

The background of the image is a 3D grid of cubes. The cubes are arranged in a staggered pattern, creating a sense of depth. The cubes are colored in two shades: black and a vibrant blue. The lighting is dramatic, with strong highlights on the top surfaces of the cubes and deep shadows in the recesses, giving the grid a textured, almost crystalline appearance. The overall color palette is dark, with the blue cubes providing a focal point of color.

I:ME

Innovative Manufacturing Engineering

## A Division of **AlphaUSA**

### **I:ME**

This company was created when AlphaUSA spun off its award winning engineering group into its own independent division.

Our accomplished team of engineers have created seven completely new product design standards in fastening technology.

We have designed, developed, prototyped and produced successful fastening systems for securing aluminum to steel in vehicle weight reduction efforts.

We have created unique and effective products that are resistant to the effects of ballistic events. These products represent a significant advancement in the design of engineered armor integration.

We offer our customers resident or contract design support, VA/VE services, complete fastener testing laboratory services, additive manufacturing (3D printing & DMSL), prototyping, fabrication and production.

We provide expert program management, product launch support and field service support.

## **I:ME**

We are an experienced design, product development, prototype and production based manufacturing company.

Our specialty is in expertly engineered fastening and robust structural systems for severe duty environments.

Across the globe each day our products are in use saving assembly cost, providing assurance of joint tension, preventing warranty costs and simplifying inspection processes.

We are experts in vehicle light weighting having designed structural and fastening systems in applications from the GM EV-1 electric vehicle through the aluminum bodied Ford F-Series trucks.

We offer exceptional products for resistance to vibration loosening, thermal cycling, salt or extreme chemical environments and assurance of structural integrity in working with light weighting materials.

Innovative Manufacturing Engineering continues to develop unique solutions in support of the Automotive industry and are very active in the Defense, Energy, Telecommunications and Civil Engineering fields.

**I:ME**

We are a Veteran Owned Small Business (**VOSB**)

We are **ITAR** registered

Our Cage Code number is **7GQY1**

Our business system is registered to **TS-16949**

Our manufacturing operations are registered to **ISO-14001** for environmental compliance

Each of our two inspection laboratories are registered to **ISO-17025**

Our full service fastener testing laboratory is **A2LA** accredited

Our employees are continually trained as technical professionals

Our facilities and equipment are maintained to world class manufacturing standards

We are very active in our community working continuously for student technical training



Our WEST facility:

- Metal stamping
- Die design
- Die construction
- Laboratory services
- Customer service
- Product estimating
- Material purchasing
- Metal stamping
- Fabrication
- Maintenance
- Logistics
- Human resources



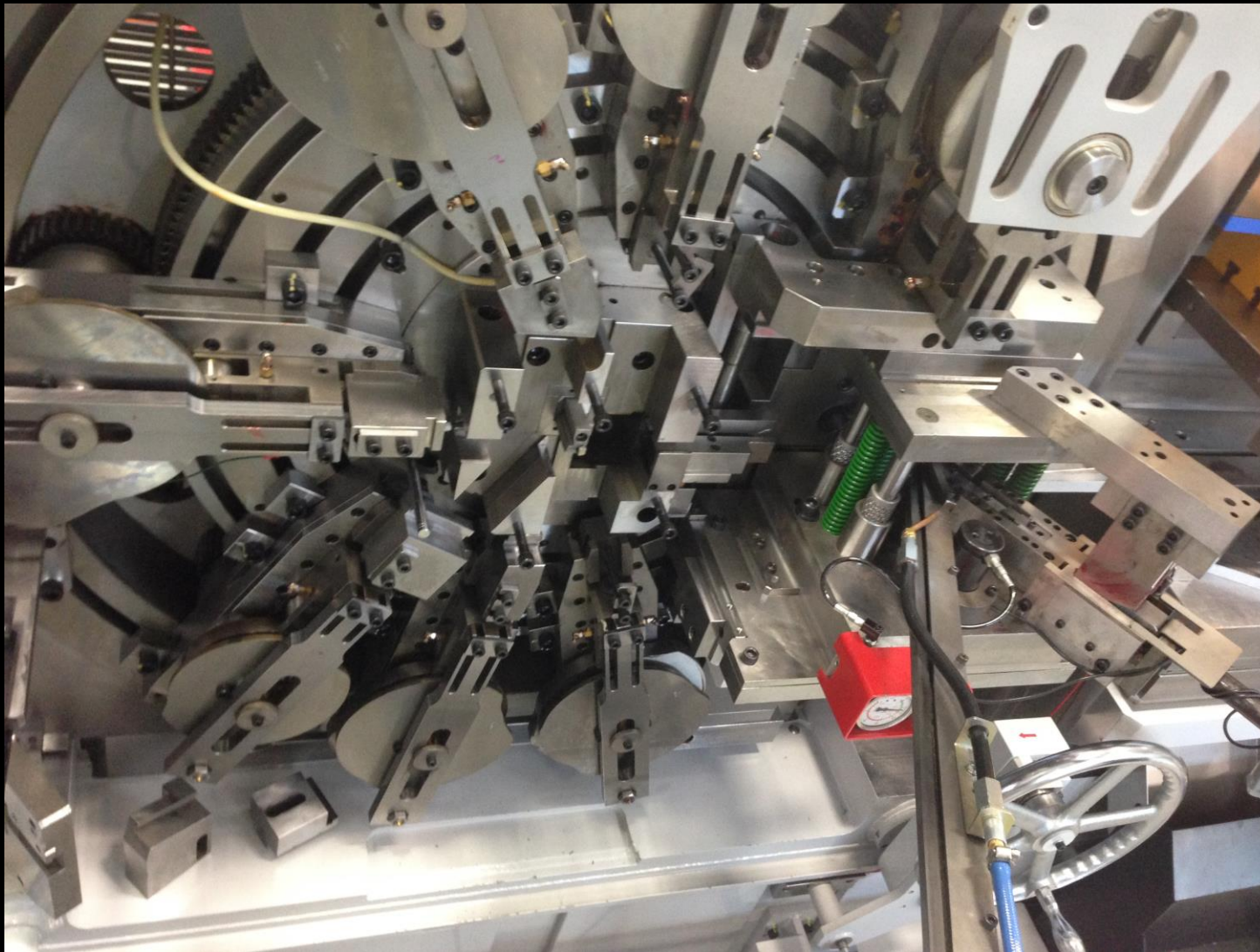
## Our EAST facility:

- Engineering design
- Product development
- Program management
- Fastener Engineering
- Information Technologies
- Accounting
- Laboratory services
- Automated manufacturing
- Additive manufacturing
- Fabrication
- Machine construction
- Welding & Joining
- Maintenance
- Technical Sales



### Design facility:

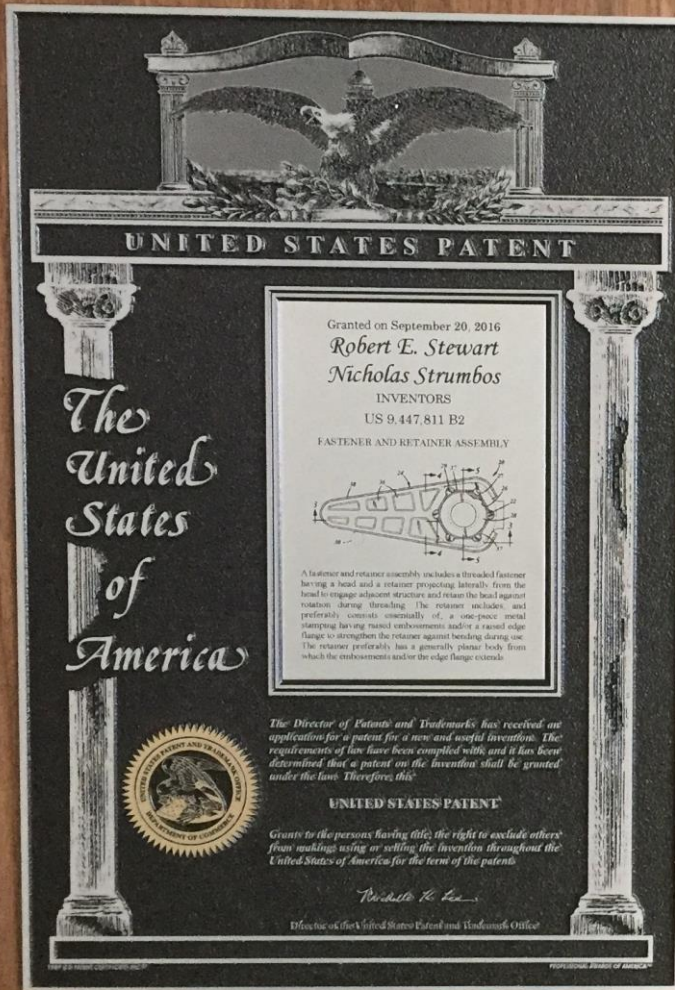
- CATIA software
- NX software
- HyperWorks
- Dimension
- FastBLANK
- Autodesk Inventor
- DATUM 5i
- Labmaster Pro
- Keyence IM-7000
- Spectrum
- PC-DMIS
- PLEX process mgmt



## Production Design:

- Radial forming
- Stamping press
- Fastener automation
- Part assembly
- Form tooling
- Die design
- Inspection fixtures
- Part validation





## Our 24 PATENTS:

- Severe duty fastening
- Joint tension assurance
- Structural lightweighting
- Drive by wire braking
- Thermal insulator attach
- Tethered fasteners
- Fuel cell protection
- HD suspension adjust
- Aluminum to steel fastening system

Many of these products have now become accepted as industry standards.



## Defense Industry:

- Lightweighting
- Survivability engineering
- Enhanced Track vehicle durability
- Extreme duty fastener design
- Failure analysis
- Armor attachment
- Communication system attachment
- Ballistic Reaction devices
- Tension assurance



## CIVIL ENGINEERING:

- Extreme duty fastener design
- Bridge connections
- Building structural connections
- Railway connections
- Signage attachments
- Guard rail connections
- Toll structure
- Bus Stop Structure
- Billboard structure
- Tension assurance
- Tension verification



## PIPELINE:

- Natural gas
- Flammable liquid
- Corrosives
- Pressure vessels
- Support structure
- Storage tanks
- Visual verification
- Touch verification
- Ratchet lock

Simplified tension assurance and verification systems



## ENERGY Industry:

- Towers for power transmission
- Solar collectors
- Photovoltaic collectors
- Steel power pole connections
- Municipal lighting
- Fasteners to resist thermal cycling
- Visual verification
- Touch verification
- Ratchet lock

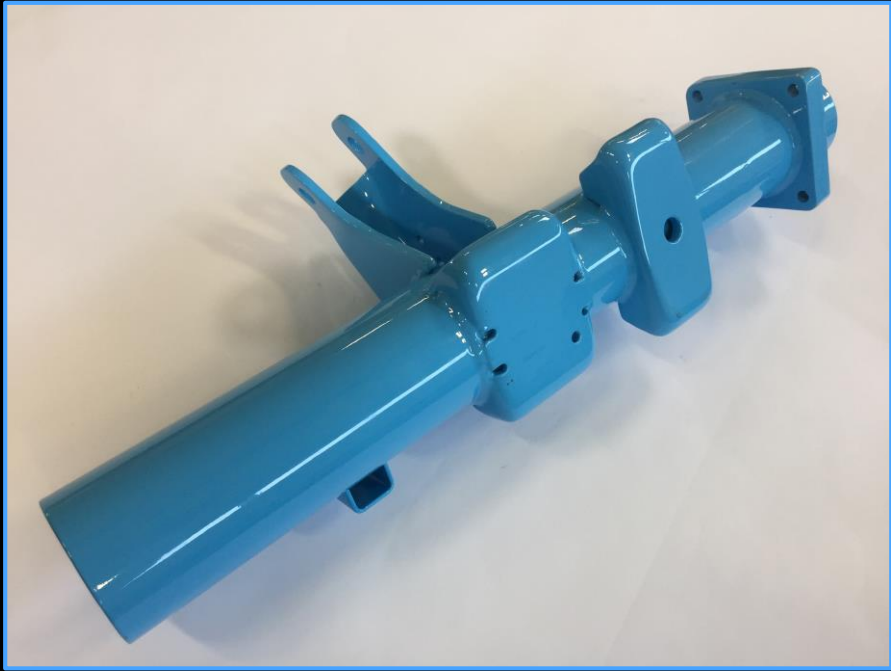
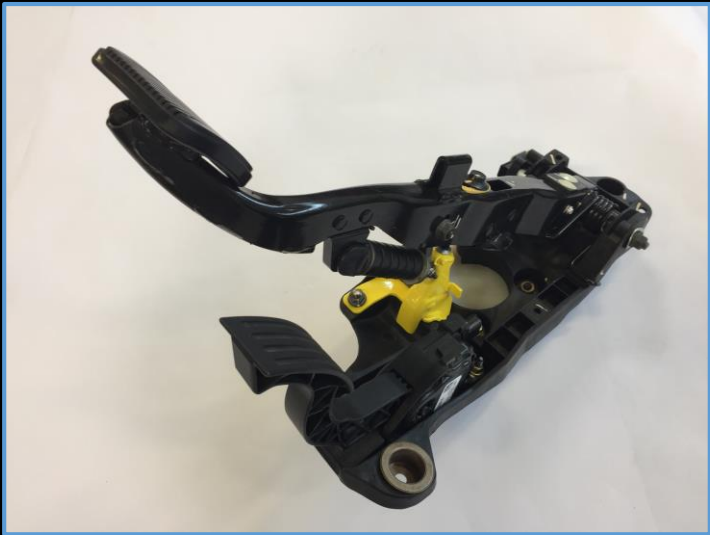
Simplified tension assurance and verification systems



World Class MANUFACTURING FACILITIES:

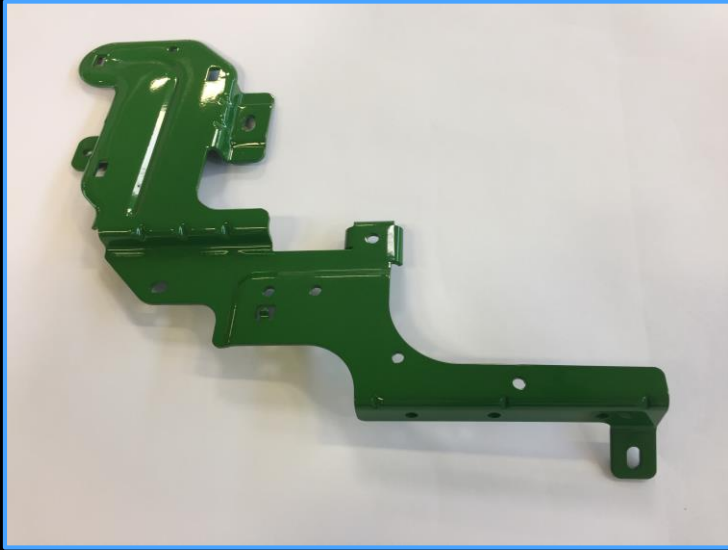


World Class MANUFACTURING FACILITIES:

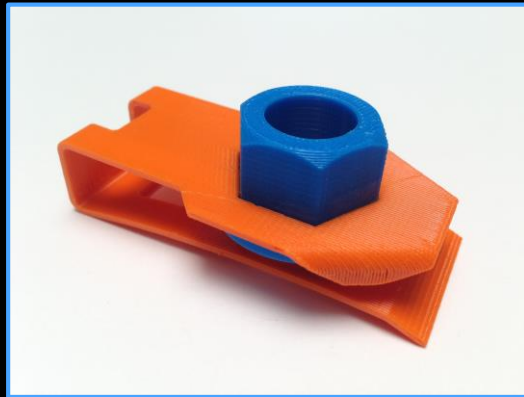
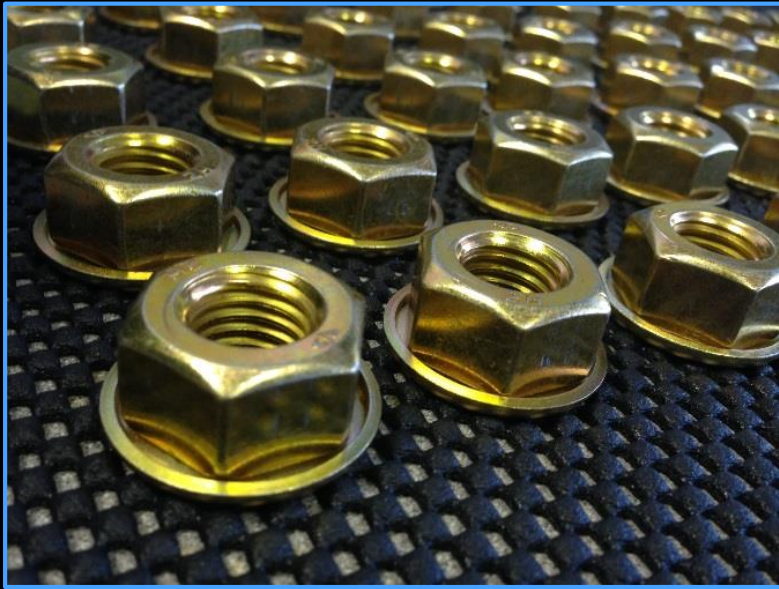


World Class PRODUCTS:





World Class PRODUCTS:



World Class PRODUCTS:



Encouraging Technical Education in our COMMUNITY :



Our Quality Assurance AFFILIATIONS:



OAKLAND  
UNIVERSITY™



**DATC**  
DEFENSE AUTOMOTIVE  
TECHNOLOGIES CONSORTIUM



**GENERAL DYNAMICS**  
Land Systems



**NDIA**  
National Defense Industrial Association

**FCA**  
FIAT CHRYSLER AUTOMOBILES

Some of our Business AFFILIATIONS:



INNOVATIVE MANUFACTURING ENGINEERING

32711 Glendale Ave.

Livonia, MI 48150-1611

734.466.8714 [primary](tel:734.466.8714)

Our Michigan [CONTACT INFORMATION](#):



The background of the image is a 3D grid of cubes. The cubes are arranged in a staggered pattern, creating a sense of depth. The cubes are colored in two shades: black and a vibrant blue. The lighting is dramatic, with strong highlights on the top surfaces of the cubes and deep shadows in the recesses, giving the grid a textured, almost crystalline appearance. The overall color palette is dark, with the blue cubes providing a focal point of color.

I:ME

Innovative Manufacturing Engineering