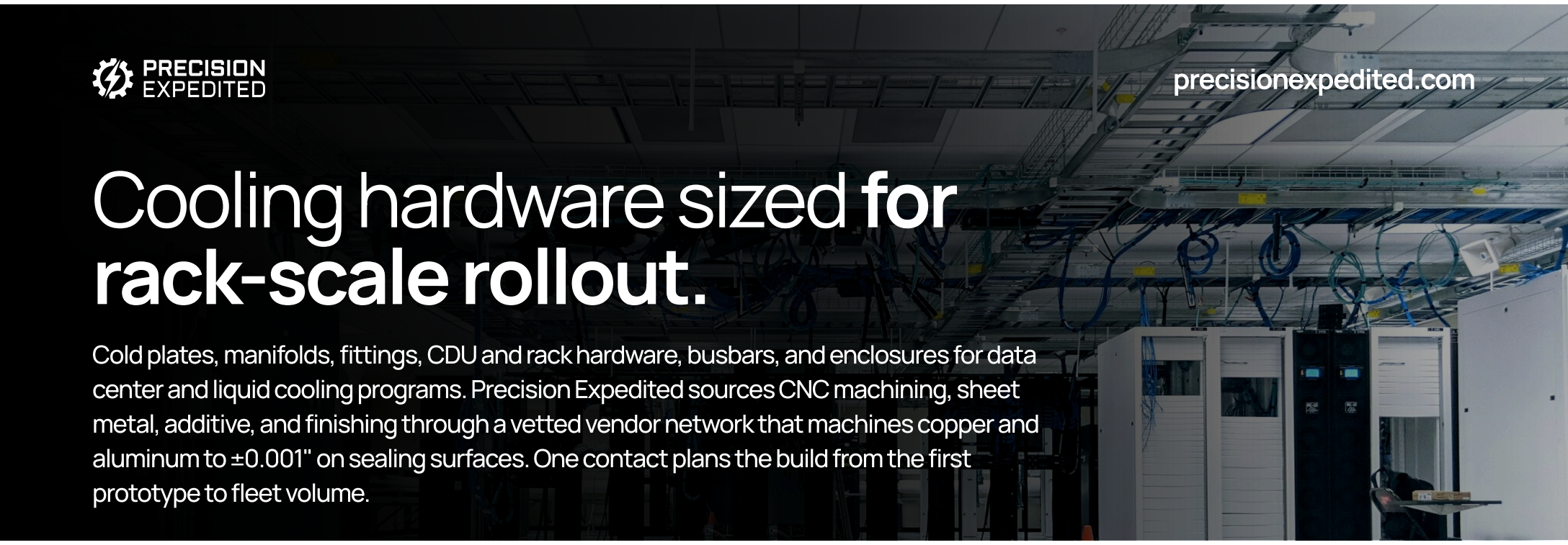
DATA CENTER + LIQUID COOLING



PRECISION EXPEDITED

precisionexpedited.com

Cooling hardware sized **for rack-scale rollout.**

Cold plates, manifolds, fittings, CDU and rack hardware, busbars, and enclosures for data center and liquid cooling programs. Precision Expedited sources CNC machining, sheet metal, additive, and finishing through a vetted vendor network that machines copper and aluminum to ±0.001" on sealing surfaces. One contact plans the build from the first prototype to fleet volume.

How We Review It

Your project manager and a technical lead review every print within 24 hours. For cooling hardware we check flatness and finish on sealing faces, internal channel geometry, and leak-test requirements, then route the job to a shop sized for your pilot racks or your rollout.

What We Source

Matched to shops that run copper and aluminum.

- **Cold Plates** · Machined copper + aluminum
- **Manifolds** · Supply and return, leak-critical
- **Fittings + Adapters** · Turned to print
- **CDU Components** · Brackets, panels, frames
- **Rack Hardware** · Rails, mounts, brackets
- **Busbars** · Copper, plated to spec
- **Enclosures** · Formed, welded, coated
- **Additive Prototypes** · Conformal channels

Specifications

- **Tolerances:** ±0.005" standard, to ±0.001" on sealing surfaces
- **Materials:** C101 + C110 copper, aluminum 6061, stainless
- **Processes:** CNC, sheet metal, additive, welding, finishing
- **Finishes:** Nickel plating, passivation, anodize, powder coat
- **Documentation:** Material certs, FAI on request
- **Quote review:** Within 24 hours

Before It's Built

Cooling hardware is built once and installed thousands of times, so leak paths and flatness callouts matter at volume. We check O-ring gland dimensions, plating on wetted copper surfaces, and channel designs that will cost too much to machine at rollout quantities. You hear about it before the quote goes out.

Quality + Compliance

ISO 9001:2015 | AS9100D Compliant | ITAR Registered

NIST 800-171 Compliant | Tolerances to ±0.001"

Inspection before shipment | Domestic sourcing

Built Fast. Built Right.

Send us your files.

Scan or visit **precisionexpedited.com/contact**