

TUTAMEN

2019 CORPORATE OVERVIEW





We are an industry leader in engineering, manufacturing, and product development.



California, USA

US partner for additional support

Tijuana, Mexico

4 Plastic Injection Mold & 4 5-Axis
Machining (Dependent on Demand)
Enhanced assembly operation to cover
Electronic Sub-Assy

Huizhou - 50,000 sq. ft.
CNC Machining Facility

Tangxia, Dongguan (HQ) -
100,000 sq. ft. CNC Machining
& Injection Mold Making +
50,000sq. Ft .Metal Stamping



OUR CERTIFICATIONS

- ISO 9001 - China & Mexico
- AS9100 - China
- ETL - China & Mexico
- ISO 13485 - China
(Medical)

OUR 300+ WORKFORCE COMPRISES OF THE FOLLOWING TEAMS:



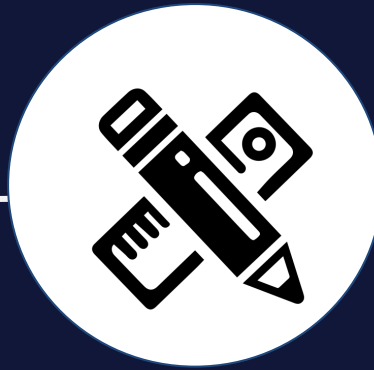
ENGINEERING



PRODUCTION



QUALITY
CONTROL



RESEARCH
& DESIGN

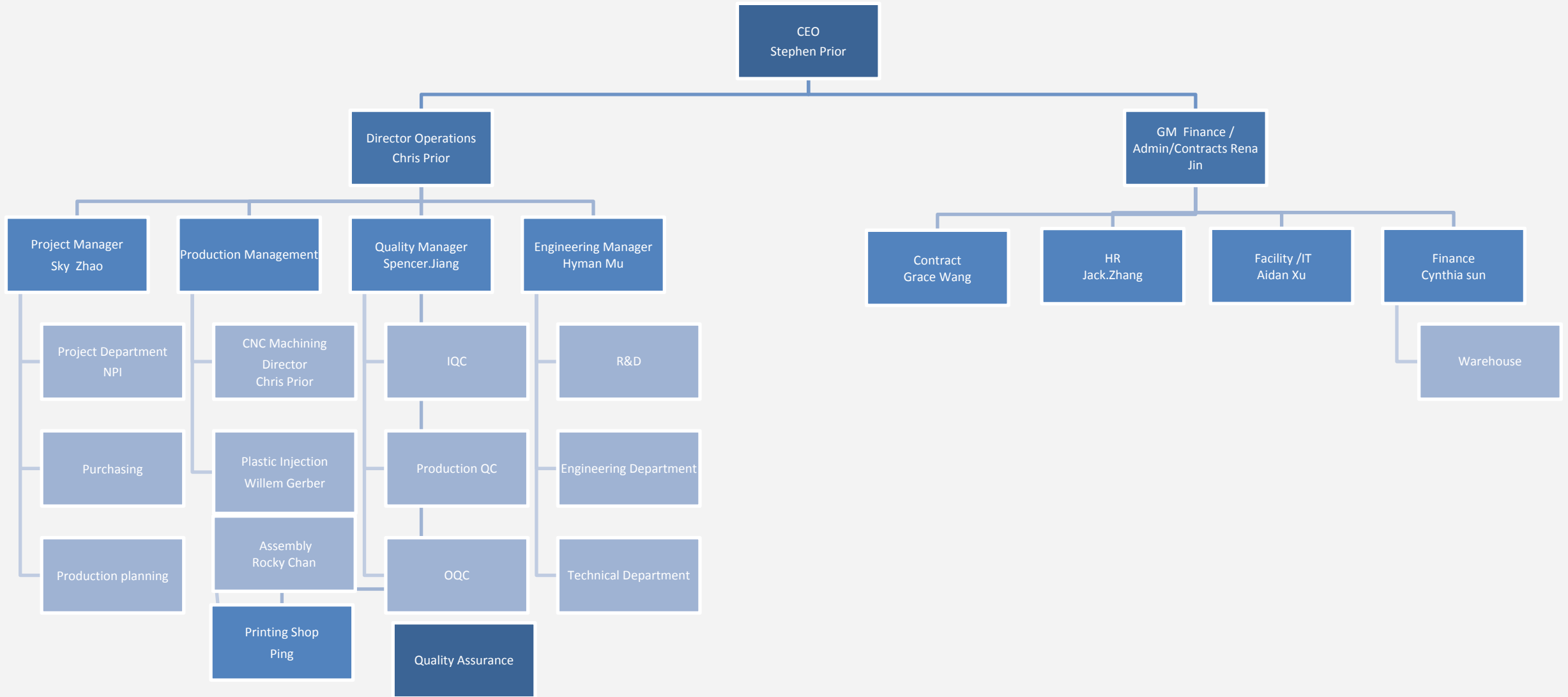


PROJECT
MANAGEMENT



CUSTOMER
SERVICE

ORGANOGRAM



OUR HAPPY CLIENTS



SERVICES OVERVIEW



Our product development services include:

- Product Design
- Research & Development
- Reverse Engineering
- Concept 3D Design
- Cost Reduction/Material Selection
- Tool Design & Creation
- Packaging Design
- Production & Assembly
- Prototyping
- Testing





DFM (design for manufacture) helps to identify potential problems and customer concerns before moving into production by proactively designing products to:

1. Optimize all manufacturing functions: fabrication, assembly, testing, procurement, shipping and delivery.
2. Assure the best cost, quality, reliability, regulatory compliance, safety, time-to-market, and customer satisfaction.
 - Product Design Review
 - Optimization For Volume Manufacturing
 - Manufacturing Process Research
 - Testing Plans

Complex multifaceted, high-precision parts are our specialty and we offer a wide range on precision machining solutions:

- Milling, Lathe Turning, 5-axis, CNC Swiss Machining, KNC.
- Riveting, Welding, Tapping, Drilling, Plating, Grinding, Threading.
- Inspection, Fixturing, Deburring, Marking.
- Automatic Screw Machining
- Can hold tight tolerances
- Capability to run 24 hours a day with three shifts in order to keep up with large volume orders and so we can quickly and efficiently respond to our customers demands, requirements and future needs. However we generally operate two shifts 22 hours a day.



Materials Offered

Aluminum

Carbon Steel:

- HRS
- CRS
- LCS
- HSLA

Stainless Steel

Irons

Magnesium & other Alloys

Secondary Services (In-house)

Sand Blasting/Polishing

Marking/Engraving

Epoxy Coating

Assembly/Packaging

Rapid Prototyping

Secondary Services (Partner)

Painting

Plating

Anodizing

Welding

Die casting

Grinding

Heat Treating

PVD

Quality/Testing

Non-Destructive Testing (NDT)

Detail & Fabrication

Component Assembly

Function

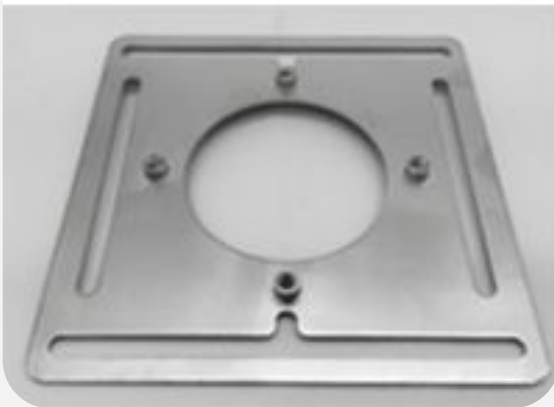
Certification of Materials & Processes

Coordinate Measuring Machines (CMM)



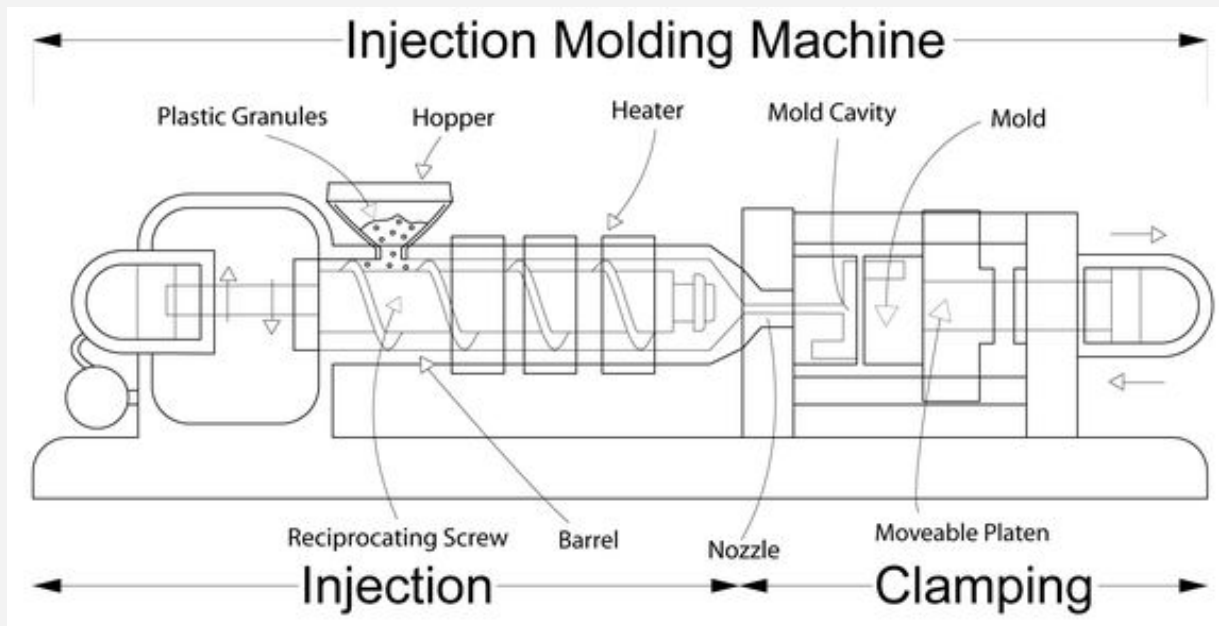
- Tutamen has acquired a Die Casting facility, capable of making tooling and production.
- Materials we work with include magnesium, aluminum and zinc.
- Tutamen engineers and QC team have implemented our high standards of production and worker safety procedures at this facility, as well as all necessary quality reports and processes.





- Design and build simple and complex progressive dies.
- ISO quality approval and commitment to skilled engineering, conformity, design and tooling fabrication.
- We have the capacity and the capability to mass-produce parts with excellent quality and short turn around.

- With in-house resources to design and manufacture plastic injection tools, we have a competitive edge in product understanding and adapting to new situations.
- Proficient operation standards have enabled us to run on high yield rates reducing waste and insuring reliable quality and quantity deliveries.
- Proven track record with color consistency.

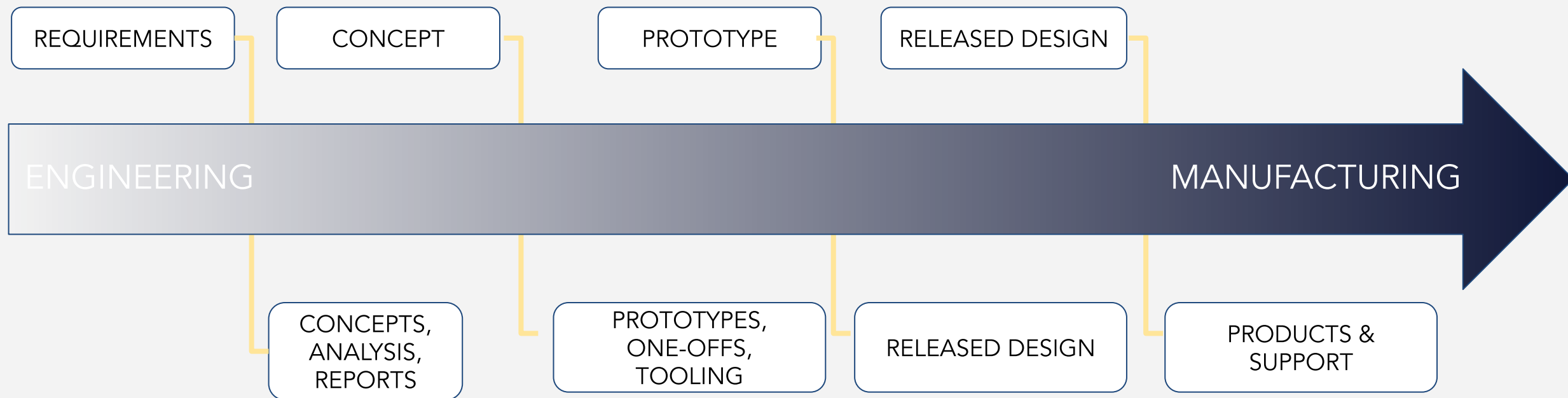


Industrial design and product engineering services are viewed at Tutamen as a visibly co-dependent and highly integrated phase of the product development process.

Design engineering encompasses overall concept development, creative design and product engineering relative to ergonomics, product architecture, design for manufacturing and product cost.

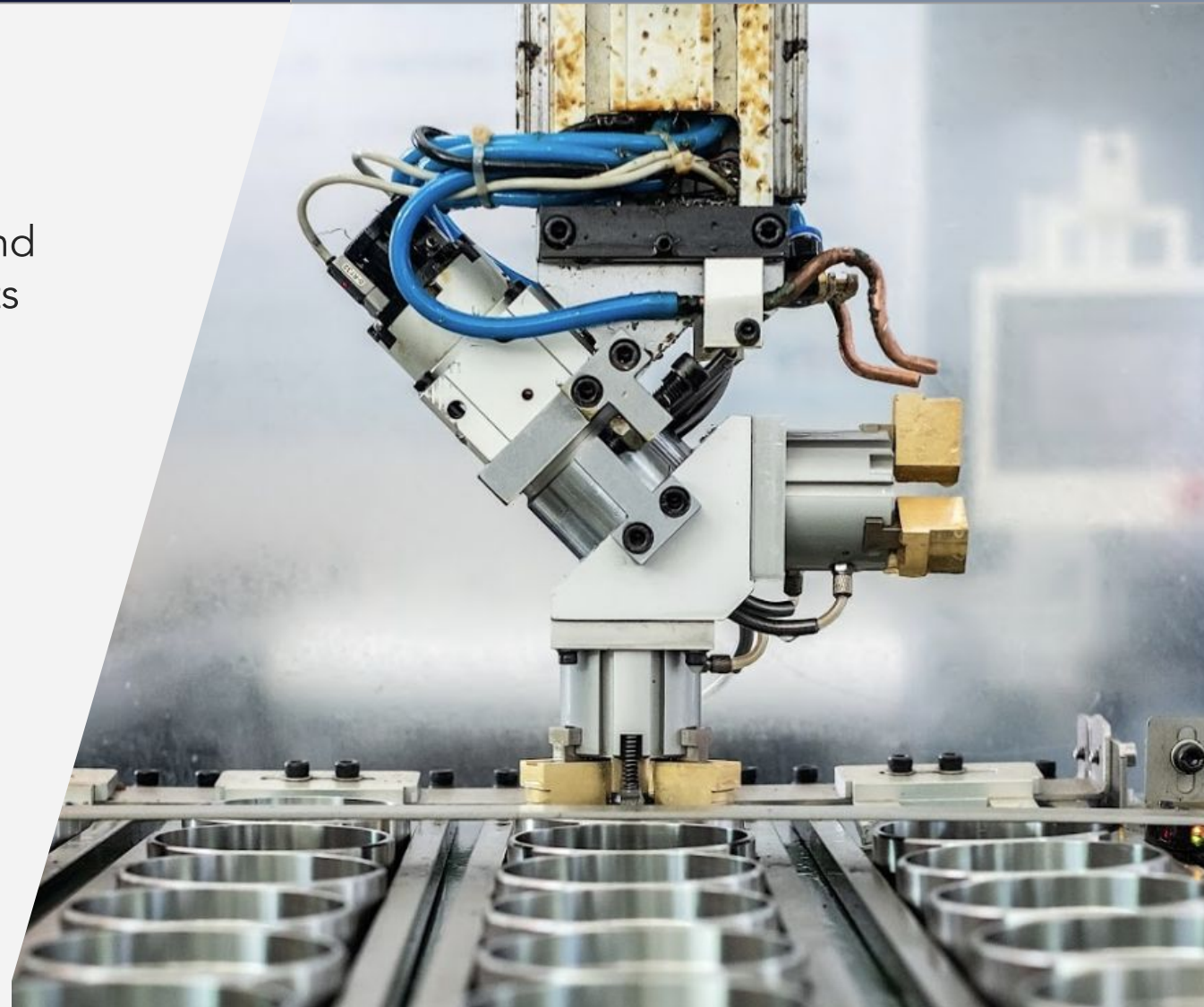
The goal is to develop innovative solutions based on the development of sound design criteria.





Our team excels at designing from the “ground up” and having experience of developing and optimizing clients products that have secured world wide patents.

- Concept Design/Development/Refinement
- Product Renderings
- Materials and Component Research & Recommendations
- 3D CAD Solid Modeling
- Mechanical Design Concepts
- Material Flow Optimization
- Failure Modes and Effects Analysis



Our scope of engineering includes:

- Part/assembly design
- Detailing
- Quoting
- Analysis for manufacturability

Through collaboration with customers, Tutamen engineers determine the most efficient means of manufacture while maintaining required tolerance and constantly pushing toward optimization.

We believe in early involvement to optimize cost and time-to-market.



METAL	AUTOMATION & FINISHING	PLASTICS
<ul style="list-style-type: none"> Beginning with solid models, we develop fixture designs, CNC programs, CMM programs and layouts all tied together electronically to prevent errors and ensure the highest quality. Our in-house fixture department produces high-quality work holding from solid model designs, reducing lead-time and supporting continuous improvement initiatives that reduce setup time and product manufacturing time. 	<ul style="list-style-type: none"> Our automation and finishing engineers work to minimize, as much as possible, human contact with the products with the goal of maximizing yield. This includes creating fixtures for mass production, experimenting with different finishing techniques (Sandblast, Laser Etch, Polishing, PVD, Anodize, Plating, etc.). 	<ul style="list-style-type: none"> Rapid Prototyping. In-house tool and mold design, and creation. Tooling for manufacturability & mold flow analysis. Mechanical design of plastic components Engineering staff dedicated to systems automation and robotic parts handling.



IN HOUSE CAPABILITIES	SUPPORTED BY PARTNERS
<ul style="list-style-type: none"> • Coating • Pad Printing • Silk Screening • Laser Etching • Polishing • Finish Machining • Honing • Burnishing • Deburring • Sand Blasting • Assembly • Labeling & Packaging • Calibration • Gluing & Bonding • Surface Treatments • Ultrasonic welding 	<ul style="list-style-type: none"> • Plating <ul style="list-style-type: none"> - Electroplating - Electroforming - Selective/Brush Plating • Surface Treatment <ul style="list-style-type: none"> - Anodizing - Hardening - Heat Treatment • Packaging <ul style="list-style-type: none"> - Customization - Design • Finish Machining <ul style="list-style-type: none"> - Lapping



- Highly trained quality engineers work closely with our assembly team to ensure customers get exactly what they need.
- Our assembly team is trained to follow a strict SIP (standard inspection procedure) and SOP (standard operating procedure), which allows us keep all cosmetic and measurement standards.

Tutamen Mexico

- Can provide you with component and sub-component assembly for your manufactured product.
- Electronic Sub-Assembly.
- Solutions can be configured to take advantage of equipment and materials in place.
- Some of the most sophisticated products being produced are manufactured in Mexico by a young, dynamic, and highly-skilled workforce.
- Tijuana has a large, growing pool of engineers, designers, and administrators to meet your assembly needs.



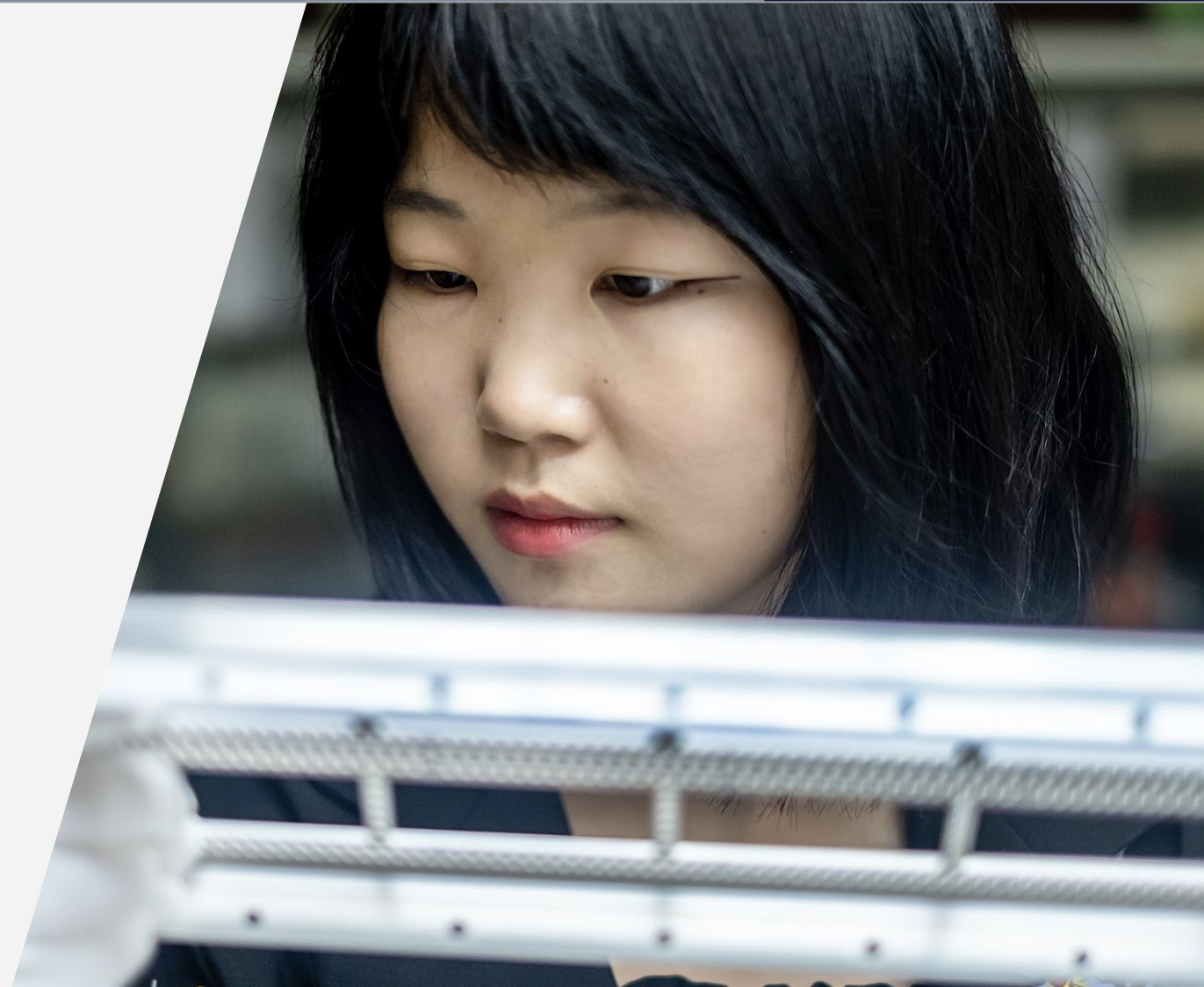
- At Tutamen, quality is one of the vital links with its customers. As such, Tutamen ensures the quality and reliability of its products by strictly controlling key design and manufacturing processes. Tutamen also works closely with internal & external component and material suppliers to ensure delivery of high quality products.
- All components and products are manufactured to industry and customer specific guidelines and the quality of our products is ensured by conducting thorough receiving and line inspections, along with pre-production and final assembly tests.
- Tutamen provides outstanding customer satisfaction by meeting or exceeding their expectations by continually benchmarking and improving upon these critical success factors while complying with Quality Management System Requirements:
 - Design Innovation (New Products/New Markets)
 - Product Design Reliability
 - Internal and External Service Levels
 - Customer Service



Our employees are trained to not only find flaws or defects on the QC line, but to also work closely with engineers and operators to solve any issues at the source.

Tutamen works with the customer at all stages of manufacturing providing detailed reports for all projects:

- DFM (Design for Manufacturability)
- SOP (Standard Operating Procedure)
- SIP (Standard Inspection Procedure)
- BOM (Bill of Material)
- FAI (First Article Inspection)
- FMEA (Failure Modes & Effects Analysis)
- Lot Code Traceability
- CAPA (Corrective Action/Preventative Action)



THANK YOU!

[Click Here To Request a Quote](#)

