



## OPTIMIZE YOUR PROCESS WITH A COLLABORATION PARTNER

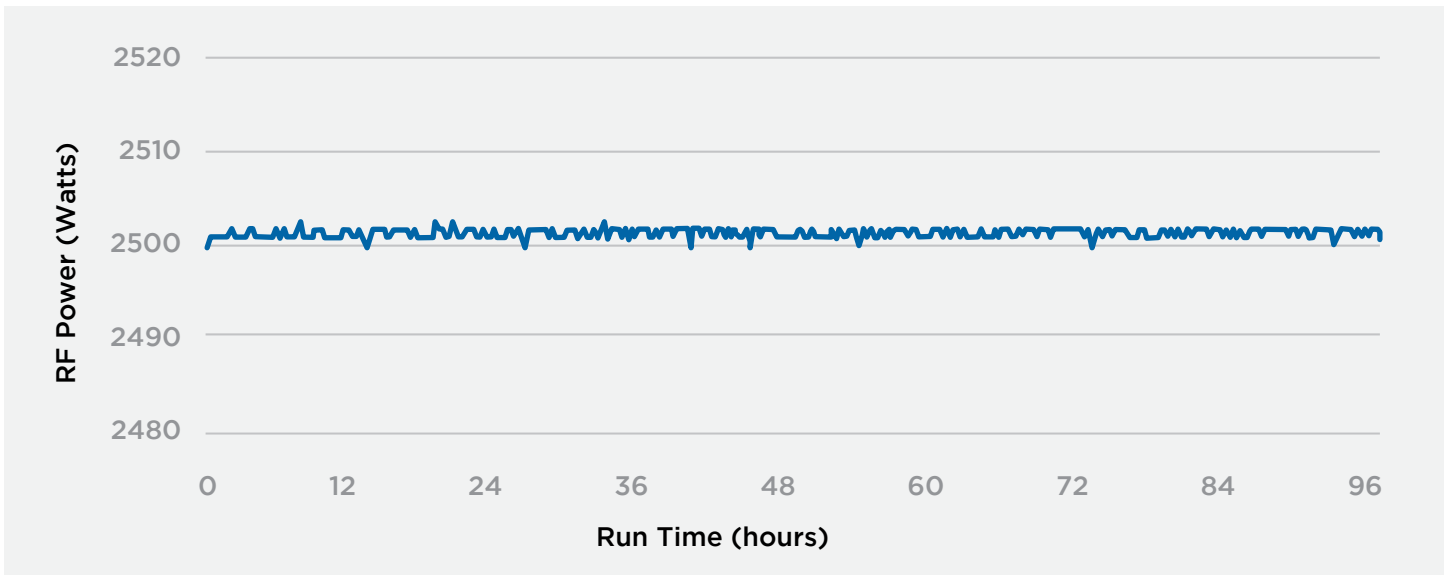
We are the only supplier big enough to offer standard platforms and proprietary subsystems, yet small enough to offer solutions customized to your needs.

Handing a list of parts to an integrator may result in functional hardware that works for R&D, but it's not a good strategy for key process steps, especially in high volume production. **You need a solutions provider who will understand your business**, provide insight on market trends, and develop an application-specific configuration. You should be able to **leverage the experience of your vendor**, who has a deep history with the tools and has solved similar challenges for other companies.

At Denton Vacuum, we know what you need: high uptime and availability, predictable and repeatable performance across a wide process window, and robust, scalable, manufacturing-friendly solutions based on real-world production needs.

With a focus on creating manufacturing solutions using evaporation, sputtering, PE-CVD, ion beam deposition and more, we support the evolving needs of the semiconductor, optoelectronics and display, and medical markets. For over 50 years, we've been a pioneer in the thin film industry, **helping engineers solve their product development and production challenges** with high-quality solutions and unparalleled customer service. Our thin film deposition technologies **reliably deliver consistent, repeatable results**.

### ENDEAVOR RF ION SOURCE STABILITY



Denton's proprietary ion source enables stable and reliable production performance

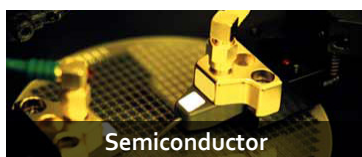


## YOUR PARTNER, NO MATTER THE INDUSTRY

Every industry has dozens of different driving forces at play, whether it's the growth of Internet of Things, consumer demand for smaller and higher-resolution (or touch-sensitive) screens, or concerns for safety and regulations. **We understand how these unique drivers are shaping your market.**

As your partner, we will help you accelerate and perfect your own product development and achieve outstanding operational efficiency and ROI.

**Through our regional support centers, we provide global service and support to keep you up and running.**



## BENEFIT FROM A RANGE OF TECHNOLOGIES

Common applications that we support include precision optics, lift-off & step coverage, dual-sided laser facet coating, indium for wafer-level packaging, diamond-like carbon, metallization and medical coatings.

- E-beam Evaporation
- Magnetron Sputtering
- Thermal Evaporation
- PE-CVD
- Ion Beam Deposition

### A Global Pioneer In Thin Film

More than 50 years ago, we introduced the first commercial chemical optical coatings in North America and developed a reputation for large-area coating and custom engineering. Today, our technology is in use around the world.

Our "firsts" include the development of:

- Durable front surface silver coating for precision optics, telescopes and satellites
- Commercially-available electron beam guns for optical coating
- Vacuum In-Situ Thin Film Color Deposition System and Method for color-coding surgical implants
- Commercially-available high vacuum systems for microscopy
- Magnetron sputtering for biological samples so secondary electrons from the plasma would not damage the sample structure

### About Denton Vacuum

Denton Vacuum empowers the global optics and R&D markets, helping engineers optimize processes and solve production challenges while improving manufacturing yields and gaining efficiency and throughput. Our continued commitment to research and development of thin film technology, including our proprietary integrated diagnostic systems, enables predictable, repeatable performance in a wide process window.

**Interested to learn how a partnership with Denton might help your business? [Contact us today for an expert assessment of your application.](#)**