Dedicated to your unique medical coating requirements and specifications.

Hydromer Coating Services

- FDA GMP/ISO 13485
- Custom Coating Machines
- Custom Coating Formulations
- Polymer Synthesis
- Joint R&D Projects
- Coating of Lumens and O.D.’s
- Coatings up to 450cm
- Friction Testing machines
- Microbiology Lab
- Drug eluting & non-eluting
- No project too small
- Will coat any surface
- Your Coating or Hydromer’s!
A well established analytical and synthesis lab allows for custom product development and applications.

Our microbiology lab is an adjunct to our development ascertaining biological behavior of our materials for safety and performance.

**Major Analytical Capabilities:**
- UV/Visible Spectroscopy
- HPLC
- GC/Mass Spec
- Fourier Transformed IR
- Wet Chemistry
- Rheology
- Coefficient of Friction
- Goniometer
- Wettability
- Contact Angle
- Cytotoxicity
- Fluorescent Microscopy
- Endotoxicity
- Zone of Inhibition
- Minimum Inhibiting Concentration
- In Vitro Antimicrobial Testing
Custom Coating Machine: Design, Building & Validation

We have been custom designing, fabricating and validating Hydromer coating equipment for over 30 years. Our designs are specific to the coating process and the unique product requirements of each of our licensees. Sophistication can vary depending on our clients’ needs and ranges from operator assisted fixtures to computer controlled automated coating equipment.

Our Machine building experience has ranged from:
- Dip coating machines with in-line thermal curing
- Vertical and horizontal guidewire coating to 450 cm
- Target coating complicated molded medical devices
- Automated target spray coating equipment
- Multilayer applications of drug impregnated coatings
- Complicated micro-catheters with micro-balloons
- Metallic Cardiovascular and esophageal stents
- Silicone and Latex balloon catheters
- High Output IOL Delivery Device coating

In-house machine design and construction department will assist with International installations, technical support and upgrades for licensees. Will modify clients’ existing equipment if feasible.

Lumen only coating machine for biliary stents.
Polymer Processing at Hydromer

As a manufacturer of coating solutions for diverse applications, Hydromer is equipped to handle a wide range of products. Hydromer produces products from solvent and aqueous based medical coatings to aqueous based products for animal health and cosmetic industries, which must conform to strict standards for bacterial contamination, as well as solvent and aqueous based anti-fog coatings. Hydromer manufactures these coatings in climate and humidity controlled mixing rooms. Hydromer manufacturing currently can accommodate batch sizes from one gallon to hundreds of gallons. All raw materials and finished products undergo extensive testing by a dedicated quality assurance team to insure that both the materials used and the products made are of the highest quality. Hydromer is equipped to ship both hazardous and non-hazardous product all over the world, in containers sized from 1 liter to 55 gallons.

Our solvent-based products are manufactured in a special environmentally controlled room, customized to accommodate all required safety procedures. Small experimental batches are synthesized in laboratory reactors.

All water-bourne polymer systems are manufactured in a special area with extensive bacteria and humidity control.
Web Coating, Tubing Inside & Outside – Guidewires

Prototype manufacturing equipment for web coating, tube coating (internal/external) injection molding, extrusion, etc., provides additional service functions for custom work including film coating of hydrogels and eye patch/face mask prototyping.

Specialty setup coating machine constructed in-house for coating guidewires and thin catheters.

Continuous coating machine for catheters designed in-house.
Production Start-up

We provide our clients with complete production start-up facilities, custom designed for their product end use. GMP and ISO certified facilities house the client specific manufacturing equipment. A complete service provides custom designed equipment, all SOP’s and QA procedures, including validation. Facilities are capable of producing finished, coated devices, in significant numbers, enough for clinical tests and/or market introduction. The client has the option to acquire the entire line at any given time.
Complete Q/A Facilities

Hydromer’s Quality Assurance Group evaluates incoming raw materials, and finished products utilizing the latest industry tools and technologies.

Biosearch Medical Products, a subsidiary of Hydromer Inc., is a FDA registered manufacturer with an ISO certified (13485:2003) quality system which provides total quality services for the medical and coating applications part of the business.

The Quality Assurance Groups have been designed and equipped to facilitate the efficient evaluation of hundreds of raw materials, and finished products in accordance with formal procedures. All measurement equipment is calibrated and maintained in accordance with formal standards.

Quality Assurance is an integral part of the overall efforts of Hydromer, Inc., to implement its policy of designing, manufacturing and selling products and services which are of the highest quality to serve the needs of the medical, cosmetic and specialty chemical communities.
Prototype MFG/GMP – ISO-13485 Certified

Hydromer via Biosearch Medical Products, Inc. subsidiary has the resources and know how to provide our clients with 40 years of medical Device development, prototyping and manufacturing experience.

Manufacturing Capabilities:
- Full extrusion, assembly and packaging available on site
- Devices can be delivered in bulk or packaged and sterile with client labeling
- FDA registered Medical Device Company with ISO-13485 certification
- On-site machine shop to construct most production equipment
- Hydromer hydrophilic coating of medical devices.
- OEM devices are available for some Biosearch devices
- Ability to assist with CE marking of new devices manufactured at Biosearch

We can help make your ideas become reality