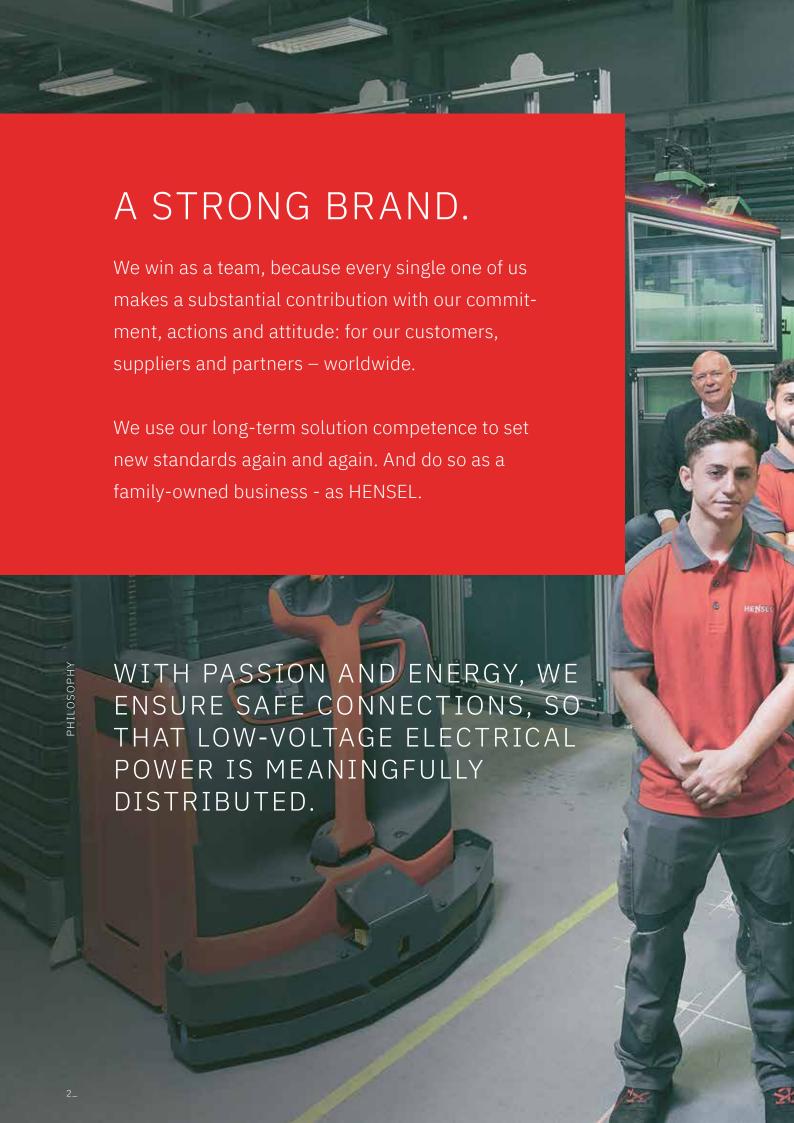


HENSEL





### MORE THAN 90 YEARS OF EXPERIENCE — YOUR ELECTRICAL ENERGY POWERS US

HENSEL is a leading, internationally operating provider of electrical installation and distribution systems for the safe distribution of electrical energy in challenging environments.

Many installation challenges in commercial and industrial buildings, in outdoor applications, in transport infrastructure systems and in photovoltaic installations are reliably solved thanks to HENSEL products.

Above all, it is the electrical industry and electrical plant construction companies that use HENSEL branded products and value our company's technical competence.

### **Cutting-edge production processes for maximum quality**

State-of-the-art plastics processing and advanced metal and surface coating production processes are a technical requisite for our high-quality electro-mechanical products.





### **International presence**

HENSEL guarantees local support and a high degree of availability thanks to its 4 locations in Germany, 10 subsidiaries and 60 international partners.







### A power-related production outage can get very expensive

Efficient production processes require an uninterrupted power supply.

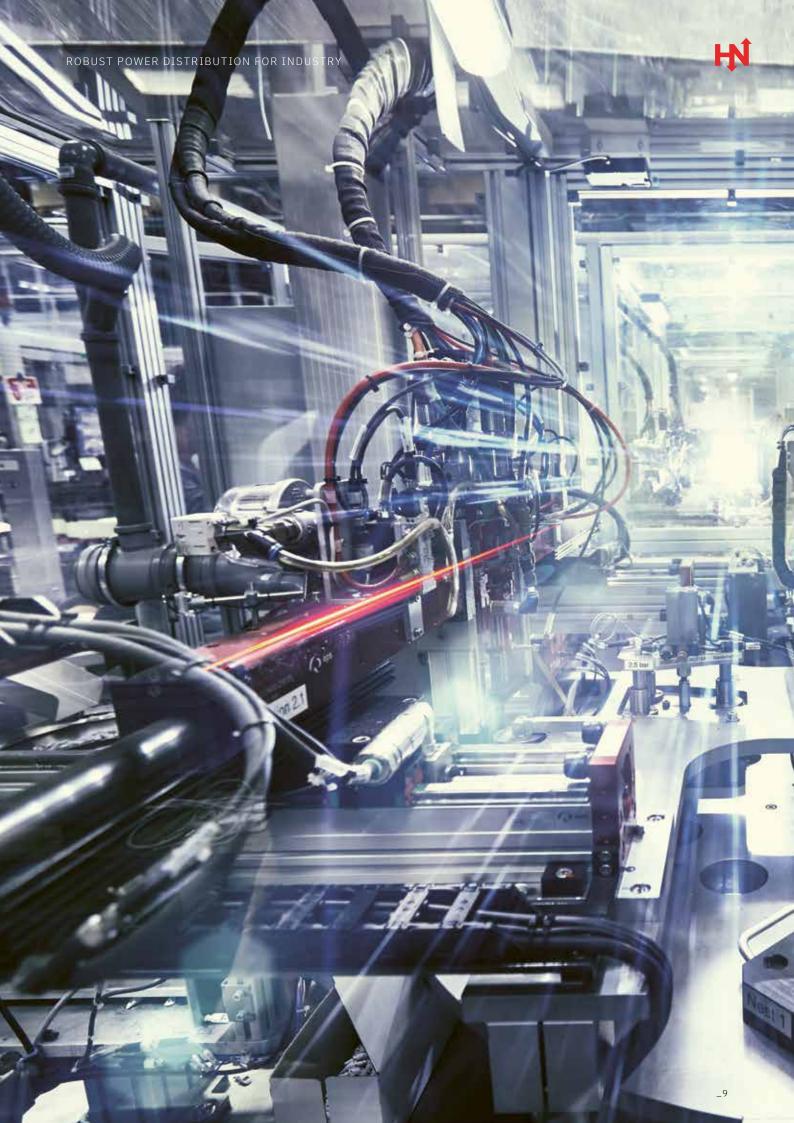
Every hour of halted production results in immense follow-up costs.

The causes cannot always be resolved immediately, and production will be at a standstill the whole while. This results in loss of production and loss of turnover.

Even if the power supply can be restored after an outage, there are some production areas which will still be offline: manufacturing systems might first need to be cleaned, repaired or restarted at great expense to time.

A power-related production outage in a paper factory, for instance, would cripple production. The paper on the roll would rip. Even when the power supply is restored, production could not be restarted immediately. The paper roll would first have to be reinstalled.

A well-planned, reliable power supply is the basis for your electrical installation systems. Be on the safe side with the reliable, standard-compliant product solutions from HENSEL.







### ENYCASE

Cable junction boxes



DK

For indoor and protected outdoor installation



**KF** "weatherproof"

For unprotected outdoor and offshore installation



**WP** "waterproof"

For encapsulating, for extreme applications



**FK** "with functional integrity"

intrinsic fire resistance E30–E90 and insulation integrity PH120

### ENYBOARD

Small-type distribution boards up to 63 A



KV

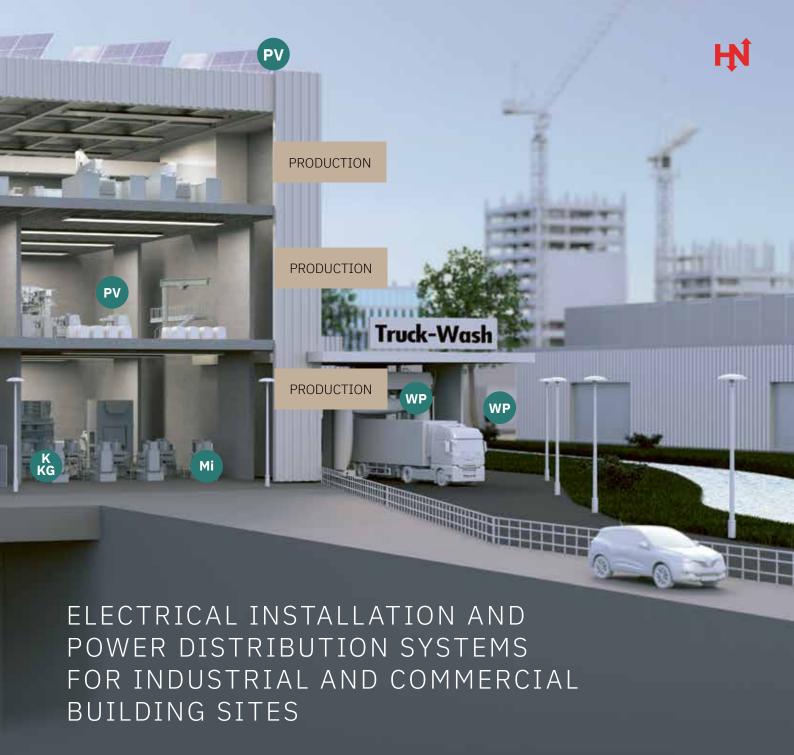
For indoor and protected outdoor installation



ΚV

"weatherproof"

For unprotected outdoor installation



### ENYSTAP

Distribution boards up to 250 A with doors



FP

### ENYFLEX

Customized solutions and individual applications according to IEC 62208



EB/KG

#### ENYMOD

Mi Power distribution boards up to 630 A



### ENYSUN

Product solutions for photovoltaic plants









### **INDUSTRY – At home in industry worldwide**

HENSEL products are used globally in electrical installation and distribution technology, mostly in demanding environments.

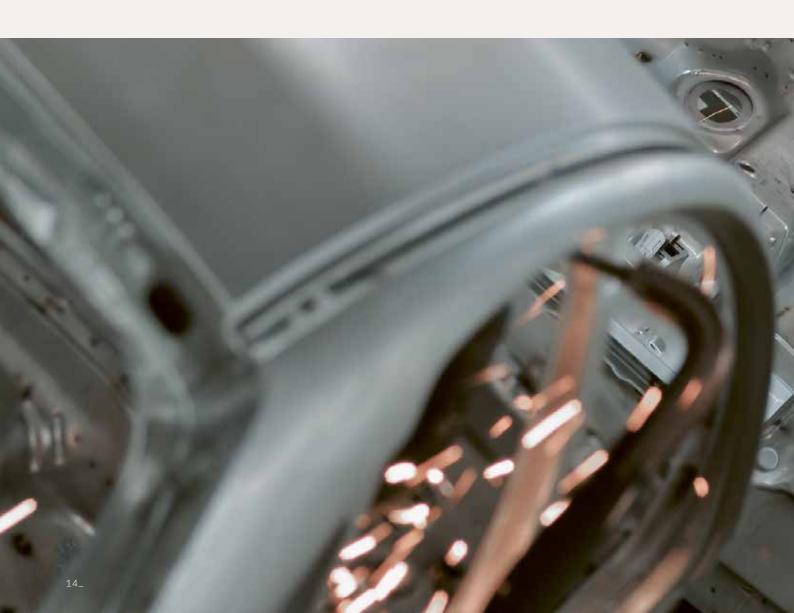
With more than 90 years of expertise in the field, we ensure the successful, sustainable implementation of projects in industrial companies in more than 60 countries.

# WHERE PRODUCTION MUST GO ON

### Special challenges

- + Automated manufacturing with production lines and welding robots requires a constant power supply without interruption
- + Production areas with manual work
- + A reliable power supply must prevent powerrelated production outages

- + HENSEL products comply with standards, installation requirements, guidelines and application guides
- + Individual product solutions



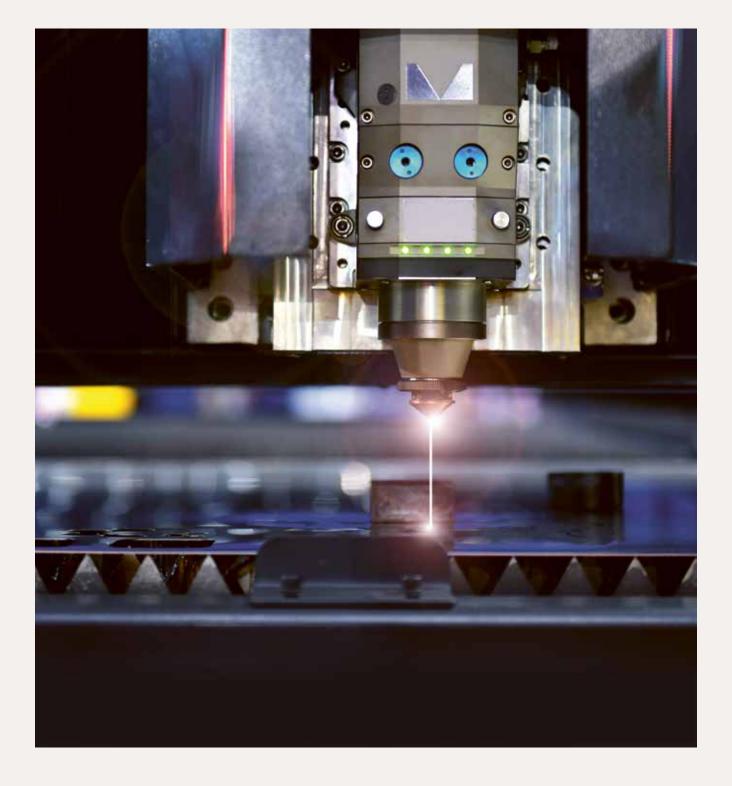




HENSEL products ensure a trouble-free production process, e. g. the KV Smalltype distribution board in relation with local robots



# WHERE AUTOMATION MUST RUN SMOOTHLY







HENSEL products ensuring reliable power distribution in a metalworking factory.

### Special challenges

- + High degree of automation
- + Durable, robust systems
- + Special requirements due to varying application conditions

- + High degree of protection against mechanical load
- + HENSEL products comply with standards, installation requirements, guidelines and application guides
- + Individual product solutions



### WHERE EVERY MILLIGRAM COUNTS

### Special challenges

- + High degree of automation
- + Staff safety
- + Sensitive production processes which cannot afford to fail

- + The high IP protection class ensures protection against dust and humidity
- + Chemical resistance, silicon- and halogen-free product solutions
- + Individual product solutions





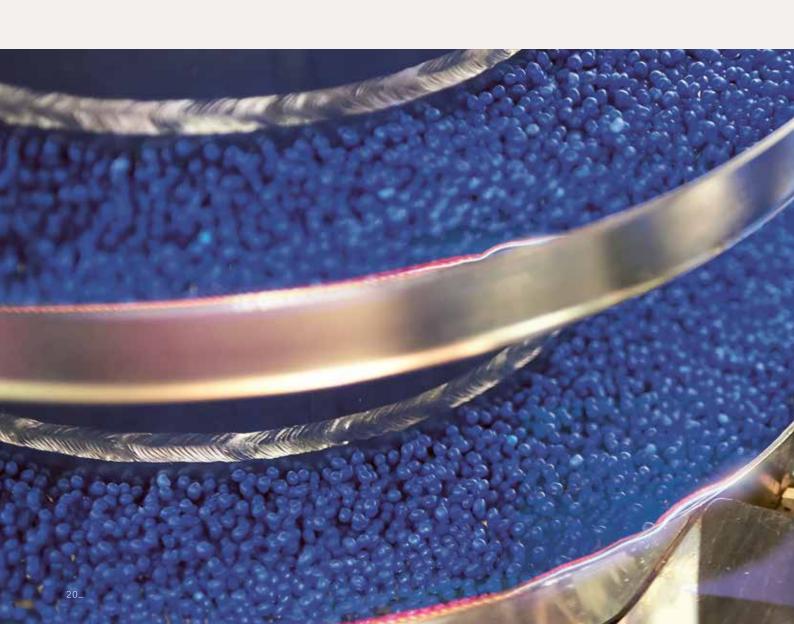
Mi distribution board in the chemical industry

## WHERE THERMAL PROCESSING SETS HIGH DEMANDS

### Special challenges

- + High degree of automation
- + High-performance and high-complexity machines and systems
- + Staff safety
- + Safe products

- + The high IP protection class ensures protection against dust and humidity
- + HENSEL products comply with standards, installation requirements, guidelines and application guides
- + Individual product solutions



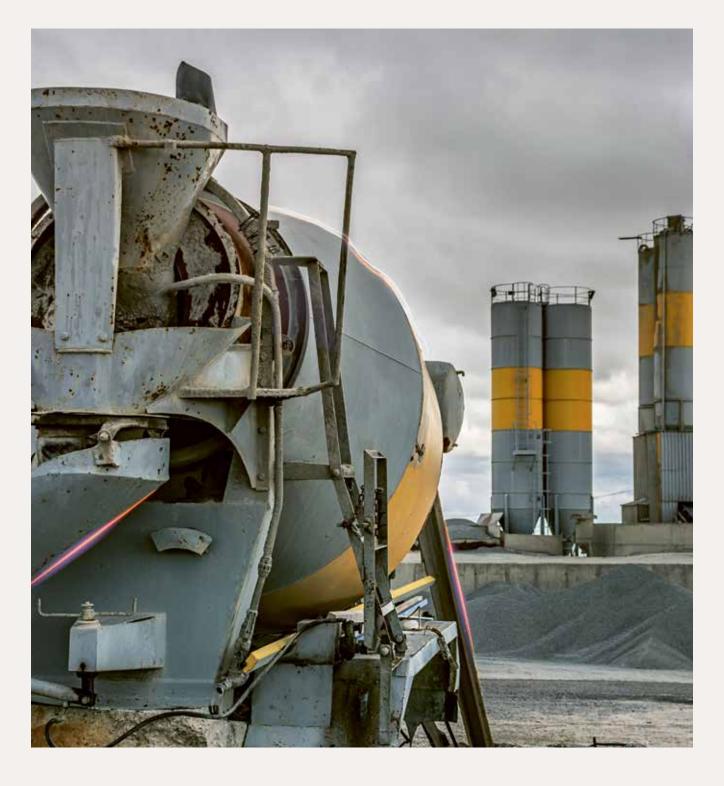




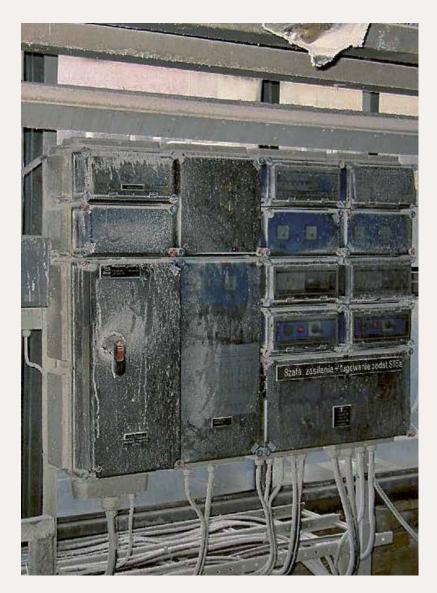
The KV small-type distribution board with FIXCONNECT® complies with all current standards and installation requirements.



# WHERE DUST AND MOISTURE ARE EVERYWHERE







The distribution boards in a zinc mining company are exposed to extreme amounts of dust and dirt.

General power supply for keeping production processes up and running in a mine in combination with a generator.



### Special challenges

- + Dusty and damp conditions
- + Varying weather conditions, high temperature fluctuations
- + Hard to access electrical systems
- + Heavy mechanical loads
- + Safe products

- + The high IP protection class (up to IP 69) ensures protection against dust and moisture
- + High degree of protection against mechanical load
- + Maintenance-free products thanks to high quality
- + Electrical installation and distribution systems for protected and unprotected outdoor installation
- + Ventilation inserts to prevent condensation
- + Individual product solutions



### WHERE CHIPS FLY

### Special challenges

- + High dust exposure through sawing work
- + Staff safety

- + Dust-protected product solutions ensure reliable operation
- + Maintenance-free products thanks to high quality
- + HENSEL products comply with standards, installation requirements, guidelines and application guides
- + Protection class II ensures the safety of untrained personnel
- + Individual product solutions





The HENSEL cable junction box is dustproof (IP 66).

## WHERE FOOD HAS TO STAY FRESH

### Special challenges

- + High output through high power consumption, e.g. for cold stores.
- + Fail-safe systems to ensure continuous processes
- + High degree of automation
- + Aggressive, dusty or damp conditions

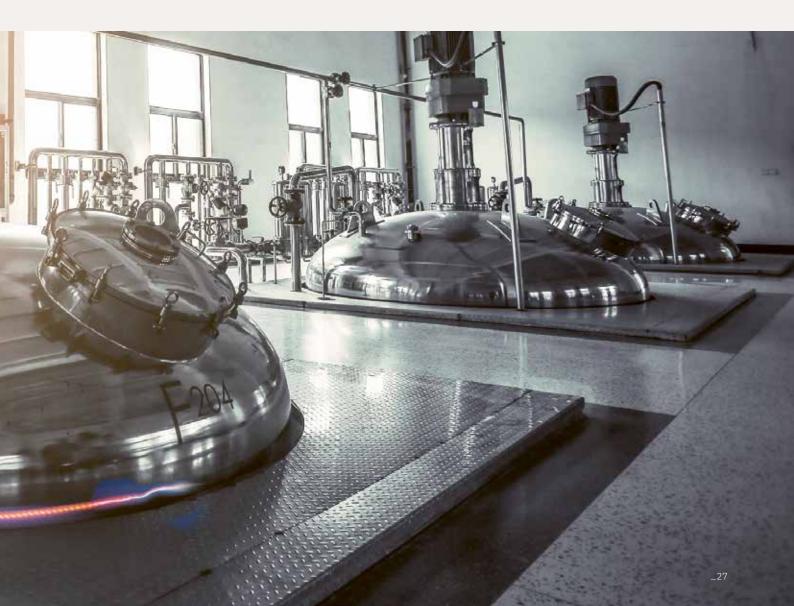
- + The high IP protection class ensures protection against dust and humidity
- + Maintenance-free products thanks to high quality
- + Individual product solutions







HENSEL KV Small-type distribution boards in a frozen food company in Thailand



# WHERE THE FLOW CANNOT BE BROKEN







Mi distribution boards from HENSEL are dust- and waterproof and can withstand heavy loads.

### Special challenges

- + Power supply must not be interrupted
- + High degree of automation
- + Production outages result in high follow-up costs

- + The high IP protection class ensures protection against dust
- + Maintenance-free products thanks to high quality
- + HENSEL products comply with standards, installation requirements, guidelines and application guides
- + Individual product solutions

### MODERN TEST METHODS - HENSEL STANDS FOR CERTIFIED QUALITY.

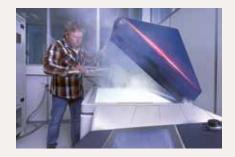
Places with dusty and humid environmental conditions that pose great challenges to electrical installation require products of the highest quality for the reliable distribution of electrical power in the low-voltage range.

- + Durability of plastic materials
- + Tests on electromagnetic susceptibility (EMC tests)
- + Fire behaviour
- + Limits of temperature rise
- + Functional tests

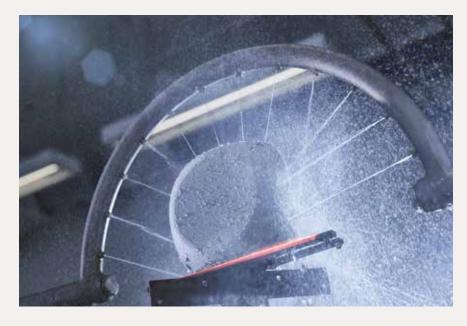
- + IP degree of protection (dust and water protection)
- + Impact resistance
- + Temperature resistance
- + Corrosion resistance
- + Dimensions check via structured light projection



VDE-certified test laboratory











### HIGH QUALITY STANDARDS GUARANTEE THAT OUR PARTNERS HAVE THE CRUCIAL COMPETITIVE EDGE:

- \_ Certified quality standard according to DIN EN ISO 9001:2015 for all production sites of the HENSEL Group.
- \_ Lean processes and efficiently positioned for the future.
  Continuous optimization: Lean management /
  HENSEL PEP system
- \_ Safe manufacturing processes:
  - . Occupational Health and Safety
  - . Energiemanagement nach DIN EN ISO 50001
  - . Environmental management according to DIN EN ISO 14001

### ENYEXPERT — MORE KNOWLEDGE IN YOUR HAND

Always be up-to-date on the go. In addition to useful information, the HENSEL app offers simple and practical tools to make your everyday work easier.

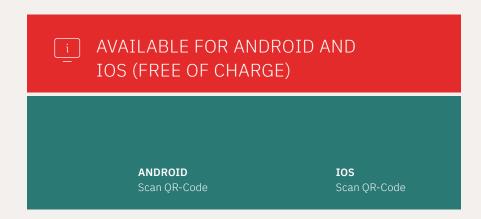
### Data slide / data disc Determination of conductor cross-section and length

- + Cable gland finder
  Find the suitable cable entry
  for your cable
- + HENSEL expert

  Quickly find your nearest

  HENSEL expert





+ PORTAL 61439

The platform with all information about design and assembly

according to IEC 61439 / EN 61439.

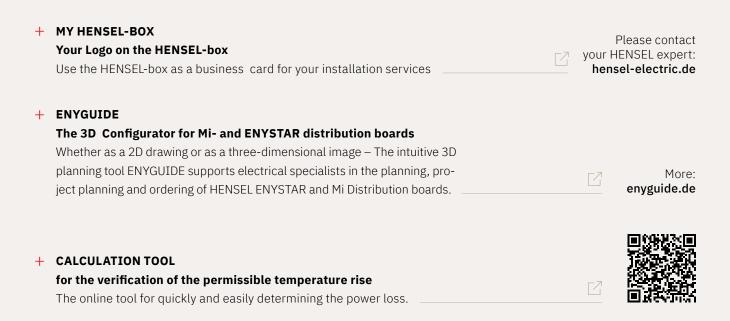


### SERVICE@HENSEL -DIGITAL, ANALOGUE AND ON SITE

In addition to the ENYEXPERT app,
HENSEL offers other useful and innovative
tools that significantly facilitate the
everyday work in the electrical trade:









## WE PROVIDE YOU WITH PROJECT SUPPORT!

HENSEL maintains a close-knit network of technical field offices, distribution bases, subsidiaries and foreign representative offices throughout the world.

### Please scan the QR code or see our website

www.hensel-electric.de to get detailed information.









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