

Fasteners and assemblies for Transportation and Electrical



Plants & Processes

Lansing, Michigan, US

3340 Pinetree Rd
Lansing, Michigan, US

Products

Bolts, Screws, Compression
Limiters, Switchgear, Reusable
Automotive Racks

Processes

Design Engineering
Prototyping
Cold forming
Thread Rolling
Fabrication Welding
Assembly
Sewing



Cold Forming & CNC

Precision and critical screws and bolts for transportation and electrical industry. Sensor housings for multinational corporations.

Punjab, India



Rack Fabrication

Steel Racks for IP, Doors.
Bag Racks for Class A plastic.

Lansing, Michigan, US



Cold formed parts and extrusions

Steel parts

Ideal for bushings, flanges, and gear profiles



Problem

Reduce cost and weight of high volume machined production parts

Solution

Cold formed parts up to 32mm in diameter
Upto 4" in length
High volume steel parts
Heat treated
Meet tensile strength of grades 4.8, 8.8, 10.9, 12.9
All automotive coatings to 1000 Hours Salt Spray



Automotive Bolts and Studs

Metal Threaded Fasteners

Bolts
Weld studs, Dual ended studs
Bolt and Washer assemblies
Captive bolts

Problem

Anti-vibration
Thin materials
High corrosion resistance

Solution

- Thread patch, nylon inserts
- Large bearing area and washer assemblies
- Coatings upwards of 1000 Hrs Salt Spray
- GM, Ford, FCA, Toyota, Nissan, Caterpillar
- Finishes in e-coat, paint, and zinc nickel plating
- ROHS complaint reporting through IMD System
- Full lot traceability to mill heat certs



Compression Limiters

Problem

Glass filled plastics need to be protected from cracking under load when fastened with bolts M6 or greater in diameter

Solution

Compression limiters in steel, aluminum, and brass are readily available from tooled parts
Our high production runs lead to economical prices
Eliminate any cracking under load or in service
Studserts and bolts with captive compression limiters are used in oil pans and brake booster covers where bolts need to stay in place



Eisen LockInsert™

Problem

Bolts come loose over time due to vibration, heat cycling, and loss of clamp load. No reliable means of providing prevailing torque in joints where compression limiters are needed for plastic and aluminum fastening. Have to use more bolts to alleviate the problem.

Solution

Introducing the Eisen LockInsert™. Patent Pending. Now available in Steel, Brass, and Aluminum.

Stop bolts from creeping loose. Eisen LockInsert™ is a compression limiter that can be insert molded into plastic or press-fit into plastic and aluminum. It offers un-matched prevailing torque for critical attachments that experience varying dynamic loads, heat cycling, and vibration. It also reduces the number of bolts used, and assembly cycle time.



Pins and Shafts

Cold formed and machined

- Hinge pins for glove box and center console
- Pins for seat belt mechanisms
- License plate latch
- Handles and other latches

Problem

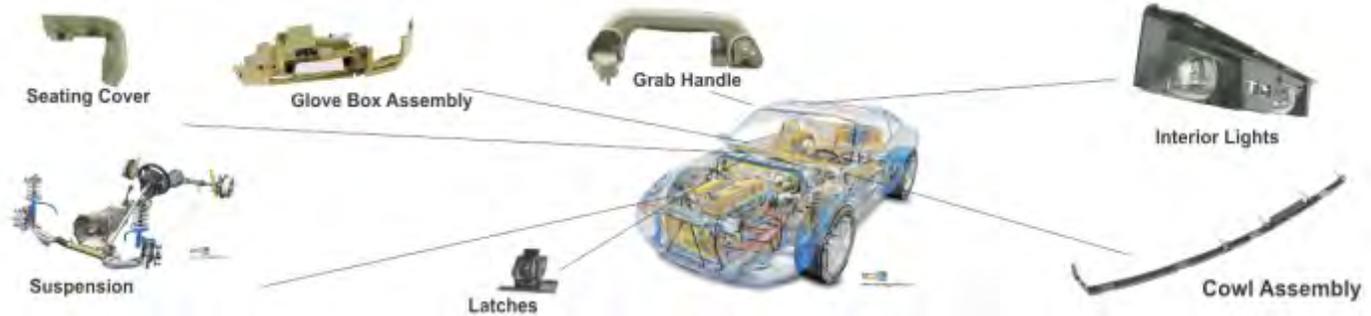
Produce high volume pins while keeping cost low, meeting corrosion, shear, and squeak requirements of vehicle exterior and interior parts

Solution

- Cold formed pins with and without heads
- Available in knurls for one sided install
- Many sizes already tooled
- Shear pins for seatbelt mechanisms
- Steel and stainless steel pins
- Epoxy and Teflon coatings eliminate squeak



Screws for plastic



Problem

- Low profile heads
- Boss stripping
- Need positive bit engagement
- Need high run rate

Solution

- Thread forming screws
- High-Low thread screws
- Screws with washer
- M4.5 screw replaces M4 & M4.2
- Automotive finishes 200-1000 Hours Salt Spray



Tolerance Compensators

Insert and Rivet types

Tolerance compensator is a two or three piece assembly that allows for 1/2" tolerance compensation when assembling large assemblies in tight spaces such as Instrument Panel in white body, or oil pan under-hood



Problem

A single fastener assembly that will expand by 1/2" to fit same length bolt.

Solution

Introducing our M6 & M8 tolerance compensators
Offered as molded inserts, clips, and rivets



Valves and Pumps Parts

Ideal for upstream, midstream and downstream oil & gas operations, petrochemical operations, and any high flow application in a harsh environment

SS316 Machined Parts and Pipe plugs



PED Fittings and Accessories

Pressure equipment directive compliant fully traceable studs, nuts, and fittings, each part coded with heat numbers

B7, B8 Studs and Nuts



Electricals Screws

Made to the industry's highest standards, UL 486A and 486B, Termilock™ Terminal Screws are made to withstand Underwriters Laboratories' torque, secureness, and pullout tests under the provisions of both UL 486 and IEC 60999.

Termilock™ Screws - Steel & Stainless



Current Carrying Devices

Disconnects for machinery and military. Terminal blocks with wiring pigtails. Our design team will reduce your cost by sourcing from the best global suppliers and stocking locally near your manufacturing facility.

Disconnects and Terminal Blocks



Mechanical Assemblies

Mechanical assemblies are made at Lansing plant and off-shore locations. Prototypes, low volume runs, or high volume labor intensive parts.

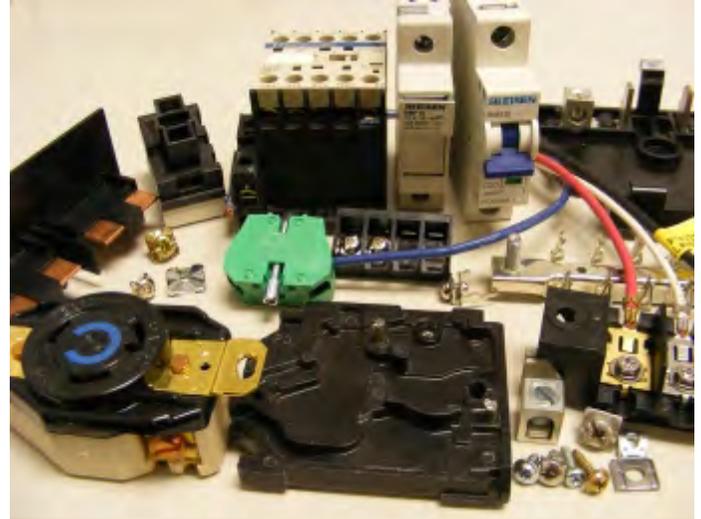
Welded or assembled parts



Electrical Assemblies

Eisen offers electrical sub-assemblies locally. These are produced at our off-shore plant in India to help reduce cost.

Electric blocks, switches, terminals



Vendor Managed Inventory

C-Class hardware and assemblies

Problem

Purchasing and managing the exact amount of inventory needed for a flexible and ever changing production schedule is complicated and labor intensive.

Kanban System

The kanban bin is one of at least two identical bins for a particular part. The pull process begins when one empty bin is returned to the supplier, while the second bin is being consumed.



Service level agreement
(SLA)



Install racks and bins
directly into production area



Initial stock is supplied



Company

Location and Product Lines

NORTH AMERICA

Eisen Electric Corporation
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Product Specialization

Design, manufacture, supply of engineered fasteners, mechanical assemblies, switchgear components, and fabricated racks. Offering both in-house manufacturing and from off-shore plants with local warehousing.

Company Information

Established: 1994
Total Sq Ft: 20,000

- Global presence: Yes
- In-house design and prototyping
- ISO 9001:2015
- UL 508

