WestRock relies on model-based engineering and Bosch Rexroth

New packaging line in record time

For the development of its customized packaging line, the American packaging manufacturer WestRock relies on model-based engineering and the combined know-how from Bosch Rexroth and Dassault Systèmes. Thus, the company could shorten the entire development time from design to commissioning drastically.

To guarantee a consistently digital engineering, all design data, beginning with the first CAD click, flows into the simulation software 3DEXPERIENCE from Dassault Systèmes. Even before the first machine modules are installed, the engineers can check and optimize all machine movements, program the control and virtually put it into operation via 3DEXPERIENCE. Subsequently, they directly use the knowledge gained here in the engineering environment IndraWorks from Rexroth.

Consistently digital workflow
How it works? With Open Core Engineering from Bosch Rexroth. The software solution connects the virtual simulation with the real machine world, whereby the control can interpret data and commands from the simulation and convert them correctly. When the machine is put into operation at the customer's site, the engineers only need to start it – more optimizations are thus needless. In this way, WestRock not only reduces the development time significantly, but also the production costs.

Even in daily operation, the packaging manufacturer benefits from model-based engineering. The virtual image of a packaging line can be used seamlessly for the work preparation. There, the production processes are simulated and calculated in advance with the help of existing data. As soon as the customer releases the order, a few clicks are enough and the production can start. This consistently digital workflow is so far unique.

Challenge
Quick implementation of customized packaging lines.

Solution
Open Core Engineering connects virtual simulation with real machine world.

Result
„Due to the model-based engineering with Rexroth components and the 3DEXPERIENCE platform from Dassault Systèmes, we reduced our development time drastically."
Philippe Duperray, WestRock

Solved with
▶ Open Core Engineering
▶ Motion Logic-System IndraMotion MLC
▶ Cabinet-free servo drives IndraDrive Mi