



# WELCOME TO AJA INTERNATIONAL, INC!

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**AJA INTERNATIONAL, INC.**

AJA International, Inc. (est. 1989) began as a supplier of innovative thin film, vacuum and microwave products. In 1991 the company introduced the first commercial, con-focal, sputter tool with a rotating substrate and magnetron heads which could be tilted without breaking vacuum. This innovation yielded extremely uniform depositions of single layers, multi-layers and alloys and has become the benchmark by which other R&D sputtering systems are measured - the ATC Series Sputtering System.



AJA International, Inc. has continued to develop many highly successful physical vapor deposition (PVD) tools including the compact ATC ORION Series Sputtering Systems, ATC-E and ATC ORION-E Evaporation Systems, the Stiletto Series HV sputter sources, SHQ Series substrate holders with heating, RF biasing, LN2 cooling, indexing, rotation and planetary motion, PHASE II Labview based, "plug and play" computer control systems, the STXL Series of large circular & rectangular magnetrons with modular magnet arrays, the Nautilus Series rotating "modular" magnetrons, automated combinatorial deposition systems, various ATC-B batch coating systems, a UHV downstream microwave oxygen plasma source, & a patented conical target magnetron which is ideal for three dimensional coatings & OLED applications.

AJA International, Inc. continues to discover innovative design solutions which are often copied but never equaled as the company truly remains THE CUTTING EDGE IN THIN FILM TECHNOLOGY.

## HOT NEWS AT AJA INTERNATIONAL, INC.



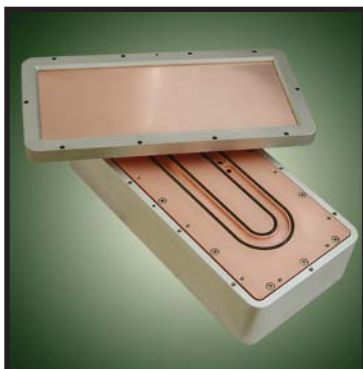
### ATC ORION SERIES SPUTTERING SYSTEMS *Compact, Powerful UHV Tool for PVD*

AJA International, Inc. introduces the highly versatile, compact, ATC ORION Series Sputtering System which inherits many design features from the popular, highly evolved ATC Series Sputtering tools and offer some unique features designed to optimize deposition uniformity. 3, 4 and 5 gun versions have been delivered with load-locks, high temperature substrate heaters and computer control. Economical HV versions are also available.



### HYBRID SYSTEMS *UHV Sputtering & Evaporation*

AJA International Inc. has delivered numerous multi-chamber "HYBRID" physical vapor deposition (PVD) systems. This dual chamber UHV system contains (4) A320-XP 2" sputter sources with in-situ tilt in the sputter chamber and (2) K cells plus (1) 4 pocket e-gun in the evaporation chamber. Each chamber is fitted with an 850° C rotating substrate heater. A single load-lock introduces the substrate and magnetic arms transfer it between chambers.



### STXL SERIES *Large Magnetron Sputtering Sources*

AJA International, Inc. introduces the STXL Series of large magnetron sputter sources with a versatile modular magnet system. Circular target models range from 6" – 12" diameter. Rectangular versions in 3", 4" or 6" widths are offered up to 40" long. Both internal mount (via flex hose or solid tube) and external flange mount designs are available. High strength rare earth magnets are located outside the cooling water and are easily accessed for magnet modification. Sources can accommodate target materials bonded to a backing plate or one piece targets. Backing plates are directly water cooled for maximum cooling efficiency. 7/16 DIN coaxial cable powered DC sources and RF versions with close coupled matchboxes are offered for high power.

## PRODUCT OVERVIEW

### SPUTTER SOURCES / SPUTTERING SYSTEMS / PVD EQUIPMENT:

AJA manufactures ATC and ATC ORION magnetron sputtering systems; PVDX e-beam / thermal / sputter multi-technique deposition systems; A300-XP, A3CV, Stiletto and Nautilus magnetron sputter sources; peripheral equipment for substrate heating, cooling, RF biasing and motion. Sputtering systems are configured primarily for R&D and pilot production with either UHV or HV construction. AJA International, Inc. also manufactures a wide range of magnetron sputter sources for R&D and production applications ranging in target size from 1" to 40" and up to 12" ID cylindrical. Nautilus Series rotating magnetron sputtering sources are designed for production coating tools. AJA also offers sputter targets, PVD materials, and RF / DC power supplies and switchboxes for sputter deposition.

### MICROWAVE:

AJA International, Inc. is the exclusive US distributor for Sairem microwave generators, power supplies, tuners, circulators, dummy loads, waveguide components, power splitters and microwave detectors. With extensive experience, the AJA / Sairem combination will find a cost effective solution to your microwave application requirement.

## COMPANY PHILOSOPHY AND RESPONSIBILITY



Company Headquarters, North Scituate, MA, USA  
Located one mile from the Atlantic Coast

It has always been the primary philosophy of AJA to expand conservatively, manufacturing and representing products of exceptional value, while relying on customer satisfaction and technical excellence as our primary promotional vehicles. The company chooses its projects carefully in order to maintain its reputation and financial stability.

Our first responsibility will always be to our customers, since without our customers we are nothing. The interaction between AJA personnel and their customers must be a positive, professional and efficient experience. Anyone calling AJA International, Inc. will always speak to a person and will never be routed through the impersonal frustration of an automated answering system. At AJA, we consider your time as valuable as our own.

To all of our customers, thank you for your continued support.

A handwritten signature in black ink, appearing to read "William Hale".

William Hale  
President

[www.ajaint.com](http://www.ajaint.com)

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