

KNORITECH

KNORITECH: Your Partner for Advanced Products & Engineering Solutions

Offering an extensive range of systems, machinery, equipment, and consumables for laboratories, research centers, and production lines. Additionally, we provide top-tier engineering services, along with manufacturing and assembly solutions.



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Our Key Products

Optical Products

- Expanded Beam Connectors and physical contact connectors
- Transceivers, media converters, modules, and accessories
- Optical lenses and optical screens: polymeric, ceramic, and others
- Optical cables, electro-optical and coaxial cables

Alfa Gel Products

- Shock absorption, optical bonding, heat transfer, vibration control, and more

Consumables

- Abrasives products, greases, putties, thermal tapes, optical adhesives, gaskets, and more

Production & Laboratory

- **Measurements & Systems:** Mitutoyo products, automated inspection, and sorting systems
- **Processing Systems:** Packing, counting, dicing, cutting, mounting, polishing, cleaving, and more

Engineering & Production Services

- **Material Processing:** Polishing, casting, molding, forming, 3D-printing, and more
- **Mechanical Services:** Complete design and manufacturing solutions
- **Optical Products:** Design, assembly, and integration

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KNORITECH ISE Ltd

Expanded Beam Connectors

Expanded Beam Connectors for single-mode and multi-mode applications, ideal for harsh environments, and limited workspace, using collimated beams to couple fibers **without contact**.

Perfect For: Military Usage, Avionics, Marine, Mining, Oil and Gas. Rail, Transport, Broadcast, Telecommunications, Medical, Industrial & many more.

Trusted & approved for operational use by defense forces of NATO member states & Israel.

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Expanded Beam Receptacle



New: Right Angle Connector



Under water Connectors



EBC Advanced Technology



Cables

Optical Cables

- Optical (Fiber Optic) Cables. High-speed internet and telecommunications CATV, datacenters, medical imaging and military applications

Electro-Optical (Hybrid) Cables

- Surveillance systems, Industrial automation and robotics, military and aerospace systems, Broadcasting and media applications

Coaxial Cables

- CATV and antennas, cable modems, RF communications, CCTV cameras, Testing and measurement equipment

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Media Converters

Copper-to-Fiber

- Convert electrical signals to optical signals

Fiber-to-Fiber

- Connect different types of fiber optic cables, such as SMF to MMF

PoE Media Converters

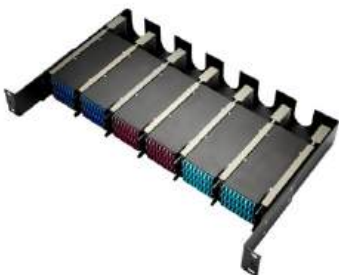
- Link fiber and copper networks while providing Power over Ethernet (PoE) to Powered devices like IP cameras, VoIP phones, and wireless access points



MPO Cassettes

MPO Multi-Fiber Push On

- Data Center Solutions are used in fiber optic networks to manage and transition multi-fiber cables to individual fiber optic patch cables. We provide various Base-8 MPO cassettes.



αGEL Products

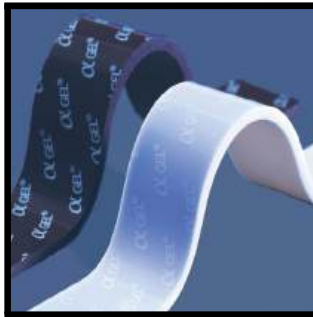
αGEL is an exceptionally soft, silicone-based gel used in a wide range of applications, including the electronics industry, precision optics, medical, automotive industry, fine machinery, and many others.

A raw egg dropped from the sixth floor (18 m) remains unbroken when caught by a 2 cm thick sheet of Alpha Gel.

Shock Protection & Vibration Control

Highly durable silicone shock absorption, perfect combination of softness and strength.

Protection from system and outside vibrations



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Optical Bonding

Optical Clear Adhesive (OCA) professional solution for LCD displays.



Mechanism & High Thermal Conductivity

- Reduce stress & absorb dimensional materials tolerances
- Flexibility & high thermal conductivity up to 20W/mK. Excellent heat dissipation



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Optical Lenses

Standard and custom lenses for diverse applications.

Advanced multi-surface optics precisely control light, enhancing imaging, illumination, and communication performance.



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Media Projection Screens

Available in PVC, Polyester, Acrylic (PMMA), Polystyrene, Polycarbonate, and more.

Front & Rear Projection, Ambient Light Rejecting (ALR), Flexible & Rigid Panels.

Complete Polishing Solutions

We offer advanced polishing systems from Krelltech (USA) and Trojoan (CN), offering reliable solutions for both research and production environments.

In addition, we provide a full range of consumables along with in-house **polishing services**

Diamond Abrasives

Diamond polishing films (DLF), polishing plates & pads.

Polishing compounds & polishing powders: Poly & Mono Crystalline

Other Abrasive Minerals

Films, Pads, Slurries, Powders and Pastes:

Silicon Carbide, Aluminum Oxide, Silica, Cerium Oxide & CBN



Abrasive Backing: Plain, Adhesive, Velcro backings or Magnetic metal plates.

Polishing Systems

Nova & Nova GEO™

A flexible platform for polishing waveguides, PIC chips, PLCs, and fiber arrays. Sample end-face angles from 0° to 50°. Optional in-line inspection enables real-time monitoring.



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Automatic Grinder & Polisher™

Systems head and platen are driven by two independent motors, suitable for grinding platen diameters of 8, 10, & 12 inches. Center loading & single point loading. Can be equipped with an optional 4 sets of peristaltic pump drip system.

Precision Lapping Systems™

Ideal for scientific research institutes and production enterprises. The $\Phi 381\text{mm}$ (15") disc can be used for preparing specimen up to $\leq \Phi 142\text{mm}$ (5.59") diameter, or rectangular plane with a diagonal length of $\leq 142\text{mm}$.



Mounting Systems

Mounting systems for precision sample preparation

Hot, Cold, Press & UV mounting solutions for metallography, electronics & materials analysis

Semi-Automatic Hot Mounting Machine

Suitable for thermoforming of different materials, such as epoxy resin, bakelite powder, acrylic powder, etc.

Sleeves can be controlled individually.



Vacuum Cold Mounting Machine

Compact, program-controlled vacuum cold mounting machine, using external compressed air or a vacuum pump.



UV Mounting Machine

A cold mounting machine utilizes UV light to rapidly cure resins. It takes 1min to get a completely cured sample with minimal air bubbles.



FlexPRESS Mounting Machine

A flexible hot mounting machine with modular unit design, combined one base unit & 1 – 5 extended units.



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Automatic Inspection & Measurement Systems

Leading Brands in Precision Measuring & Metrology Solutions

- Calipers
- Indicators
- Micrometers
- High Gauges
- Hardness Testers
- Laser & Scale Systems
- Coordinate Measuring Systems
- Inspection & 3D Measuring Systems
- Surface Quality & Geometry Testing
- Efficient Modeling & Analysis Software



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Inspection Automation Systems

Advanced fully automatic machines for high-volume testing.

Measurement Machines: Precision instruments for accurate measurement tasks.

Visual Inspection Machines: Designed for failure and feature detection, counting and sorting.

Manual & Automatic Microscopes

Explore our premium range of high-quality microscopes from leading brands including compound, stereo, digital, and handheld models.

Designed for use in manufacturing plants, research centers, academic institutions & more.

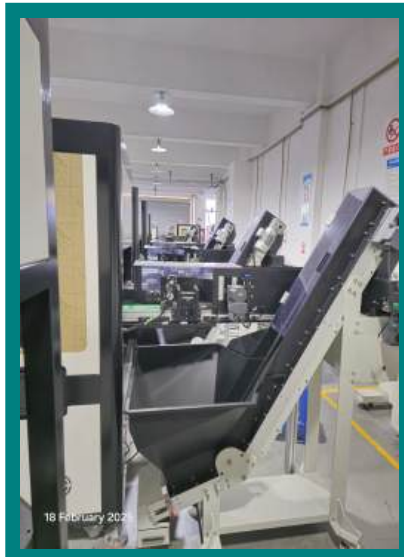
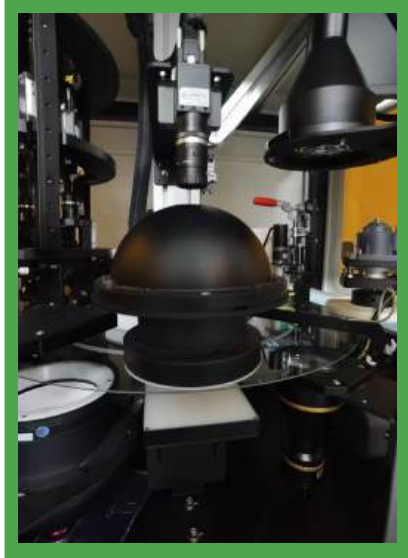
Robust construction, advanced optics & imaging capabilities for most applications.



Sorting Counting & Packing Systems

Automated Sorting, Counting & Packing Systems designed to efficiently sort, quantify, and package products or materials. These systems are widely utilized across various industries, including manufacturing, textiles, and retail.

Our solutions stand out thanks to advanced automation technologies, customizable configurations user-friendly interfaces, and reliable. Consistent performance — ensuring improved product quality, reduced labor costs, and rapid return on investment.



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Advance Automatic Cutting Machines

Advanced Control Systems - Equipped with user-friendly touch screens, allow precise control over cutting parameters such as speed and feed rate.

Multi-Axis Automation - Offer automatic cutting across multiple axes (X, Y, Z), enabling complex and precise cuts. The inclusion of laser alignment assists in accurately displaying the cutting path and positioning.

Versatile Cutting Capabilities - Capable of handling a diverse range of materials, including metals, ceramics, and composites. Systems such as the CT-2300 supports both dry and wet cutting methods.

Enhanced Safety Features - Safety is a priority, with features such as emergency stop buttons, safety locks, and transparent observation windows

Robust Cooling Systems - Integrated cooling systems prevent overheating and material distortion during cutting.

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