assembly jobs. Thanks to the clever sorting system, you can find every bit and every socket immediately – no searching, no awkward rummaging. It is compact, lightweight, and covers an astonishing number of everyday tasks. A FlexBag in your car means you're ready for anything.



FLEXBAGPRO: FOR MAXIMUM PRECISION AND FLEXIBILITY

Item no. 104022-1

While the FlexBag is a true all-rounder, the FlexBagPro is clearly aimed at professionals who need even greater precision, robustness, and flexible. What makes the Pro version so special:

- + **Each bit is color-coded** so that installers can see at a glance which tool they need at a glance. This saves time – and in stressful working day, every second counts.
- + **The bits in the Pro version are high-quality chrome-plated.** This not only protects against rust and corrosion, but also ensures a pleasantly smooth, easy-to-clean surface. A real advantage, especially in damp working environments.
- + A set that leaves nothing to be desired: **With 37 torsion-proof safety bits, 8 sockets, 5 drill bits, and magnetic sockets**, the Pro version is designed for demanding applications where power transmission, precision, and material quality are crucial.

+ **The ergonomic handle can be angled 45° in both directions- and 90° in both directions.** This provides even better access to angled assembly situations, creates more power transmission and reduces strain on the wrist.

+ And best of all: **with one click, the ratchet screwdriver becomes into a full-fledged 1/4" ratchet.** One tool – two functions. This saves space and makes the FlexBagPro a real problem solver on the construction site.



Why professionals love the FlexBag series

- Everything at your fingertips in one bag – no heavy toolbox required
- High reliability thanks to robust materials
- Maximum time savings thanks to cleverly structured tool sets
- Flexibility at every stage of the work
- Professional tools that deliver what they promise

With the FlexBag and the FlexBagPro, HAUPA demonstrates how well-designed modern installation tools can be. For installers who work professionally, efficiently, and with enjoyment, these FlexBags are more than just tools – they are a real advantage.

INSULATED CRIMP TERMINALS WITH EASY ENTRY: PERFECTION FOR PROFESSIONAL USE



When it comes to electrical connections in the low-voltage range, insulated terminals are indispensable. For electricians who work under time pressure and quality requirements every day, reliable, standard-compliant components are crucial. HAUPA insulated terminals with Easy Entry meet these requirements – and more.

Easy Entry: For faster, error-free work

The "Easy Entry" technology of HAUPA insulated terminals provides an expanded insulation sleeve that makes it much easier to insert fine-stranded conductors. This saves time – especially in series work – and minimizes the risk of strands being incompletely or crookedly pressed in. Centering is virtually automatic, which is a major advantage, especially in tight spaces.

Technical precision: dimensional accuracy as a quality feature

HAUPA insulated terminals are manufactured in accordance with DIN 46237 and DIN 46231 and are precisely matched to common conductor cross-sections. The use of high-quality materials, such as electrolytically tinned copper, ensures optimum conductivity and corrosion protection. Precise dimensional accuracy not only ensures mechanical stability, but is also the basis for an electrically flawless crimp connection, minimizing contact resistance and maximizing long-term reliability.

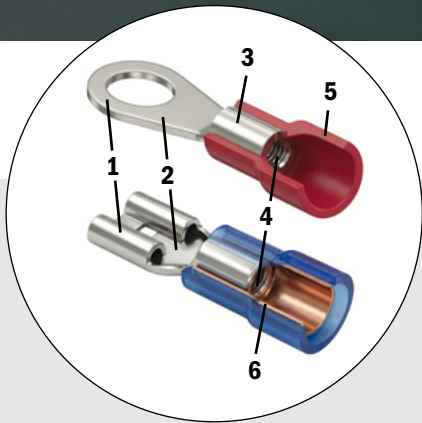
VERSATILITY OF USE & OVERVIEW



HAUPA offers insulated terminals in various designs:

- **Ring terminal:** Ideal for secure screw connections
- **Fork terminal:** For quick assembly/disassembly
- **Socket sleeve (female):** For quick, detachable electrical connection of conductors to devices
- **Piggyback terminal:** Distribution of a supply voltage to multiple components
- **Flat terminal (male):** The counterpart to flat plug sockets and are used for quick, detachable electrical connections
- **Round terminals:** Perfect for plug-in terminals
- **Butt connectors:** For continuous cable connections

All variants are color-coded according to conductor cross-section and thus comply with ISO 6722 standards, which makes selection and testing on the construction site considerably easier.



Underwriters Laboratories Inc.
Listed File E338116, E336314

Easy Entry insulating sleeve

- 1 Sleeves made of high-purity copper
- 2 Electrolytic tin coating
- 3 Heat treatment
- 4 Internal grooves for high pull-out forces and optimum electrical conductivity
- 5 Easy Entry insulation: funnel-shaped insulation sleeve
- 6 Vibration-free copper sleeve Easy Entry: easy cable insertion without strand twisting and damage

DECISIVE FOR THE APPLICATION: MATERIAL DIFFERENCES IN INSULATION

An often underestimated factor with insulated terminals is the material of the insulating sleeve. HAUPA offers different variants that have proven themselves depending on the requirements:

Why the material matters

For professional electricians, the choice of insulation material is not only differences in handling, but also in safety and durability. In harsh environments, for example, nylon is

significantly more reliable than PVC. For applications with high temperatures or special fire protection requirements, polycarbonate should be used.

HAUPA offers a well-designed range that includes both economical standard solutions as well as high-strength professional components – tailored to the respective practical requirements.

HAUPA's insulated terminals with Easy Entry offer professionals clear advantages: they are fast, safe, UL certified, a perfect fit, and durable. In combination with the appropriate HAUPA crimping tools, the result is a system that proves itself in practice every day practice – whether in domestic installations, switch cabinet construction, or mechanical engineering.

Material	Temperature resistance	Properties	Typical areas of application
PVC	-20 °C to +75 °C	Cost-effective, flexible, easy to process, vibration-resistant	Standard installations, indoor areas
Nylon (PA)	up to +105 °C	Halogen-free, impact-resistant, flame-retardant, vibration-resistant	Industry, switch cabinet construction, automotive engineering
Polycarbonate	up to +125 °C	Transparent, extremely impact-resistant, flame-retardant (UL94 V 0), premium quality, vibration-resistant	High-temperature areas, mechanical engineering, safety applications

HAUPA PRESS CONNECTION SYSTEMS

CONDUCTOR CLASSES ACCORDING TO DIN EN 60228/IEC 60228		DIN COMPRESSION CABLE LUGS ACCORDING TO DIN 46235 Copper also suitable for round-pressed sector conductors	HUPtype STANDARD TUBULAR CABLE LUGS, standard commercial design, copper also suitable for round-pressed sector conductors and solid conductors from 0.75 to 16 mm² Vibration and shock tested DIN EN 61373 Cat. 1, Class B	F-type TUBULAR CABLE LUGS Cable class 5/6 for fine-stranded highly flexible conductors, copper	DIN COMPRESSION CABLE LUGS Aluminum and Al/Cu Tube dimensions according to DIN 46329 for aluminum conductors also suitable for round- pressed sector conductors
					
CLASS 1 round, solid conductor	✓	✓	✓	-	✓
CLASS 2 round, multi- stranded, compacted conductor	✓	✓	✓	-	✓
CLASS 5 round, fine-stranded, thinned conductor	✓	✓	✓	✓	-
CLASS 6 round, super-fine-stranded, highly flexible conductor	✓	-	-	✓	-
CRIMPING PROFILES		OBLIGATED HEXAGONAL COMPRESSION		HEXAGONAL COMPRESSION INDENT- COMPRESSION QUAD-POINT- COMPRESSION	
BATTERY POWERED 6 TONS		 6 - 300 mm² 216801-1		 6 - 300 mm² 216801-1  10 - 300 mm² 216669/M-1  25 - 400 mm² 216667-1	
BATTERY POWERED 12 TONS		 10 - 300 mm² 216601-1  10 - 300 mm² 216622-1		 10 - 300 mm² 216601-1  10 - 400 mm² 216622-1  35 - 500 mm² 216668/M-1	
HYDRAULIC CRIMPING TOOLS		 6 - 300 mm² 216802  10 - 300 mm² 216125		 6 - 300 mm² 216802  10 - 400 mm² 216125  25 - 400 mm² 216661  35 - 500 mm² 216691	
MANUAL CRIMPING TOOLS		 6 - 50 mm² 210805 K 10 - 120 mm² 210853  6 - 300 mm² 216804		 0,75 - 6 mm² 710771  0,75 - 16 mm² 210830  6 - 50 mm² 210805 10 - 120 mm² 210850  6 - 300 mm² 216804	
		 6 - 300 mm² 216804		 16 - 300 mm² 216804	





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SAFE, STANDARD-COMPLIANT AND EFFICIENT CRIMPING

CONDUCTOR CLASSES ACCORDING TO DIN EN 60228/ IEC 60228	DIN COMPRESSION CABLE LUGS according to DIN 46235 Copper also suitable for round-pressed sector conductors	HUPtype HUPtype STANDARD TUBULAR CABLE LUGS, standard commercial design, copper also suitable for round-pressed sector conductors and solid conductors from 0.75 to 16 mm² Vibration and shock tested DIN EN 61373 Cat. 1, Class B	F-type F-type TUBULAR CABLE LUGS Cable class 5/6 for fine-stranded highly flexible conductors, copper	DIN COMPRESSION CABLE LUGS Aluminum and Al/Cu Tube dimensions according to DIN 46329 for aluminum conductors also suitable for round-pressed sector conductors
CABLE CROSS-SECTION mm² round/sector multi-stranded conductor round/sector solid conductor	TOOL CODE Number of crimps narrow dies 5 mm wide dies 300-06 400-C12	Number of crimps narrow dies 5 mm wide dies 300-06 400-C12 Number of crimps wide indent compression 6 Tons Number of crimps wide indent compression 12 Tons Number of crimps wide quad-point	Number of crimps 6 Tons 12 Tons 300-06 400-C12 Number of crimps wide indent 6 Tons 12 Tons Number of crimps wide quad-point	TOOL CODE Number of crimps narrow dies 7 mm wide dies 300-06 400-C12 Number of crimps wide indent
0,75	-	1	-	-
1,5	-	1	-	-
2,5	-	1	-	-
4	-	1	-	-
6	5	1	-	-
10	6	1	-	-
16	8	2	1	-
25	10	2	1	12
35	12	2	1	12
50	14	3	1	14
70	16	3	1	16
95	18	4	2	18
120	20	4	2	22
150	22	4	2	25
185	25	4	2	28
240	28	5	2	32
300	32	5	2	34
400	38	-	-	38
500	42	-	-	44

DIES FOR COPPER AND ALUMINIUM CABLE LUGS

DIN COMPRESSION CABLE LUGS according to DIN 46235

HUPtype STANDARD TUBULAR CABLE LUGS

STANDARD TUBULAR CABLE LUGS ALSO FOR USE ON COMPACTED AND THINNED CONDUCTORS

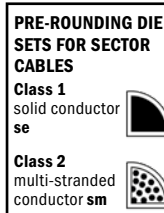
F-type F-type TUBULAR CABLE LUGS Cable class 5/6

DIN Aluminium and Al/Cu COMPRESSION CABLE LUGS according to DIN 46329

Press inserts for 6 tonne machines
Narrow pressing
Press width 5 mm for copper
Press width 7 mm for aluminium



Press inserts for 12 tonne machines
Wide pressing
Saves 60% working time compared to narrow pressing 5 mm



DIE SETS - 6 TONS



DIE SETS - 12 TONS



Important information regarding press force specifications:

The press forces specified by HAUPA for hydraulic indent and quad-point press tools are based on the specific properties and requirements of our hydraulic press systems. These values may not be transferred to products or systems from other manufacturers and may result in faulty connections. This information is provided for clarification purposes and is intended to help avoid misunderstandings and any claims by competitors. If you have any questions, please contact Product Management.



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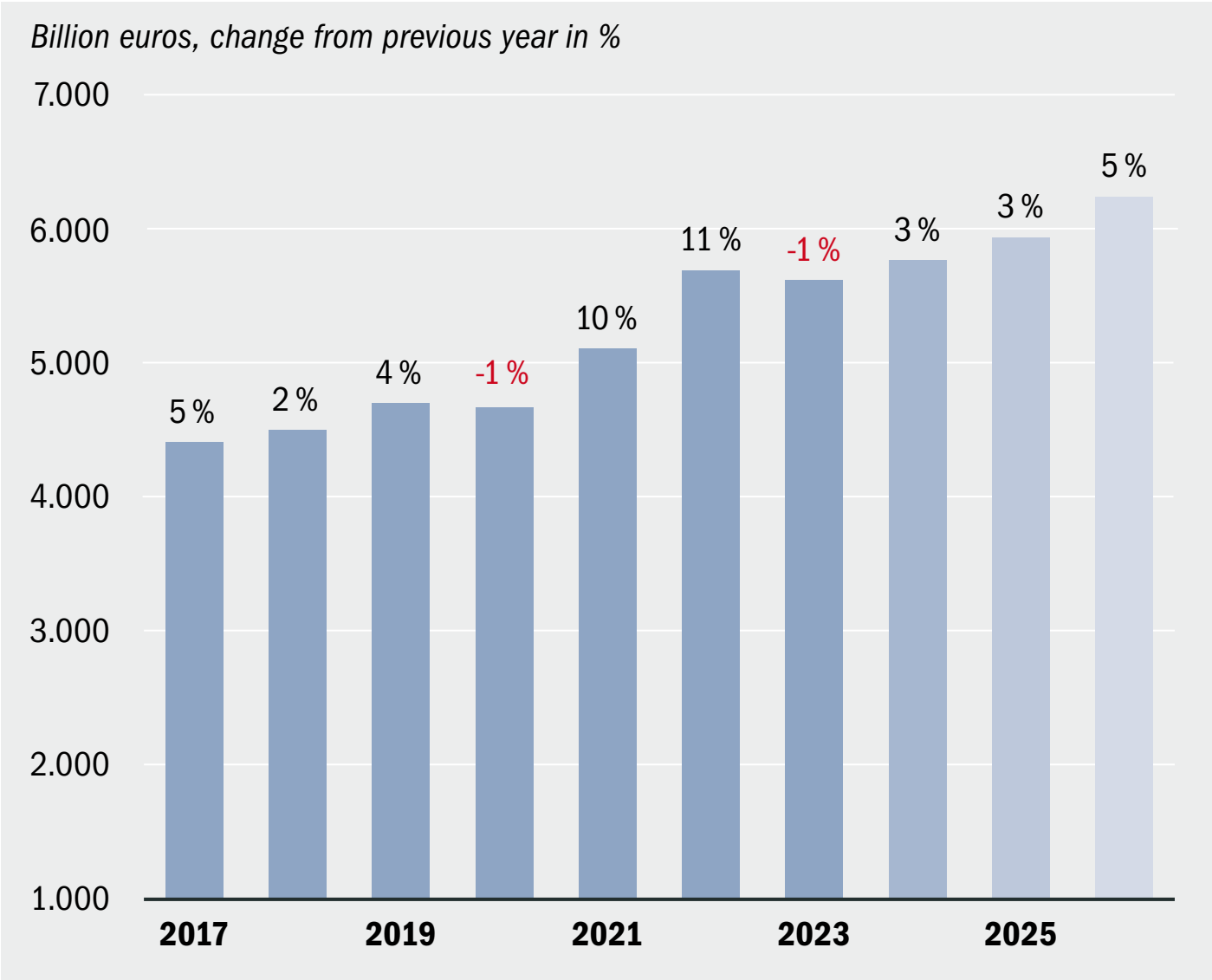
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... convincing solutions

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GLOBAL INDUSTRY OUTLOOK FOR 2026: Moderate growth in Europe.

The European electrical industry is optimistic but realistic about the year 2026: Both the electrical trade and the electrical industry are facing significant growth opportunities, accompanied by structural challenges and far-reaching transformation processes.



ZVEI global market for the electrical and digital industry: 2024 projection, 2025 and 2026 forecast (excluding exchange rate effects) (Source: ZVEI / National Statistical Offices and ZVEI's own calculations)

Overall development of the electrical market

After several years of moderate expansion, the global market for electrical and digital goods will return to stronger growth in 2026. According to current industry forecasts and ZVEI, the global electrical market will exceed the 6 trillion euros in sales for the first time, supported by an expected growth rate of around 5% in 2026. However, escalating trade conflicts in an increasingly fragmented global economy remain a significant risk. Asia remains the largest continental market, accounting

for 60% of the global electrical market and a market volume of €3,467 billion. After growth of approximately 4% in 2025, the Asian electrical market is expected to grow by 6% this year, according to the ZVEI's assessment.

The US market reached around €850 billion in 2025, putting it in second place in the country ranking. The ZVEI forecast predicts growth of 3% for 2026.

Europe continues to contribute a stable share to the global market: the European

electrical market recorded a volume of around €989 billion in 2024, remained relatively constant at relatively constant at around €1 trillion in 2025 and is expected to grow by around 3% in 2026. This means that Europe remains stable as a core industrial market, albeit with more moderate growth compared to regions such as Asia.

For Germany, the largest single market in Europe, moderate growth of around 2% is forecast until 2026 – an indication of structural challenges, but also of the sustainable overall potential of the industry.

INDUSTRY TRENDS 2026:

WHAT PROFESSIONALS IN THE ELECTRICAL TRADE NEED TO KNOW

The electrical trade is facing profound changes in 2026 – driven by technological developments, political conditions, and new customer requirements. For electricians, this means staying informed, adapting, and shaping the future. In the following article, we provide a concise overview of the most important trends shaping the everyday life and future of the trade.

1. Energy transition and charging infrastructure

Electric mobility continues to grow rapidly. The demand for charging points for private and commercial customers is increasing exponentially. Electricians are increasingly in demand when it comes to:

- Planning, installing, and maintaining AC and DC charging stations
- Integration of load management systems
- Consulting on subsidy programs and standards

Specialized training in intelligent load management and power grid integration pays off.

2. Grid integration & decentralized energy supply

With the expansion of solar systems and stationary storage facilities, the energy system is shifting toward decentralization. Electricians are playing key roles in this process:

- Connection of PV systems
- Combination with battery storage systems and e-mobility solutions
- Smart home and energy management systems (EMS)

The ability to seamlessly link different systems is becoming a competitive advantage.

3. Smart home & IoT – From convenience to necessity

Intelligent building technology is no longer "nice to have," but standard in new buildings and smart renovations. Areas with strong growth:

- Networked lighting and heating controls
- Security technology (alarms, camera surveillance, access control)
- Voice- and app-controlled solutions

Electricians are transitioning from pure service providers to system integrators – consulting expertise is crucial.

4. Cybersecurity as a component of electrical systems

The more devices are networked, the greater the risk of attacks. Electricians increasingly need to be knowledgeable about IT security:

- Secure installation of network and control technology
- Protection of smart home installations
- Cybersecurity standards and certifications

Further training in basic IT knowledge and security is a must.

5. Efficiency, sustainability, and building technology

Sustainability remains a key driver – both from a regulatory and customer perspective. Important areas of action:

- Energy-efficient lighting systems (LED + sensors)
- Efficient heat pump installations
- Consulting on energy audits and subsidies

This is where industry knowledge pays off – customers expect complete solutions, not just individual installations.

6. Automation & digitalization in operations

Change is taking place not only in technology, but also in the skilled trades themselves. Digital tools increase efficiency:

- Mobile order processing and time recording
- Digital documentation and maintenance logs
- AI-based assistance systems for planning and service

Businesses that think digitally work faster, more economically, and are more attractive to employees.

7. Skilled labor shortage and continuing education

The demand for qualified electricians remains high. At the same time, skill requirements are increasing. For employees, this means:

- Lifelong learning instead of rigid qualifications
- Specialization in new fields of technology
- Attractive working conditions for young talent

Companies that promote and retain employees are securing their future.

Seizing opportunities, shaping change

In 2026, the electrical trade will face a variety of challenges, but also enormous opportunities. Electricians who actively pursue further training, provide comprehensive advice to customers, and offer digital and sustainable solutions will become valuable partners in the energy transition and in the modern building sector.

8 EXCITING FACTS ABOUT ELECTRICITY

It flows rather leisurely, comes mainly from the north in its eco-friendly form, and rarely fails in this country: what you probably didn't know about electricity.

+ It flows in all living beings

Frankenstein's monster is brought to life with an electric arc. In comics, a light bulb lights up above someone's head when they have an idea. And in reality, muscles twitch when you give them an electric shock. In fact, electric current flows in every living being that has a nervous system. The nerve pathways use it to transport information. The human brain generates up to 23 watts of power. That would be enough to light up an LED lamp.

+ Its quantity is measured in kilowatt hours (kWh)

Electricity consumption is measured in kilowatt hours (kWh). But how much is a kWh? This amount of electricity is enough to power a powerful 1000-watt vacuum cleaner on medium setting for an hour. It is also enough to cook a hot dinner for four people or to work actively on a laptop for 50 hours. An electric car can travel an average of 6.7 kilometers on this amount of electricity, and an energy-saving light bulb can shine for up to 90 hours.

+ It's not lightning fast

When someone flips a switch at one end of a kilometer-long power line, the lights come on at the other end almost instantly. So electricity is lightning fast, right? No, because at the standard mains voltage of 230 volts, the electrons in an electric current actually move at only 0.5 millimeters per second. Electricity therefore flows rather leisurely. However, the associated electromagnetic wave propagates at a breakneck speed of 720 million kilometers per hour. It pushes the electrons in the cable so that they start moving at the other end at virtually the same moment.

+ Even the ancient Greeks knew about it

Around 550 BC, the Greek natural philosopher Thales of Miletus rubbed a piece of amber and discovered that it became electrostatically charged. The Greek word for amber, "elektron," gave rise to the name for the phenomenon that was rediscovered at the beginning of the modern era around 1600: electricity.



+ It does not only flow in one direction

Almost all electrical appliances in the home run on alternating current. Unlike direct current, it does not flow in only one direction, but constantly changes its direction. In Europe, it does this 50 times per second, meaning that the mains frequency is 50 hertz. Alternating current has the advantage that it allows electrical energy to be transmitted over long distances without significant losses. Incidentally, the Australian rock band AC/DC derived its name from the English terms for alternating current (AC) and direct current (DC).



+ Industry benefits most from this

Who actually consumes the most electricity in Germany? Statistics provide a clear answer to this question: industry, by far. Around 45 percent of the electrical energy consumed nationwide ended up in the machines of industrial companies, from robots to electric arc furnaces. In second place, with around 25 percent, are other companies in the commercial, trade, and service sectors. Private households are roughly on a par with this figure. Transport lags far behind – for now, at least, as this share is likely to increase significantly in the future in the wake of the electric car boom.



+ Its consumption is unevenly distributed worldwide

Global electricity consumption has more than tripled since 1980. According to statistics, every person on Earth now consumes approximately 2,900 kWh of electricity per year. But that is an average value: in reality, consumption is extremely unevenly distributed – depending on a country's prosperity, the degree of technological advancement, and the local infrastructure. For example, Americans consume more than 12,000 kWh per capita per year, while in East African Somalia, for example, it is just 21 kWh. Germany ranks in the top third worldwide with around 6,300 kWh.



+ The internet consumes vast amounts of it every year

Working on a computer is more energy-intensive than is commonly thought. A Google search consumes 0.3 watt hours. Twenty Google searches consume about as much energy as an energy-saving light bulb in one hour. The reason: Although the search engine provider's data centers are modern and comparatively energy-efficient, their sheer size makes them real power guzzlers. Overall, if the internet were its own country, it would be the fifth-largest electricity consumer in the world, using 900 to 1,000 terawatt hours annually. It causes about as much CO₂ emissions as global air traffic outside of the COVID-19 pandemic.

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