



Coatings ▶ Commercialization ▶ Collaboration

# coatings

for life-changing results ▶

# ▶ The partner you need to bring new medical devices to market

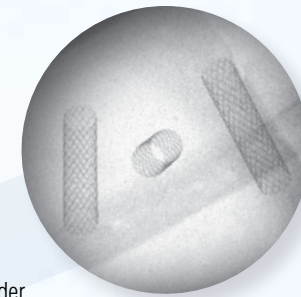
Today there's more competition than ever in the field of medical devices, and the right partners can provide a true competitive advantage. That's why design engineers and manufacturers look to us for expertise in solving their toughest coating challenges as they develop life-changing products.

The Isoflux Biomed team is an accomplished group of specialists who hold numerous patents in surface engineering technology. With decades of combined experience in the development of coating processes and equipment, we deliver the surface functionality you need to bring your device to market—so you can offer your customers the reliable outcomes they demand.

Isoflux Biomed is a division of Isoflux Incorporated, a world leader in commercializing innovative surface engineering technology. We develop customized, inorganic coatings and plasma surface treatments for a wide variety of medical devices, and our proprietary equipment and processes are attracting the attention of leading innovators in this fast-growing field.

## VisTa® tantalum radiopaque coatings to dramatically improve visualization

Our proprietary VisTa coating process produces a unique, nanoporous, columnar coating structure that's strongly adherent and extremely flexible. Because the entire surface of the medical device is coated with VisTa, it's completely visible under fluoroscopy—to help doctors easily see both proper position and orientation during critical procedures. VisTa offers a clear advantage over radiopaque markers, delivering greater accuracy that can result in faster, easier procedures for doctors and patients alike.



## ▶ coatings Polymer-free drug delivery platforms for better long-term outcomes

Isoflux Biomed's inorganic coatings offer a unique approach to drug delivery. Our porous, columnar coating structures are perfectly suited to hold and deliver a wide range of bioactive agents. Even better, drugs can be loaded directly into the coated surface without the use of polymer carriers. By taking advantage of secondary control layers, we can help you design elution profiles for short- or long-term applications.

## Custom inorganic surfaces for a wide range of medical devices

At Isoflux Biomed, we specialize in developing coatings and surface treatments that meet precise specifications and functionality. Our experience encompasses work with start-ups and industry leaders, with applications ranging from radiopaque coatings on stents and low-impedance coatings for pacemaker electrodes to wear-resistant coatings for surgical instruments. The materials we work with are equally diverse: gold, platinum, tantalum, chrome, aluminum oxide and titanium oxide, among others. The solutions we deliver are as unique as the needs of our clients.

## Plasma surface modification to meet exacting specifications

When you want to promote adhesion, clean surfaces, increase hydrophilicity or otherwise modify surface functionality, plasma surface treatment is often the answer. Using our proprietary technology, we produce dense, highly concentrated plasmas for the most challenging surface treatments. We can also design plasma modification systems to treat parts in-line, for high-throughput manufacturing.

## ▶ commercialization

### Cylindrical magnetron coating systems that surround the most complex shapes

Isoflux Biomed pioneered its cylindrical magnetron coating equipment to uniformly coat devices in high-speed manufacturing environments. Our patented hollow cylinder cathode consistently positions all of the parts in an area of high, even ionization density, so that the coating material completely surrounds the product. This delivers faster, more uniform inorganic coatings than other systems for even the most complex device shapes. In addition, we collaborate with leading systems integrators to bring this technology into a complete manufacturing program at your facility. This gives you a true go-to-market advantage.

### Surface engineering and manufacturing experience to bring your product to life

Isoflux Biomed offers you a unique combination of skills, from the lab all the way to manufacturing. In addition to developing efficient, customized coating processes, we help our clients design and build the manufacturing equipment they need to coat their products in full-scale production. Our experience provides you with a real edge in getting your devices into the marketplace—better, faster and at less cost.



# ▶ collaboration

## A company that works as an extension of your business

Isoflux Biomed enters into a true collaboration with each of our clients. Whether you want to conduct basic R&D or gear up for manufacturing, rely on us to work as members of your team. We're committed to sharing knowledge and solving problems that meet your specific design characteristics.

We also understand the critical importance of time to market—which means we won't make empty promises. You can count on Isoflux Biomed's business mindset to help you make practical, data-driven decisions about the feasibility of surface engineering for your product. With our expertise in materials, coating technology and scalability, you'll know up front what it will take to bring your product to market.

Our unique knowledge in the application of inorganic coatings to medical devices and components has allowed us to improve the performance of our clients' products. Look to Isoflux Biomed for the innovation and reliable outcomes you need for your next breakthrough device.





# ▶ the go-to company for your biggest coating challenges

- Patented technology
- Customized inorganic coatings
- Nanostructured textured surfaces
- Versatile surface treatments
- Proven coating equipment
- Technical knowledge
- Manufacturing expertise
- True collaboration

**Let's create life-changing results  
together**

Together, we can produce better health outcomes for people around the world. Tell us how we can help you create medical devices that lead today's market. We can offer you a variety of business arrangements, from licensing, to equipment sales and training, right through to full-scale outsourced production.

To find out how your company can benefit from our unique coating technology, please contact us at Isoflux Biomed.

**contact us today**

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To learn more, visit: **IsofluxBiomed.com** ▶



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