



Pushing Performance



People | Power | Partnership

# HARTING

## for Transportation

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# HARTING for Railways.

## Our team moves your daily life forward.

The HARTING Technology Group accompanies you through technological transformations. Our innovative components, consultants, services and systems help us to guide our customers into the digital future. We are your single-source solution: offering everything from individual components to custom-fit systems.

HARTING provides innovative solutions for the ongoing digitalisation of railway applications (e.g. with passenger information or service management systems). Contact us for more information.



# System Quality Guaranteed

## Solutions for your applications.

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Train station

Infrastructure



Vehicle roof

Driver's console

Under the wagon floor



Electrical cabinet

Train coupling

Passenger area



Wagon coupling

Bogie

# Customised solutions. For specific challenges.

## System solutions



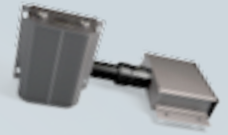
[MICA modular mini computer system](#)



[The Ha-VIS RFID Box complete RFID system](#)



[Complete systems for wagon coupling cables](#)



Outdoor communication transmission unit (OCTU)

## Application solutions



[Integrated electrical cabinet solutions](#)



Control box



[FO wagon coupling cable](#)



[MVB/WTB diagnostic units](#)



[POF module](#)

## Innovative products



[M12 circular connector](#)



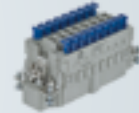
[Ha-VIS transponder RFID Control ETB](#)



[PCB connectors har-flexicon](#)



[Han Megabit-Module/Gigabit module](#)



[Inserts Han FS Press](#)



[Hall effect current sensors](#)



Feed-through adapters in compliance with EN 45 545



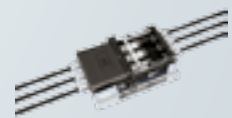
[DIN-Power D 20-shell housings](#)



[PCB connectors har-flex](#)



[Han 34 HPR EasyCon wagon coupling](#)



[Han 24 HPR EasyCon](#)



[Gigabit switches Ha-VIS eCon 4100](#)

## Tools, service, consulting and quality



[Manual crimping tool](#)



[Torque wrench](#)



[Crimp machine](#)

**Flammability directives:**  
Conformity:

**Railway quality standard:**

**Product standards:**

**EMC:**

**Shock and vibration:**

**Ethernet:**

**Degree of protection:**

EN 45545, UL94

**RoHS**  
compliant

Conflict minerals

**IRIS**  
Certification

EN 50 467, IEC 61 984, IEC 60 603-2

EN 50 121, EN 61 000-4-4

EN 61 373

IEC 61 375, EN 50 155

EN 60 529

# HARTING.

Much more than just connectors.

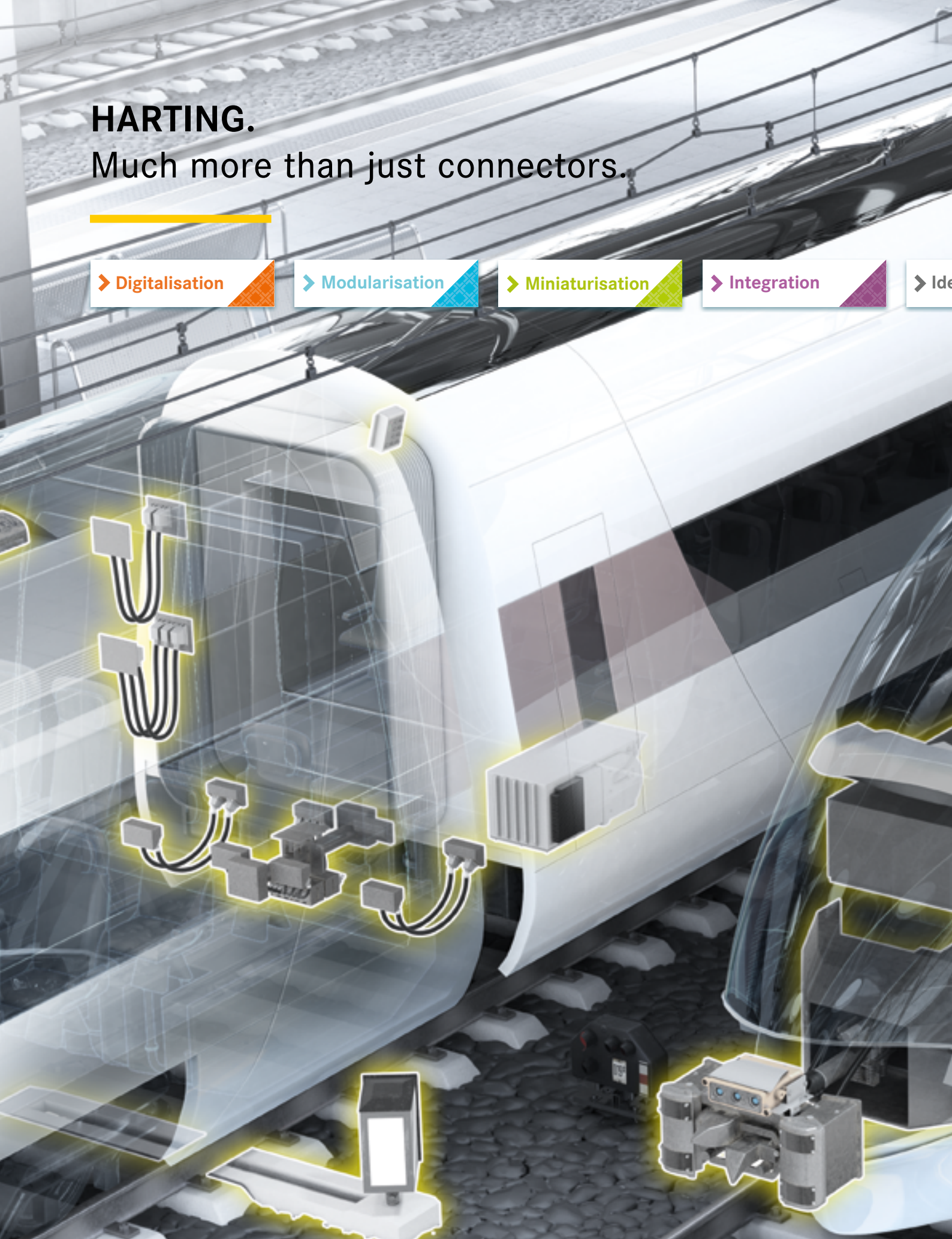
➤ Digitalisation

➤ Modularisation

➤ Miniaturisation

➤ Integration

➤ Ide



Identification

➤ Customisation

RFID

Sensors

Ethernet

EN 45 545

PCB solutions

Auto-ID solutions

Cable assemblies

Networking technologies

Current measurements

Contactless communication

Customer-specific electrical systems

# Our services. Your advantages.

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Our solutions offer many advantages – increased system safety, reduced costs and reduced investment of time – to help you strengthen your market position.



Our global network of experts provide you with speedy, qualified consulting.



Get everything from a single source: **so you simplify your logistics.**



**Customised solutions provide a quick, cost-effective adaptation to your requirements.**



**Miniaturisation and integration: so same functionality requires less space.**



**Risk-free Auto-ID solutions** provided by a quick "proof of concept".



HARTING electrical cabinet solutions result in **up to 80% less installation time.**



**Secure and reliable planning** supported by decades of experience in the railway sector.



Our wide range of services **simplifies the engineering and product acceptance processes.**



**Customised simulations and tests** executed by our in-house accredited laboratory.



Our wide range of products in each series helps to **reduce engineering work.**



Pushing Performance

**HARTING.com**  
the gateway to your  
country website.

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