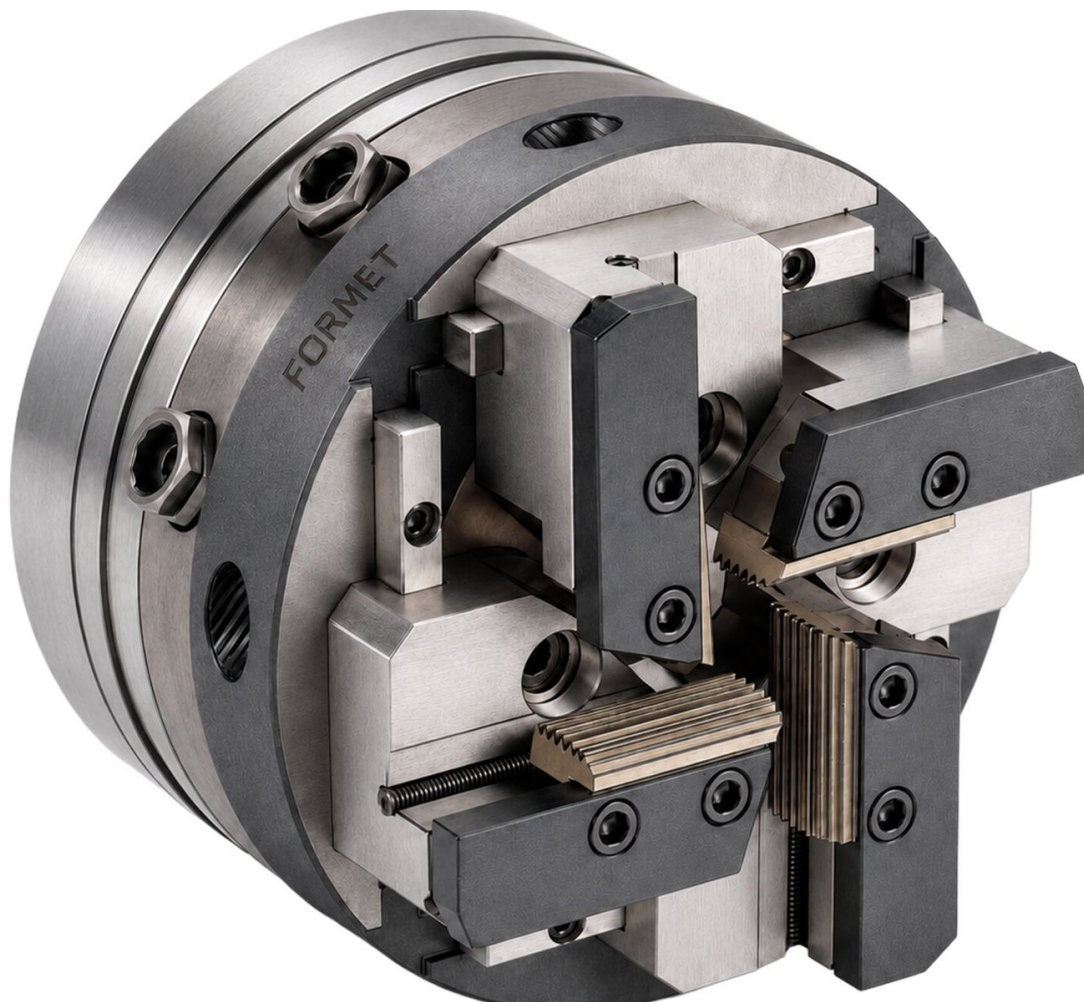


Engineered components for OEMs

From initial design and material selection through tooling, prototyping and high-volume production: precision metal components, engineered plastics, industrial tooling, tunneling and cutting tools, engineering and OEM solutions.



FROM CONCEPT TO
PRODUCTION-READY TOOLING

PPAP VALIDATED
BUILT FOR HIGH VOLUME

QUALITY ASSURED
SUPPLY SECURED

ABOUT

Engineering + manufacturing: breakthroughs in quality and speed

FORMET Engineered Components is a DBA of BARUS AMERICA LLC, bringing together engineering, manufacturing and global supply capabilities for industrial and OEM customers.

Our manufacturing scope includes engineered plastics and injection molding, precision CNC machining, forging, metal stamping, industrial tooling, mold and die manufacturing, threading tools, TBM cutting tools and custom engineered components. We support projects ranging from prototypes and specialized low-volume components to repeat, high-volume OEM production.

Rather than approaching manufacturing as a single process, FORMET integrates product engineering, material selection, manufacturability, tooling, production, inspection and supply around the requirements of the finished component. Our goal is straightforward: make technically demanding components easier to source, manufacture and scale.

We believe good business starts with listening, understanding the project and being dependable throughout the process. In practice this means one point of contact from the first drawing review to delivery: we discuss tolerances, materials and volumes before we quote, keep your drawings confidential, and share material certificates and shipping documents with every order.



400k

Unique products manufactured

62K

Quality inspections, yearly average

30+

Active customers

OUR HISTORY

Engineering experience. Manufacturing partnerships. Global reach.

2009

BARUS operations established in Miami, Florida, and Istanbul, Türkiye.

2014

U.S. operations reorganized as BARUS LLC in Walnut Creek, California.

2026

The FORMET brand established as a DBA of BARUS AMERICA LLC; operations begin in San Ramon, California, focused on engineered components, industrial tooling and high-volume OEM manufacturing.

BARUS Ltd., FORMET Ltd. and TECNOMAC Ltd. are Group companies in Türkiye focused on design, manufacturing and services. Our network also includes qualified manufacturing partners and dedicated business development and sales representation internationally, including a dedicated representative in Italy. Together, this network provides engineering expertise, flexible manufacturing, U.S.-based customer support and reliable supply from product development through production and delivery.

HOW WE DELIVER

From drawing to dock

FORMET is a California-based engineering and supply partner for OEMs. We manage the full path from drawing to dock, so you work with one engineered components partner instead of a chain of separate shops.



1 Engineering first

Send us a drawing, a sample or a performance requirement. We review manufacturability (DFM), propose materials and define tolerances and inspection points before any tooling is cut, so cost and quality are designed in from the start.

2 Tooling built to your specification

Molds, dies, fixtures and thread-rolling tools are designed and built for your part, then proven out in sample runs with first-article inspection and dimensional reports before you commit to volume.

3 PPAP and production launch

Where your program requires it, we prepare PPAP documentation in the AIAG format – process flow, control plan, measurement results and material certificates – and release production only after your approval.

4 Consistent high-volume supply

Recurring orders run in our managed manufacturing network under control plans, in-process inspection and lot traceability, so production parts match the approved sample.

5 Door-to-door delivery

We handle export packaging, freight, customs clearance and delivery to your dock (DDP), and can hold safety stock to protect your line against supply interruptions.

6 One point of contact

Engineering questions, tooling status, quality documents and shipping updates come from a single point of contact in California, so your buyers and engineers are not chasing several suppliers for one part.

Quality begins before production. We evaluate materials, manufacturing processes, tooling, tolerances and inspection requirements according to the intended application of each component, so that every material, tolerance and manufacturing process is selected with one goal in mind: consistent performance that stands up to the demands of the application.

PRODUCTS & CAPABILITIES

Custom manufacturing services across six product lines

FORMET provides custom manufacturing services for OEMs across six product lines: engineered plastics, precision metal components, industrial tooling, tunneling and cutting tools, engineering and OEM solutions, and high-volume production. Each program is managed by one engineering team from design review to PPAP and delivery, so you get one point of contact for parts that span several processes.

Our capabilities include injection molding, CNC machining, precision forging, metal stamping, mold and die manufacturing, threading and fastener tooling, assembly, and specialized cutting and wear components. From concept to high-volume production, we support material selection, CAD/CAM, DFM, tooling, prototyping, testing, PPAP and production engineering for both specialized and high-volume OEM programs.



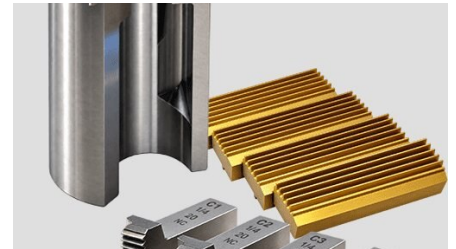
Engineered Plastics

Injection-molded and insert-molded thermoplastic components for power distribution, appliance, automotive and industrial OEMs, including metal-to-plastic conversions and molded assemblies.



Precision Metal Components

CNC-machined, turned, cold-forged and stamped parts made to your drawings and samples, with secondary operations and assembly where required.



Industrial Tooling

Tangential threading chasers, thread-rolling dies, fastener production tooling, molds, dies, jigs and fixtures built for accuracy and long service life.



Tunneling & Cutting Tools

TBM disc cutters, carbide cutting tools, rippers, scrapers, cutter rings and wear parts for tunnel boring and mining equipment.



Engineering & OEM Solutions

Product development, CAD/CAM design, DFM review, prototyping, material selection and tooling development – from concept to production-ready part, including build-to-print and private-label programs.



High Volume Production

PPAP-validated production launches, multi-cavity molding, stamped hardware, metal-plastic assemblies and managed safety stock for recurring OEM demand.

Materials follow your drawing. On the metal side we work with alloy and carbon steels, stainless steel, aluminium, copper, brass, bronze and tool steels. On the plastic side we mold HDPE, PA6, PA66, PP, POM, PBT, PC and other engineering thermoplastics, including glass-fibre reinforced and UV-stabilised grades.

ENGINEERED PLASTICS

Engineered Plastics

Engineered for performance long before production begins.

We develop and manufacture functional engineered plastic components for industrial and OEM applications where dimensional consistency, mechanical performance, electrical insulation, environmental resistance, weight reduction and repeatable production are critical.

Each program starts with the application: loads, temperature, electrical insulation and outdoor exposure decide which engineering plastic is specified, and tooling is planned around the expected annual volume. Multi-cavity tooling, controlled processing and secondary operations help maintain consistent dimensions, appearance and performance throughout the production run.

Injection-molded components

- Close-tolerance molded parts
- Multi-cavity components
- Industrial housings
- Protective covers
- Custom brackets
- Production molded parts

Insert molding & assemblies

- Threaded insert components
- Molded-in bushings
- Terminal inserts
- Metal-reinforced brackets
- Snap-fit subassemblies
- Ready-to-install assemblies

Power distribution & utility hardware

- Cable spreaders
- Wire holders
- Cable supports
- Electrical insulation components
- Polymer brackets
- Pole-line components

Metal-to-plastic conversion

- Converted metal brackets
- Lightweight housings
- Corrosion-resistant supports
- One-piece molded replacements

Materials & grades

- PP & HDPE
- PA6 & PA66 (incl. glass-fiber filled)
- ABS, PC, POM (acetal) & PBT
- TPU & PPS
- UV-stabilized and flame-retardant grades

Material certificates are issued per lot and identify the resin and its lot number, so a part in the field can be traced back to the batch it was molded from. Where a part needs metal inserts, threads or a second material, insert molding or overmolding is planned together with the tool, so the finished component arrives ready for assembly.



PRECISION METAL COMPONENTS

Precision Metal Components

Custom precision metal solutions built to exact specifications.

FORMET manufactures precision metal components for industrial and OEM applications using CNC machining, forging, stamping and secondary manufacturing processes. The manufacturing route is selected for the right combination of performance, repeatability and production economics.

Processes are often combined in one part, such as a forged blank finished on a CNC lathe. The route is chosen from the drawing, the annual volume and the tolerances that matter to the function of the part, not from what a single workshop happens to own.

CNC turning & milling

Shafts Pins Bushings Housings Fittings Connectors

Couplers Wear parts Custom machine components

Forging

Forged housings Spindle components Structural links

High-strength pins Forged fittings Near-net-shape blanks

Metal stamping

Precision stamping Progressive dies Brackets Clips Retainers

Washers Spacers Electrical hardware

Hydraulic, energy & close-tolerance parts

Manifolds Adaptors High-pressure fittings Connector bodies

Threaded components Gauge-controlled parts

Precision ground components

Materials & grades

Carbon, alloy & stainless steels Aluminum

Copper, brass & bronze alloys Tool steels Other nonferrous alloys

Close-tolerance components are supported with defined inspection plans, gauges, dimensional reports and production controls appropriate to the program, from initial samples through repeat supply.



INDUSTRIAL TOOLING

Industrial Tooling

Precision tooling engineered for repeatable production.

FORMET manufactures industrial tooling for threading, fastener manufacturing, molding, stamping and specialized production applications: both production components and the tooling used to manufacture them.

Tools are made to the customer's drawing or to a proven sample, with the profile, material and hardness matched to the machine and the workpiece. Custom tooling orders are handled as small engineering projects: we confirm the machine model, the workpiece material and the expected output before the design is released, then document the final dimensions, material grade and hardness of every set.

Threading chasers

- Tangential threading chasers
- Pipe threading chasers
- Steel bar chasers
- Bolt & fastener chasers
- Replacement chaser sets
- Custom thread profiles

Thread rolling dies

- Flat thread rolling dies
- Cylindrical rolling dies
- Bolt & screw rolling dies
- Special thread profiles

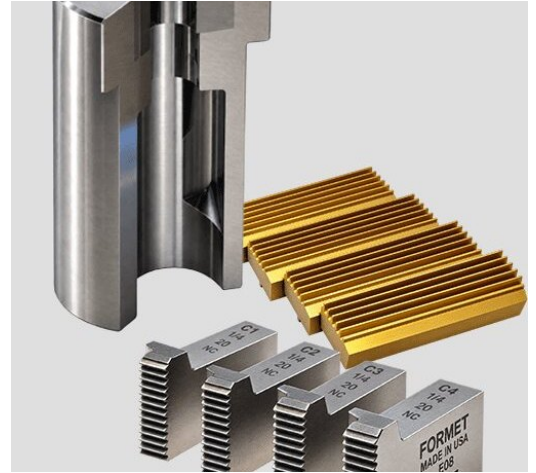
Fastener production tooling

- Heading tools
- Forming dies
- Punches
- Trimming tools
- Special fastener tooling

Molds, dies, jigs & fixtures

- Injection molds
- Stamping dies
- Swaging dies
- Nail & screw molds
- Machining fixtures
- Inspection fixtures
- Welding fixtures
- Positioning jigs

When catalog tooling cannot meet the application, FORMET develops purpose-built production tools from customer drawings, machine data, samples or performance requirements, designed to integrate with the customer's existing process.



TUNNELING & CUTTING TOOLS

Tunneling & Cutting Tools

Performance underground starts with components built for the conditions.

FORMET supplies cutting, wear and replacement components for tunneling, mining and underground construction equipment. Products are selected or engineered according to machine configuration, cutterhead geometry, geological conditions, rock characteristics, wear environment and operating loads.

Disc cutters and cutter rings, carbide cutting tools, rippers and scrapers and replacement cutterhead components are matched to the machine interface and to the ground conditions reported for the drive: hard rock, mixed ground or soft ground.

Disc cutters & rings

Single disc cutters Twin disc cutters Double disc cutters
Center disc cutters Copy disc cutters Monoblock cutters
Heavy-duty cutter rings Hard-faced rings

TCI & carbide cutting tools

TCI cutting tools Carbide-inserted cutters Carbide chisels
Excavation picks Hard-faced tools

Rippers & scrapers

Ripper tools Center rippers Scraper tools Cutting knives
Drag bits

Spare & wear parts

Cutter housings Mounting blocks Retainers Shafts and pins
Wear plates Muck buckets Screw conveyor components

Tunneling tools are supplied with the documentation site teams need – specifications, material data and packing lists matched to the order – with clear identification on every crate so the maintenance crew finds the right part quickly during a planned stop.



ENGINEERING & OEM SOLUTIONS

Engineering & OEM Solutions

Engineering support that begins before the first production part.

We work with customers to convert ideas, drawings, existing components and performance requirements into manufacturable products. Our international engineering and manufacturing structure supports fast response, practical DFM and a controlled path from development through PPAP and production.

Drawings and specifications are reviewed under NDA, and manufacturability, material and tooling questions are resolved before the design is frozen, while changes are still inexpensive. One team runs the program from DFM review and prototypes through tooling, PPAP approval and repeat supply.

Product development

- Concept-to-part programs
- Legacy part redesign
- Cost-reduction projects
- New product introductions
- Replacement product development

CAD/CAM & DFM

- 3D component models
- Manufacturing drawings
- Mold and die models
- CAM programs
- Injection molding DFM
- Machining DFM
- Tolerance optimization
- Part consolidation reviews

Prototyping & material selection

- Functional prototypes
- Pre-production samples
- Fit-check parts
- Tooling trials
- Engineering thermoplastics
- Carbon and alloy steels
- Stainless steels
- Aluminum alloys

Build-to-print & OEM programs

- Private-label products
- Machined OEM parts
- Molded OEM parts
- Stamped assemblies
- Production-ready subassemblies
- Metal-plastic assemblies

For customers who already have a proven design, contract manufacturing starts from the approved drawing and specification: we confirm the process, prepare the approval documents and deliver the parts packed and labeled to your receiving requirements.



HIGH VOLUME PRODUCTION

High Volume Production

Consistent quality at scale – serving 30+ active customers around the world.

From precision CNC-machined components and engineered plastics to custom tooling and production-ready assemblies, FORMET delivers consistent quality at scale. Our integrated manufacturing capabilities support reliable, cost-efficient production from initial development through high-volume supply.

Recurring orders run in our managed manufacturing network under control plans, in-process inspection and lot traceability, so production parts match the approved sample. For recurring demand we can hold safety stock so that your line is not exposed to transit delays.

Our manufacturing network is structured to support recurring OEM requirements where production consistency, cost control, quality documentation and supply continuity are critical.

What we run at volume

- PPAP & production launch
- High-volume plastic production
- High-volume metal production
- Assembly & secondary operations
- Quality control & supply continuity

Typical programs

- Multi-cavity molding
- Stamped hardware
- Metal-plastic assemblies
- Insert-molded components
- Managed safety stock

Where your program requires it, we prepare PPAP documentation in the AIAG format – process flow, control plan, measurement results and material certificates – and release production only after your approval. We handle export packaging, freight, customs clearance and delivery to your dock (DDP).



QUALITY ASSURANCE

Quality begins before production

Structured QA/QC procedures cover product development, tooling, PPAP approval, high-volume manufacturing and final delivery.

Materials, manufacturing methods, tolerances, inspection criteria and testing requirements are evaluated according to the intended application and customer specifications of each metal or engineered plastic component. Our objective is not simply to manufacture parts that conform to a drawing, but to establish controlled, repeatable and cost-effective processes that maintain consistent quality throughout the life of each program.

Production is carried out at partner manufacturers certified to ISO 9001, IATF 16949, ISO 14001 and ISO 45001.

Quality assurance starts at the drawing review, before any tool is cut. We read the print together with the partner factory, agree on how each critical dimension will be produced and measured, and raise questions on tolerances, materials and finishes while changes are still cheap. What comes out of that review is a documented plan, not an assumption.

During production, parts are checked at the frequency set in that plan, and the results are recorded against the lot. Before shipment, a final inspection confirms dimensions, appearance, quantity and labeling, so the documents that travel with the parts describe the parts that were actually delivered. If a part does not conform, it is held and reported before any decision is made about its use.



QUALITY ASSURANCE SERVICES

- Contract, drawing and specification review
- Supplier qualification and material certification
- Raw material identification and incoming inspection
- Tooling validation and trial production
- First article inspection and dimensional reports
- PPAP documentation and customer approval
- CMM, optical comparator, caliper, micrometer and gauge inspection
- In-process inspection, SPC and process capability monitoring
- Mechanical testing, including tensile, hardness, torque and load testing
- Plastic material, moisture, melt-flow and functional testing
- Coating thickness, adhesion and corrosion-resistance verification
- Lot identification, traceability and nonconformance control
- Final inspection, packaging verification and shipment release
- Customer-specific inspection and documentation plans

INDUSTRIES WE SERVE

Industrial components supplier for OEM industries

Engineered plastic, composite and precision metal components for OEMs across a wide range of industries – one engineering contact for every program.



Agriculture

Rugged components for agricultural machinery operating in demanding outdoor environments: equipment housings and protective covers, irrigation and fluid-handling components, brackets and mounting parts, seed and fertilizer equipment components.

Appliance

Precision plastic and metal components for residential, commercial and industrial appliances: housings and panels, handles and control components, internal structural parts, motor and electrical housings, mounting brackets and assemblies.

Automotive

Lightweight, durable engineered plastic and precision metal components for automotive, commercial and specialty vehicles: structural housings and covers, interior and exterior components, brackets, mounting and electrical components.

Construction

Components for construction equipment, building systems and infrastructure: conduit supports and spacers, structural brackets and mounting components, protective housings and guards, anchoring and connection components.

Consumer products

Components for durable consumer products where appearance, dimensional consistency and cost-efficient production are critical: housings and enclosures, handles and controls, structural internal parts, mounting and connecting parts.

Heavy truck & trailer

Rugged components for trucks, trailers, commercial vehicles and transportation equipment exposed to vibration, impact, weather and repeated loading: structural brackets and supports, protective covers and housings, cable-management components.

Industrial

Custom engineered plastic and precision metal components for machinery, automation, material handling and production equipment: machine housings and covers, wear guides and bushings, precision machined parts, equipment brackets.

Medical

Durable medical equipment and non-implantable engineered components requiring dimensional consistency, appropriate material selection and controlled production: equipment housings, handles and controls, structural and mounting components.

Military & defense

Engineered plastic and precision metal components for demanding operating environments: rugged equipment housings, protective covers and guards, electrical and communication equipment components, precision mechanical parts, structural mounting hardware.

Power distribution

Engineered plastic, composite and metal components for electrical distribution and utility applications: cable supports and spacers, insulating components and barriers, electrical housings, mounting brackets and utility line hardware.

If your industry is not listed, it is still worth asking: what decides feasibility is the part – its geometry, material and volume – rather than the sector it is used in.

CONTACT

Ready to meet your partner?

Engineering inquiries · RFQs · Drawings · Samples · OEM programs

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TÜRKİYE

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GET IN TOUCH

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**How to start**

The fastest way to start is to send a drawing or a 3D model with your annual volume, material and target delivery location. We review manufacturability, confirm the process and come back with a quotation that shows the delivered cost, not just the part price. If your documents are confidential, tell us before you send them and we will put a non-disclosure agreement in place first. Drawings and specifications you share with FORMET are never used for any other customer.

FORMET