INSERTION DEVICES

CHESS Tapered Undulator

ALLS Planar Undulator

ALBA Synchrotron Wiggler

ADC is well versed in the engineering, modeling, design, fabrication, assembly, and shimming of insertion devices having delivered 5 EPUs, 3 Planers, 3 IVUs, 3 Wigglers, and 1 CPMU turn-key systems. We use RADIA for magnetic modeling and Autodesk Inventor for FEA modeling. ADC implements the customer requirements for peak field at min gap, K value, gap range, beam energy, ppm or hybrid, period, undulator length, photon spectrum and intensity, electron trajectory, phase error, integrated fields, multipoles, and correction coils. We provide magnet sorting and mounting sequence for minimum integrated field. We also provide UHV cleaning, assembly, bake-out, leak check, and RGA for in-vacuum units.

MAX-lab EPU Undulator

PAL In-Vacuum Undulator

ANTSO Wiggler