With HYDAC on the way to Industrie 4.0

- Automation of added value networks
- New business models
- Digitisation
- Flexibility
- Increased efficiency
- Connectivity, communication
- Information available in real time
- Smart Factory
- Industrie 4.0
- Industrial Internet of Things (IIoT)
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Technology and ever shortening product life cycles, increased individualisation of customer wishes, resources becoming scarce and globalisation are bringing about enormous challenges for the manufacturing industry.

The resulting problems do, however, create a high potential for innovative solutions. For machinery and system builders, there are diverse opportunities to generate competitive advantages. Connectivity and digitisation will play a key role here.

On this basis, it will be possible to develop new business models as well as new product and service offers. The changes that industry is aiming for are deemed so extensive that in Germany there is talk of a fourth industrial revolution or, put simply, “Industrie 4.0”.

In other parts of the world, corresponding developments are being advanced under terms such as Smart Factory or Industrial Internet of Things (IIoT).

What is the best way to describe “Industrie 4.0”? Many different definitions have been put forward. In brief, “Industrie 4.0” is often defined as “the merger of cutting-edge information and communication technology with the manufacturing industry” or as the “Internet of things and services” in the industrial sector.

The very far-reaching vision and goals of Industrie 4.0 are illustrated by the in-depth definition of “Platform Industrie 4.0”: “Industrie 4.0” stands for a new level of organisation and control of the entire value chain across the life cycle of products.

This cycle is orientated towards the ever increasing individualised customer requirements, encompassing the idea, the development, the assignment, the manufacturing, the delivery of the product to the end customer and the recycling, including the associated services. The basis is the availability of all relevant information in real time by connectivity of all instances involved in value creation and the ability to derive the optimum value creation flow from the data at each point in time.

Linking people, objects and systems creates cross-company added value networks that are dynamic, real-time optimised and self-organising and that can be optimised in accordance with criteria such as costs, availability and resource usage.
HYDAC offer a wide range of products and services and possess in-depth application knowledge, making HYDAC a partner for all kinds of I 4.0 developments. Furthermore, we work with our customers on future-focused products, digital services and new business models.
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