PRODUCT SPECIFICATIONS

Custom Fabrication



Built to your specifications

Custom Metal Fabrication

A true job shop for one-off parts, repeat production, and complete fabricated assemblies across a broad range of metals.

- A dedicated, long-tenured fabrication team brings decades of experience to structural, sheet-metal, finish-sensitive, and unusual custom work.
- Legacy supports projects with AutoCAD drafting and 3D modeling, large-format cutting, forming, rolling, welding, finish work, and assembly.
- Customers can start with a napkin sketch, hand drawing, model, photograph, sample, existing part, or a problem that needs a practical metal solution.

MATERIALS	**Steel, stainless, aluminum**
SERVICE	**Draft, cut, form, weld & finish**
PRODUCTION	**One-off through repeat runs**

How We Fabricate

Project review	Start with anything useful: a napkin sketch, hand drawing, photo, sample, existing part, or customer model. Define what the work must fit, support, protect, or connect to.
CAD & modeling	Develop professional AutoCAD drawings, preconstruction details, submittals, patterns, and 3D models. Fabrication does not begin until the drawings are approved.
Fabrication planning	Break the work into practical parts with a forming sequence, joint strategy, weld access, hardware, finish, and field-assembly plan.
Material processing	Laser cut, shear, notch, punch, and prepare sheet, plate, tube, angle, channel, and mesh for forming and fit-up.
Forming & fit-up	Develop bends, rolls, hems, offsets, transitions, and rings; check critical faces and geometry before final joining.
Welding & assembly	Select MIG, dual-shield, or TIG welding plus bolted or fastened joints around material, strength, access, and appearance.
Finish work	Coordinate deburring, finish grinding, stainless refinishing, in-house paint, outsourced powder coating, and visible faces.
Repeat production	Use approved samples, fixtures, templates, and retained programs for quantities ranging from one piece to recurring production runs.
Release	Review workmanship and critical dimensions; coordinate piece marks, hardware, orientation, protection, packaging, and delivery.

Custom Fabrication

Build Quality

Scope resolved	Build planned	Fit protected	Release organized
Geometry, interfaces, material, finish, and responsibility clarified before release.	Parts, forming sequence, joints, hardware, and field assembly considered together.	Critical faces and dimensions checked before final welding makes adjustment difficult.	Piece marks, orientation, loose hardware, finish protection, and packaging coordinated.

Fabrication Capabilities

Laser cutting	5' x 20' cutting area. Mild steel up to approximately 1/2 inch, depending on material, geometry, and project requirements.
Shearing	Sheet and plate up to 12 feet long and 3/16 inch thick across common fabrication materials.
Press-brake forming	200-ton press brake with a 14-foot bed; typical production forming is up to 10 feet long.
Rolling	Ercolina tube rolling plus additional equipment for curved shapes, structural profiles, rings, and flanged parts.
Welding	MIG, dual-shield, and TIG welding for structural work, sheet metal, stainless assemblies, and finish-sensitive fabrication.
CAD & production	AutoCAD drafting and 3D modeling for one-off work, complete assemblies, and repeat production.

Material Notes

Mild & galvanized steel

For structural frames, supports, rooftop work, guards, and formed assemblies. Coating and weld touch-up must match the service environment.

Stainless steel

For corrosion resistance, sanitation, or appearance. Alloy, grain direction, weld cleanup, protective film, and visible faces should be identified.

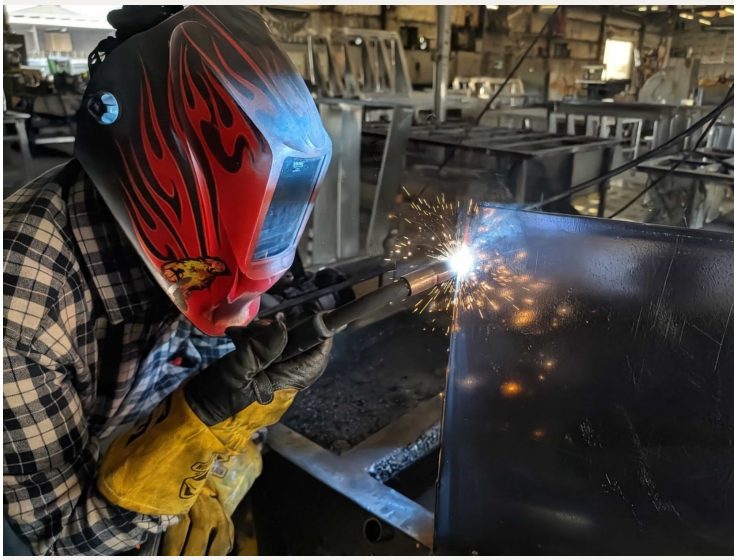
Aluminum

For low weight and corrosion resistance. Alloy, temper, thickness, joint design, distortion, and acceptable weld appearance affect the plan.

Copper & brass

Available for specialty, architectural, decorative, and functional work where forming method, joining, surface protection, and final appearance are defined.

Applications & details



Welding, Fit-Up & Finish

Joining selected for the work

Welding built around material and service

Legacy uses MIG, dual-shield, and TIG welding for steel, stainless, aluminum, structural frames, formed sheet-metal assemblies, and repair work. Joint access, fit-up sequence, distortion, visible-face expectations, and final cleanup are resolved before production. Brushed stainless restoration and food-grade weld blending can be included when specifically required and quoted.

MIG / dual-shield / TIG | Controlled fit-up | Finish coordinated

Custom Fabrication

Project Integration

Hardware & movement

Hinges, latches, handles, casters, feet, inserts, anchors, stops, and removable fasteners selected for actual use.

Access & protection

Mesh, perforated sheet, removable panels, doors, shelves, guards, and service openings coordinated with the equipment.

Finish & appearance

Visible faces, grain direction, weld cleanup, coating, touch-up, and protective film defined before fabrication.

Field organization

Piece marks, orientation, match drilling, hardware kits, phased packaging, and delivery groups organized for installation.

Required for Quote / Release

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

What Legacy Builds

Built around the job

A true custom job shop

Legacy does not work from a fixed catalog. The custom fabrication team builds around the customer's actual problem, whether the starting point is a napkin sketch, hand drawing, photograph, sample, existing part, customer model, or fully developed plan set.

The shop converts that information into an approval drawing and a practical fabrication plan, then coordinates material sourcing, cutting, forming, rolling, welding, fit-up, finishing, hardware, packaging, and delivery. One-off repairs, complete assemblies, and repeat quantities are all supported.

Fabrication begins only after the customer approves the released drawings, dimensions, materials, interfaces, finish, and scope.

Approved drawings

No fabrication begins until customer approval is received.

Up to container scale

Assemblies approaching shipping-container size can be produced.

10,000 lb handling

Forklift handling available; the shop does not use overhead cranes.

Shop fabrication

No installation or routine on-site work; local delivery and shipping are available.

Ready to Quote?

Let's get your project moving.

Send drawings, sketches, photos, samples, or an existing part. Legacy is ready to go to work for you.

quotes@legacymetalproducts.com 480-716-6266

Custom Fabrication

Applications & details



What Legacy Builds

Mechanical and structural fabrication

Equipment supports, frames, and connection assemblies

Equipment stands, welded frames, roof supports, guards, hoods, transitions, piping supports, ladders, embeds, base plates, and bolt-together packages can combine tube, angle, channel, beam, sheet, and plate. Fit, loads, attachments, material, finish, and equipment interfaces are resolved before release.

Frames & supports | Plate fabrication | Shop welded

Applications & details



What Legacy Builds

Truck and trailer work

New builds, modifications, and reconditioning

Legacy builds complete truck bodies, ladder and headache racks, storage systems, trailer decks, taller sides, loading gates, and custom equipment mounts. Existing trucks and trailers can be repaired or reworked, with related lighting, wiring, hydraulics, paint, and final assembly included when quoted.

Built or modified | Wiring & lighting | Finished assembly

Custom Fabrication

Applications & details



What Legacy Builds

Restaurant and food service

Stainless fabrication, duplication, and repair

Sinks, counters, backsplashes, shelves, cabinets, tables, drain assemblies, panels, doors, and replacement components can be built new or repaired. Existing pieces can be duplicated when drawings are unavailable. Food-grade weld blending and crevice reduction are available when specifically required and quoted.

Built to fit | Brushed finish | Repair capable

Applications & details



What Legacy Builds

Architectural and specialty

One-off work that does not fit a catalog

Gates, railings, planters, signage, wall panels, equipment screens, fire features, fountains, furniture, ornamental elements, and unusual customer concepts can be developed around the intended use and appearance. Legacy can coordinate specialty metals, brushed stainless, paint, PVC coating, powder coating, galvanizing, plating, or anodizing as part of the finished package.

One-off concepts | Finish coordinated | Delivered complete

Custom Fabrication

Applications & details



Applications & Examples

Formed assemblies

Complex sheet-metal geometry

Transitions, housings, pans, shrouds, and multi-break assemblies can combine formed panels, welded seams, stiffeners, and project-specific connection details.

Brake formed | Welded seams | Custom geometry

Applications & details



Applications & Examples

Exterior protection

Equipment screens and guards

Exterior screens can combine welded frames, expanded metal, removable access, equipment clearance, anchor points, and a project-specified finish. Overall dimensions, service openings, mounting conditions, and wind or structural requirements must be released before fabrication.

Exterior use | Service access | Finish coordinated

Custom Fabrication

Applications & details



Applications & Examples

Process equipment

Hoppers and support frames

Formed hopper bodies can be coordinated with welded structural bases, discharge geometry, bracing, lifting points, and mounting interfaces. Material thickness, flow opening, overall height, and equipment connections should be released before fabrication.

Formed bodies | Structural frames | Mounting coordinated

Applications & details



Applications & Examples

Air handling equipment

Filtration and blower assemblies

Filter racks, plenums, blower housings, transitions, access panels, structural bases, and mounting components can be combined into a coordinated shop-fabricated package. Equipment interfaces and service access are resolved before release.

Integrated assembly | Service access | Equipment coordinated

Custom Fabrication

Applications & details



Applications & Examples

Lightweight fabrication

Aluminum hoods and formed assemblies

Aluminum sheet can be laser cut, formed, fitted, and welded into hoods, transitions, covers, pans, and specialty assemblies where lower weight and corrosion resistance matter. Alloy, temper, weld appearance, and distortion expectations are established up front.

Aluminum | Brake formed | Welded construction

Applications & details



Truck and trailer work

Truck racks and storage

Vehicle-fit frames, partitions, storage bays, tie-down points, and access openings can be built around a verified body or released dimensions. Load requirements, mounting method, clearances, finish, and road-use responsibility must be defined in the quoted scope.

Vehicle fit | Welded frames | Access planned

Custom Fabrication

Applications & details



How We Fabricate

Repeat production

Stainless sheet-metal frames

Repeat stainless frames can be formed, fitted, and welded with controlled geometry and consistent connection details. Approved samples, fixtures, finish expectations, critical dimensions, and batch quantities help maintain repeatability from piece to piece.

Stainless steel | Controlled fit-up | Batch fabricated

Applications & details



How We Fabricate

Material handling

Carts, baskets, racks, and shop equipment

Welded carts, baskets, bins, racks, and mobile work equipment can be configured around payload, access, caster selection, lifting points, containment, and the customer's actual workflow. One-off builds and repeat fleets are both supported.

Welded frame | Mobile equipment | Workflow specific

Not Included Unless Quoted

- Engineering, load certification, code approval, permits, installation, field welding, anchoring, or utility connections.
- Field measurement, templates, mating equipment, special hardware, coatings, testing, or certified inspection unless listed.
- Changes after release, concealed conditions, or new interface requirements unless reviewed and quoted separately.

Scope & Responsibility

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