
M AEROSPACE
RESEARCH & TECHNOLOGY CENTER

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About Us

We are an engineering company that helps companies develop projects with additive technology in composite materials, metals and thermoplastics assisted by Virtual Reality Systems using mechanical design, structural and thermal analysis. We assisted companies also on the development of new tools and machinery for their own requirements.

Our Goals

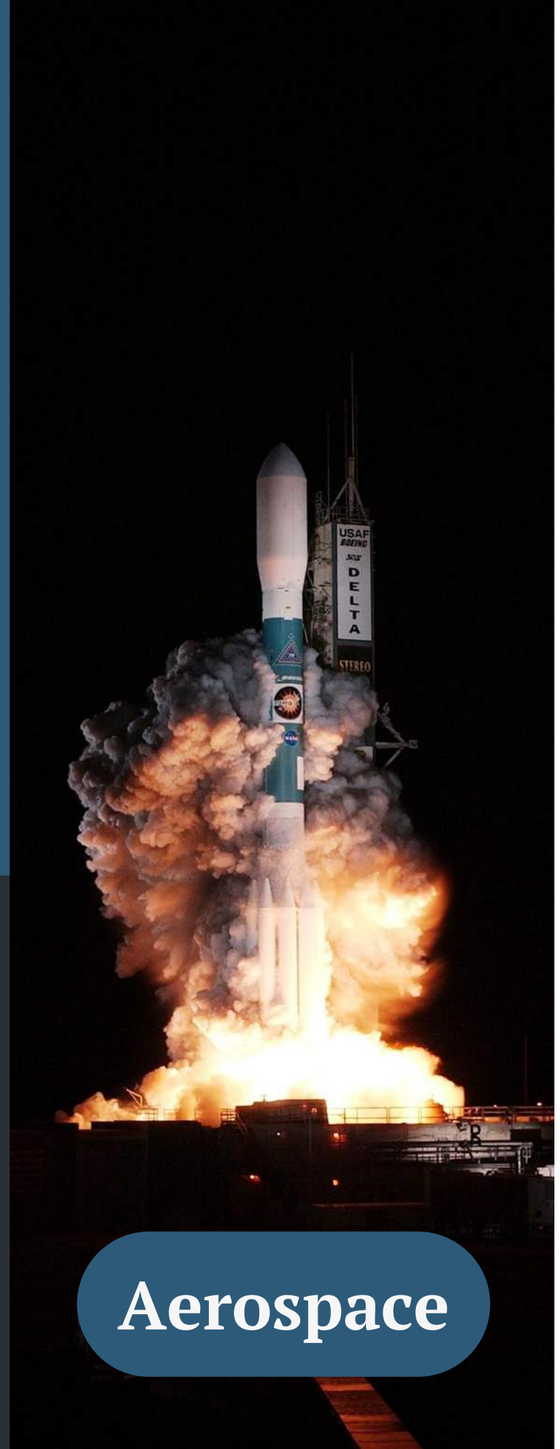
Vision

Consolidate as a leading company in the country in 5 years, in the field of additive manufacturing and virtual reality systems for the aerospace sector, using innovation as a vehicle to develop new ways to provide solutions to the sector.

Mission

To be leaders in research and development of the aerospace sector through the design, implementation, technological development and application of additive technology and virtual reality systems at international level.

Key Sectors

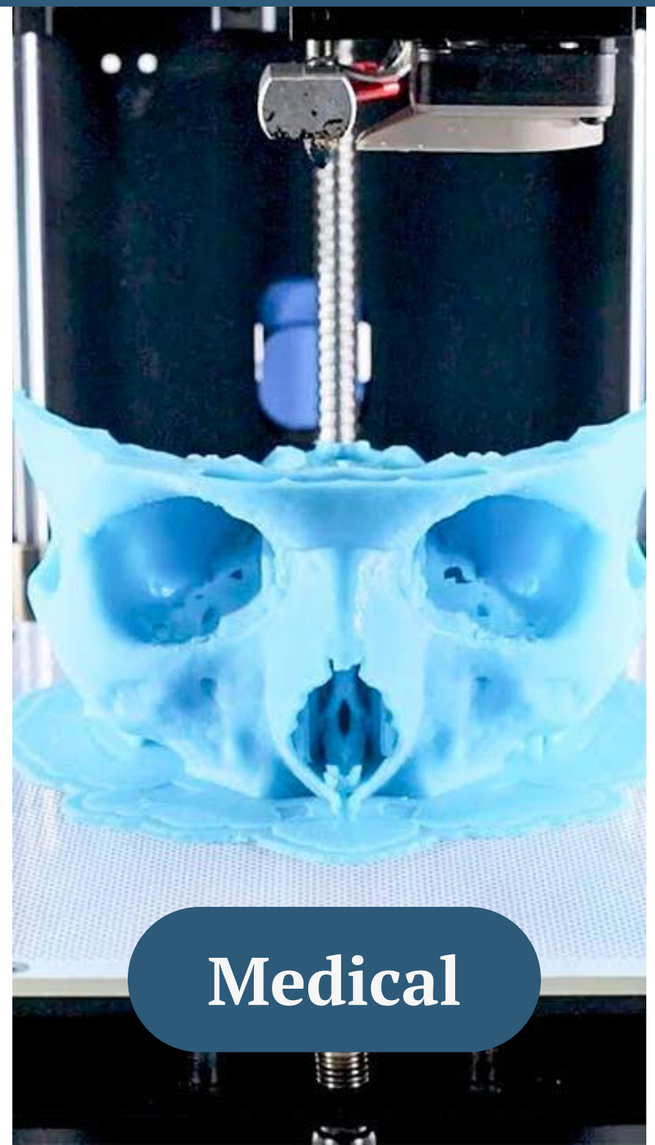


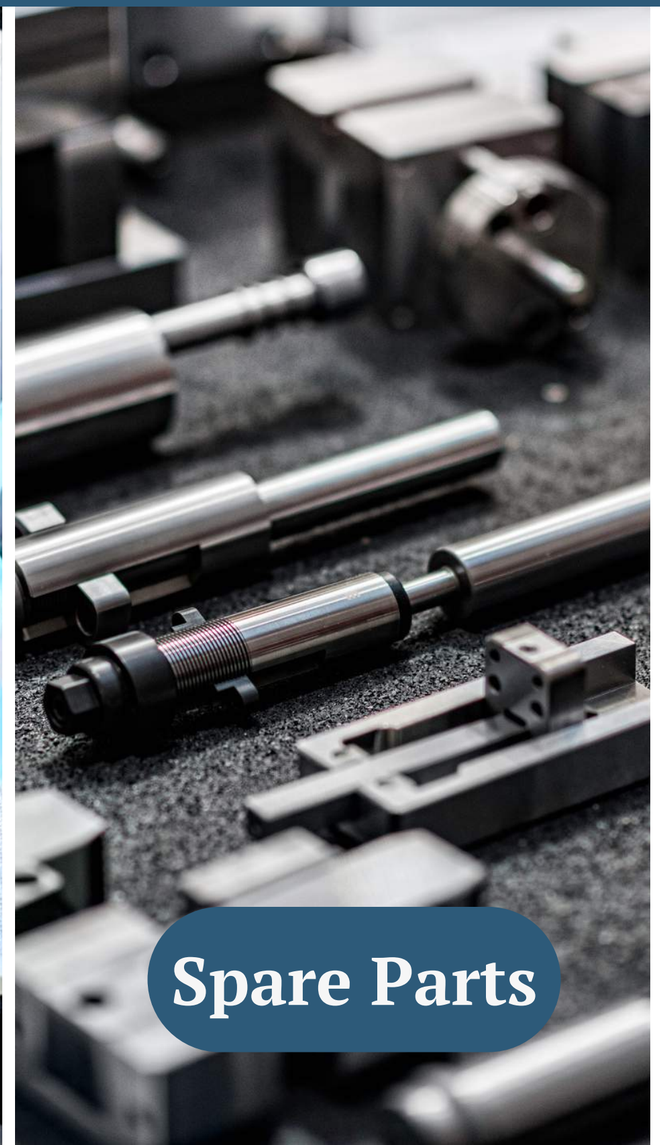
Aerospace

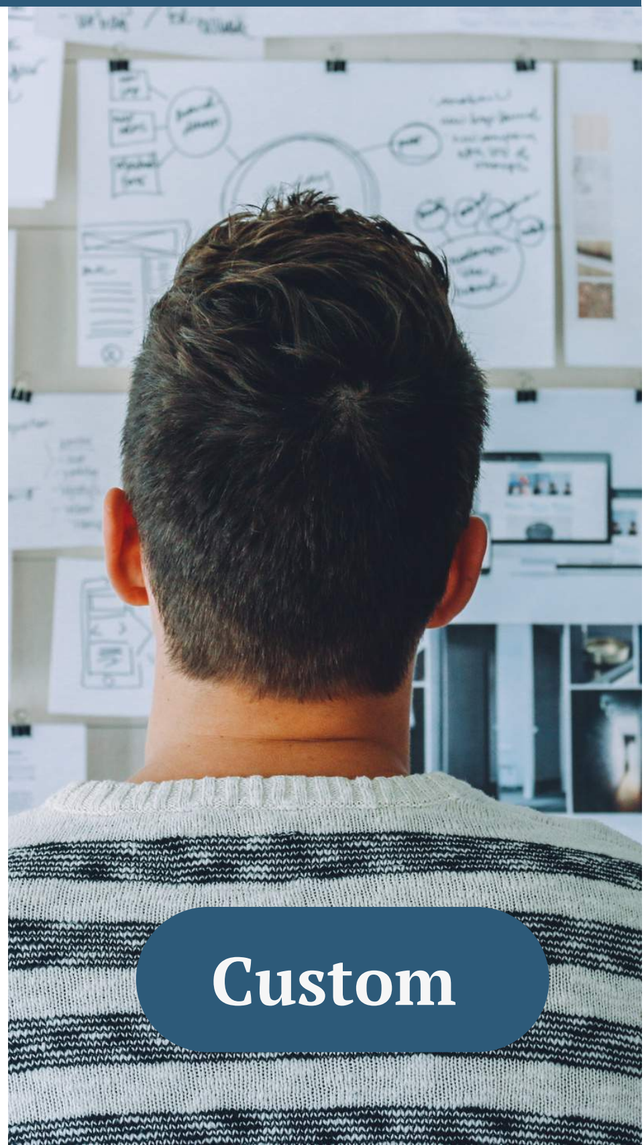
Automotive

Prototyping (Fixtures)

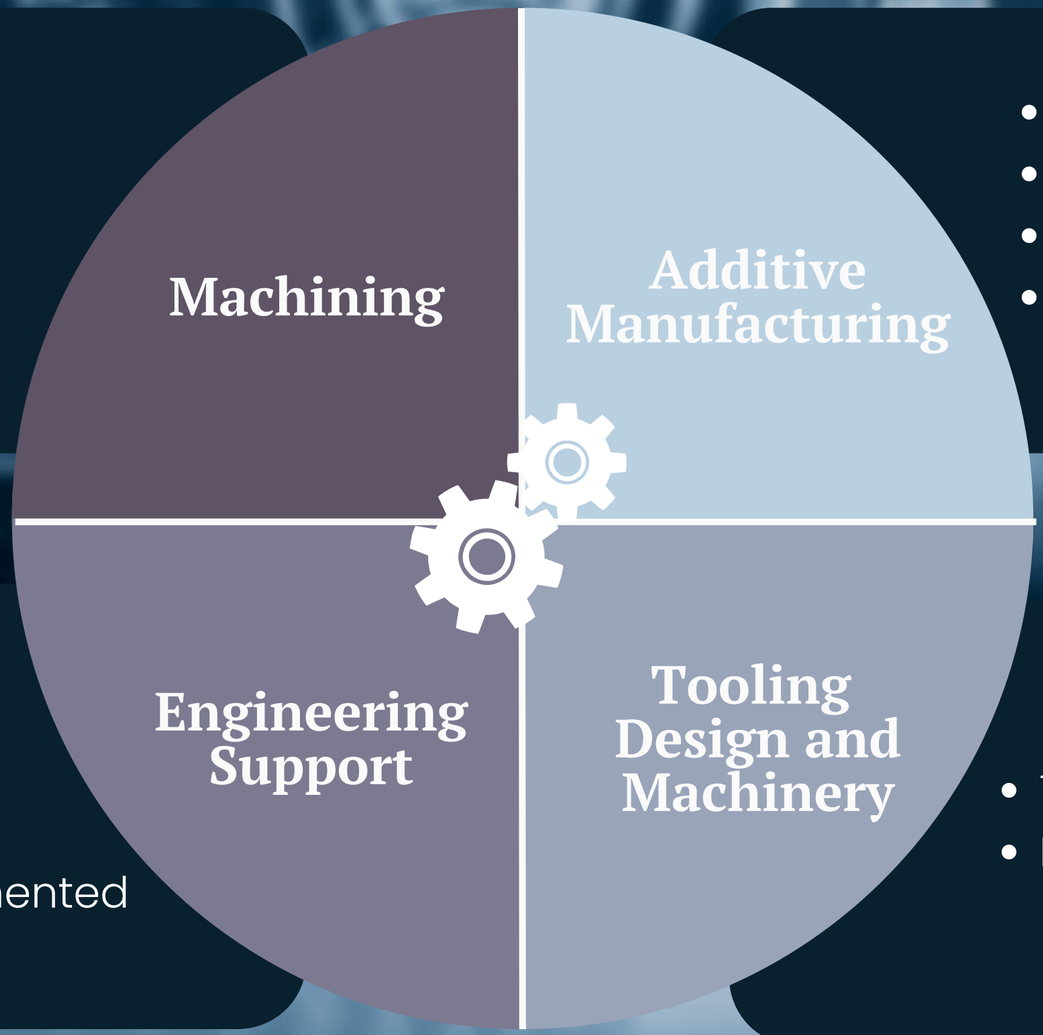
Alternative Sectors







Services & Solutions



- CNC Machining
- Injection Molding
- Tools / Dies
- Laser Cut
- Water Jet

- Multiple materials
- Prototypes
- Production parts
- Multiple capacities

- Outsource Engineering
- Industrial Maintenance
- Virtual and Augmented Reality

- Tooling design
- Machinery design

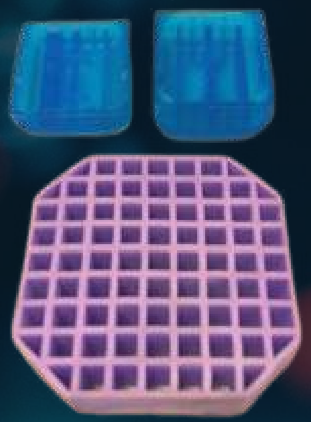
Additive Manufacture (Capacities):

Our company has developed multiple capacities to provide an adequate solution to our clients' projects. Using printing processes such as: SLA, FDM, SLS, Polyjet, Multijet & DMLS. Introducing: MIM & DED Technologies (2022)

						
Tolerance	Polyjet: +/- 0.004” for the first inch, then +/- 0.002 ”for every inch.	DMLS +/- 0.005” for the first inch, then +/- 0.002 ”for every inch.	SLS +/- 0.005"For the first inch, then +/- 0.002" for every inch.	FDM: +/- 0.004"For the first inch, then +/- 0.002" for every inch.	SLA: +/- 0.005"For the first inch, then +/- 0.002" for every inch.	HP Multi Jet Fusion +/- 0.012”. for the first inch, then +/- 0.003 ”for every inch
Capacity	19.3” × 15.4” × 7.9”	15,7”x 12,5” x 12,5”	27.5” x 14.9” x 22.8”	51.1” x 51.1” x 51.1”	High resolution: 10 ”x 10” x 10 ” Standard resolution: 82,6” x 31,4” x 27,5”	15” x 11” x 15”

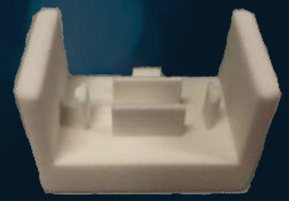
Prototypes

Polyjet



DMLS

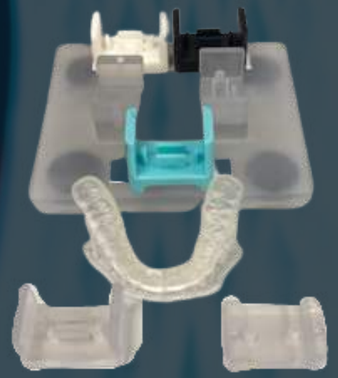
SLS



Prototypes

FDM

SLA



HP Multi Jet Fusion

Additive Manufacturing

(Materials)

Varieties of Rigid Plastics Available

ABS	ABSi	ABS-ESD7	ABS-M30	ABS-M30i	Accura Bluestone	Accura Clearvue	Accura Xtreme	ASA
Nylon 12 (unfilled)	Nylon 12 (glass filled)	PC-ISO	Polycarbonate	PPSF	Rigid photopolymer	Somos Next	Somos perform	Somo Protogen 18420
Somos ProtoTherm 12120	Somos Taurus	Somos Waterclear Ultra 10122	Somos Watershed XC 11122	Ultem 1010	Ultem 9085	Plasticos flexibles	Accura 25	PC-ABS

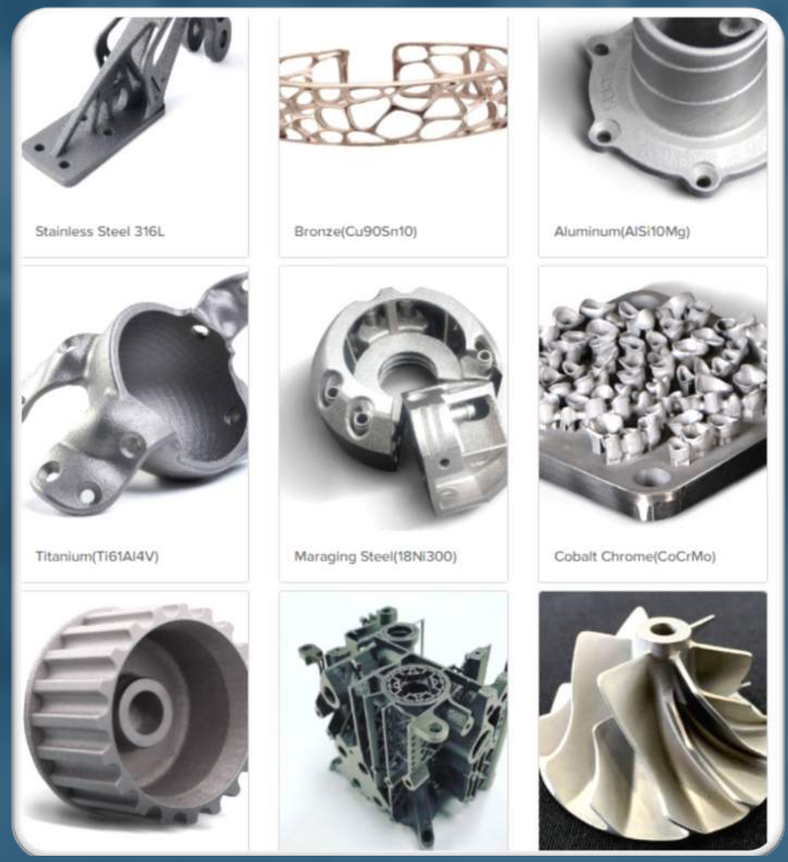
Varieties of Plastic Type Rubber Available

Rubber-like photopolymer (Shore A 26-28)	Rubber-like photopolymer (Shore A 35-40)	Rubber-like photopolymer (Shore A 45-50)	Rubber-like photopolymer (Shore A 57-63)	Rubber-like photopolymer (Shore A 68-72)	Rubber-like photopolymer (Shore A 80-85)	Rubber-like photopolymer (Shore A 92-95)

Additive manufacturing

(MATERIALS METALLIC

- Aluminum AlSi10Mg
- Stainless steel 316L
- Stainless Steel 17-4
- Brass
- Bronze (Cu90Sn10)
- Titanium (Ti61Al4V)
- Cobalt Chrome (CoCrMo)
- Maraging Steel



- Inconel 625 & 718
- Sterling Silver
- Copper
- Gold
- 420 Stainless Steeel & Bronze
- 316 Stainless Steeel & Bronze

Equipments & Capabilities

Commercial Printers

(SLA) FabPro 1000
(SLA) Figure 4

FDM (Low Cost)
3 Ultimakers
1 Lutzbolt
2 Dremel
1 Makerbot

High-end Printers

3 Equipment with Fused Deposition Modeling Technology (Fortus 900, Fortus 450 & Dimension Elite)

Printers Multijet
Fusion HP
Cloud 9

Others

Laser Powder Bed Fusion Machine (EOS M290)

Classrooms and training rooms (VR & AR)
Water Jet Cutting

Strategic Allies

Main Customers

Audi

Amphenol

TT Electronics

MARTINREA

Rassini

INAGE

Triumph

VANGUARD ELECTRONICS
High Reliability Inductors & Transformers

TRISTONE

Medtronic

Bright Machines

FURUKAWA ELECTRIC GROUP

Main Customers

Infrastructure

We have First Level facilities waiting for you, with 150m^2 installed inside CETYS University Campus Mexicali in CEID Building located in Baja California just 2 hours from San Diego California, with a team of experts in various academic and industrial subjects. Our headquarters are located at Austin, Texas.

Certifications

AS9100 Rev D

OHSAS 18001 & ISO 14001. (Oct. 2021)

PRI Registrar
PERFORMANCE REVIEW INSTITUTE

This Certificate of Registration acknowledges

M Aerospace RTC, Inc.

Calz. Cetys S/N, Rivera
Mexicali, Baja California, 21259
Mexico

is registered as a Single Site quality management system in conformance with

ISO 9001:2015 and AS9100D

The audit was conducted in accordance with the requirements of SAE AS9104/1:2012-01. PRI Registrar℠ is accredited under the ICOP Scheme.

Scope of Registration:

Custom Manufacturing Services for Commercial, Air, Space and Defense,
Utilizing Advanced Technologies to Coordinate Work with a Network of Suppliers,
Along with In House Machining, Assembly, and Additive Manufacturing Services

ANAB ACCREDITED MANAGEMENT SYSTEMS CERTIFICATION BODY

IAF MEMBER OF MULTILATERAL RECOGNITION ARRANGEMENT

Randy Daugharthy
Director of PRI Registrar

Number: 16139
Issued: 21-Mar-2022
Expires: 20-Mar-2025

161 Thorn Hill Road • Warrendale, Pennsylvania 15086-7527, USA

Associations

ASOCIADO CCFM CAP.BAJÍO-2020

CANACINTRA

BAJA AEROSPACE CLUSTER

CÁMARA DE COMERCIO BRITÁNICA, A.C.

BritChaM BUSINESS MEXICO

FEMIA
FEDERACION MEXICANA DE LA INDUSTRIA AEROESPACIAL, A.C.

SAE INTERNATIONAL

techBA
Un programa de FUMEC

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Promotional video:

https://youtu.be/q7mDbKmuVNY