PRODUCT SPECIFICATIONS

Custom fabrication overview



Custom Metal Fabrication

Legacy operates a true custom job shop. We build one-off parts, repeat-production components, and complete fabricated assemblies from drawings, AutoCAD files, samples, verified dimensions, existing equipment, or customer concepts.

The work is handled by a dedicated, long-tenured team with decades of experience in structural fabrication, precision sheet metal, multiple welding processes, stainless finishing, and unusual projects that do not fit a standard product line.

Our service includes fabrication planning, material processing, forming, welding, finish work, assembly, piece marking, packaging, and delivery coordination.

The Service We Provide

From requirement to shop release

We review what the assembly must fit, support, protect, connect to, or allow access around. Before material is cut, the work is divided into practical parts and subassemblies with a forming sequence, joint plan, hardware, tolerances, finish, and field-assembly approach.

AutoCAD drafting and 3D modeling are available to develop shop details, patterns, layouts, and customer review information.

From individual parts to complete assemblies

Legacy can supply laser-cut or sheared blanks, formed parts, welded structures, finish-sensitive stainless work, painted fabrications, and fully assembled packages.

For repeat work, approved samples, templates, fixtures, and controlled details can be used to improve consistency and organize production batches.

Materials

Common materials Mild steel · Galvanized steel · Stainless steel · Aluminum · Copper · Brass

Custom fabrication overview

Typical Custom Work

- Frames, supports, equipment bases, platforms, and welded structures
- Hoppers, pans, housings, shrouds, transitions, cabinets, and guards
- Equipment screens, cages, doors, panels, shelves, and access assemblies
- Stainless counters, casework, trim, and finish-sensitive assemblies
- Vehicle racks, storage systems, gates, fencing, and specialty fabrications
- Prototypes, replacement parts, prefabricated assemblies, and repeat runs

Equipment & Process Capability

Laser cutting	5' × 20' cutting area. Mild steel up to approximately 1/2 inch, depending on material, geometry, and project requirements.
Shearing	Up to 12 feet long and 3/16 inch thick for sheet and plate preparation.
Press-brake forming	200-ton press brake with a 14-foot bed; typical production forming up to 10 feet.
Manual forming	Manual brake work for controlled bends, hems, offsets, flashing, panels, and custom sheet-metal details.
Rolling	Ercolina tube rolling plus additional equipment for curved shapes, rings, flanged parts, and formed profiles.
Welding	MIG, dual-shield, and TIG welding selected around material, thickness, joint access, distortion, service, and appearance.
Finish work	Deburring, finish grinding, weld blending, stainless refinishing, in-house painting, and coordinated powder coating.

Information Needed to Quote & Release

- Purpose, installation location, quantity, required date, and approval responsibility
- Overall dimensions and critical mating faces, openings, elevations, patterns, and clearances
- Material, thickness, structural shapes, finish, visible surfaces, and service environment
- Designer-supplied loads, anchorage, lifting, access, and maintenance requirements
- Joint preferences, field breaks, hardware, tolerances, samples, and inspection needs
- Delivery access, packaging limits, piece marks, phased releases, and field-measurement responsibility

How We Approach Custom Work

Fabrication decisions happen early

Material behavior, bend access, weld sequence, distortion, service clearance, hardware, visible faces, and field assembly are considered before production begins. That planning reduces avoidable rework and protects the dimensions that matter.

Experienced people stay involved

The work is not handed off to a generic production line. A small, dedicated team carries practical knowledge from review and fit-up through welding, finish work, final assembly, and release.

Custom fabrication overview

Drafting, Planning & Production



AutoCAD support

2D drafting, shop details, layouts, patterns, and 3D modeling for fabrication and customer review.

Design for fabrication

Practical review of bends, joints, weld access, hardware, tolerances, finish, and assembly sequence.

Prototype and one-off work

Problem solving from concepts, samples, existing equipment, field conditions, and released dimensions.

Repeat production

Approved samples, templates, fixtures, controlled details, and organized batch fabrication.

Prefabricated assemblies

Parts fitted, welded, finished, marked, packaged, and delivered as coordinated assemblies.

Finishing coordination

In-house paint plus outsourced powder coating when included in the project scope.

Applications & details



Applications & Examples

Formed assemblies

Complex sheet-metal geometry

Transitions, housings, pans, shrouds, and multi-break assemblies combining formed panels, welded seams, stiffeners, and project-specific interfaces.

Laser cut | Brake formed | Welded

Custom fabrication overview

Applications & details



Applications & Examples

Frames & protection

Guards, cages, and equipment screens

Welded frames with expanded metal, doors, removable access, service clearance, anchorage, and finish systems for indoor or exterior use.

Structural frame | Access planned | Finish coordinated

Applications & details



Applications & Examples

Finish-sensitive work

Stainless casework and surfaces

Counters, cabinets, panels, trim, and assemblies coordinated around equipment, openings, field conditions, grain direction, and visible finish requirements.

TIG welded | Finish ground | Field coordinated

Custom fabrication overview

Applications & details



Applications & Examples

Exterior fabrication

Architectural equipment protection

Frames and panels built around service access, maintained equipment, attachment points, exterior exposure, and project-specific appearance.

Exterior use | Service access | Painted finish

Applications & details



Process equipment

Hoppers and support frames

Formed bodies integrated with structural bases, discharge geometry, bracing, lifting points, mounting interfaces, and equipment connections.

Formed bodies | Structural frames | Assembly

Custom fabrication overview

Applications & details



Mobile fabrication

Truck racks and storage systems

Vehicle-fit frames, partitions, storage bays, tie-down points, and access openings built around verified dimensions and intended use.

Custom fit | Dual-shield welded | Painted

Applications & details



Repeat production

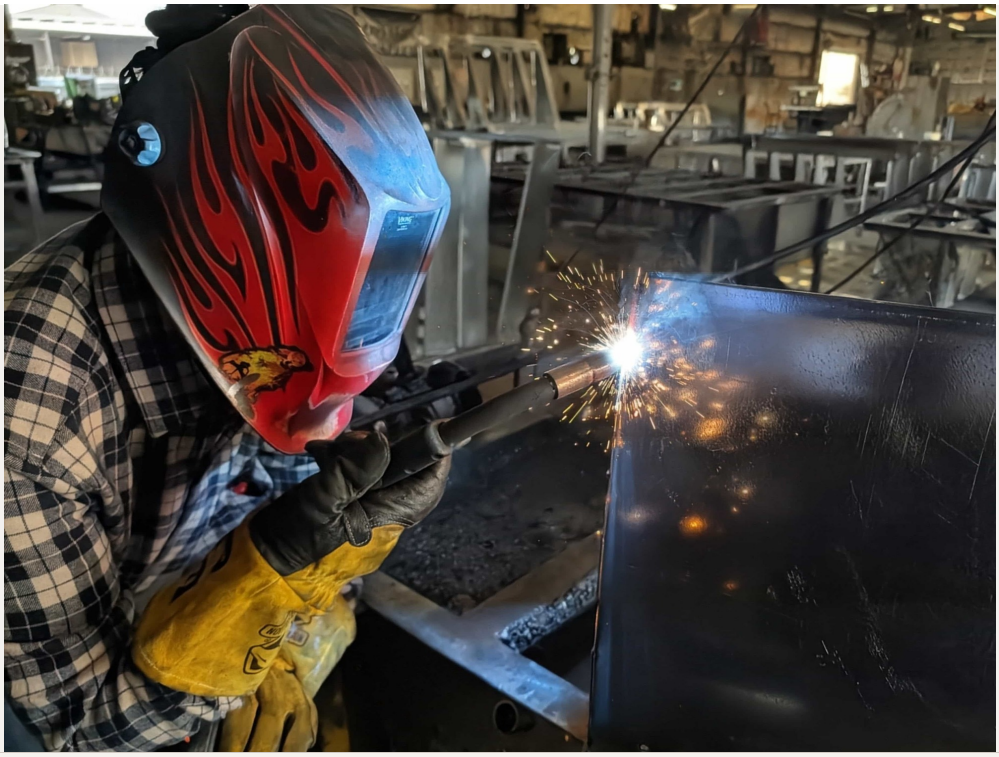
Stainless sheet-metal frames

Repeat parts formed, fitted, and welded using controlled geometry, approved details, fixtures, and organized production batches.

Stainless | Controlled fit-up | Batch fabricated

Custom fabrication overview

Applications & details



Experienced welding across multiple materials and processes

Not Included Unless Quoted

- Engineering certification, permits, installation, field welding, anchoring, or utility connections.
- Special testing, certified inspection, field measurement, or coating systems not listed in scope.
- Rework caused by changed dimensions, concealed conditions, or interfaces not shown at release.

Scope & Responsibility

Scope note: Legacy fabricates to released information and quoted requirements. Design adequacy, structural loading, code compliance, material suitability, field verification, anchorage, installation, and final acceptance remain by others unless expressly included.

Bring us the problem.

Send drawings, models, sketches, photos, samples, or field dimensions. We will help turn the requirement into buildable metalwork.

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