SUPPLIER QUALIFICATION PACK · REV. 2026-11

Leading Top Union

Engineering, manufacturing coordination and export for heavy steel structures, vacuum chambers and precision-welded assemblies. This pack is the document set used for supplier registration and pre-qualification.

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1. Entities, sites and the commercial interface

Entity	Role	Site
Suzhou Leading Top Union Technology Co., Ltd. (L.T.UNION)	Engineering hub, manufacturing coordinator, export agency and commercial interface. Not a manufacturing entity; does not hold EN 1090 / EN ISO 3834 certificates.	Changshu, Jiangsu, China
PANO (Changshu) New Energy Technology Co., Ltd.	Certificate holder — EN 1090-2 EXC3, EN 1090-3 EXC3, EN ISO 3834-2. Operates the production plant for structural steel and aluminium.	No.88 Chaoyang Road, 215500 Changshu
Suzhou Unicus Engineering Technology Co., Ltd.	Certificate holder — EN ISO 3834-2, EN 1090-1 / EN 1090-2. Operates the group manufacturing base and machining capacity.	No.80 Chaoyang Road, 215500 Changshu

Every enquiry is answered by one commercial owner at L.T.UNION who stays accountable from RFQ to delivery. Fabrication, equipment, floor area and workforce belong to the operating manufacturing entity; our scope is engineering review, supply-chain coordination, inspection follow-up and export documentation.

2. Certificate register

Holder	Standard & scope	Certificate no.	Valid until
PANO (Changshu)	EN 1090-2 — structural steel components and kits, FPC / CE marking, EXC3	`0036-CPR-1090-1.01121.TÜV SÜD.2026.001` `TÜV SÜD-01121.2026.001`	2027-02-19
PANO (Changshu)	EN 1090-3 — structural aluminium components, FPC, EXC3	`0036-CPR-1090-1.01122.TÜV SÜD.2026.001` `TÜV SÜD-01122.2026.002`	2027-02-19
PANO (Changshu)	EN ISO 3834-2 — comprehensive welding quality requirements	`TÜV SÜD-MUC-WD-3370781.2026.001`	2027-02-18
Suzhou Unicus	EN ISO 3834-2 — comprehensive welding quality requirements	`TÜV SÜD-MUC-WD-3095737.2021.003`	2028-11-17
Suzhou Unicus	EN 1090-1 / EN 1090-2 — structural steel, scope per certificate copy	`on file — released with the copy`	per copy

All certificates issued by TÜV SÜD Industrie Service GmbH, Munich (notified body 0036). Copies are released with the holder's written authorisation; renewals are tracked in the supplier register and re-confirmed before each quotation.

3. Capability and equipment envelope

Process	Envelope / limit
Fibre laser cutting	30,000 W, plate to 100 mm
Gantry CNC machining	5,200 × 12,500 × 1,800 mm, positional accuracy 0.02 mm
Gantry alternatives	3,500 × 8,000 × 1,500 mm; 4,000 × 10,000 × 1,800 mm
12 m gantry	12 m × 4 m × 2 m
Dimensional verification	Zeiss CMM, ±0.02 mm across large envelopes

Parameter	Value
Group plant	30,000 m², Yushan Hi-Tech Zone, Changshu
Commissioned	December 2022 (site purchased 2020, 45 mu)
Output	up to 2,000 t / month
Materials	304 / 316L stainless; 6061 / 5083 aluminium
Surface	electropolishing and passivation in-house

Vacuum work: helium mass-spectrometer leak testing to 1×10^{-9} mbar·L/s, UHV to 1×10^{-9} mbar or better, chamber bake-out 150–400 °C, precision-machined ISO-KF / ISO-K / CF flanges, SEMI-referenced documentation. Cleanroom class is not stated as a fixed number — chambers are built to the cleanliness level the customer's process requires and the verification method is agreed in the inspection plan.

4. Welding, NDT and inspection documents

Item	Scope
WPS / PQR	Qualified to ISO 15614-1, written to ISO 15609-1. Example: UN-WPS-2025-001 — plate butt weld, 45 mm, process 135, position PA, gas-flame preheat ≥110 °C, interpass ≤230 °C, consumable per ISO 14341-A.
Welder qualification	WPQ to EN ISO 9606-1 (steel) / EN ISO 9606-2 (aluminium) as specified; welder IDs, positions and thickness ranges recorded in the project quality dossier.
NDT personnel	EN ISO 9712 Level II — UT, MT, PT, VT, certificates on file.
Documentation per order	Material certificates (EN 10204 3.1), dimensional report with CMM data where applicable, weld and NDT reports, coating / surface records, packing list with photographs.
Inspection hold points	Agreed at order review: incoming material, fit-up, welding, dimensional, surface treatment, pre-packing. Third-party inspection (SGS / BV / TÜV) can be hosted on request.

> **Declared gaps.** AWS D1.1 is not currently held; where a project specifies AWS D1.1 or another US code, the certification route and lead time are confirmed in the quotation and the qualification is arranged before production release. ASME BPVC Section VIII stamping is not held — pressure and vacuum work follows the design code named by the customer. We publish these gaps deliberately: a supplier that claims every qualification is a supplier that cannot be audited.

5. Packing, marking and export

Packing

- Steel: skids or cradles, strapped, edge-protected, rust-preventive per destination climate.
- Vacuum and machined parts: sealed bag with desiccant, foam-cradled crates, flange faces protected.
- Marking: project tag, part number, heat number where traceability is required, lift points.

Export documents

- Commercial invoice and packing list, HS code per item.
- Certificate of origin (Form E / FTA on request), fumigation certificate for timber packaging.
- Bill of lading / air waybill coordination, FOB / CIF / DAP per quotation.

- Photographs of packing issued with the packing list before dispatch.
- Incoterms 2020; container loading plan and photos on request.

6. Contacts and response commitments

Stage	Owner	Commitment
RFQ, engineering review	L.T.UNION commercial team	Acknowledged within one business day; drawing / specification questions consolidated in one reply
Quotation	L.T.UNION	Price, lead time, inspection scope and certificate route stated per line item
Production and inspection	Plant quality team, followed by L.T.UNION	Scheduled inspection reports and photo updates at agreed hold points
Shipping and documents	L.T.UNION export desk	Document set checked against the order before dispatch

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Document control: this pack summarises qualifications and capability as of November 2026. Certificate validity is confirmed per quotation; customer-specific documents (WPQ records, NDT certificates, inspection samples) are released under NDA on request and are not distributed publicly. Certificate copies may only be reproduced in their entirety and with the holder's consent.