



Putzmeister uses SimulationX for the design of the highpressure concrete pumps that build Dubais' Skyscrapers

Founded in 1958, Putzmeister has developed into one of the leading global providers of concrete pumps, tunnel machines, industrial pumps, mortar machines and professional high-pressure cleaners.

From Aichtal, Germany, Putzmeister produces and controls a group of more than 40 production locations and branches around the world, employing more than 3,500 people. Beyond simply manufacturing the products, Putzmeister provides its customers with competent advice, specific solutions and first class service.

simulationx



»SimulationX helps us design detailed models of spacecraft components that can be used in other applications through FMI.«

Thomas Meschede, Berlin University of Technology,
Faculty of Mechanical Engineering and Transport Systems

Challenge

Calculate Dynamic Effects

In-house engineers looked for a powerful simulation tool to calculate dynamic effects e.g. the light weight construction of soft and long distribution masts in connection to hydraulics. To design, test and optimize hydraulic controls of concrete pumps, the new software needed to have real-time HiL capabilities.

Solution

SimulationX Professional Edition

For the design of complete concrete pumps as kinematic systems including dynamic effects engineers use the SimulationX toolbox for modeling, simulating and analyzing 1D to 3D mechanics, hydraulics, and control sub-systems including real-time HiL applications.

Benefits

Optimization at Early Stage

Putzmeisters' engineers speed-up modeling and simulation processes by using the SimulationX system simulation approach. They easily conduct concept studies for kinematics by considering dynamic characteristics in order to quickly find out whether or not newly-developed kinematic principles work.