



Your One-Stop Manufacturing Partner
(All things Metal, Plastic, Rubber)

Fabrication | Fasteners | Struts & Gratings
Injection Molding | Rubber Molding
Metal Stampings & Pressed Parts

————— **ISO 9001:2015 Certified** —————

6000+
SKU's
Developed

15+
Countries
we ship to

78%
Customer
Retention

82%
Average
DIFOT

25+
Years of
Management
Experience

www.evantlisengineering.com

Cutting-edge Technologies

Why Choose Evantlis as Your Manufacturing Partner

- ▶ **Cost-Effective Sourcing:** Access India's competitive cost base without quality compromises.
- ▶ **Global Reach:** 25+ years of export experience to 15+ countries, handling 6,000+ SKUs.
- ▶ **Precision & Quality:** Advanced tech and ISO-certified
- ▶ **Custom Manufacturing:** Scalable production, from high-volume to specialized projects.
- ▶ **Efficient Logistics:** Global logistics with hassle-free DDP delivery options.

For us quality is not merely a goal but a tangible reality embedded in every product we deliver.

Technical Excellence: Our Quality Framework

- ▶ **Precision Metrology:** CMMs and optical inspection ensure dimensional accuracy.
- ▶ **SPC Integration:** Real-time monitoring and process optimization through data-driven control charts.
- ▶ **Advanced NDT:** Ultrasonic, radiography, and magnetic particle inspection for efficient quality checks.
- ▶ **Quality Software:** Streamlined inspection and reporting through advanced tools.
- ▶ **IP Protection:** Strict confidentiality and ethical standards safeguard your intellectual property.
- ▶ **Continuous Improvement:** Ongoing audits and corrective actions drive quality enhancement.



Specializing in Light To Heavy Complex Metal Fabrication

Our comprehensive services extend beyond standard manufacturing, offering complete project management, from fabrication to final installation

Fabrication Capabilities:

- ▶ Mild Steel Fabrication
- ▶ Stainless Steel Fabrication
- ▶ Aluminum Fabrication
- ▶ Sheet Metal Fabrication
- ▶ Laser Cutting, Plasma Cutting & Bending

Welding Processes:

- ▶ Shielded Metal Arc Welding (SMAW)
- ▶ Metal Inert Gas Welding (MIG)
- ▶ Tungsten Inert Gas Welding (TIG)
- ▶ Flux-Cored Arc Welding (FCAW)
- ▶ Spot Welding

We conduct test fits at our facilities to ensure dimensional accuracy and avoid costly modifications at the installation site, offering value to clients with reduced costs and improved efficiency.



Material Selection:

We offer a broad spectrum of raw materials for fabrication projects, ensuring durability and versatility

- ▶ Structural steel for heavy-duty applications
- ▶ Normalized structural steel for enhanced mechanical properties
- ▶ High-strength structural steel for lighter, stronger components
- ▶ Wear-resistant steel for extended service life
- ▶ Stainless steel, ideal for corrosion resistance



Comprehensive Metal Fabrication Processes:

- ▶ Laser/Plasma Cutting for precision and efficiency
- ▶ Press Brake Bending to meet exact specifications
- ▶ Grinding and Polishing for perfect surface finishes
- ▶ Welding – SMAW, MIG, FCAW, TIG, and Spot welding for different applications
- ▶ Riveting for strong mechanical joints
- ▶ Shearing and Punching for custom parts
- ▶ Forming to shape metal into exact designs



Welding & Fabrication Expertise:

Our welders are licensed and highly qualified, with thorough documentation of all Welding Procedure Specifications (WPS), Welder Performance Qualifications (WPQ), and Procedure Qualification Records (PQR). We conduct weld inspections and QA reviews throughout the production process to ensure compliance with industry standards.



Non-Destructive Testing (NDT) and Quality Control:

Eventlis adheres to ASTM standards in our rigorous non-destructive testing (NDT) processes to ensure weld and assembly quality. Our NDT services include:

- ▶ Ultrasonic Testing (ASTM E2375): Detects internal defects
- ▶ Radiographic Testing (ASTM E1032): Inspects weld integrity using X-rays or gamma rays
- ▶ Magnetic Particle Testing (ASTM E1444): Identifies surface and near-surface flaws in ferromagnetic materials
- ▶ Liquid Penetrant Testing (ASTM E165): Identifies surface defects like cracks and porosity in welds using penetrant liquid for flaw detection

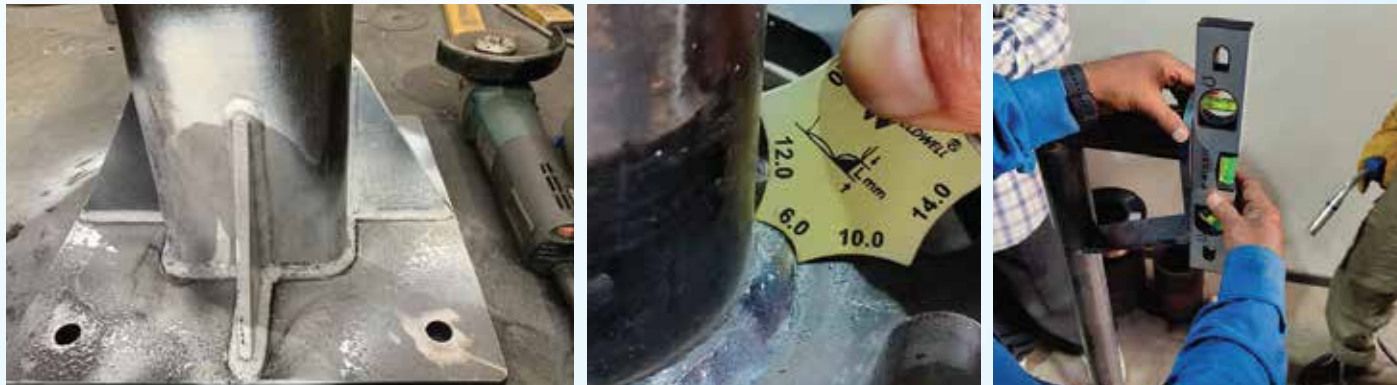


According to ASTM standards A36/A36M for steel fabrication and AWS D1.1:2020 all welding procedures and welders are qualified and tested to meet industry standards, ensuring that every project meets stringent quality requirements.

Quality Management System:

Our ISO 9001:2015-certified facility underscores our commitment to maintaining the highest levels of quality control. Our quality assurance (QA) system includes:

- ▶ Weld Engineering design for structural integrity
- ▶ Qualification of Welding Procedures to meet project requirements
- ▶ Third-party inspection where applicable, ensuring compliance with global standards



Surface Treatments & Coatings:

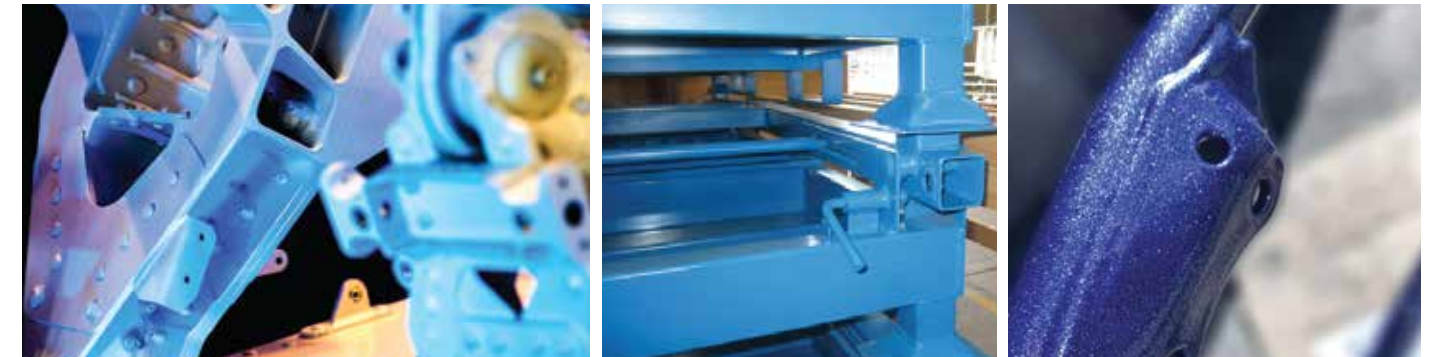
Abrasive Blasting—Meets ASTM D4417 standards with Ra values of 1.5 to 3.5 mils, ensuring strong adhesion for coatings.

Our powder coating services adhere to ASTM D7803 guidelines, applying coatings 2 to 5 mils thick for durability against chipping, scratching, and fading.

- ▶ Multiple coatings for superior protection
- ▶ Custom colors and designs, including fades and two-tone applications
- ▶ Vinyl masking for logos and specific patterns



Epoxies provide corrosion resistance, polyesters offer affordability, super durable polyesters excel in outdoor use, fluoropolymers ensure long-lasting exterior durability, and urethanes deliver smooth, durable finishes.



Hot Dip Galvanizing provides a highly abrasion-resistant zinc-iron alloy layer. Compliance with American Standard (ASTM A123/A123M), A153/A153M (for hardware), European Standard (EN ISO 1461)



On-Site Installation:

- ▶ Base, rigging, sheeting, and painting services
- ▶ Adherence to strict quality control and health and safety standards



Specialized Precision Metal Stampings and Assemblies

Eventlisdelivers cost-effective precision metal stampings and assemblies, ensuring top quality and customer satisfaction. We produce stampings in various shapes, sizes, and materials consistently exceeding expectations.



Metal Stamping Capabilities:

- **Wide Range of Pressing:** Our presses range from 3 tons to 200 tons, accommodating various production needs.
- **Material Thickness:** Capable of processing material thicknesses from 0.5 mm to 15 mm.
- **Advanced Servo Technology:** Enhances energy efficiency and maximizes tonnage delivery, effectively addressing material spring-back issues and facilitating intricate designs.

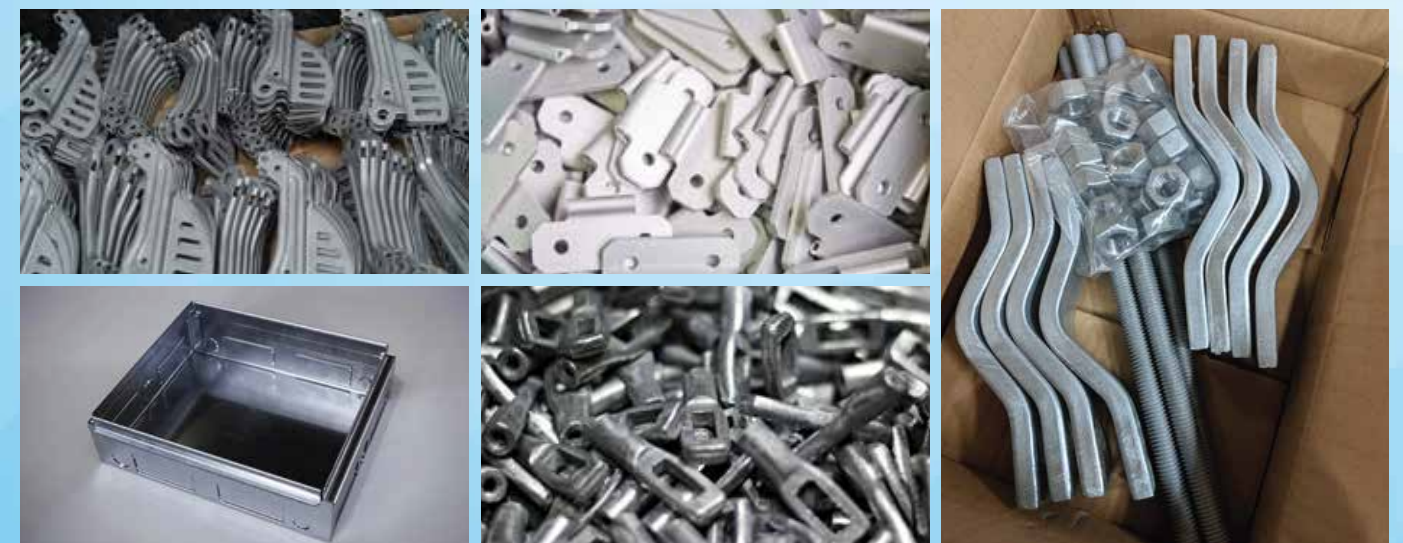
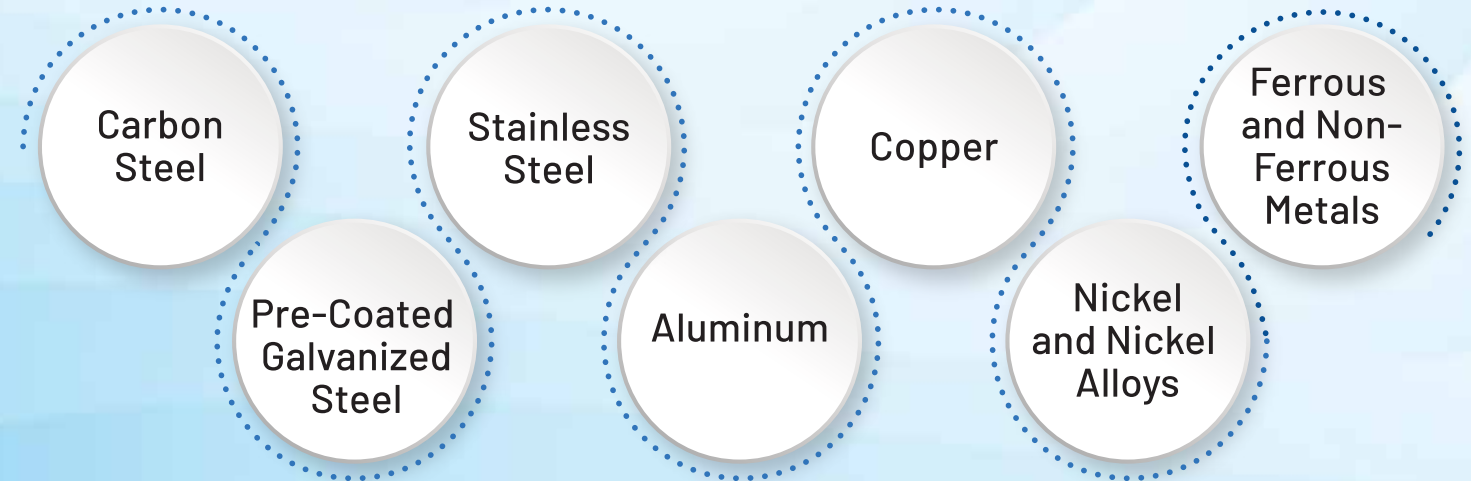


Stamping Manufacturing Processes:

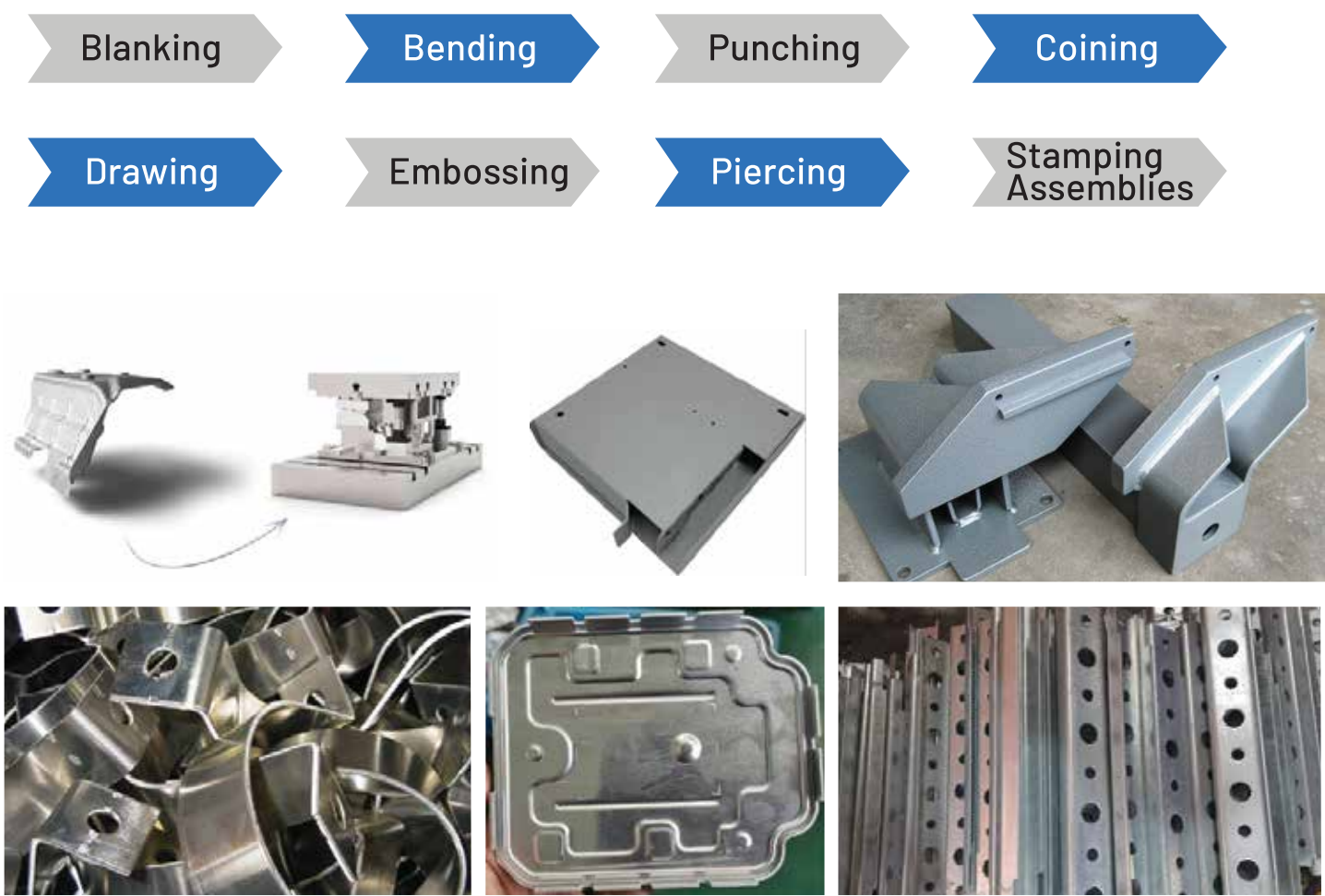
- **Line Stamping:** A single-operation process that adds features to a workpiece as it moves through multiple stations, often using combination dies for multiple operations in one stroke.
- **Transfer Stamping:** Executes several operations in one cycle with a mechanical transport system moving the part through the process.
- **Progressive Stamping:** Suited for high-volume production of complex parts requiring tight tolerances and high repeatability.



Material Selection:



Comprehensive Metal Stamping Operations:



Surface Treatments:

Hot Dip Galvanizing, Zinc Flaking, Zinc Plating, Tin Plating, Spray Painting, Powder Coating, and Machining.



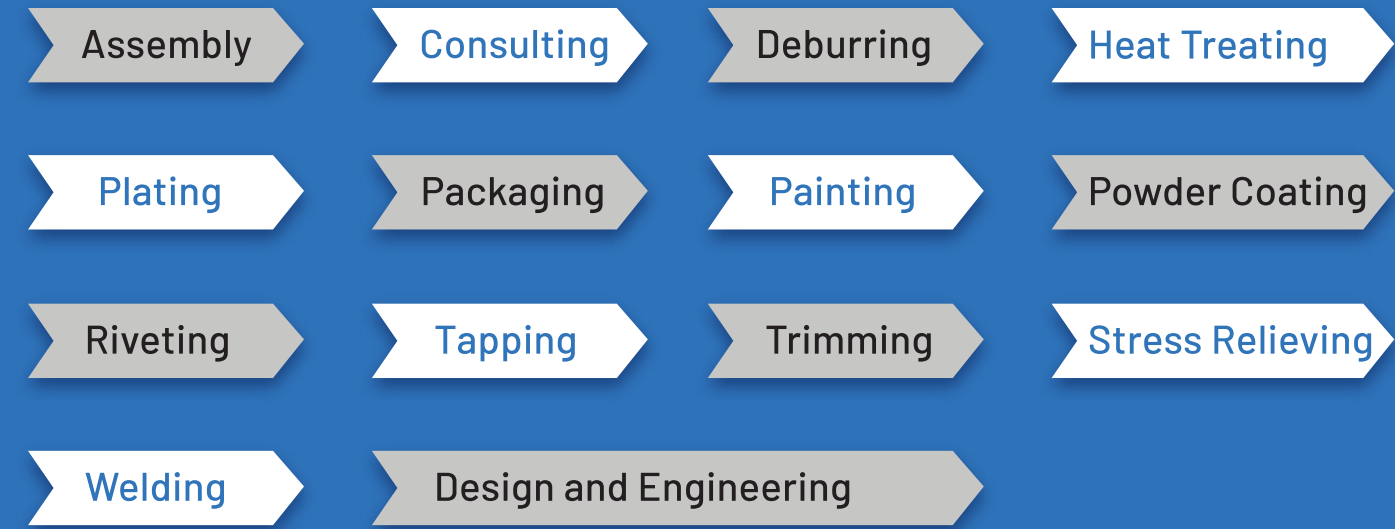
Progressive Die Stamping

We employ progressive die stamping for high-volume, intricate parts, ensuring efficient production and quality through collaboration with our clients to develop cost-effective solutions that meet the highest industry standards.



Additional Services Offered:

We provide a wide array of additional services, including:



Quality Assurance:

Our commitment to quality is reflected in our ISO 9001:2015 certification, which is just a part of our quality culture. Key aspects include:

- Tolerance Standards: ± 0.0005 in (± 0.0127 mm)
- Dedicated Quality Circles ensuring continuous improvement.
- Latest inspection equipment for precise adherence to customer specifications.



Quality Control Processes:

- First Article Inspection Reports
- In-Process and Final Inspection Data
- Calibration Database for Inspection Equipment
- Material Traceability with Mill Test Certificates and Independent Lab Testing



REPUTED FASTNER HOUSE

As a leading fastener export house, we offer a wide range of standard and specialty fasteners that meet International Quality Standards (IQS). Our fasteners, available in sizes ranging from 6 mm to 48 mm and made from 316/304 stainless steel, carbon steel, and high-tensile steel, are known for quality, competitive pricing, fast delivery, and the ability to supply urgent, hard-to-find items.



Traceability

- Complete material traceability with steel mill certificates.
- Product range includes Bolts, Nuts, Studs, Cap Screws, adhering to ASTM, ISO, and DIN standards.
- Stainless steel fasteners in Austenitic 304, 310, 316, and Martensitic 431 grades.
- Fasteners come with conformity letters; optional mill certification, chemical analysis, and mechanical tests available.



Quality Assurance:

Bolting



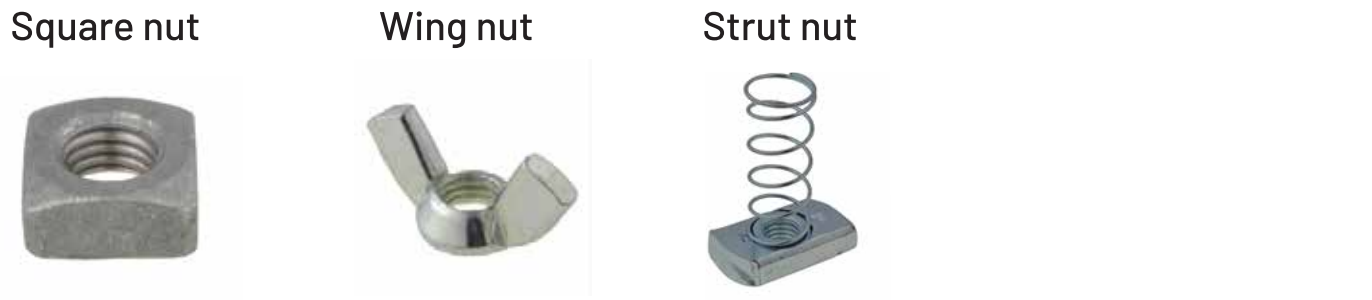
Rivets



Screws



Nuts



Washers



Thread rods



Full thread rods



Double ended thread rods



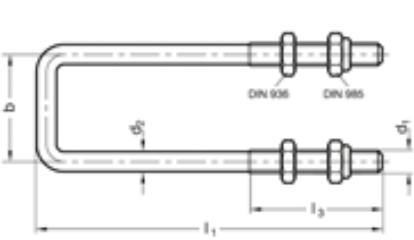
Single ended thread rods



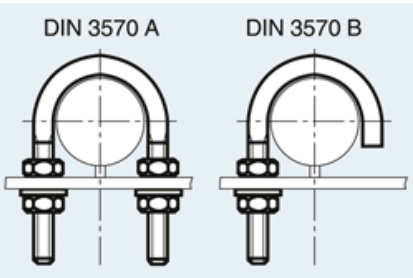
Stud Bolts



Square U bolt



Round U bolt



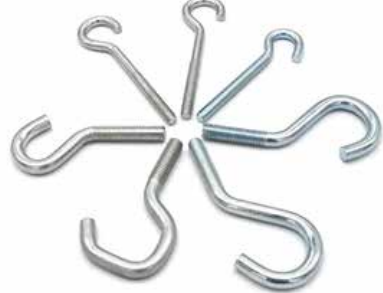
Round bottom J bolt



L bolt



Hook bolt



Eye bolt



Foundation bolt

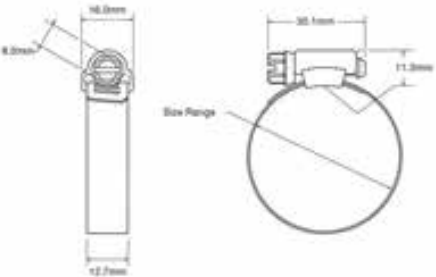


Anchors

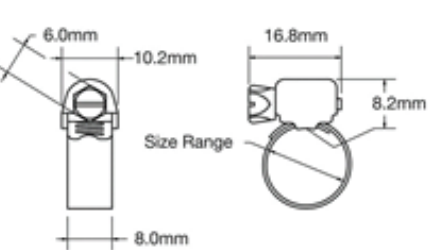


Hose Clamps

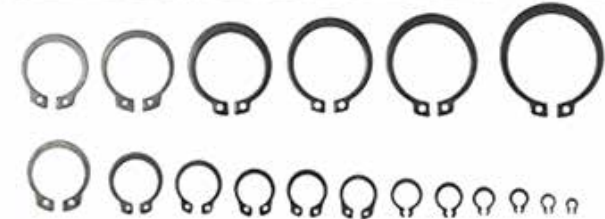
Regular Clamp



Micro Clamp



Clevis Pins, Circlips, Clips



Rolled Thread

- ▶ ISO
- ▶ UN/UNC
- ▶ ACME
- ▶ WHITWORTH



Coatings:

Electroplating

- ▶ Zinc Plated
- ▶ Zinc Chromated
- ▶ Zinc Plated (without chromium 6)
- ▶ Zinc Yellow



Others

Electropolishing



Nickel plating



- ▶ Chromium coating
- ▶ Hard chromium plating
- ▶ Pickling and passivation
- ▶ Zinc flake plating



Fluoropolymer

- ▶ PTFE
- ▶ Xylan – Xylar
- ▶ Ceramic filled PTFE – for environment friendly specifications



Phosphatization

- ▶ Manganese phosphatization (dry or oiled)
- ▶ Zinc phosphatization (dry or oiled)

Hot Dip Galvanizing

- ▶ Hot Dip Galvanizing as per ASTM A153/A153M



Quality Assurance

We always apply a precise Quality charter which specifies any of the systematic scheduled actions, thereby guaranteeing that your requirements are 100% satisfied.

Checking of dimensions and visual inspections

- ▶ Dimensional measurement control

Metallurgical examinations and chemical analysis

- ▶ Tensile Test
- ▶ Hardness Test
- ▶ Impact Test
- ▶ Design Load test
- ▶ High temperature Test
- ▶ Ultrasound examination
- ▶ Liquid Penetrant inspection
- ▶ Magnetic particle inspection
- ▶ Micrographic inspection
- ▶ Macrographic inspection
- ▶ Salt spray testing – ASTM B117



Pre-Production Inspection

- ▶ Drawing Check
- ▶ Specific Conditions Check

Heading / Threading / Pinch pointing

- ▶ Machinery Condition Check
- ▶ Molds and Dies Inspection and Setup

Heat Treatment

- ▶ Strictly controlled process
- ▶ Fully equipped with well-maintained case depth and hardness testers



PRE-SHIPMENT SAMPLES SENT UPON REQUEST!

Specializing in The Supply of Struts, Gratings And Accessories

Complete range of channel (strut) products for light, medium, and heavy-duty applications, featuring a 41mm wide structural component primarily used to support electrical or plumbing products, such as cable trays, lighting rigs, and pipe clamps, while also being versatile for various installations.

Endless applications and fittings for any need!

Finishes - Galva bond, Hot Dipped Galvanized, Stainless Steel and can be Powder Coated to order.

Strut channels:

- Universal steel framing system made from high quality cold rolled steel. Easy assembly and disassembly.
- Profiles available in thickness range of 12 Guage (2.5 mm), 14 Guage (2mm) & 16 Guage (1.6 mm)



Versions:



Slotted



Solid



Back to Back

Sizes:

1-5/8" x 13/16" (40 x 20 mm)

1-5/8" x 7/8" (40 x 20 mm)

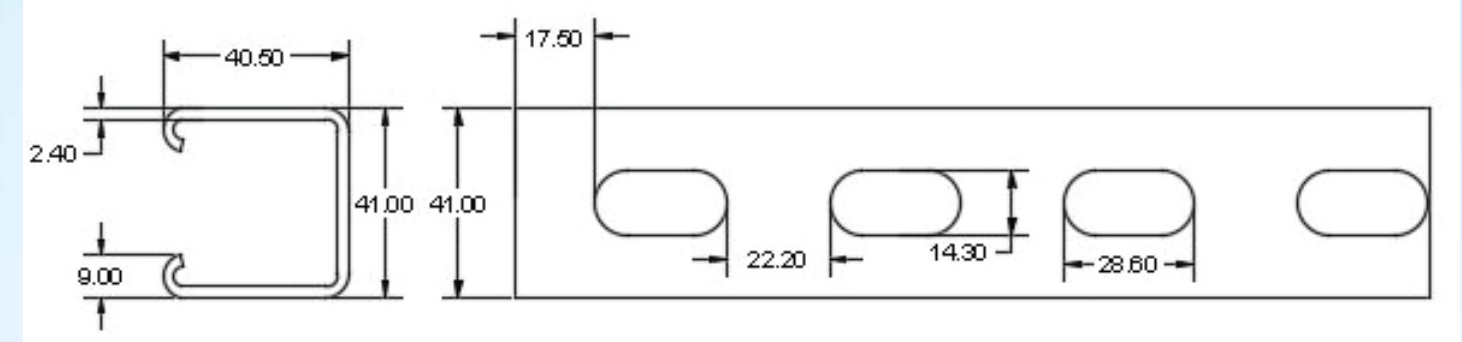
1-5/8" x 1-5/8" (40 x 40 mm)

1-5/8" x 2-7/16" (40 x 60 mm)

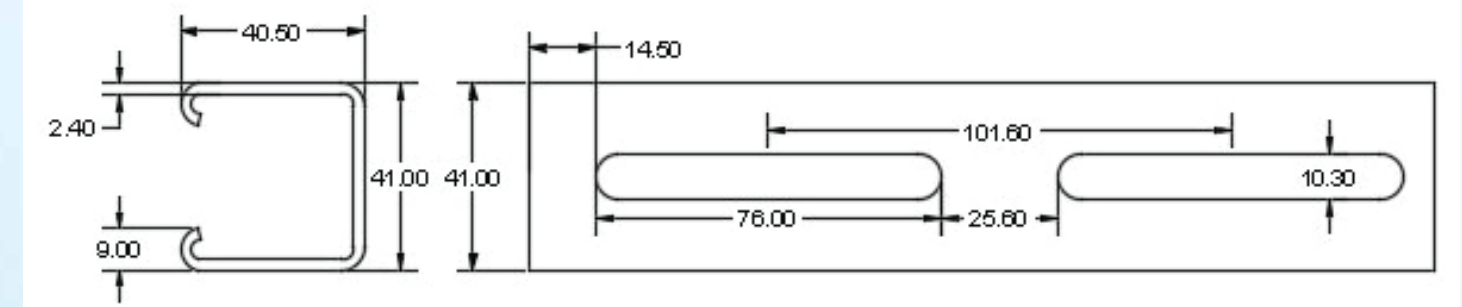
1-5/8" x 3-1/4" (40 x 80 mm)

Slot Options

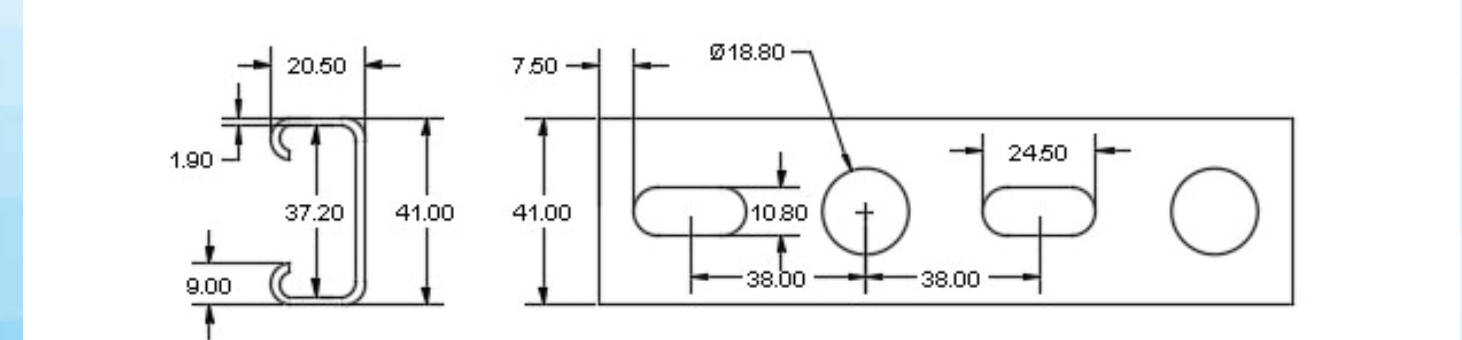
Short Slot



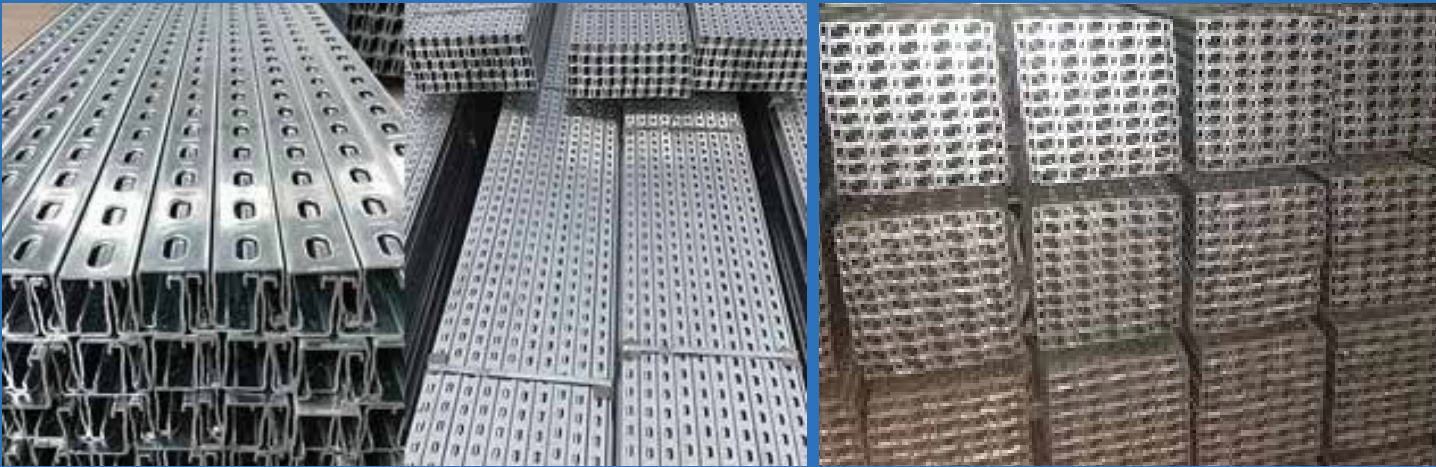
Long Slot



Alternating Slots and Holes



Top Quality merchandise, deep inventories, favorable price tag and prompt response is our differentiator on the Strut range.



Supplied in bundles of 50 or 100, with 1 ¼” steel banding and 2 straps per bundle for unloading.



Slotted Angle

Slotted Angle is a versatile steel strip for hanging and supporting HVAC services, featuring a two-sided 90° equal angle with one slotted and one solid face, available in 30 x 30 mm and 50 x 50 mm sizes.



Cantilever brackets

Cantilever Brackets support pipe systems and mechanical equipment horizontally or vertically to walls, flooring, and roofing without additional support.

Un Braced



Braced



Strut Nuts

Used to connect strut channels, fittings, and pipe clips, the spring/stud is pre-pressed into the strut nut for quick installation. Simply insert into the open face of the strut channel and turn 90° to engage the locking teeth.

No Spring



Short Spring



Long Spring



Stud Nuts

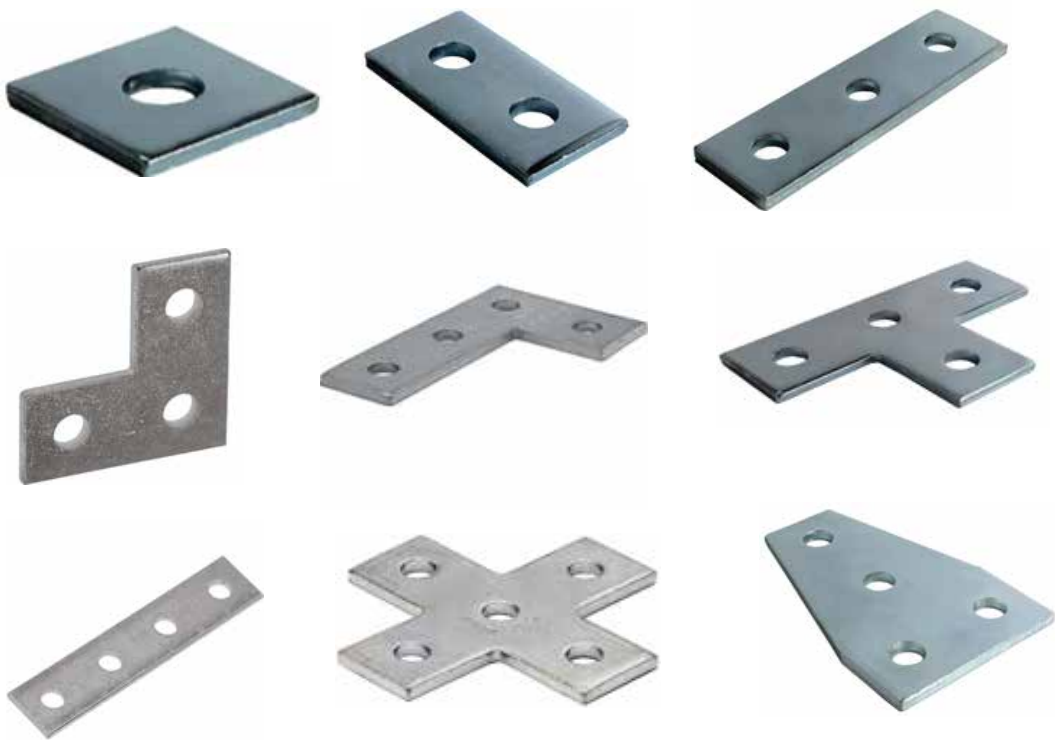


General Fittings



Flat Plate Fittings

Suitable for all Strut variants. Strut nut, flat washers and set screws sold separately.

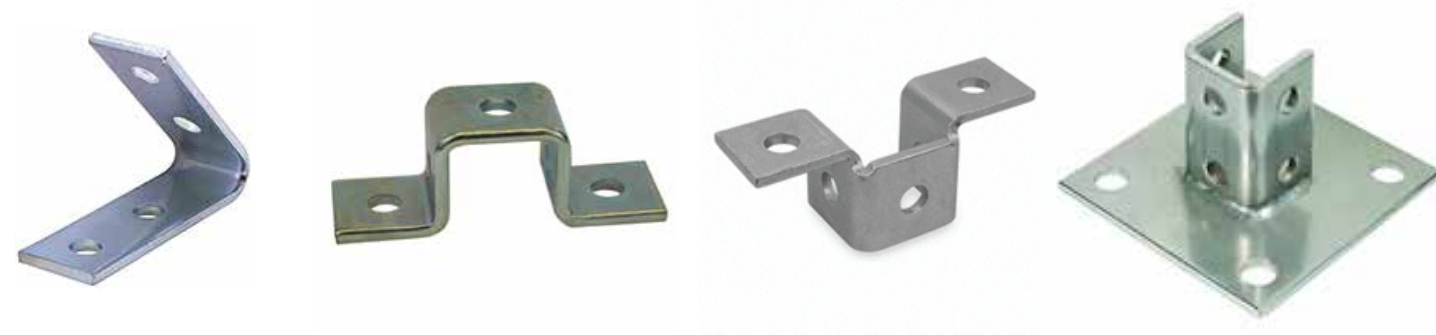


90-Degree Plate Fittings

Suitable for all Strut variants. Used to join Strut channels at a 90 deg angle. Strut nut, flat washers and set screws sold separately.



Other Plate Fittings



Pipe Clamp $\frac{3}{4}$ " to 4"

Pipe clamps are used in conjunction with Strut channel to clamp pipework perpendicularly. Suits all our Strut channel variants. Comes with bolt and nut.



Beam Clamps

Internal/Beam clamp

Used to clamp Strut channel internally within an I Beam



Locking Beam clamp

Used to mount all Strut channel variants crossways typically to I-beams. To be used in pairs.



Window bracket

Used to mount Strut channel variants crossways typically to I-beams. Comes with bolt. To be used in pairs.



Adjustable U bolt Beam clamp

Used to mount Strut channel variants crossways typically to I-beams. Comes with U-bolt and nuts. To be used in pairs.



Strut end caps

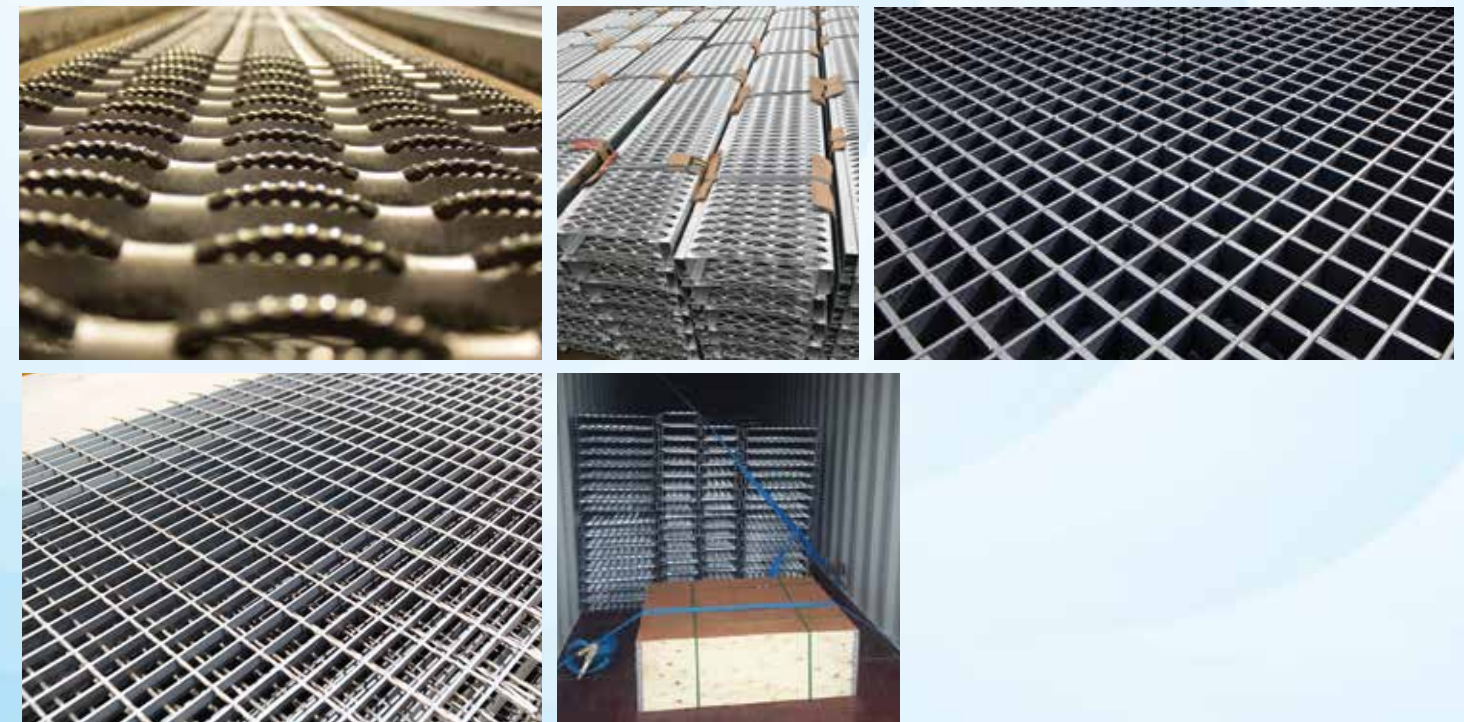
Covers cut ends of channel or cantilevers for a cleaner look and to avoid damage and injury. Available in 40 x 20 mm, 40 x 40 mm sizes.



Gratings

Our gratings allow for secure footing over industrial walkways and floorings. A full range of grating and handrail products, expanded walkway mesh, planking systems and accessories to suit any industrial application, including mezzanine floors, roof walkways, access platforms are available.

Grip Strut gratings



Excellence In Design, Tooling, and Supply Of Plastic Injection Molded Components

We utilize advanced injection molding techniques and automated facilities to produce high-quality plastic components. Our technical expertise ensures precision and reliability in meeting diverse industrial requirements.



Explore our extensive array of services encompassing design, tooling, prototyping, and mass production, empowering the molding of diverse parts, ranging from minute components to sizable, intricate objects.



Injection Molding Machines :

With a range of plastic injection molding machines we can cater to the production of components weighing anywhere from 5 grams to 1500 grams

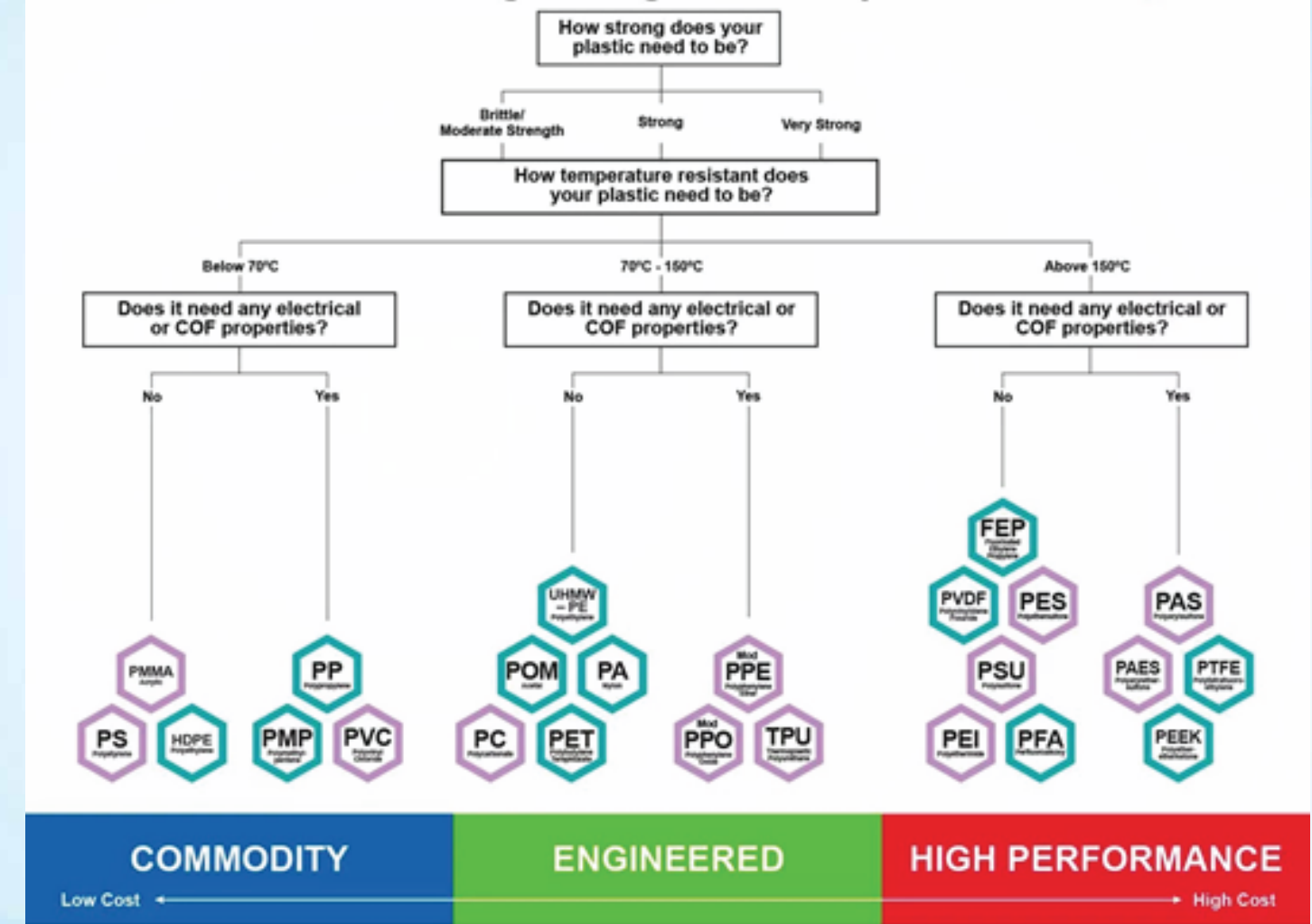


Wide Range of Resins:

Part of our custom plastic injection molding service offering enables us to process a wide range of plastic resins including engineering material such as polycarbonates, nylons 6 & 66 Glass filled, acrylic and polyurethanes.

Choosing the right thermoplastic

Amorphous
Semi-crystalline



24/7 Production:

Our manufacturing infrastructure is flexible to your project requirements and can turn around production in short periods of time with our ability to run jobs 24/7



Tailored Validation Protocols:

- ▶ Dimensional checks with CMM
- ▶ Fit assessments for mating components
- ▶ Specification conformance reports (ASTM & ISO)
- ▶ Capability analysis using SPC and mechanical testing



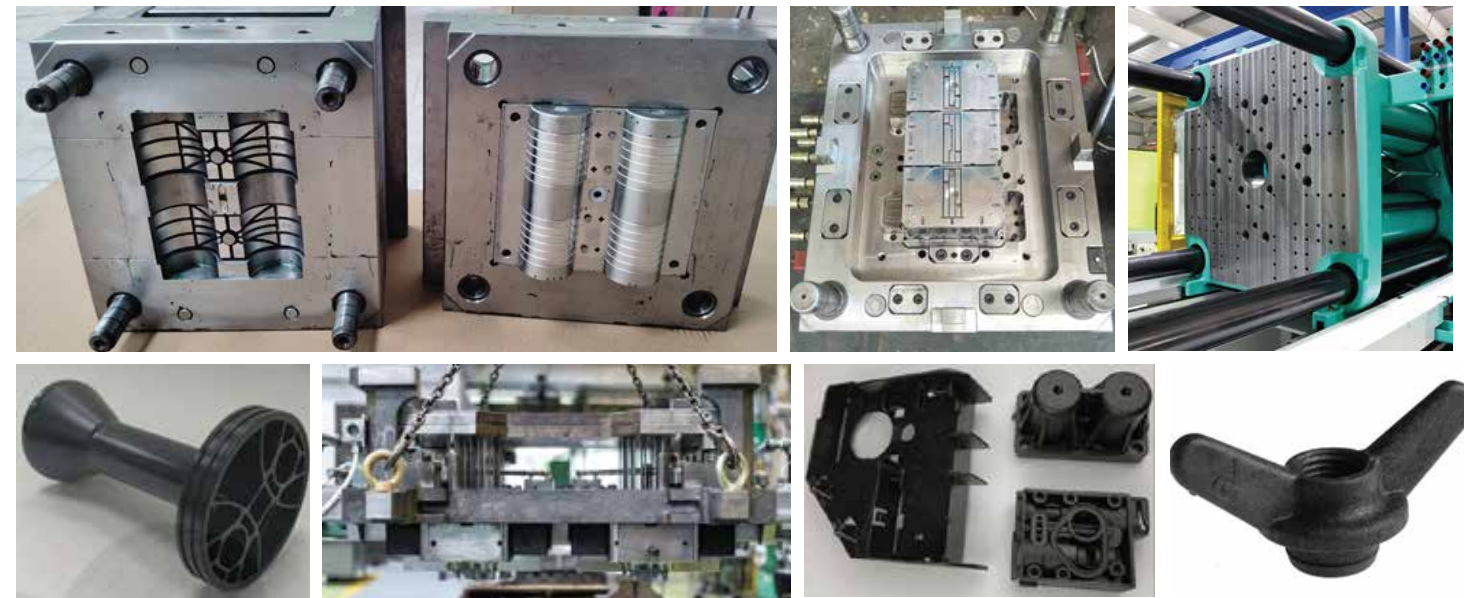
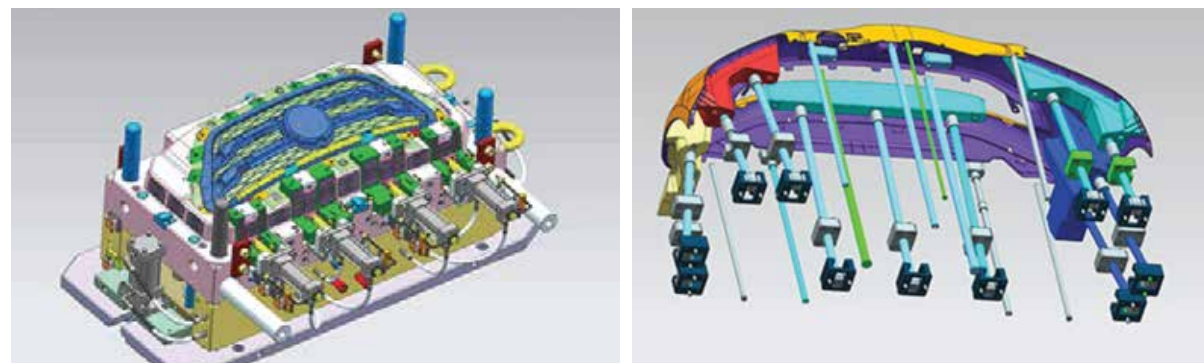
Full Technical Support:

- ▶ Assistance in design, development, and manufacturing of new products
- ▶ 3D modeling with Pro/ENGINEER & SolidWorks
- ▶ 2D modeling with AutoCAD
- ▶ Plastic flow/deform simulation using Mold Flow Mold Advisor



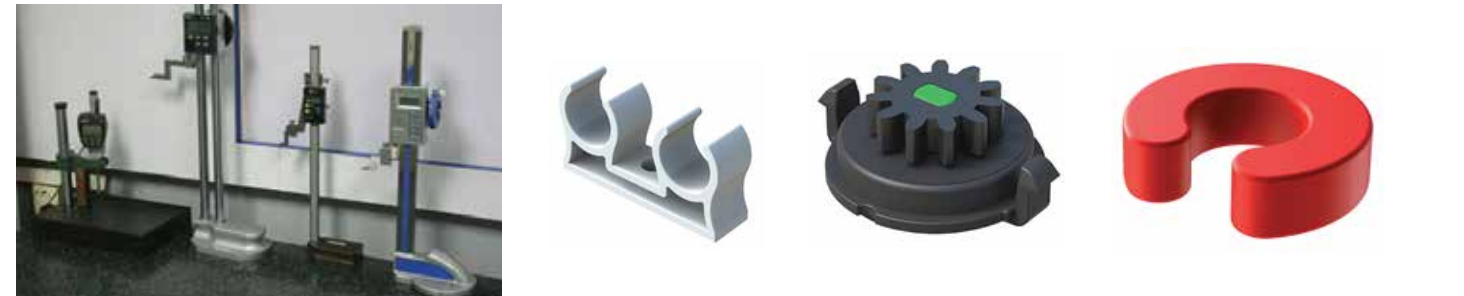
Precision Engineering with Scientific Molding:

- ▶ Mold flow analysis prevents defects and reduces cycle time.
- ▶ Cooling and shrinkage studies ensure dimensional accuracy.
- ▶ Data-driven mold adjustments achieve consistent part specifications without trial and error.



Quality Assurance Commitment:

We adhere to rigorous engineering standards, including ISO 9001 and ASTM D638, ensuring precision in tool manufacturing and functionality.



Ensuring Quality at Every Step:

- ▶ Comprehensive Design Review: Covers material selection, draft, wall thickness, ribs, gate, ejector pins, and parting lines.
- ▶ Product Design & Layout: Focus on optimized part layout for manufacturability.
- ▶ Mold & Pre-Production Inspection: In-depth checks before production begins.
- ▶ In-Process Quality Control: Monitoring for defects like short shots, shrinkage, flash, bubbles, weld lines, deformation, etc.
- ▶ Polymer Testing:
 - FTIR: Confirms presence and type of UV stabilizer.
 - TGA: Estimates filler content.
 - Glass Content: Verifies if glass is the primary filler.
 - Flexural Strength: Tested as per ISO 178.
 - Hardness (Shore D): Ensures durability.
 - UV Resistance Testing: Fluorescent UV exposure for minimum 100 hours or as per design
- ▶ Post-UV Testing: Flexural strength and hardness after UV exposure tested as per ISO standards

Quality Control Parameters in Plastic Injection Molding

- ▶ Tolerance level
- ▶ Material heating zones
- ▶ Cavity pressure
- ▶ Injection time, speed and rate
- ▶ Overall production time
- ▶ Product cooling time



Specializing In The Design, Tooling And Supply Of Rubber Components

We specialize in custom rubber products and molding, utilizing advanced compound formulation, precision tooling, and high-performance parts to ensure technical accuracy, stringent quality standards, competitive pricing, and optimized lead times for industrial needs.



Rubber: What - Where - How - Why



Natural Rubber

For over a century, rubber has been sourced from natural tropical trees.

Ethylene Propylene Diene Monomer (EPDM)

- ▶ Used for glazing & refrigeration Extrusions
- ▶ Good heat resistance
- ▶ Excellent weather resistance
- ▶ Good low temperature resistance



Nitrile (NBR)

- ▶ Good mechanical properties
- ▶ Excellent resistance to oils & fuels
- ▶ Good alkali and acid resistance



Nitrile Food Quality (NFO)

- ▶ Food gaskets, buffers & liners
- ▶ Good oil & heat resistance
- ▶ Non-toxic
- ▶ Non-swelling

Synthetic Rubber

- ▶ Made in factories from crude oil since the 1930s
- ▶ Rubber compound will have ± 18 ingredients

Silicone (si)

- ▶ Used in extreme temperatures like oven door seals
- ▶ Heat resistance up to 250°c
- ▶ Excellent weather resistance



Neoprene

- ▶ Used in oil and fuel gaskets
- ▶ Good mechanical properties
- ▶ Excellent weather resistance
- ▶ Flame resistant



Our Rubber Parts Are Used In A Wide Range Of Products

- | | |
|------------------------|----------------|
| ▶ Tyres | ▶ Cables |
| ▶ Tubes | ▶ Grommets |
| ▶ Engine Mountings | ▶ Bushes |
| ▶ Screen Door | ▶ Rollers |
| ▶ Universal Extrusions | ▶ Handle Grips |
| ▶ Building Profiles | ▶ Tools |
| ▶ Sheetting | ▶ Trailer Mats |
| ▶ Flooring | ▶ Mudflaps |
| ▶ Hoses | ▶ Tank Linings |
| ▶ Belting | ▶ Pipelines |
| ▶ Tubing | |
| ▶ Gaskets | |



We provide custom solutions for all applications

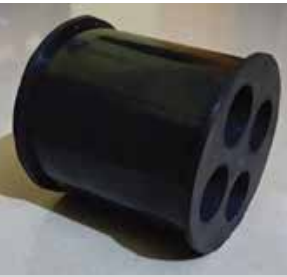
Utilizing the versatility of rubber, we have the ability to design and manufacture custom rubber components for all types of general and specialized engineering purposes.

Overseeing the entire process with complete quality control, we will ensure you get the right part at the right price.



Our Extensive Selection Of Rubber Products Includes: General Components

Grommets, bushes, seals, gaskets, washers, pads, matting and much more



Industrial Components

bellows, diaphragms, valve seats, O rings, wheels, rubber extrusions and much more

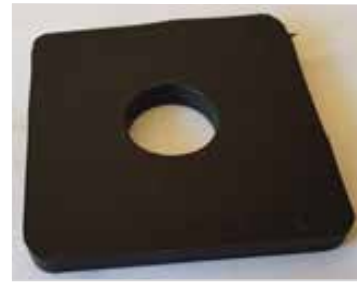


Architectural Fittings

Door stops, bearing pads, furniture fittings and much more



Rubber Compression Molding parts



Engineering Process in Rubber Compression Molds

Successful conversion of vulcanized rubber ensures optimal product performance. Key aspects our Engineers consider:

- Flexibility
- Pressure
- Weight
- Thermal decoupling
- Vibration dampening
- Mechanical properties

Using CAD and 3D modeling, we

- Accurately calculate rubber volume
- Optimize material use to reduce costs without sacrificing performance
- Speed up quoting and production times for faster delivery



Benefits of Compression Molding:

- The capacity to process stiff, high durometer materials
- Ideal for large parts that require a long cure time
- Maximized cavity count
- Lowest cost Tooling
- Lowest lead time
- Easier to Prototype
- Widest range of part sizes

Downsides of Compression Molding:

- Produces only intermediate tolerances
- Parts may require deflashing
- Longer cycle times
- Mid-range precision and consistency

Rubber Extrusion



Rubber Extrusion Advantages:

- Huge variety of shapes
- Economical process
- Flexible and lightweight products
- Minimal wasted material
- Highly efficient process



Quality Control Parameters in Rubber Molding

- **Compression Force:** Monitors molding pressure to ensure compliance with ASTM D-1054 for measuring rubber compression characteristics.
- **Temperature Control:** Maintains consistent heating in the compression chamber per ASTM D-2000 for automotive rubber material requirements.
- **Cycle Time:** Evaluates molding duration for efficiency, adhering to DIN 7716 guidelines for rubber production and processing.
- **Material Flow Rate:** Assesses extrusion flow rate to ensure optimal conditions, in accordance with ASTM D-2230 for rubber extrusion characteristics.
- **Curing Time:** Measures the curing duration following ASTM D-3182 standards for rubber compounding and curing procedures.
- **Dimensional Tolerances:** Confirms compliance with specified tolerances, referencing ASTM D-3574 for test methods ensuring dimensional consistency and quality.



All tools are manufactured to the highest standards, with a customized validation process that includes dimension checks, fit assessments, specification reports, chemical analysis, and mechanical testing, allowing us to manage projects of any size and scope



Thinking Manufacturing In India?

THINK EVANTLIS

Thank you for considering Evantlis as your manufacturing partner, dedicated to precision and performance

Connect with Us

For quotes, consultations, or samples, please contact us at:

Evantlis Engineering

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Whatsapp Chat



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