



Reference name:	Concert platform LUCIE
Supplier:	ELVAC a.s.
Customer:	Bosch Rexroth, spol.s r.o.
Market segment:	Theater equipment
Year of implementation:	2014

Introductory text:

The company ELVAC a.s. was approached by Bosch Rexroth, spol. s r.o. to design a solution and completely implement the control of concert retractable equipment for the LUCIE 2014 tour.

Application description:

The technology we controlled included a special retractable platform, which immediately brought the foursome Koller, Kodým, Dvořák, P.B.Ch. to the stage at the beginning and brought and took away the string quartet and Michal Dvořák with the piano during the concert. Each of the soloists also had their own retractable platform, which raised them above the stage level during some pieces, including visual effects equipment. However, the greatest effect was the hydraulic retractable arm with a tilting platform for drums, on which David Koller traveled to a height of several meters directly above the heads of the audience at the end of the concert and, thanks to a movable joint, leaned towards the stage.

Products and technologies used:

The entire control system was designed primarily with safety in mind, using the Siemens S7 Safety PLC series 315F. Siemens Sinamics 120G frequency converters. The entire technology was controlled from a control panel with a color touch panel with visualization and a push-button panel, also produced by Siemens. Due to the machine design, we had to design and manufacture an atypical design of switchboards. All connections between the controls of individual parts of the technology were designed to be easily disconnected and not affect safety functions when, due to the technical demands on the parameters of the halls in Slovakia, the stage did not include a retractable arm, which included the main control part.

With the ELVAC a.s. solution, the customer gained the following benefits:

In this project, over 100 thousand visitors to the LUCIE 2014 concert tour in the Czech Republic and Slovakia were satisfied customers, when thanks to this technology they were able to see previously unseen and technically very demanding pieces during the concert.



Photo:



