



AMERITUBE

CASE STUDY

SA179 U-BEND BUNDLES

Large-format heat exchanger bundle program

Long-length tube sourcing, qualification, bending coordination, and delivery managed by Ameritube.

Ameritube supported a demanding industrial heat exchanger project involving SA179 U-bend bundles with complex geometry and long straight tube lengths exceeding 60 feet prior to bending. Over a 9-month project timeline, Ameritube coordinated sourcing, supplier qualification, procurement, technical review, quality verification, and delivery of customer-ready bundle components.



PROJECT SNAPSHOT

Market / Application:	Industrial Heat Exchanger Project
Material / Spec:	ASME SA-179 Seamless Low-Carbon Steel Tubing
Product Form:	Large U-bend bundle assemblies
Tube Geometry:	Long-length straight tubes over 60 ft prior to bending
Project Duration:	9 months
Scope:	Sourcing, supplier qualification, procurement, technical coordination, quality verification, and delivery
Quality Documents:	Product certification, eddy current report, dimensional report, bending report



A. THE CHALLENGE

- Long-length SA179 tubing
- Complex U-bend geometry
- Multi-stage qualification and coordination
- Schedule-sensitive delivery
- Customer-ready documentation requirements



B. AMERITUBE SOLUTION

- Qualified and coordinated the supply chain
- Managed procurement and technical review
- Oversaw testing and documentation flow
- Coordinated bending and bundle preparation
- Delivered organized, customer-ready assemblies



C. PROJECT OUTCOME

- Successful completion of a 9-month program
- Demonstrated capability in large heat exchanger bundle work
- Strong execution across sourcing and quality steps
- Delivered ready-for-installation bundle components



**Supplier
Qualification**



**Long-Length
Tube Expertise**



**Complex Project
Coordination**

SOURCING, VERIFICATION & DELIVERY OF SA179 U-BEND BUNDLES

How Ameritube coordinated long-length SA179 tubing, qualification, technical review, and customer-ready bundle delivery for a complex heat exchanger program.



1. TECHNICAL REQUIREMENTS

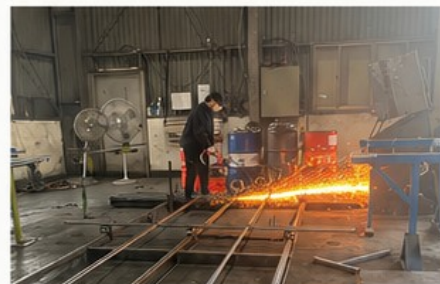
Material / Spec:	ASME SA-179 seamless low-carbon steel tubing
Product Form:	Large U-bend bundle assemblies
Tube OD / Wall:	0.750 in OD × 0.109 in wall (19.05 mm × 2.769 mm)
Tube Geometry:	Long straight tube lengths exceeding 60 ft prior to bending
Quality Verification:	Product certification, 100% eddy current testing, dimensional verification, bend inspection
Additional Controls:	Heat treatment and pressure testing coordinated per project requirements
Delivery Scope:	Customer-ready packaging, logistics coordination, and final delivery

2. PROJECT WORKFLOW

- 1 Technical review and quote development
- 2 Supplier qualification and sourcing
- 3 Procurement and production planning
- 4 Material certification review
- 5 Eddy current and dimensional verification
- 6 U-bending, heat treatment, and bend verification
- 7 Packaging and logistics coordination
- 8 Final delivery of completed bundles

3. QUALITY DOCUMENTATION

- Product test report confirming material compliance
- Eddy current test report for tubing verification
- Dimensional inspection report
- Bending inspection / bend geometry report
- Organized documentation package for customer release



4. AMERITUBE VALUE DELIVERED

- Managed a complex 9-month execution schedule
- Coordinated sourcing and qualification for a specialized bundle program
- Delivered large-format SA179 U-bend assemblies ready for installation
- Demonstrated strong project management across quality, logistics, and technical review
- Showcased Ameritube's capability in difficult heat exchanger bundle applications



Long-Length
Tube Coordination



Quality
Documentation



Heat Exchanger
Bundle Execution