

FEATURES

ALAR Direct-Drive Rotary Stage...
Online Training for the Automation 3200
Latest Software Releases
Motion Control and Positioning Library

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TRADESHOWS

IMAPS

San Diego Convention Center
San Diego, CA
Booth 313
October 10-12, 2006
<http://www.imaps2006.org>

ASPE Annual Meeting

Monterey Marriott Hotel & Conference Center
Monterey, CA
Booth 201
October 15-20, 2006
<http://www.aspe.net>

Photonex Exhibition

Stoneleigh Park
Coventry, UK
Stand C40
October 18-19, 2006
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ALAR Direct-Drive Rotary Stage — Heavy Load, Large Aperture, High Speed and Accuracy

Aerotech's ALAR series direct-drive rotary stages provide superior angular positioning and velocity control with exceptionally large apertures. With the combination of a large aperture and direct-drive motor, the ALAR series offers significant performance benefits versus worm-drive large aperture stages.

Now Aerotech's customers can get large aperture rotary stages with zero backlash, and no gear wear or gear vibration as is seen in worm-drive stages. The other added benefit is that direct drive is six- to ten-times faster than worm drive. This higher throughput equates to faster testing, lower cost manufacturing, and higher profits. From the standpoint of system accuracy and repeatability, the stage will maintain its performance over time with no need for maintenance because there are no gears to wear out. With higher accuracy and no backlash, customers can produce more accurate products because their test system is now more accurate.

Applications for the ALAR include single and multiaxis electro-optic sensor testing, missile seeker testing, antenna testing, inertial navigation device testing, photonic component alignment, high-accuracy laser machining, and precision wafer inspection. A 10^{-6} torr vacuum preparation option is available for ALAR series stages. These rotary stages can also be configured as multiaxis gimbals.

For more information on the ALAR, please contact an Aerotech [Application Engineer](#) or download the [data sheet](#) for a complete description,



The ALAR is available with apertures from 100 mm up to 325 mm in diameter, and is rated for loads to over 1000 lb.

ALAR Benefits

- 100 mm, 150 mm, 200 mm, 250 mm, and 325 mm apertures
- Continuous or limited travel
- Axial loads to over 1000 lb
- Low wobble and bearing run out
- Cog free motor provides smooth motion
- No gear backlash
- No accuracy changes over time from gear wear
- 45-300 rpm continuous rotation speed
- Vac 10^{-6} torr compatible versions

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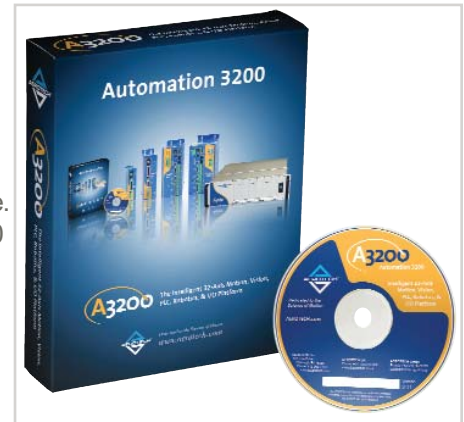
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Online Interactive Training for the Automation 3200 Motion Control Platform

Learn how to get the most from your Automation 3200 motion, vision, PLC, robotics, and I/O controller, right from your very own desk with no travel hassles or the associated expenses! Training is brought to you using the powerful Webex conferencing software. Each training module is priced at \$250 and up to three people may attend. A 10% discount is offered when purchasing three or more modules. Private sessions, with one-on-one instruction, are available.



Automation 3200

Go [HERE](#) for more information.
[CONTACT US](#) to schedule your training or to speak to a Customer Service Representative.

Latest Software Releases

This section lists the latest revisions of Aerotech software, providing a handy method of checking to see that your Aerotech software, and hence your Aerotech system, is working at peak efficiency. All Aerotech software is available for instant download from our website — just click the software title! An entry in **red** means the software has been updated since our last newsletter.

Software	Version	Description
A3200 Digital Automation Platform	Version 2.16	Nmotion® SMC Libraries and Utilities, Ncontrol® Software Developers Kit, Nview® HMI, Windows Help Files
U600 HMI	Version 6.00.136	Windows® HMI
U600 SDK	Version 6.00.136	U600 Software Developers Kit
U600 LIB	Version 6.00.136	Windows® Help File, U600 Libraries and Utilities
U500 PC-Bus-Based Controller	Version 5.22	Windows® HMI and Windows® Help File
U511 Stand-Alone Controller	Version 5.22	Interface Software and Windows® Help File
Soloist Single Axis Controller	Version 2.04	Interface Software and Windows® Help File

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Motion Control and Positioning Library

This resource provides a short summary and a link to articles, tutorials, white papers, and other materials that discuss problems and solutions involving motion control and positioning equipment and systems.

Articles

Precise Triggering of External Events Based on Axis Position

An axis-based trigger in the controller can significantly improve part quality, reduce cycle time, and eliminate processing problems. This article discusses Aerotech's unique PSO (Position Synchronized Output) option, and how any application that requires precise data acquisition or process action linked to axis position can benefit from it. Read the full article [HERE](#).

Laser Machining for Medical Applications

High performance laser machining centers benefit from advances in motion control and positioning technology. Read the full article [HERE](#).

Linear Motors Application Guide

A tutorial guide to the history, design, and application of linear motors. Get the PDF [HERE](#).

Air Bearings Aid Assembly of Flat Panel Displays

Many manufacturing processes for flat panel displays (FPDs) require precision motion control for feature generation and inspection. Aerostatic bearings are an excellent choice for many of these processes because they allow precise, repeatable motion; are clean-room compatible; and are maintenance-free. Read the full article [HERE](#).

Kinematics and Precision Stages Drive Laser Welding

Real-time kinematics coupled with direct-drive positioning systems provide the highest performance solution for laser seam-welding applications. The higher throughput, lower maintenance, and improved part quality available with this approach result in a system with the lowest total cost of ownership. Read the full article [HERE](#).

Applications Dictate Gimbal Selection

The choice between [direct-drive](#) and [gear-driven](#) gimbals and optical mounts presents an opportunity for a comparison of the pros and cons for each. Read the full article [HERE](#).

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Standards Organizations

1394 Trade Association
<http://www.1394ta.org>

ISA, the International Society for Measurement and Control
<http://www.isa.org>

IEC
<http://www.iec.ch>

ISO
<http://www.iso.org>