



**Products and manufacturing services
for the defence industry**



Who we are, what we do

over **35**
years of experience

140+
specialists

4
locations

4000 sqm
production area

Semicon Sp. z o.o. is a Polish center of technology and engineering excellence that has been setting standards in specialized component distribution and advanced contract electronics manufacturing (EMS) for over 35 years. As an innovative company with family roots, we combine a passion for engineering with rigorous international standards, delivering solutions of the highest reliability for the aerospace, space, and defence sectors. Our credibility is anchored in our AS9120 Rev B certification which, combined with the expertise of a team of over 140 specialists, ensures top quality even in projects of extreme complexity.

The foundation of our operations is a commitment to total supply chain continuity and cost optimization at every stage - from New Product Introduction (NPI) to full-scale serial production. We are distinguished by exceptional flexibility and a partnership-driven business model. We facilitate sample acquisition for R&D departments and base our long-term cooperation on precise forecasting and stable framework agreements, giving our clients operational security in an ever-changing global market.

Our modern logistics infrastructure features strict temperature and humidity control, specialized freezers, and full capabilities to handle hazardous materials in accordance with international safety protocols. To meet specific technological demands, we also offer advanced converting services, providing precision-cut tapes and foils tailored to exact dimensions for seamless integration into our clients' production processes.

By choosing Semicon, you gain not just a supplier, but a technological partner who takes responsibility for the entire product lifecycle. We guarantee full component traceability, dedicated engineering support, and the unwavering stability essential for mission-critical projects where precision meets safety.

Certificates

Semicon's Integrated Quality Management System is confirmed by the following certificates:



PN-EN ISO 9001:2015
PN-EN ISO 14001:2015
AQAP 2110:2016



MSWiA Concession

Licensed by the Polish
Ministry of Interior
and Administration



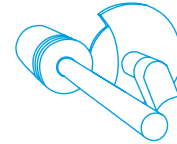
| Tapes

Aerospace | Industrial | Defence



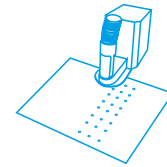
- Masking
- Protective
- Carpet
- Floor sealing
- Damping
- Antislip
- Aluminium
- Double side
- Cargo liner
- Corrosion protective
- Adhesive Transfer
- Applicators & tools

TAPE CONVERTING LINE



Cutting tape rolls

- Maximum logroll length: 1700 mm
- Minimum cut length: 6 mm
- Cutting accuracy: 0.1 mm
- Maximum logroll diameter: 430 mm



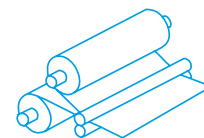
Cutting

- Working area 1330 mm x 830 mm
- Cutting difficult materials
- Cutting of adhesive films
- Cutting foams and other materials
- Filter extraction



Matrix punching

- Material thickness
- Working area 300 mm x 300 mm



Lamination

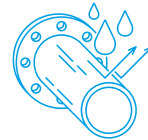
- Working width max 1600 mm



| Chemicals

Aerospace | Defence | MRO | Industrial

APPLICATION



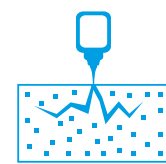
Anti-corrosion products
Protection in the form of dry, wet and wax coatings



Cleaners/degreasers
Fast and slow evaporating solvents, aqueous (alkaline and acidic)



Anti-seize greases/paste
Available in aerosols, cartridges, canisters, cans



Adhesives/Sealants
Epoxies, polyurethanes, silicones



- Sealants
- Penetrants
- Greases
- Adhesives
- Gaskets
- Silicones
- Degreasers
- Cleaning agents
- Surface treatment
- Coolants
- Abrasives
- Primers
- Corrosion inhibitors
- Applicators & tools

3M

MOMENTIVE

ARMITE
LUBRICANTS

Henkel

DYKEM

LPS

INVENTEC
PERFORMANCE CHEMICALS

PSA
An Air Liquide company

HUNTSMAN

NYCO
Solutions ahead

Nycote

LOCTITE
BONDERITE
TECHNOMELT

BOSTIK

CLICK BOND

ZIP
CHEM

FREKOTE

EZ GRIP
Get a Grip!
FRICTION DROPS



I Electronic manufacturing services (EMS)

Defence | Space | Medical | Marine

Advanced Electronics Manufacturing

What we offer:

Professional SMT and THT assembly services, strictly adhering to the rigorous IPC-A-610 Class 2 and 3 standards. We guarantee maximum reliability for electronic assemblies designed to operate in extreme environments. Our services include:

- Comprehensive procurement: bare PCBs, components, materials: pastes, adhesives, varnishes, thermally conductive materials
- Laser cut stainless steel stencils, step-up/step-down stencils
- Potting, gasketing, conformal coating
- AOI, Flying-probe testing, X-Ray inspections, Ion purity control
- Board separation by mechanical and laser methods (green laser)
- Programming and functional testing
- Professional engineering consultancy
- Flex PCB assembly
- Assembly of Press-Fit connectors
- PoP assembly
- Assembly in Flex on Glass, Flex on Board technologies
- Long PCB assembly, print area up to 915x500 mm
- Hot Bar Soldering
- PCB repair, including BGA reballing
- Design of boards, complete equipment and software
- ESD protection of components and finished products acc. to IEC 61340
- Storage and drying of MSL components acc. to IPC/JEDEC J-STD-033



Testing



Components & Connectors



Wires, Cables & Wire Harnesses





| Laser modules

Industrial | Defence | Medical



Line lasers:

Compact instruments generating a well-visible laser line on any surface, used as cutting line markers in industrial machines, saws, and machine vision systems. Available in several versions, with green and red being the most popular.

- Wavelengths: 405–980 nm
- Optical power: up to several watts
- Automatic power control, soft start, reverse polarity protection, high-quality optics

Laser pointers:

Used as indicators, markers, crosshairs, alarm system components, and sensors. As a manufacturer, we can adjust most parameters to individual requirements.



| Applicators & mixers

Sealants and epoxy applicators

Sealants mixers

Dispensing needles

Dispensing nozzles

| Health & safety

Personal Protective equipment:

- half masks
- full-face masks
- filters
- gloves
- eye protection
- hearing protection
- fall protection



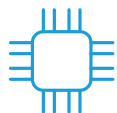


Other Semicon business areas



Distribution

- Electronic and electromechanical components
- Materials for electronics and other industrial branches
- Certified materials for aviation, defence
- Measuring accessories, test probes
- Tools for the electronics industry



Electronic Contract Manufacturing (EMS)

Flexible manufacturing, from NPI to production series, ensuring bare PCB and component procurement.

- SMT and THT assembly to IPC-A-610 Class 2/3
- Full quality control: AOI, X-Ray, Flying-Probe, Ionic contaminations
- PCBA cleaning and conformal coating
- Tape & Reel packaging, PCBA repairing & BGA reballing



Optoelectronic equipment manufacturing

- Laser modules: line, cross, spot
- Laser holders & positioners
- Box build



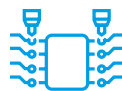
Laser cutting of SMT stencils

- Stencils on aluminium frames, VectorGuard and self-tension systems
- Long stencils for LEDs
- Micro stencils for reballing
- Step stencils (variable thickness) – milling, micro welding
- Nano coating stencils
- Precise laser-cut mechanical components



Tapes converting

- Rolls, tapes and velcros slitting, die-cut, kiss-cut, laminating



In-Circuit test fixtures (ICT) and functional testers (FCT)

- Designing and building adapters with testing probes
- Test systems dedicated for customer projects



Wire harness production

- Short series
- Wires and cables processing from #36 to #10
- Customization & design
- Box build

Member of

- Aviation Valley Poland
- Global Electronics Association
- Polish Chamber of Commerce for Electronics and Telecommunications
- Polish Space Industry Association
- Polish Technological Platform on Photonics
- Microelectronics, Electronics & Photonics Cluster



Contact us

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WARSAW

- Headquarters and R&D Department
- Electronic Manufacturing Services
- SMT Laser Cut Stencils Manufacturing
- Main Warehouse

