

Focus Areas

Platforms

Accelerators

Services

About

Harnessing the Power of Gas

- **Gas-Powered Medical Solutions**
- **Therapeutic Gas Delivery Solutions**

Creator of the
Pico-Cylinder

Altaviz is the world's foremost expert in medical-grade compressed gas cylinders, and how this breakthrough technology is empowering and enabling the evolution of next-gen drug and therapy delivery.



altaviz.com

Innovation

After decades of limited options to power drug delivery devices, the next generation has arrived.

Medical-grade compressed gas cylinders represent the next innovation in drug delivery device power sources. This ground-breaking technology and expansive field of application offers a new realm of injection platform capability and flexibility.

Focus Areas

Revolutionary design-thinking to drive Innovation and bring novel surgical solutions into the world.



- Creative Problem Solving
- Innovative Product Design
- Excellence in Hand-Held Device Design for Usability & Performance
- Console Design for Retina or Cataract Procedures; Including, Console Submodules & Consumable Accessories
- Expansive Engineering Services for Full Life-Cycle
- 510(K), PMA, CE Mark Approvals
- Manufacturing Development & Execution



- Gas-Powered Alternatives Surpassing Existing Spring-Driven Systems
- Creative Problem Solving
- Innovative Product Design
- Excellence in Hand-Held Device Design for Usability & Performance
- Expansive Engineering Services for Full Life-Cycle
- Developing Efficiencies for Medical Device Manufacturing



- Gas-Powered Alternatives Surpassing Existing Spring-Driven Systems
- Mechanical Drive Systems Delivering High Forces & Controlled Speeds
- Creative Problem Solving
- Innovative Product Design
- Excellence in Hand-Held Device Design for Usability and Performance
- Expansive Engineering Services for Full Life-Cycle



About

Based in Irvine, California, Altaviz is an incredible team of visionaries, product designers and engineers driven to bring impactful medical solutions to market.

Altaviz has developed products for delivering a wide range of drugs and implants including gene therapies, pure gases, mixed gases, intraocular lenses, advanced biologics, and highly viscous silicone oils. Our products are based on platform technologies that have a strong foundation of intellectual property, which we build on by working extensively with surgeons and clinicians both in and out of the operating room and through validating patient use.

We market our products through OEM partnerships and licensing IP agreements with end-use device providers, as well as Contract Engineering services to bring your product ideas to market.

CREATOR OF THE
Pico-Cylinder



An elegant solution powering tomorrow's devices.

Application Accelerators

Innovative, Customizable Building Blocks to Accelerate Your Time to Market

PROPRIETARY ACCELERATORS Altaviz Innovations

Activation System

Dose Monitoring

Gas Delivery

Gas-Powered Drive

Gas-Powered Fluid Drive

Gas Sterility Management

High Purity Implantable Gas

Motion Damping System

Needle Management/Advanced

Needle Protection

On-Demand Motion Control

Position Monitoring

Precision Gas Mixing

Precision Delivery Rate Control

Smart Device Connectivity

CORE ACCELERATORS Industry Standard Components

Adaptable Form Factor

Adaptable Implant Delivery Platform

Compatible with Standard PFS

Dose Verification

Needle Management

Platforms

Innovative, fully integrated systems for immediate use or rapid customization.

AUTO-INJECTOR



- High Viscosity Biologic Delivery
- Subcutaneous Delivery
- High Volume Delivery
- Intramuscular Delivery



Picocyl-Powered

FLUID INJECTOR



- Subretinal / Intravitreal Delivery
- On-Body Injection
- Bone Cements / Tissue Adhesives
- Catheter Balloon Inflation
- Dermal Filler Delivery
- Liquid Atomization (Respiratory, Nasal)



Picocyl-Powered

GAS INJECTOR



- Ophthalmic Tamponades
- Respiratory Therapy
- Ultrasound Contrast Agent



Picocyl-Powered

IMPLANT DELIVERY



- Intraocular Lens Delivery
- Drug Eluting Implant Delivery
- Glaucoma Shunt Delivery
- Surgical Applications



Picocyl-Powered

Our Systems help you get to market faster.

3 FOCUSED AREAS OF Excellence

4 CUSTOMIZABLE Platforms

20 TESTED Accelerators

#1 HARNESSING THE Power of Gas



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Services

From a blank sheet of paper to full product release and everything in between, Altaviz will shorten your development lead time and reduce risk.

CONCEPT DEVELOPMENT

- Ideation / Exploratory
- Feasibility
- Concept Design
- Design Optimization
- End-User Needs
- Rapid Prototyping
- Simulation
- IP Generation

PRODUCT DEVELOPMENT

- Human Factors
- Risk Management
- Design for Manufacturing
- Sterilization
- Packaging
- Verification / Validation
- Design History File / Tech File
- Quality Plan

REGULATORY APPROVALS

- Regulatory Strategy
- Submission: FDA 510(k)
- Submission: FDA PMA
- Submission: CE Mark
- PMA Supplements / Amendments

TECH TRANSFER & MANUFACTURING SCALE-UP

- Supply Chain
- Fixtures
- Production Tooling
- Automation
- Process Development
- Validation
- Quality Assurance

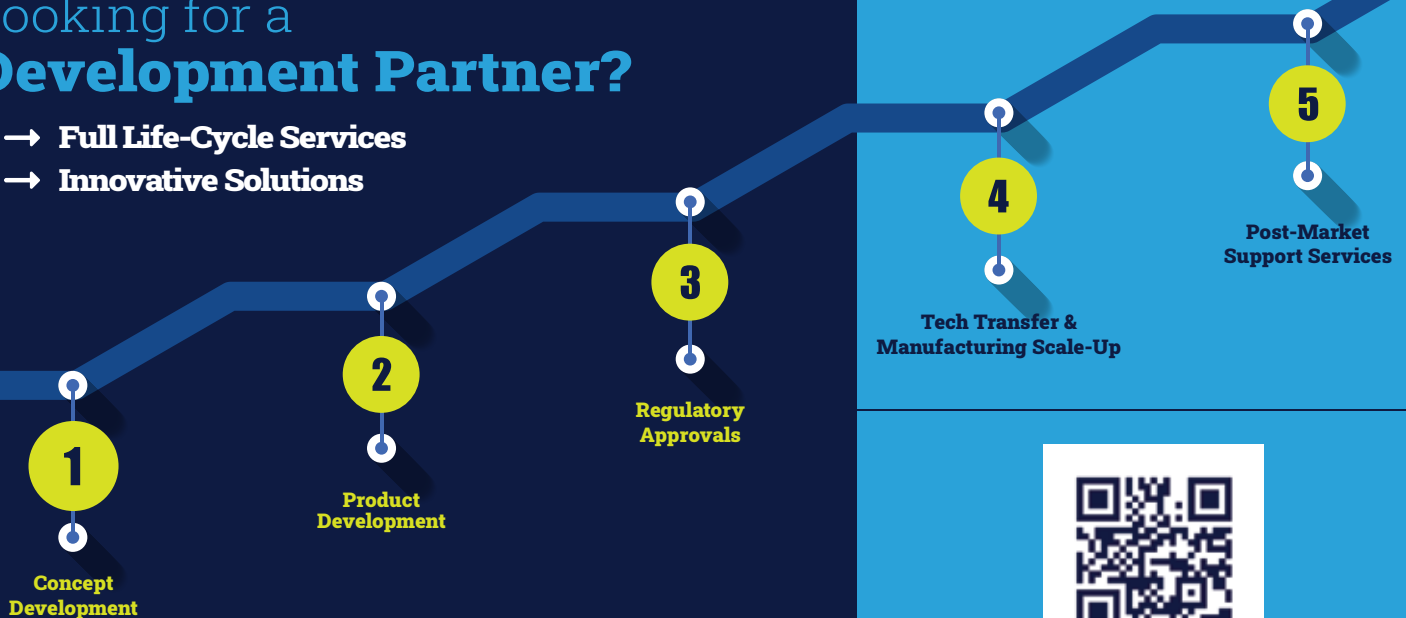
POST MARKET SUPPORT SERVICES

- Sustaining Engineering
- Post-Market Surveillance
- Root-cause Analysis
- Production Support

Innovative Solutions & Services
Creative Problem Solving for Medical Device
and Drug Delivery Challenges

Looking for a Development Partner?

- Full Life-Cycle Services
- Innovative Solutions



COMPANY OVERVIEW
Harnessing the Power of Gas



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