



**RF4.0**

# SMART FACTORY ROLL FORMING 4.0

When vision becomes  
a reality!

## The specialist for your roll forming technologies

Ever since it was founded in 1949, DREISTERN GmbH & Co. KG has always set exceptional standards in the field of roll forming. We have established ourselves as one of the market leaders worldwide through the application of the very latest technologies in roll forming lines, our comprehensive know-how concerning roll forming procedures, and our ability to provide complete process integration. More than 2,000 units from DREISTERN are in use, producing more than 10,000 different profiles, more than 40 patents have already been applied for.

## We work for companies from these sectors, among others

- Automotive & transport
- Electrical industry
- Construction industry
- Storage & logistics
- Furniture industry
- Roll forming plants

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### ROLL FORMING 4.0 IS A REALITY

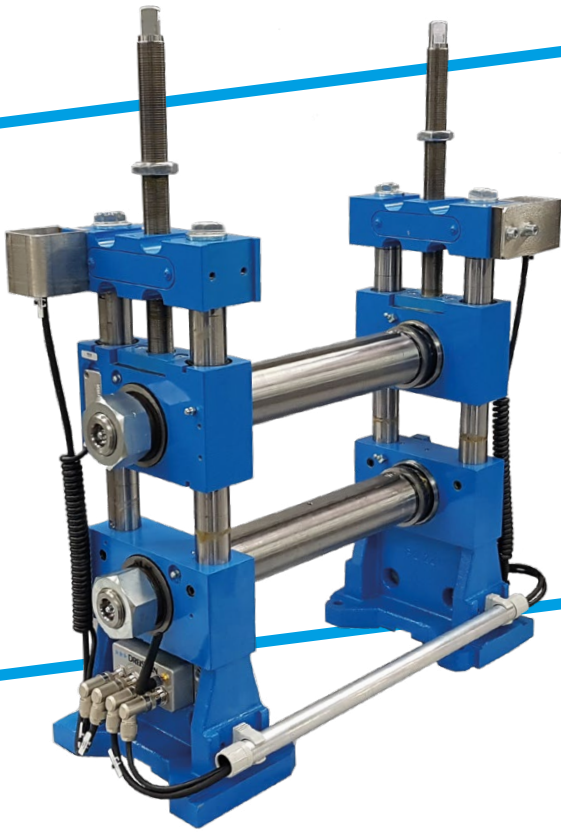
For DREISTERN Industry 4.0 is already a reality. We call it Roll Forming 4.0 and regard it as the future! The task which continually challenges us, and which drives our day-to-day work, is the development of intelligent and market-beneficial roll forming processes based on our decades of know-how and the available current and future digital options.

### EARLY DETECTION OF FAULTS

Continuous and automated quality and productivity testing ensures that faults are promptly detected so that necessary remedial actions can be implemented. Any tolerance deviations are reported and, where necessary, corrected.

### MAXIMUM AVAILABILITY

The trend towards shorter product lifecycles and smaller production batches requires more frequent product changes. Maximum availability of the roll forming machine together with a minimum scrap rate remain, alongside the functionality of the system and the quality of the sections produced, the decisive factors in profitable production.



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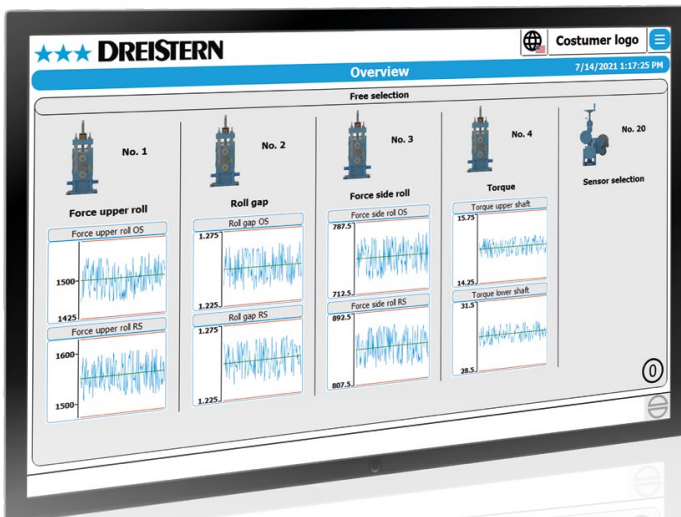
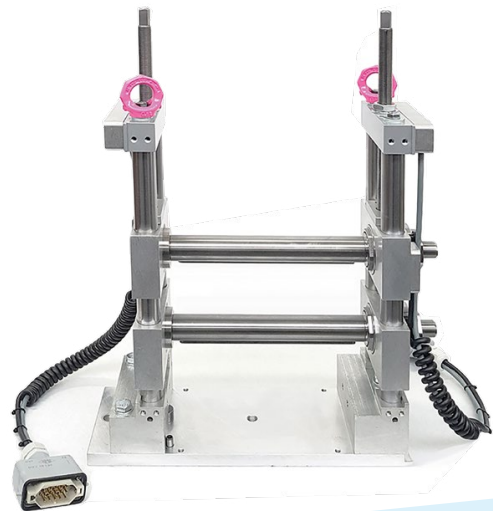
**DEVELOPING IDEAS AND TURNING THEM INTO REALITY**

- With the aid of an adaptive system, intelligent stands automatically adjust themselves so that the desired section can be reliably reproduced within the shortest of periods and in spite of multiple product changes.
- The aim is 100% acceptable parts thanks to automatic self-correction of the forming process.
- The forces required for the forming process are controlled so that the desired geometry and dimensional stability of the product is achieved. In all cases, just that force is applied which is needed to obtain the optimum result. In this way, not only is product quality increased, but also energy efficiency because the energy requirement is lower, as too is the wear (a bonus side-effect).
- Preventative maintenance in the form of predictive spare parts procurement, as indicated by the system, helps to avoid unnecessary downtimes and reduce maintenance costs.

**ASSISTANCE SYSTEMS**

The overriding goal is to improve the control over the forming processes through the use of the latest and specifically integrated sensor technology in production and the data obtained from this. These measured values help in a decisive way to develop and implement helpful assistance systems.

Such an assistance system compares, for example, the pattern of potential deviations involving individual sensor signals with the patterns of previous errors. In this way, plant operators receive solution proposals that have contributed to bug-fix similar faults in the past. This makes it possible to convert the experience of individual plant operators into transferable knowledge. If there is no applicable error pattern in the database, the current solution can be entered and saved for future production runs.



**Benefit from our roll forming expertise**

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