

Han® HMC –

# Higher mating cycles for modular industrial connectors

The modular construction of industrial facilities is developing into the central solution in Industry 4.0. This also increases the demands made on heavy-duty connectors. With the Han® HMC, HARTING is introducing a connector family designed for over 10,000 mating cycles.

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“Industry 4.0” is the central concept with which classical industry is evolving at a considerable speed. A key point in this development is the strong individualization of products, which nevertheless requires highly flexible mass production.

This means that, in addition to more intelligent control and automation technology, highly flexible interfaces are being required in more and more modularly constructed production facilities. These interfaces are being faced with greater demands than hitherto has been the case due to more frequent tool and system change intervals. In particular, they need to accommodate increased mating cycles.

Based on these aspects, the HARTING Technology Group has developed the Han® HMC series as heavy-duty industrial connectors. While standard industrial connectors are designed to

handle in excess of 500 mating cycles, the Han® HMC series tolerates more than 10,000 mating cycles with no performance degradation. Even after such high loads, the requirements of DIN EN 61984 continue to be met.

## TECHNICAL BASIS

The Han® B series forms the technical basis for this new connector, which has proven itself millions of times over and has been firmly established on the market for decades. Focused development efforts have seen the Han® B series successfully adapted to these new requirements. In this context, new solutions were employed. By way of example, entirely newly developed high-performance contact springs replace conventional earthing contacts. Likewise, special measures permitted the locking system to be adapted to the somewhat increased number of locking operations.

” The Han® HMC series extends the product portfolio for industrial applications that require more than 10,000 mating cycles for the connectors they deploy.



The contacts are the heart of a connector, which must reliably transmit signals, data, and power over its entire lifespan. The Han D® and Han E® contacts employed in the Han® HMC series are coated with a special gold layer, ensuring optimum electrical properties in all stages of the connector's lifespan.

For customers, however, nothing changes in terms of mounting dimensions and the assembly tools to be used. This makes a transition to the new series equally convenient and unproblematic, since the connectors can be used in the customary way. ■

#### IN BRIEF

- High number of mating cycles
- Designed for Industry 4.0
- Optimum performance under extreme conditions