

Magnetic Measurement System

The ADC magnetic field measurement system is a sophisticated and sensitive machine for the measurement of magnetic fields in undulators (Planar, EPU, and Apple II), wigglers, and in-vacuum ID units. The magnetic fields are measured using 3 axis hall-effect probes, mounted orthogonally to a thin wand. The wand is mounted to a carriage that rides on vacuum air bearings. The base is granite. A flip coil is provided on two vertical towers with X, Y and Theta axes. Special software is provided to assist in homing, movement, and data collection.

Magnetic Field Measurement

Range - .1 Gauss to 2 Tesla in Y and Z, 1.717T in X
 Repeatability - Y average 1st Std Dev - .7 G
 X average 1st Std Dev - .2 G

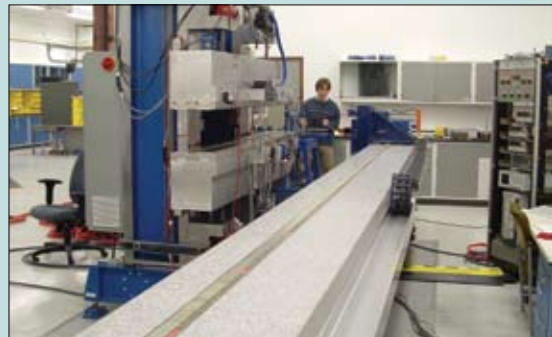
MAX - Lab Four Meter Magnetic Measurement System (Sweden)



PAL - Five Meter Magnetic Measurement System (Korea)



SSRF - Five Meter Magnetic Measurement System (China)



ADC - Seven Meter Magnetic Measurement System (USA)



NLSII - Integrated Field Measurement System (USA)

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www.adc9001.com

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BNL - Cryo-Cooled In-Vacuum (USA)



SRC - Planar (USA)



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ADC USA, Inc. is a hands-on engineering company with over 15 years of experience. We custom design devices, integrated systems and a broad array of high-precision components and instruments for commercial, academic and government agencies worldwide. Our work covers mechanical design, control instrumentation, control software, manufacturing and assembly, and installation and training.

For more information on the above systems or any of our products contact us at:

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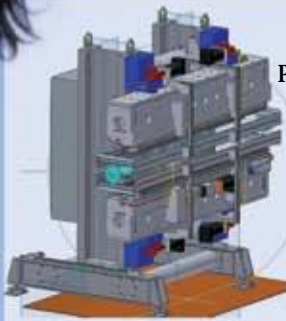
Insertion Devices



Wiggler Undulator ASP - Australia



Elliptical Polarization Undulator MAX-Lab - Sweden



Cryo In-Vacuum Undulator BNL - USA



Planar Undulator SRC - USA



EQUIPMENT with REALIABILITY and DEPENDABILITY

Insertion Devices and Magnetic Measurement Systems

ADC can provide “Turn-Key” Insertion Devices and Magnetic Measurement Systems complete with in-house and customer site training. Please contact ADC to discuss and provide a rough schedule and cost for the following items:

- Wiggler Insertion Device
- Undulator Planar Device
- Elliptical Polarized Undulator (EPU)
- In-Vacuum Undulator (IVU)
- Cryogenic Cooled In-Vacuum Undulator (CPMU)
- In-Vacuum Elliptical Polarized Undulator (EPU)
- Super Conductive Undulator (SUPER MINI)
- Insertion Device Magnetic Measurement System

You can access and download more information/publication on previous Insertion Devices we have delivered by going to: http://www.adc9001.com/products/show_list/id/113.

For more information on ADC's undulators visit our web site at http://www.adc9001.com/products/show_list/id/113

ALBA/CELLS - Wiggler (Spain)



MAX-Lab Planar (Sweden)



MAX-Lab EPU's (Sweden)

SRC - EPU (USA)



PAL - 2 Meter In-Vacuum (Korea)

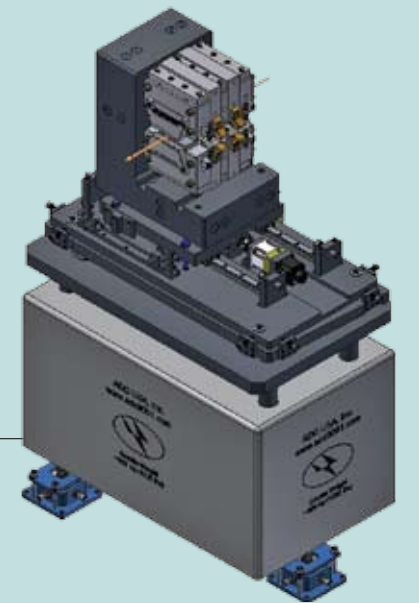
BNL - Cryogenic Cooled In-Vacuum (USA)



Australia Synchrotron Project - Two Meter Wiggler



NSLS II - Three Pole Wiggler (USA)



ADC has designed, built and delivered Insertion Devices and Magnetic Measurement Systems to such facilities as; MAX-Lab (EPU, Planar-2, and Measurement System), ALBA and Australian Synchrotron Project (Wiggler), BNL (Cryo In-Vacuum), SSRF (In-Vacuum – 2, and Measurement System), PAL (In-Vacuum and Measurement System), NSRRC (In-Vacuum), and SRC (Planar and EPU). ADC can provide “Turn-Key” Insertion Devices and Magnetic Measurement Systems complete with in-house and customer site training.

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