LANSER SUPPLY — YOUR SUPPLY NETWORK PARTNER

Capability Sheet

Engineering-led manufacturing for non-standard parts — 6 m gantry CNC, injection molding, materials validation, and assembly, from prototype to production.

6 m single-setup gantry | 80+ in-house CNC | ZEISS & HEXAGON CMM | ISO 9001-aligned QC

We take on the parts other suppliers can't hold tolerance on, or can't decide how to manufacture. The process decision and the production come from one place.

CNC Machining

CAPABILITY	DETAIL
Large-format gantry	Travel up to 6,000 mm in a single setup — one-piece bases and long shafts other shops can only weld.
Positional accuracy	±0.002 mm machine repeatability; up to 6 m, accumulated tolerance ±0.01 mm across full length.
Machine base	80+ in-house CNC: 3-/4-/5-axis VMC & HMC, turning, wire EDM, robotic cells.
Materials	Aluminum (6061/7075), stainless (304/316/17-4PH), titanium (Ti-6Al-4V), tool steels, copper alloys, engineering plastics (PEEK, POM, PTFE, nylon).
Inspection	ZEISS & HEXAGON CMM; full dimensional reports and FAI (AS9102 on request).

Injection Molding

CAPABILITY	DETAIL
Press park	Owned presses, molding area up to 380 × 260 mm; up to ~1200 × 1100 mm via partner network.
Typical part weight	Up to ~1.2 kg standard; larger evaluated per project.
Materials	ABS, PC, PA, PP, POM, PEEK, glass-filled grades.
Tooling	Mold design & modification in-house, including tooling improvement and material-saving optimization.

Engineering Services

DFM Review

- Process route comparison
- Cost breakdown
- Risk audit pre-tooling
- Tolerance audit

Material Substitution

- Trial parts in candidate material
- Test data
- Go / no-go report

Failure Analysis

- Root cause with evidence
- Corrective plan
- Validation on trial parts

Engineering Trial Build

- Small batch + docs
- CMM report
- Scale-up assessment

Fabrication & Welding

TIG, MIG and orbital welding, sheet-metal structures, and welded vacuum chambers — full detail on our Welding & Fabrication page.

Assembly & Integration

Built, inspected, and shipped ready to install — not a box of loose parts.

WHAT WE DO	DETAIL
Sub-assembly	Mechanical and electromechanical sub-assemblies built to your BOM, with torque records and FAI on request.
Inspection before ship	Every assembly checked against the drawing before it leaves.
Video walkthrough	We send an inspection video of your build on request.

Quality & Data Protection

AREA	WHAT WE DO
Quality system	Quality managed to ISO 9001 principles; production partners run ISO 9001-aligned quality systems, with certification activatable per project. Mill Cert per batch; full batch traceability.
Data handling	Named-person access; offline-access-controlled servers; mutual NDA before exchange.
Assembly	Dedicated staff deliver ready-to-install sub-assemblies.

Typical Applications

Semiconductor equipment structures & chambers · precision machine frames & bases · medical device structural components (non-sterile) · automation & robotics · new energy equipment · precision molded parts with machined features.

> **Case studies:** most work is under client NDA, so named projects are not published. Anonymized references for your industry are available on request under NDA.

Send your drawing — first DFM impression within 2 business days, free.

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