



PRIMEDITECH

Crafted Beyond Precision,
Trusted Where Only the Absolute Matters



Venture for
Tomorrow

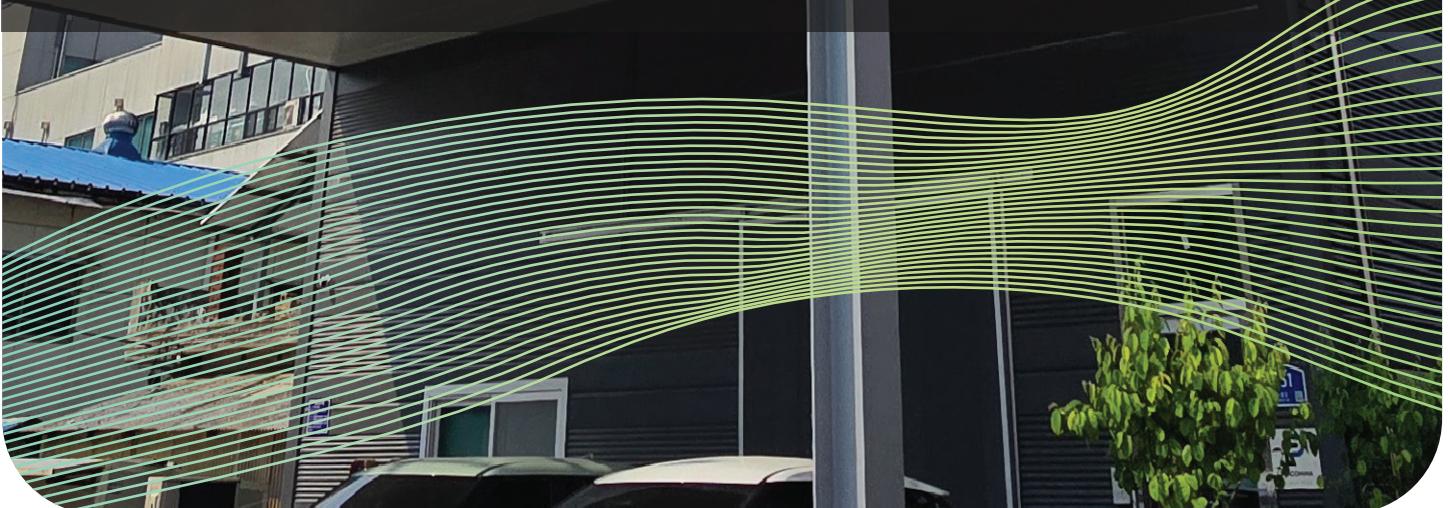
INNOBIZ
Tech Innovative SME

About **Primeditech**

Primeditech is a leading force in Korea's precision engineering industry, trusted by global leaders across the medical, aerospace, and high-end industrial sectors.

With a foundation built on technical expertise and relentless innovation, we specialize in delivering high-precision components that meet the most demanding international standards.

Our team of skilled engineers and state-of-the-art manufacturing capabilities ensure that every part we produce reflects the highest level of quality, reliability, and performance.



Core Values^o



1 Absolute Quality Without Compromise

At Primeditech, quality is non-negotiable. We implement rigorous, comprehensive quality control systems and relentless improvement practices, ensuring zero-defect precision and guaranteeing that each delivered component surpasses the highest global standards.

2 Innovation-Driven Precision Engineering

By integrating cutting-edge technologies with ongoing research and development, Primeditech achieves unmatched precision. Our innovative approach continuously evolves, addressing the ever-changing demands of medical, aerospace, and industrial challenges.

3 Customer-Centric Adaptability

We deeply understand the diverse needs of our global clients. Our adaptive, creative, and flexible mindset ensures tailored precision solutions, significantly enhancing our clients competitiveness while staying closely aligned with their strategic vision.

The Craft of Ultra-Precision Engineering[®]

Precision That Begins Where Others End

- At Primeditech, precision isn't just a metric—it's a mindset deeply rooted in everything we create.
- We specialize in ultra-fine tolerance machining where deviations are measured in microns, and consistency isn't a goal—it's the baseline.
- Every component is manufactured under rigorous quality control systems, traceable processes, and verified repeatability standards.
- Whether it's for life-critical medical implants or structurally sensitive aerospace assemblies, our parts are tailored to meet mission-critical demands with absolute confidence.



From Complex Geometry to Perfect Repeatability

- We excel in producing intricate 3D contours, deep internal channels, and micro-scale features that conventional machining simply cannot replicate. With advanced multi-axis synchronized machining, we handle complex geometries requiring simultaneous milling, turning, and drilling—without compromising stability or surface finish.
- Our processes minimize repositioning, reduce cumulative error, and improve turnaround time, all while maintaining exceptional consistency across batches.



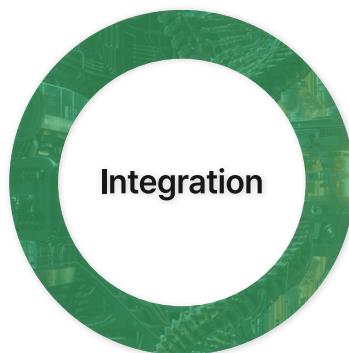
Trusted in Demanding Sectors Beyond Medicine

- In addition to surgical and aerospace applications, our high-precision parts are used in advanced robotics, semiconductor tooling, vacuum optics, and energy systems.
- These industries rely on extreme dimensional stability, burr-free finishes, and ultra-clean surfaces—all of which are standard in our production workflow.



Built for Reliability, Proven in the Field

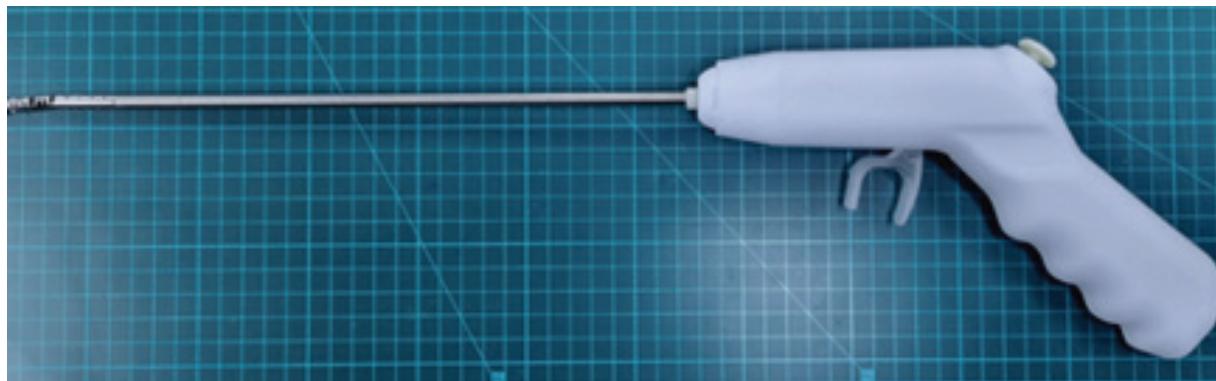
- Every project begins with an understanding of real-world application.
- We work closely with engineers and clinical experts to ensure our parts integrate seamlessly into their systems.
- Our customers return not just for parts—but for trust, built through performance, traceability, and relentless pursuit of zero-defect quality.



Research & Development Initiatives^o

Navigatable Hand-held Device For Narcoscopic & Anthroscopic Surgery

Primeditech is developing a precision Navigatable Hand-held Device to enhance control and accessibility in laparoscopic, arthroscopic, and other minimally invasive surgeries. Leveraging surgical robotics expertise, the device offers advanced articulation for precise navigation in confined spaces.



Its ergonomic design ensures intuitive use and consistent performance while minimizing tissue damage, delivering robotic-level precision in a surgeon-friendly, practical form.



Advisory & Clinical Partnerships

or Primeditech, true innovation means creating medical devices that fit seamlessly into the hands of real surgeons—not just engineers. Every product is developed with one goal: solving practical challenges in the operating room.

Our approach blends technical excellence with surgical intuition, ensuring precision tools that perform flawlessly where it matters most—inside the human body.

- Collaboration with Korea University Guro Hospital, a top-tier medical institution
- Field-driven product development with clinical expert input
- Solutions designed for real surgical environments, not just the lab



Collaboration with Korea University Guro Hospital,
a top-tier medical institution in Korea



Processed products°

Aluminium (AISI 6061 / 7075)



Lightweight and highly machinable aluminium alloys are precisely processed with 5-axis CNC and turn-mill centers, delivering thin-wall aerospace structures, UAV arms, and medical housings with $\pm 0.01\text{mm}$ accuracy.

Inconel (Nickel-based Superalloys, e.g. 718 / 625)



Inconel, renowned for extreme heat and corrosion resistance, is machined with DMG MORI NTX-500 multi-axis technology and high-pressure coolant systems to produce reliable jet engine, turbine, and energy components.

Stainless Steel (AISI 304 / 316, EN 1.4301 / 1.4401)



Globally recognized stainless steels offer durability and hygiene, and PRIMEDITECH applies precision CNC and 5-axis machining to create surgical instruments, pharmaceutical equipment, and high-strength industrial parts.

PEEK (Polyether Ether Ketone, ASTM D6262 / ISO 1043)



PEEK, a high-performance and biocompatible polymer, is machined with Swiss-type CNC and 5-axis CAM strategies to ensure distortion-free precision, ideal for implants, surgical devices, and semiconductor insulation parts.

Polyurethane (PU)



Polyurethane with high elasticity, wear resistance, and insulation is precisely milled and turned into custom covers, vibration dampers, and medical cushioning components with stable quality and durability.

Titanium Alloys (Ti-6Al-4V, ASTM B348 / ISO 5832-3)



Titanium alloys, combining exceptional strength-to-weight ratio and biocompatibility, are processed on advanced 5-axis turn-mill centers to deliver aerospace structures, propulsion parts, and high-performance medical implants.



Precision machining is an advanced manufacturing process that achieves dimensional accuracy and tolerances down to $\pm 0.01\text{mm}$. In high-reliability industries such as aerospace, medical, and semiconductors, even the smallest deviation can significantly impact performance and safety, making precision machining a true competitive edge.

PRIMEDITECH utilizes state-of-the-art 5-axis CNC machines and Esprit edge CAM software to deliver stable, high-quality results even for complex geometries. By applying optimized machining strategies tailored to each material, we ensure efficiency and durability. From prototypes to mass production, our one-stop process guarantees quality, lead time, and cost efficiency for our partners.

Precision Nozzle



PRIMEDITECH's precision nozzles ensure unmatched stability even under high pressure and high-speed conditions. Ideal for fuel injection, sprinklers, laser equipment, 3D printers, and semiconductor systems, our nozzles deliver consistent performance and durability with $\pm 0.01\text{mm}$ precision machining, supporting custom design to mass production through a one-stop process.

Company History°



2025

PRIMEDITECH Headquarters Relocation



Achieved Main-Biz Certification, Pioneered domestic introduction of DMG MORI NTX500 machining center

2024

Integrated Advanced Swiss Turn Equipment



Achieved ISO 9001 and ISO 14001 certifications

2023



Established In-House R&D Center, Certified as Specialized Component Manufacturer, Integrated Advanced Swiss Turn Equipment

2020

Establishment of Primeditech Co., Ltd.

2019

Certifications & Patents^o

Certifications

Primeditech holds key certifications like ISO 9001 and ISO 14001, proving our commitment to quality, precision, and environmental standards. These certifications ensure our products consistently meet global benchmarks across medical, aerospace, and industrial sectors.

ISO 9001

INNOBIZ

Root Industry Company

ISO 14001

Main-Biz

Venture Company

Corporate Research Institute



Patents

Primeditech's patented technologies cover advanced surgical instruments and joint mechanisms, reflecting our expertise in precision innovation. Each patent strengthens product performance and showcases our role as a leader in developing next-generation engineering solutions.

Surgical Instrument

Surgical Instrument that can Cushion the Grip Force(2 patents)

Surgical Instrument and Assembling

Joint Unit of Surgical Instrument

Methods for Surgical Instrument

Our Facilities^o



NTX 500 (5-Axis)
Turn-mill Multitasking Machine
1EA



SR-20RIV Type B
Swiss-Type Automatic Lathe
4EA



DT400
Tapping Center
5EA



DT4000L
Conventional Lathe
11EA



BO325-III
Swiss-Type Automatic Lathe
2EA



DNM 5700
Machining Center
5EA



DNM 6700
Machining Center
3EA



DNM 750
Machining Center
1EA

Post-processing & Inspection Equipments[°]



Bath circulator
1EA



Ultrasonic cleaner
1EA



Drying Oven
1EA



Magnetic pin polisher
1EA



Surface Roughness Tester
1EA



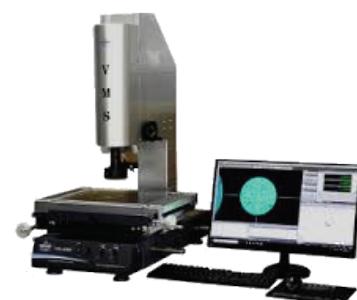
Pin Gauges
2SET



Vernier Calipers
5EA



Micro meter
1EA

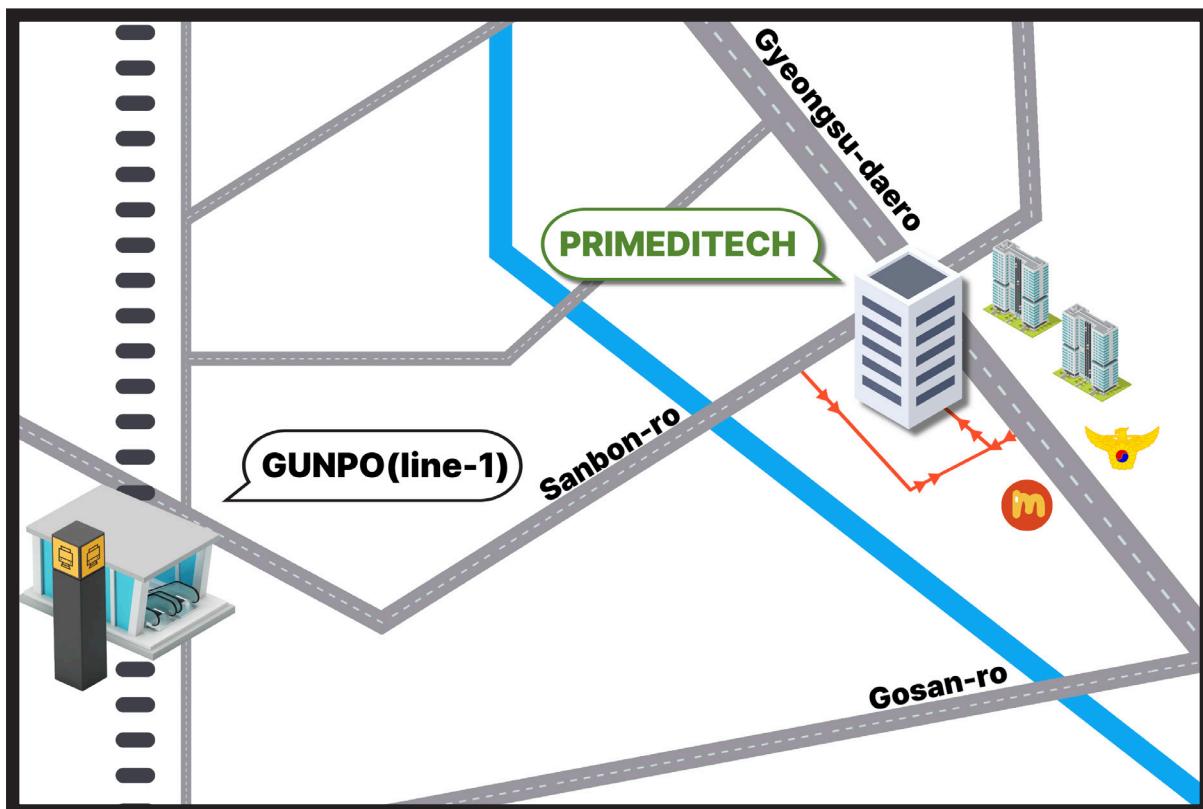


Vision Measuring
1EA



At Primeditech, we are committed to delivering world-class precision engineering solutions for the medical, aerospace, and high-tech industries. Our mission is to combine innovation, expertise, and reliability to create value for our partners worldwide.

Stay connected with us to explore our latest projects, discover upcoming innovations, and learn more about how our technology can support your business.



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