



Tutamem (HK) Ltd
东莞彩美金属制品有限公司



TUTAMEN

TUTAMEN

Corporate Overview

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



USA

California

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

Mexico

China

Tangxia, Dongguan (HQ)

100,000 sq. ft. CNC Machining
& Injection Mold Making +
50,000sq. Ft Metal Stamping
50,000sq. Ft Die Casting



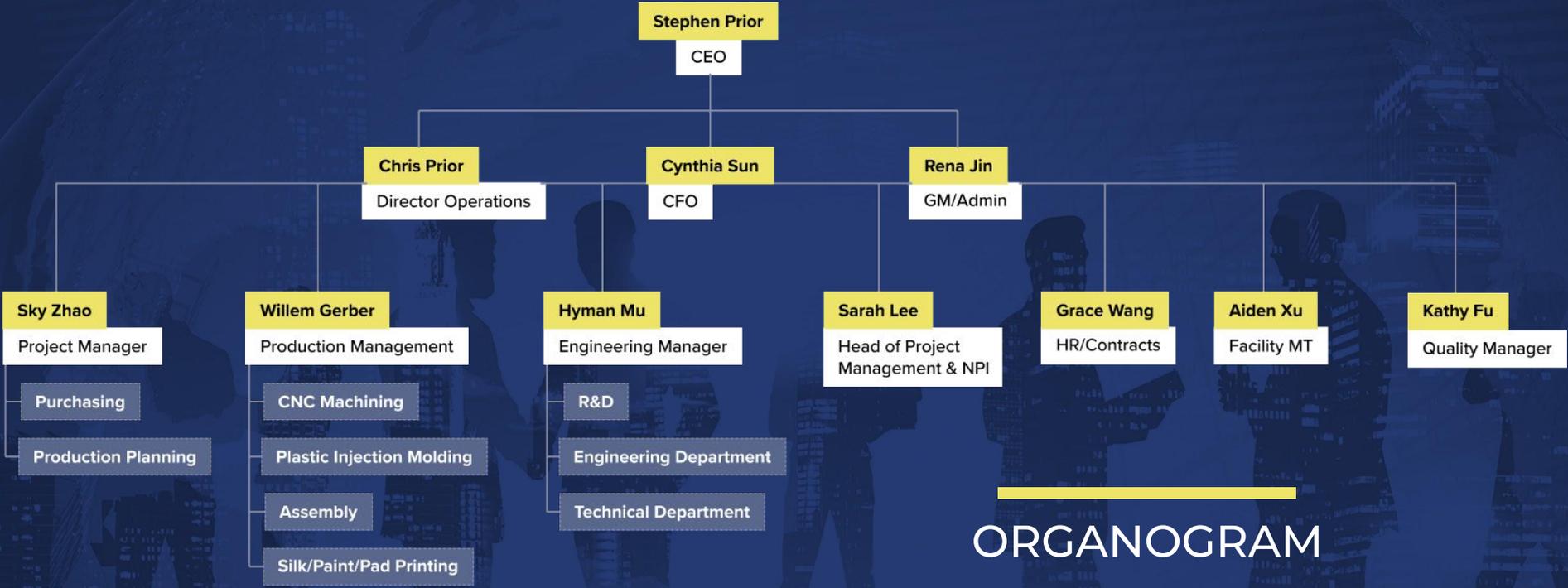
OUR CERTIFICATIONS

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



OUR 500+ WORKFORCE COMPRISES OF THE FOLLOWING TEAMS:





ORGANOGRAM

OUR HAPPY CLIENTS

JABIL

amazon

Stephen Gould

CYMER.

PEGATRON



JUNIPER
NETWORKS

Callaway

SMART.

VQ OrthoCare

BUSTER + PUNCH

FLEXTRONICS X

TaylorMade

Celestica

Titleist

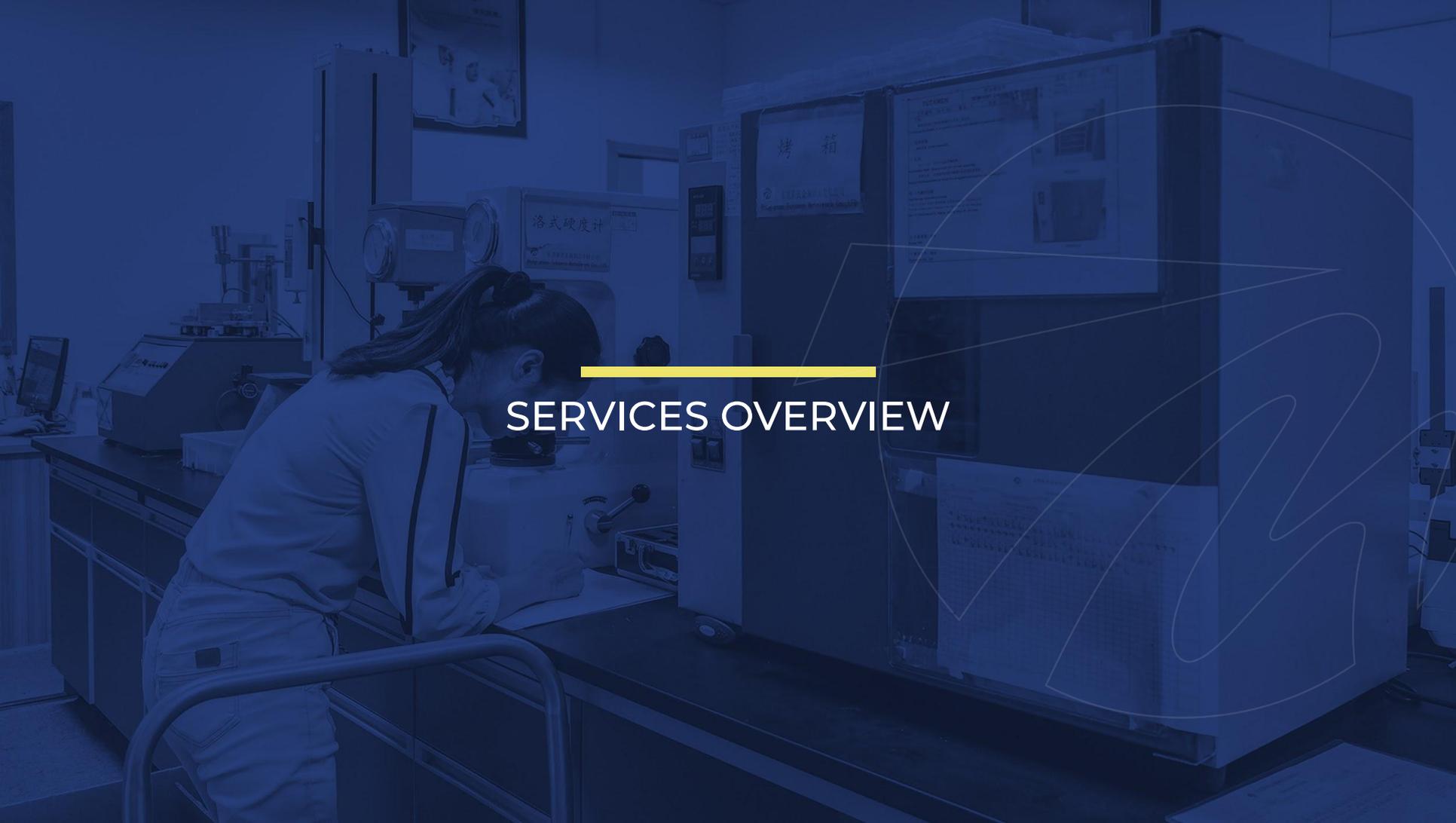
FOXCONN

PUMA

paloalto
NETWORKS

Google

stripe

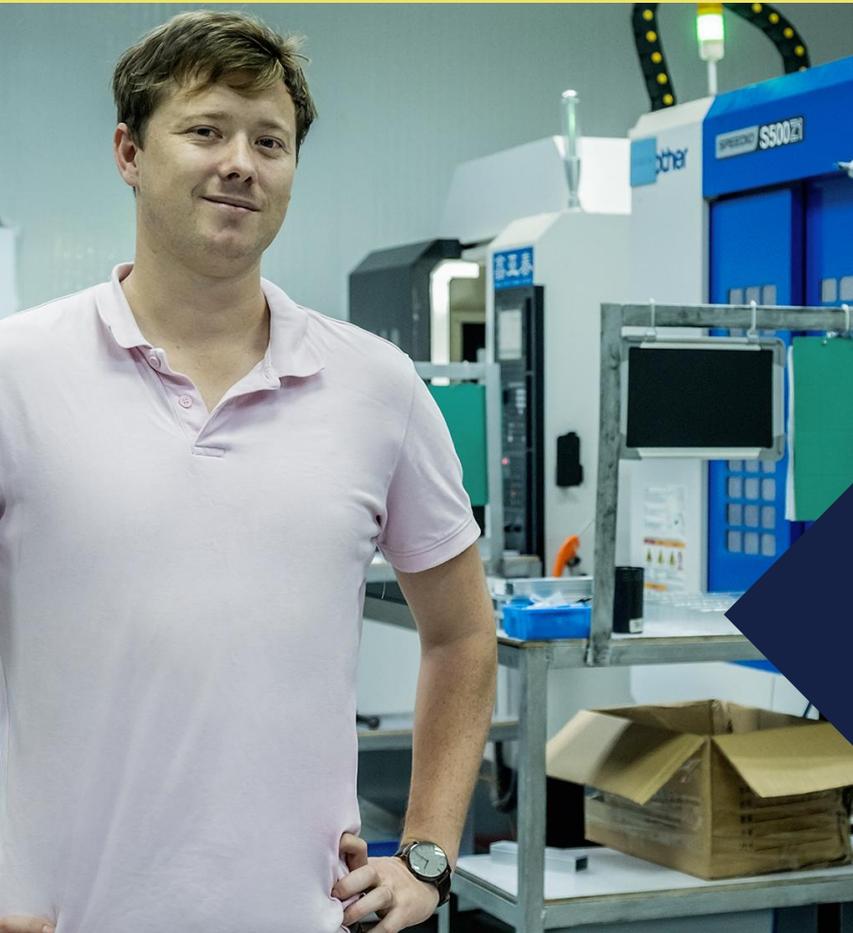


SERVICES OVERVIEW

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



Materials Offered

Aluminum

Carbon Steel:

- HRS
- CRS
- LCS
- HSLA

Stainless Steel

Irons

Magnesium & other Alloys

All plastic Resins

Secondary Services (In-house)

Sand Blasting/Polishing
Marking/Engraving
Epoxy Coating
Assembly/Packaging
Rapid Prototyping
Painting
Die casting
Lazer Etching
Heat Treating

Secondary Services (Partner)

Plating
Anodizing
Welding
Grinding
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. Tonnage ranging from 200 - 450 Tonnes
- 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.



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- 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.



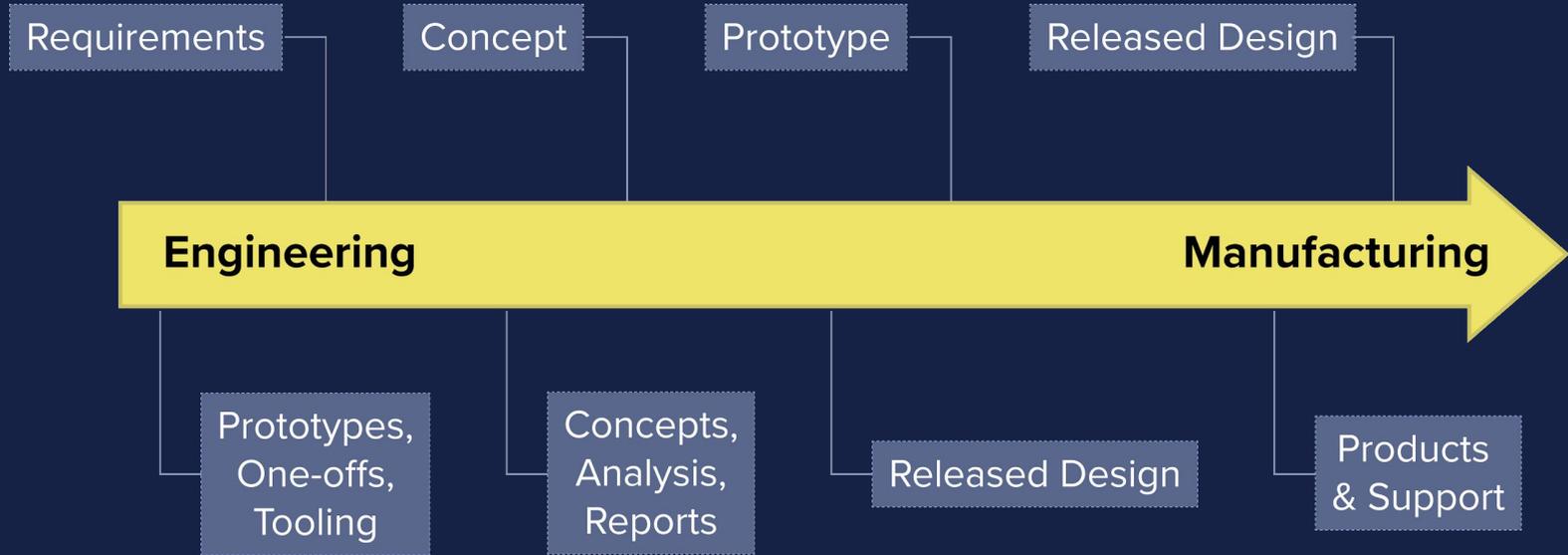
PRODUCT
DEVELOPMENT

MANUFACTURING

DESIGN &
ENGINEERING

SUPPORT
OPERATIONS

QUALITY
CONTROL





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

- 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.

AUTOMATION
& FINISHING

- 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.).

PLASTICS

- 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

- 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

SUPPORTED BY PARTNERS

- Plating
 - Electroplating
 - Electroforming
 - Selective/Brush Plating
- Surface Treatment
 - Anodizing
 - Hardening
 - Heat Treatment
- Packaging
 - Customization
 - Design
- Finish Machining
 - 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!

