

Engineered Fasteners 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



 **EISEN**

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

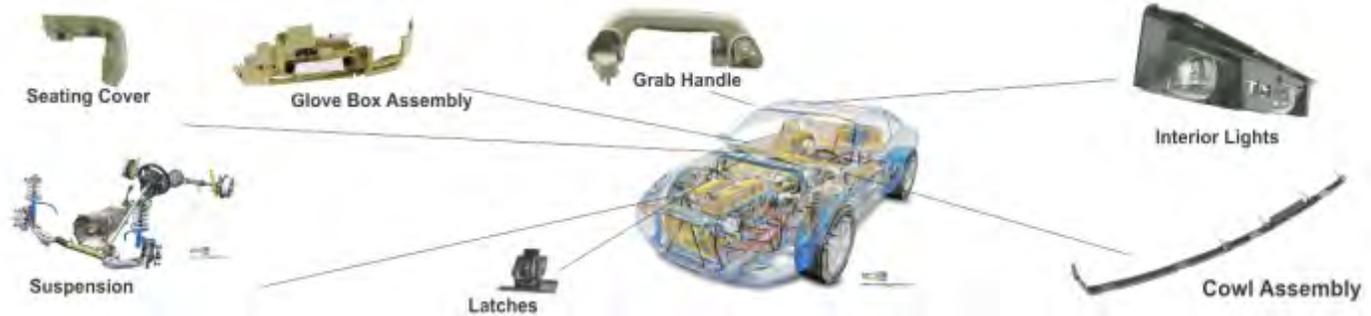
Shear pins for seatbelt mechanisms

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 parts with 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.

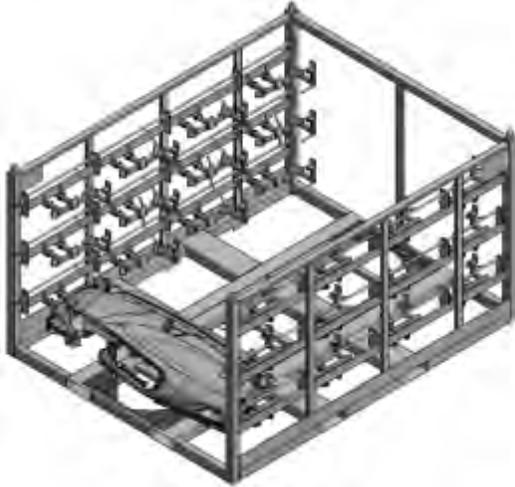
Disconnects and Terminal Blocks



Steel Racks

Unique NAFTA footprint through our alliance partners provides our customers lower cost and better lead times for their reusable packaging needs. Steel rack experience with Instrument Panels, Doors, Glass, and Robotic Handling.

Steel Racks for IP



Bag Racks

Experience with bag racks for door panels, A,B,C&D Pillar, Headliner, IP Substrate, Center Console, HVAC, Fascia Trim.

Bag Racks for Class A surfaces

