

“Smart Cabinet Building” initiative reflects the perfect combination

Moving seamlessly from the digital twin to the fitted mounting plate

The companies Weidmüller, Komax, Zuken and Armbruster Engineering founded the “Smart Cabinet Building” initiative two years ago. Since last November, nVent Hoffman / Steinhauer GmbH has supported the initiative as an established provider of automation solutions for housing modification. The aim of the initiative is to provide integrated solutions for current and future challenges faced in the area of panel building by networking technology and expertise across all process steps, from engineering to wiring.

The partners involved in the initiative offer comprehensive solutions to panel builders in a time of quickly changing customer requirements, high cost and pricing pressures, and narrow deadlines, so that panels can be produced more quickly, flexibly, and economically. The partners explain how they do so in detail based on a comprehensive production process. In line with the motto of “From digital to physical”, the digital twin is specified first, before the data is used for automated and assisted production.

The design in E3.series from Zuken serves as the basis for the digital twin. Then mechanical machining of the housing is carried out using the Modcenter from nVent Hoffman / Steinhauer. The Weidmüller solutions RailAssembler and RailLaser are used for automated fitting and marking of the terminal strips. To do so, data is transmitted to the Weidmüller Configurator from E3 using an automatic interface. Workers are guided by a work station system from partner Armbruster Engineering while installing accessory parts like cross-connectors.

Automated cable assembly is carried out using the Omega by Komax, which also handles pre-wiring. All components are then assembled at an assisted work station for mounting plate fitting from Armbruster Engineering. Project-specific conductors are assembled using the Wire Processing Center by Weidmüller, and the worker is guided in wiring by the E3.WiringCockpit from Zuken. Overall, using the individual solutions can save from 50 to 90 percent of the time for each process step, compared to conventional work steps.

The partners have already been able to achieve these savings in numerous joint customer projects. Customers appreciate the “complete competence” that “Smart Cabinet Building” offers. View more information and news, along with the “Smart Cabinet Building” initiative’s complete range of services at: www.smart-cabinet-building.com.

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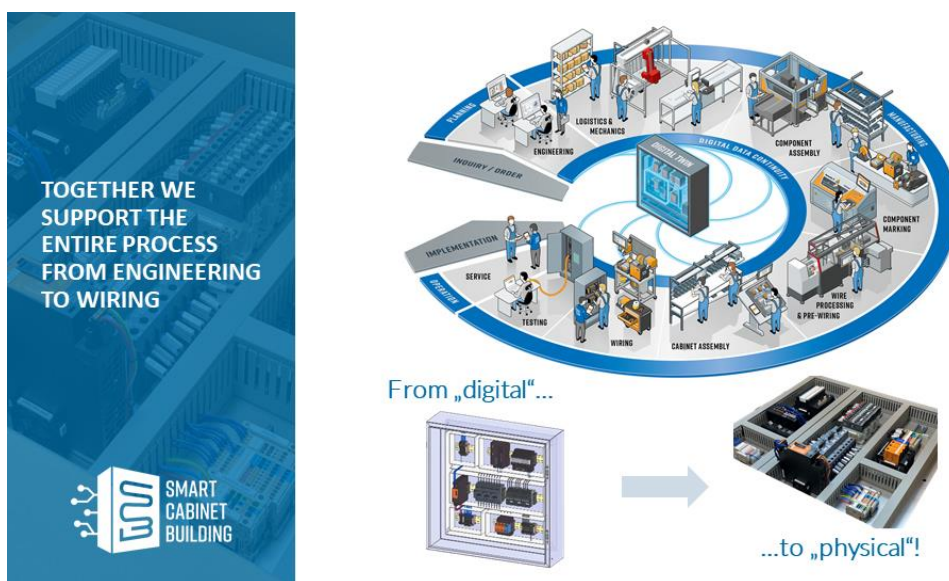


Image caption 1: From component selection to the pre-assembly of cable sets, equipment and housings, to assisted final assembly and testing prior to commissioning, partners cover a full range of services



INTERPLAY OF THE SOLUTIONS

using the example of our common use case

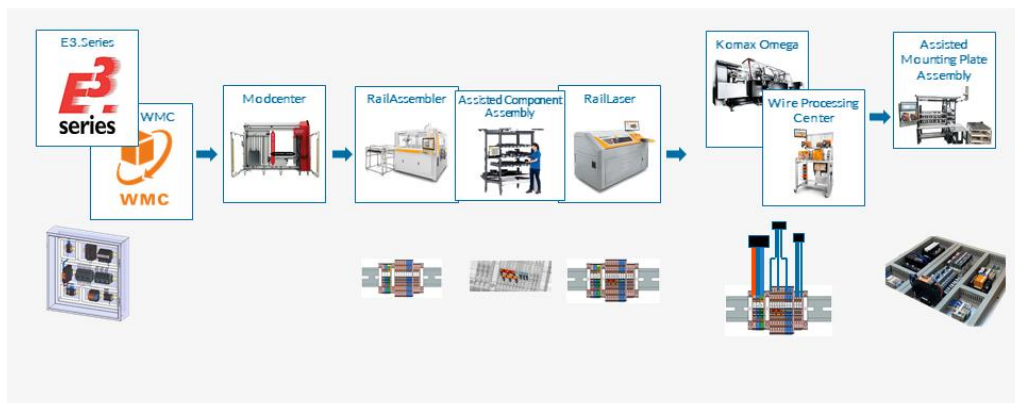


Image caption 2: The combination of solutions

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The Weidmüller Group has production facilities, marketing companies and representative offices in more than 80 countries. Together with our customers, we shape the digital transformation – with products, solutions and services for Smart Industrial Connectivity and the Industrial Internet of Things. In the fiscal year of 2021, Weidmüller reached sales of 960 million euros with around 5,300 employees.

Your contact person:

Weidmüller Corporate Communications

Tel.: +49 5231 14-292322

Email: presse@weidmueller.com

Responsible for the content:

Company spokesperson Sybille Hilker