Creating a solution concept
With its ClipX concept, Phoenix Contact takes all relevant company processes in control cabinet manufacturing into account and analyses them accordingly. The solution concept is based on proven core technologies and broad expertise in the engineering, IT integration, production, and logistics environment.

Implementation
The optimal solutions are determined by taking into account the jointly developed requirements and implemented with the required degree of automation.

1. Manual processes integrate human beings into the process and offer optimal support for managing increasingly complex tasks. These systems are most often used for small to medium quantities with a high degree of variance.

2. Semi-automated systems combine the strengths of man and machine. The symbiosis of automated and manual processes as well as the integration of collaborative systems is ideal for medium to large volumes.

3. Automated systems are available for the efficient assembly and marking of assembled DIN rails. They are used for medium to large quantities with a high degree of variance.

We offer you
• Observation of the entire value chain and analysis using modern methods
• Joint development of a customer-specific, innovative, and sustainable concept for front offices that take into account and include training for all parties involved
• Sound process knowledge, thanks to a high level of vertical integration and in-house machine building
Automated assembly of DIN rails

The ClipX.Loader assembly system automatically assembles DIN rails with snap-on components.

- Processing of NS 35/15 and NS 35/7.5 DIN rails with a length of 150...800 mm
- Snap-on components with individual contours and sizes
- Increased assembly speed, thanks to Rail-to-Product technology
- Up to 10 magazines per rack drawer
- Packaging designed for automation allows for easy filling

Quick and precise marking of components with laser technology

The ClipX.Marker system marks completely assembled DIN rails fully automatically using laser technology.

- Processing of NS 35/15 and NS 35/7.5 DIN rails with a length of 150...800 mm
- High-quality marking, thanks to a proven material and process combination
- High-speed marking and a great deal of precision, thanks to the integrated Turn-Move system
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Contour-sensitive snapping on of components

High-contrast marking, thanks to laser technology

ClipX.Marker for fast, precise marking of assembled DIN rails

Discover the extensive COMPLETE line product range and find out more about COMPLETE line and the comprehensive solutions for your control cabinet.

Visit our website: phoenixcontact.com/completeline
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Defining requirements
The conflict that exists between growing demands and existing solutions presents the control cabinet manufacturing industry with unique challenges:
• Ever shorter delivery times and increasing competitive pressure demand error-free manufacturing processes
• Existing methods and processes limit growth and further development

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Optimized IT processes
Application-specific automation
Shop floor management for control cabinet manufacturing

Optimized data quality and availability
“Data as a key”

Lean engineering
Efficient and customized processes

Lean manufacturing
Phased line manufacturing

IT integration
The right information in the right place at the right time

Process automation
Manufacturing automation

Logistics
Workshop-oriented manufacturing

Degree of automation

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Defining requirements

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• Sizing methods and processes limit growth and further development

Weber – Process innovations for control cabinet manufacturing
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