

Individual device connectivity tailored to device versatility.

When customized products are called for, you can always rely on HARTING.

HARTING offers a wide range of series products for data, signal and power. Most tasks are covered by a convincing solution from the standard range of board-to-board, cable-to-board or wire-to-board connectivity offered. In many instances, however, specific tasks call for the development of a connectivity solution that is tailored and attuned to specific devices. Requests range from color choices and labeling to stand-alone customer specific solutions.

We implement the connection technology and its customized integration into your devices. Our offerings include individual device connectivity and matching accessories such as cable assemblies and all the way through to complete connection boxes.



CONTENTS	PAGE
From ideas to the Best Customer Solution	31.02
Production as competitive factor	31.04
Solution spectrum	31.06

**CUSTOMER REQUIREMENTS**

Highly qualified sales engineers record your requirements, and devise and explain initial solution approaches



**DESIGN AND DEVELOPMENT**

In close coordination with customers, the inventive engineers at the HARTING Technology Group develop the Best Customer Solution



**PRESENTATION OF SOLUTION PROPOSALS**

Presentation and discussion of the developed Device Connectivity concept



**PRODUCTION**

Manufacturing of products to exacting quality standards



**DELIVERY**

On-time delivery according to your delivery and packaging instructions



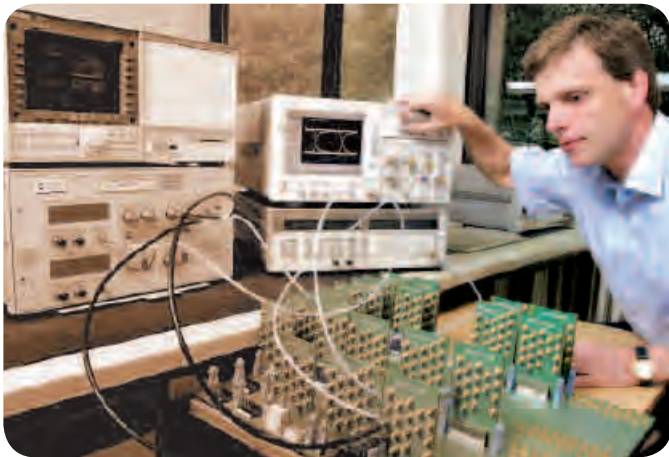
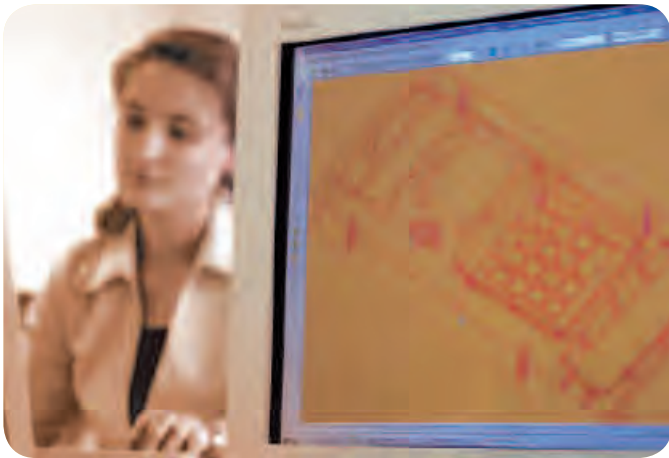
**FROM IDEAS TO THE BEST CUSTOMER SOLUTION**

In cooperation with your product managers and development engineers, HARTING will generate the ideal connectivity solutions for your devices.

Project management encompasses all activities required for the reliable, cost-effective and on-time handling and execution.

An initial concept is created with the help of advanced, leading edge CAD technologies and inspected in terms of feasibility in specially equipped test workshops as well as by the accredited HARTING laboratory.

In order to attune solutions to production requirements, the tool construction, production and quality management departments contribute their expertise right from the outset.



**PRODUCTION OF DEVICE CONNECTIVITY:**

Our products are backed by an additional, decisive competitive factor - namely the production process. HARTING production performance represents a consequent supplement to innovative product development. Divided according to technology areas, and operating with a high vertical range of manufacture, our state of the art production locations are based in Germany, England, Romania, USA and China. At HARTING, the entire range, from smallest production batches to large-scale automated production, is subject to consistent QC management.



**PUNCHED AND LATHED COMPONENTS:**

Punching and lathing represent basic technologies used to produce contacts. Customer requirements such as special contact materials and dimensions can be implemented directly through our own production processes.



**INJECTION MOLDING:**

Isolators of connectors and plastic housing are produced in an injection molding process. HARTING excels in the production of filigree isolators and the production of miniature precision parts.

We develop, construct and produce micro precision injection molding tools along the limits of feasibility.

**ALUMINUM DIE-CASTING:**

HARTING produces its Han® housings in an aluminum die-casting process. This technology forms the basis for robust metal housings for a wide range of different applications.



**OVERMOLDING AND ENCAPSULATING TECHNOLOGY:**

HARTING offers overmolded cables and connectors for cable-to-board connectivity with degree of protection IP 65 / IP 67. Corresponding tools and production equipment for overmolding and encapsulating technologies are available at all our production locations.



**CABLE ASSEMBLY:**

The cable assembly area produces cabling solutions with standard, hybrid or special cables.

We produce bus cables for Ethernet, Fieldbus systems as well as for special communication protocols.

We also assemble FOC cables on the basis of plastic, glass (monomode, gradient and grade index) or HCS fibers.



**PCB PRODUCTION:**

We support innovative device configurations with PCB modules as connectivity interfaces. The offerings include solutions ranging from simple PCB adapters through to complex multilayer backplanes.

Based on the Global Footprint principle, HARTING is able to provide the same production expertise at our companies in the USA, in England and in China.



**PRODUCTION OF COMPLETE MODULES:**

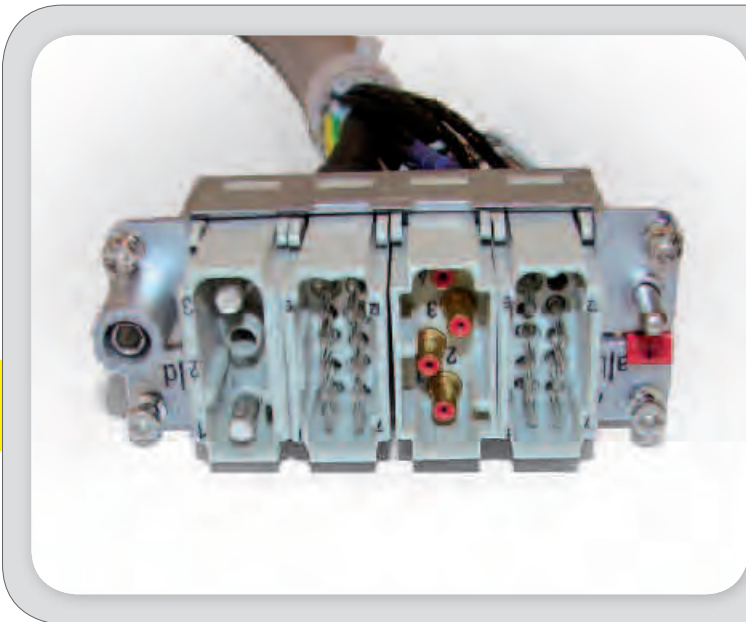
Our range of Device Connectivity offerings also covers the development and assembly of complete custom connection modules, with IP 20 or IP 65 / IP 67 modules for data, signal and power applications tailored to suit the requirements of your specific devices. These connection modules combine our in-depth expertise and competencies in connection, PCB and housing technologies.

**TAILORED PRODUCTS:**

HARTING provides a convincing answer to each and every connectivity requirement – whether board-to-board, cable-to-board or wire-to-board applications. Our customers benefit from our capability of providing tailored solutions for all applications.

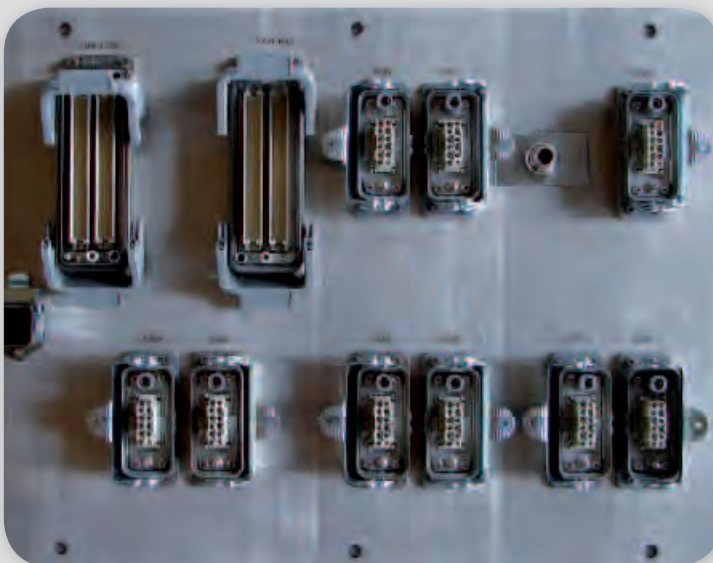


Customized connector concept



Ready-to-use pre-assembled connector with system cable

Connectivity module for installation in equipment or control cabinets



Decentralized electronic module



Decentralized electronic module with high degree of protection (IP 65 / IP 67)





