



MARKET LEADER. BEST-IN-CLASS QUALITY.

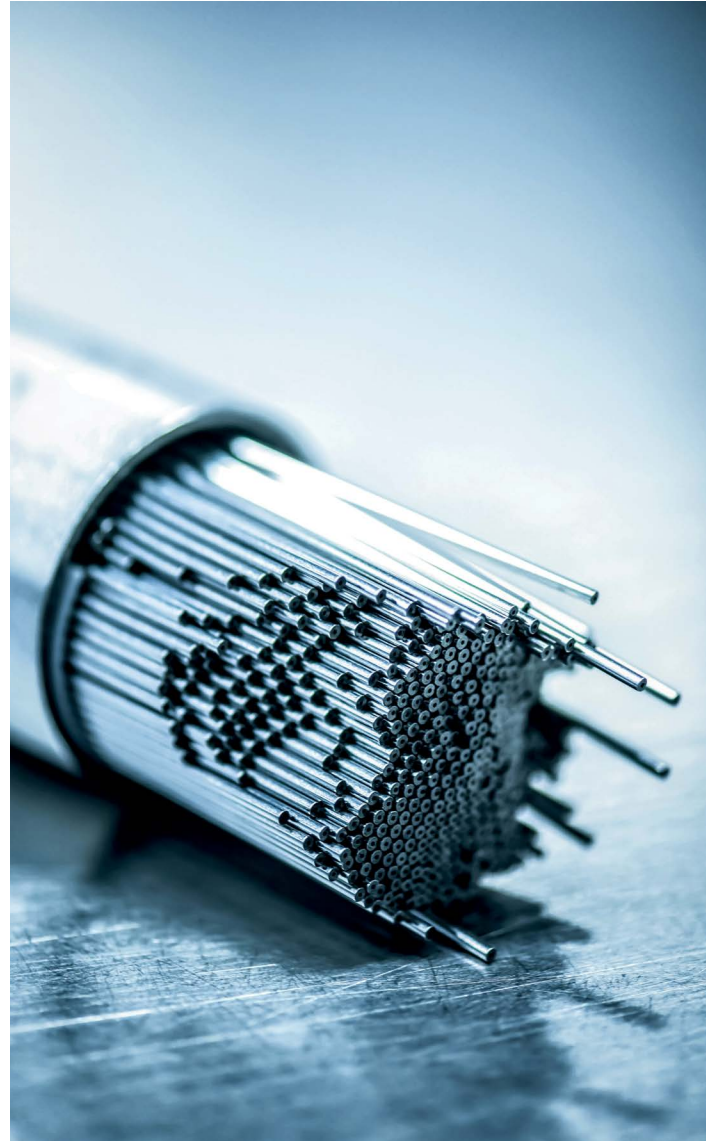
30 times per second, a Viant capillary tube delivers life-enhancing medication to patients around the world. We're in it for life.

Capillary Tubing for Drug Delivery

Capillary tubing relies on capillary action that draws drug up the tube without additional components. The tube plays a critical role in delivering medication such as a slow-moving mist, which contributes to easing the effort to inhale the medication. Precision is key. Even the smallest deviation from spec could compromise the performance of the drug delivery device.

More Than 20 Years of Experience

As the market leader with best-in-class quality, Viant's facility in Aura, Germany, has more than 20 years of experience manufacturing stainless steel (and other alloy) capillary tubes for drug delivery applications.



Vertically Integrated for Full Control

Viant's Aura facility is vertically integrated to fully control the mass production of cut tubes, from tube manufacturing and fabrication to automated cleaning and optical inspection to packaging in a GMP Class D cleanroom (similar to ISO Class 8).



STRIP MATERIAL	TIG-WELDING	RAW MATERIAL Stainless steel tube	TUBE DRAWING	ECM CUTTING	ULTRASONIC CLEANING	MACHINING Turning Drilling	INSPECTION In-process	FINAL ULTRASONIC CLEANING	VISUAL INSPECTION GMP Class D / ISO Class 8
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Precision Is Paramount

With a highly trained staff and unmatched experience manufacturing capillary tubing, Viant delivers best-in-class quality for consistent performance.

Critical Tube Characteristic	How We Deliver
Flawless capillary action	Strict requirements for tolerances, concentricity, roughness, and cleanliness supported by automated process controls and specialized manufacturing processes
Assured tubing quality & function	Burr-free cutting processes and precise control of straightness and inner and outer surfaces to ensure that the tube functions as designed
Accurate fit & assembly	Precise machining and exact tolerances to ensure that tubes can be properly assembled for optimal device performance
Pharma-grade cleanliness	Validated ultrasonic cleaning process with 100% automated, optical inspection and clean room final inspection and packaging to ensure that no residual particles or fragments interfere with the flow of medication or compromise the drug's active ingredients
Suitable for automation	Highly specialized 100% inline and in-process testing to ensure the quality of the tubes and suitability for automated manufacturing processes

About Viant's Facility in Aura, Germany

 **85K** Sq. ft. (2 Buildings)

 **240** Associates

 **GMP** Class D Cleanroom

 **400M** Capillary tubes manufactured

 **0.03 PPM** Defect for best in class quality *

 **>99%** On-time delivery*

* Capillary tubing only

Capillary Tubing Capabilities

INNER DIAMETER (ID) — 0.05 mm to 0.4 mm

OD-TO-WALL RATIO — 2:1 to 77:1

TOLERANCES — +/-0.005 mm range in many dimensional ranges

SURFACES — Scratch-free surface outside and inside