

How to Order Custom Radiator per Drawing OEM Number China Factory



Qingdao, Shandong Aug 2, 2026 ([Issuewire.com](https://www.issuewire.com)) - The demand for [custom radiators](#) in the heavy-duty aftermarket has grown as fleet operators increasingly maintain older equipment and specialized vehicles that fall outside standard catalog coverage. Ordering a replacement radiator from a factory using an OEM part number or engineering drawing has become a standard procurement practice, and the process benefits from clear specification communication to ensure the finished unit aligns with the original design. Shuangfeng showcased this approach at Automechanika, where buyers brought OEM part numbers and dimensional drawings directly to the engineering team for on-site feasibility assessment and lead time estimation. The same specification review workflow continues outside of show dates through direct inquiry channels, helping buyers move from technical requirements to confirmed orders with clear timelines.

5 Steps to Order a Custom Radiator from a China Factory — The Shuangfeng Example

- Submit the OEM part number for initial cross-reference verification against the supplier's database.
- Provide an engineering drawing or detailed dimensional specifications if the part number is not in the database.
- Specify material preference (aluminum or copper-brass) and any application-specific requirements.
- Review the supplier's sample or dimensional confirmation sheet before production begins.

- Confirm quality testing requirements, packaging specifications, and shipping terms.

Step 1: Start with the OEM Part Number

The quickest path to ordering a custom radiator from a China factory begins with the OEM part number. For heavy-duty truck and construction equipment applications, the OEM number links directly to the vehicle manufacturer's dimensional specifications, cooling performance data, and material requirements. A single part number can save hours of specification work compared to submitting a full engineering drawing.

A supplier with a comprehensive cross-reference database can verify whether the requested part number matches an existing catalog item or requires a custom build. Qingdao Shuangfeng Heat Exchanger Co., Ltd, operating under the brand [soradiator](#), maintains a cross-reference system covering more than 15,000 models across truck, excavator, forklift, and intercooler applications. If the OEM number exists in the database, the supplier can provide dimensional confirmation, material specification, and pricing without requiring a drawing.

At Automechanika, buyers who brought their OEM part numbers to Shuangfeng's booth received on-the-spot fitment verification and lead time estimates. That same engineering-first approach now extends to remote inquiries—buyers who provide the OEM number during initial contact can expect similarly fast turnaround, without the typical delays of back-and-forth custom order communication.

Step 2: Provide Drawings for Non-Listed Parts

Not every vehicle model or radiator configuration is covered in a supplier's standard catalog. Older equipment, limited-production vehicles imported from different markets, and specialized machinery may use radiators that were never added to the cross-reference database. In these cases, an engineering drawing or detailed dimensional sketch becomes the primary specification document.

The drawing should include core width, height, and depth; inlet and outlet port positions and diameters; mounting bracket locations and bolt patterns; and overall tank-to-tank dimensions. If a formal drawing is not available, photographs of the original radiator with measured dimensions can serve as an alternative reference. The more dimensional data the supplier receives upfront, the fewer revision cycles will be needed during the quotation stage.

Shuangfeng's production team includes a dedicated R&D group staffed with design engineers, production engineers, and testing engineers. When a custom drawing is submitted, the team reviews it against existing tooling and material inventory to determine whether the radiator can be produced within standard lead times or requires new mold fabrication. With three factories and nine production lines, the company allocates dedicated capacity for custom orders without disrupting standard catalog production.

Step 3: Select Material and Configuration

Custom orders allow the buyer to make material and configuration decisions that are not available in standard catalog items. While an OEM-numbered replacement matches the original design exactly, a custom build per drawing gives the buyer the option to upgrade materials or adjust specifications based on the vehicle's operating conditions.

For example, a fleet operating in coastal or high-corrosion environments may request an all-aluminum unit with increased fin density for better heat rejection in tropical climates. A mining operation working in

remote areas may prefer copper-brass construction because damaged units can be repaired with basic welding equipment rather than replaced entirely.

Shuangfeng's capabilities include both tube-fin and plate-fin configurations in all-aluminum and aluminum-plastic composite constructions. For custom orders, the buyer specifies core thickness, fin pitch, tank material, port configuration, and any special coating requirements. The production team evaluates each request for manufacturability and provides a dimensional confirmation sheet before proceeding.

Step 4 and 5: Quality Verification and Shipping

Custom radiators require the same quality verification as standard catalog items. Every unit passes through Shuangfeng's three-stage inspection process—pressure testing at specified tolerances, material verification, and final inspection before packaging. For custom orders, the buyer can request additional testing such as flow rate verification, thermal performance measurement, or third-party inspection at the factory before shipment.

The three-stage inspection protocol at Shuangfeng's facilities applies to custom builds as well as catalog items. Incoming material inspection verifies that the specified material grade matches the order. In-process monitoring during core assembly and brazing checks dimensional accuracy and bond integrity. The final pressure test confirms that the completed assembly meets the leak tolerance specified in the drawing or OEM standard. Sample lead time is approximately 7 days from receipt of deposit, with bulk production lead time at 20–30 days from receipt of deposit.

Packaging for custom orders follows the same standards as catalog items, with each radiator unit individually crated and accompanied by a documentation package that includes material test certificates and inspection records. Shipping arrangements are confirmed during the quotation stage, with flexible delivery options available based on the buyer's destination and preferences.

Standard Catalog vs Custom Order: What to Expect

Shuangfeng brings extensive experience in both OEM and ODM services, including in-house mold making and injection molding capabilities. This manufacturing depth supports two procurement paths:

- Standard catalog radiators: available from stock or with short production lead times, with fixed specifications per OEM cross-reference and fixed pricing per model.
- Custom radiators per drawing: requires engineering review, with adjustable specifications and materials, variable pricing based on dimensions and complexity, and typically a longer lead time for first article production.

The choice between the two depends on whether the required application is covered by Shuangfeng's existing cross-reference database. For applications already cataloged, the standard path offers speed and price certainty. For specialized or older equipment not covered in the database, the custom path provides a made-to-spec solution backed by the same engineering team and production facilities.

More information regarding custom radiator ordering procedures, OEM cross-reference verification, and dimensional specification requirements is available at <https://www.soradiator.com>. Buyers ready to begin the quotation process can submit OEM part numbers or dimensional drawings directly through the website's inquiry form to receive a feasibility assessment and estimated lead time.



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