



# Our passion for reliable production processes

**Robust power distribution for industry**







## Hensel – A strong brand

With passion and energy, we ensure safe connections, so that low-voltage electrical power is meaningfully distributed. Particularly where high demands are placed on the electrical installation.

We win as a team, because every single one of us makes a substantial contribution with our commitment, actions and attitude: for our customers, suppliers and partners – worldwide.

We use our long-term solution competence to set new standards again and again.

And do so as a family-owned business - as HENSEL.

Philipp C. Hensel

Frank Dubberke

Michael Lehr





MORE THAN 90 YEARS OF EXPERIENCE

# Your electrical energy powers us

 made in **GERMANY**  
since 1931

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.



## FAMILY COMPANY

FOUNDED IN 1931

13 SUBSIDIARIES NATIONALLY AND INTERNATIONALLY

MORE THAN 60 INTERNATIONAL PARTNERS

850 EMPLOYEES

ELECTRICAL INSTALLATION AND DISTRIBUTION SYSTEMS

## 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.





# Efficient processes in challenging environments

The reliable distribution of electrical energy is of great importance to industrial companies. Furthermore, the shift towards process optimisation, automation and digitalisation further increases the need for safe power distribution.

And no wonder: because if power supply goes down, it will take systems offline or even cripple factories entirely.

## 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.

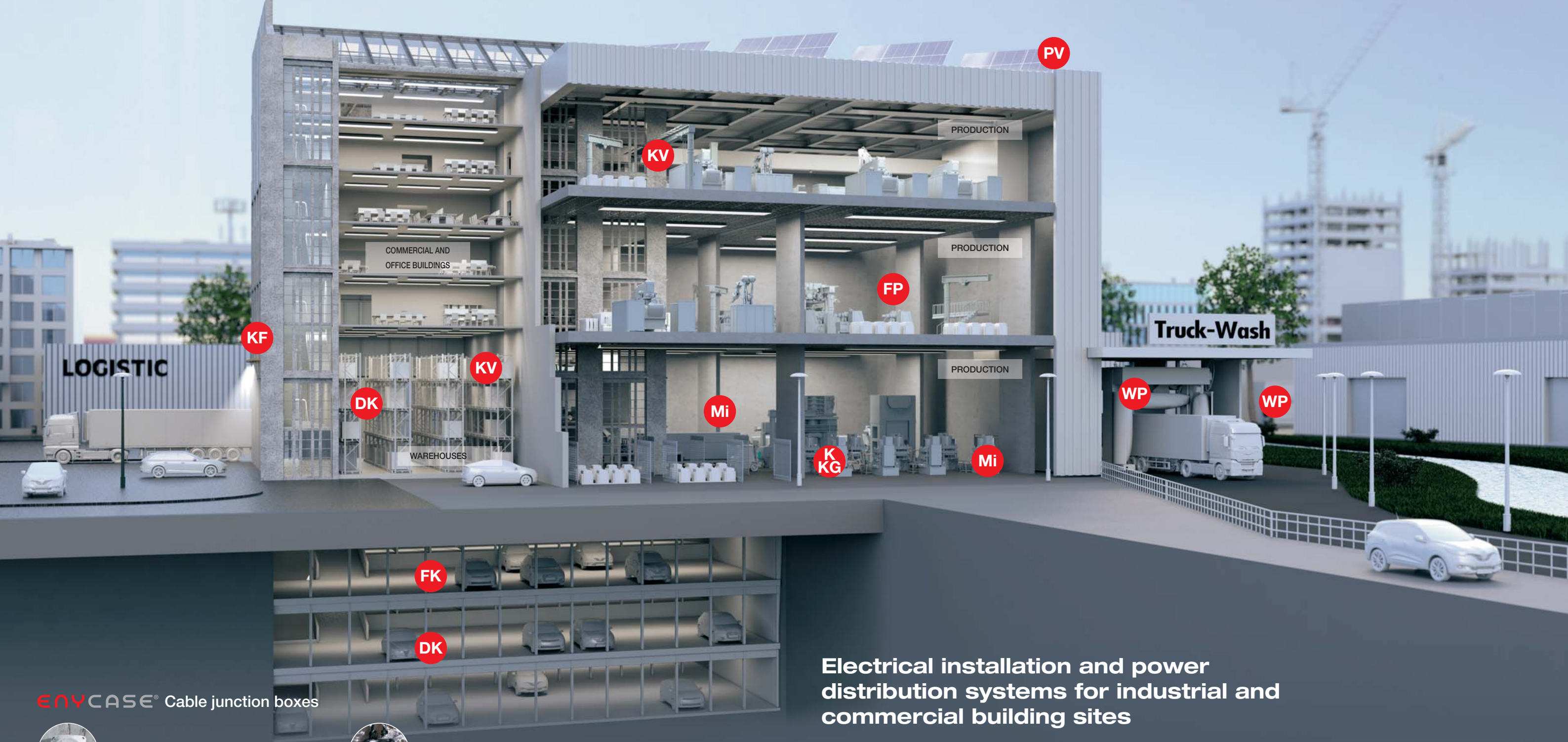
Even if the power supply can be restored after an outage, there are some production areas which will still be offline: manufacturing systems might first need to be cleaned, repaired or restarted at great expense to time.

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.







## ENVCASE® Cable junction boxes



DK

For indoor and protected outdoor installation



KF "weatherproof"

For unprotected outdoor and offshore installation

## ENYBOARD Small-type distribution boards up to 63 A



KV

For indoor and protected outdoor installation



KV "weatherproof"

For unprotected outdoor installation



WP "waterproof"

For encapsulating, for extreme applications



FK "with functional integrity"

intrinsic fire resistance E30–E90 and insulation integrity PH120

## Electrical installation and power distribution systems for industrial and commercial building sites

### ENYSTAR®

Distribution boards up to 250 A with doors



FP

### ENYMOD

Mi Power distribution boards up to 630 A



Mi

### ENYFLEX

Customized solutions and individual applications according to IEC 62208



K / KG

### ENYSUN

Product solutions for photovoltaic plants



PV





## 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.





## APPLICATIONS

# Automotive industry

### 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 power-related production outages

### Our solution

- 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 Small-type distribution board in relation with local robots*

Where production must go on



Where automation  
must run smoothly

## APPLICATIONS

# Metal and electrical industry

### Special challenges

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

### Our solution

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



*Hensel products ensuring reliable power distribution in a metalworking factory.*



## APPLICATIONS

# Chemical and pharmaceutical industry

### Special challenges

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

### Our solution

- 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 every milligram counts



## APPLICATIONS

# Plastics processing

### Special challenges

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

### Our solution

- 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 thermal processing  
sets high demands



## APPLICATIONS

# Mining and building materials industry

### Special challenges

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

### Our solution

- 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



*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.*

Where dust and moisture  
are everywhere



Where chips fly

## APPLICATIONS

# Wood processing

### Special challenges

- High dust exposure through sawing work
- Staff safety

### Our solution

- 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

## APPLICATIONS

# Food industry

### 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

### Our solution

- 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



## APPLICATIONS

# Paper processing

### Special challenges

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

### Our solution

- 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



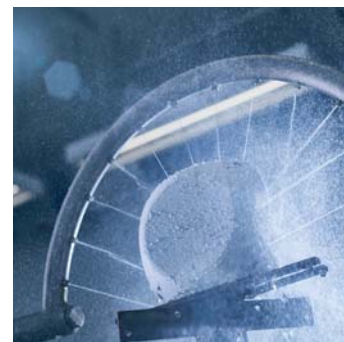
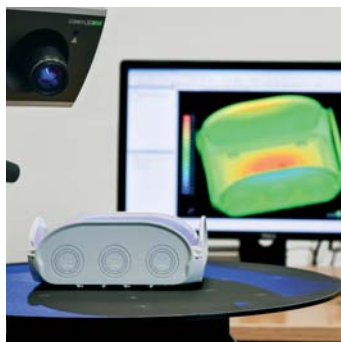
*Mi distribution boards from Hensel are dust- and waterproof and can withstand heavy loads.*

Where the flow cannot be broken





VDE-CERTIFIED TEST LABORATORY



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

## MODERN TEST METHODS

# Hensel stands for certified quality

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
  - Energy management according to DIN EN ISO 50001
  - Environmental management according to DIN EN ISO 14001





- Headquarter in Lennestadt
- Subsidiaries
- Sales partners

### HEADQUARTER IN LENNESTADT

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### CONTACT

We provide you with project support!



**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.ae](http://www.hensel-electric.ae) to get detailed information.



### COMPANY

## Hensel Electric FZE

Hensel Electric FZE is a wholly owned subsidiary of Hensel International GmbH, Germany.

Established in 2016, we are located at Sharjah Airport International Free Zone in the United Arab Emirates. Through our network of distribution partners and customers all over the MENA, we ensure that our products are available at short notice in the region.

The company is certified to ISO 9001 : 2015 by TUV Rheinland.





#### **Hensel Electric FZE**

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 made in **GERMANY**  
since 1931