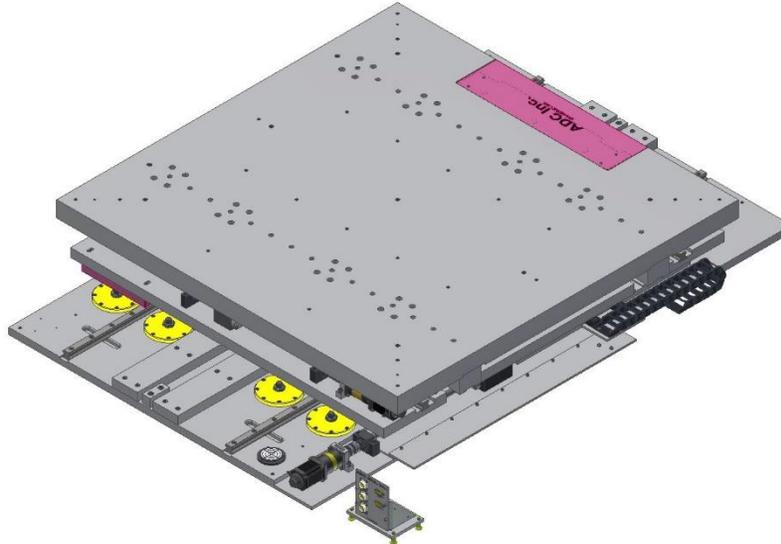


SOLARIS 3-Axis Motorized System



Customer:
National Synchrotron Radiation Center
SOLARIS
Ul. Czerwone Maki 98, 30-392 Krakow Poland



The first Polish synchrotron radiation facility Solaris is being built at the Jagiellonian University III-rd Campus in Kraków. Synchrotron is a unique manmade source of electromagnetic radiation known as synchrotron radiation. This custom high load, high precision 3-Axis Motorized system was designed for SOLARIS Jagiellonian University, Krakow, Poland that allows for vertical axis positioning for a 1500kg load. All three motions are supported on THK rails and driven by a ball screw with a NEMA 23 stepper motor and planetary gearbox. All motions have adjustable limit switches to change the travel within the maximum range. The mechanics allow the three degree of freedom motion of the movable platform work surface. Vertical motion (Z direction) and horizontal transversal motions (Y & X direction) of the platform work surface are controlled and operated by means motorized stages.

