



M AEROSPACE

RESEARCH & TECHNOLOGY CENTER

M Aerospace RTC, Mexicali, B.C., México

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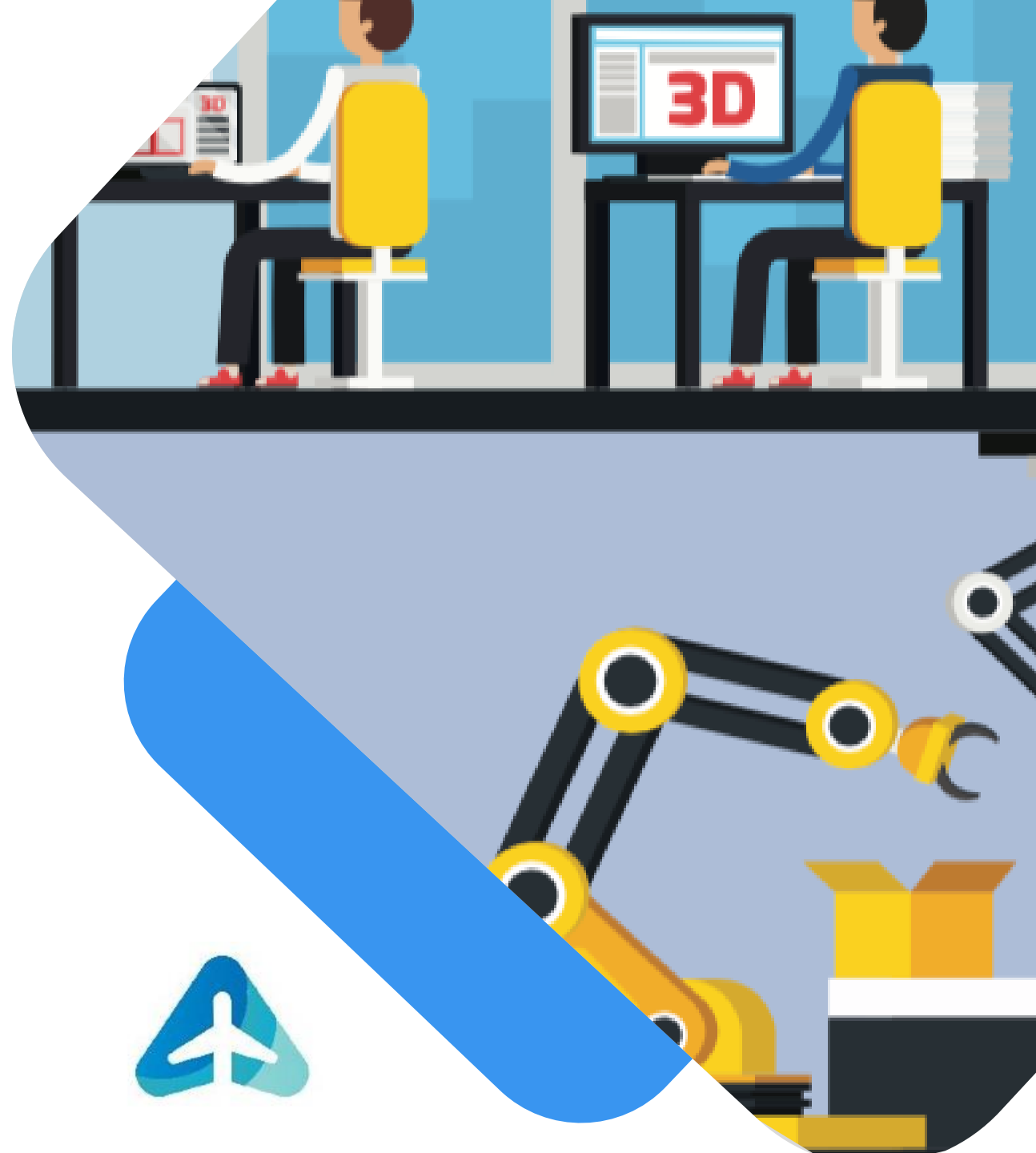
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Welcome

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.





Mission / Vision



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.



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.

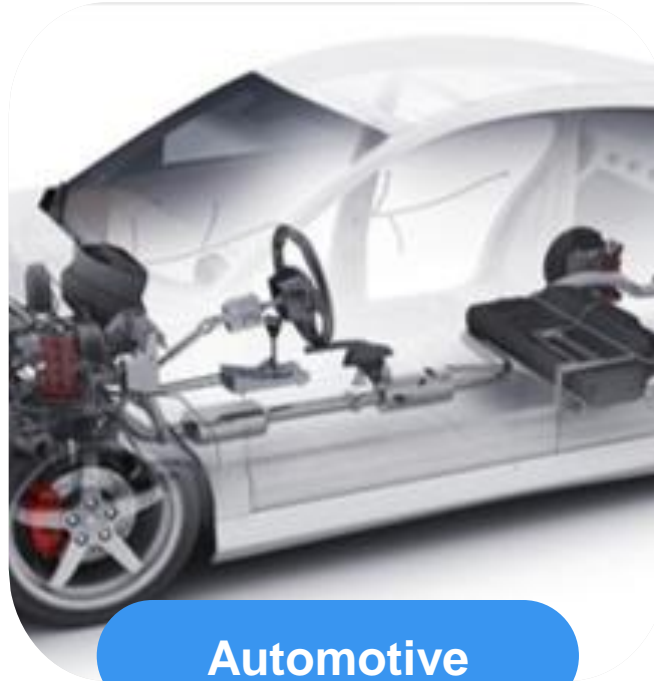




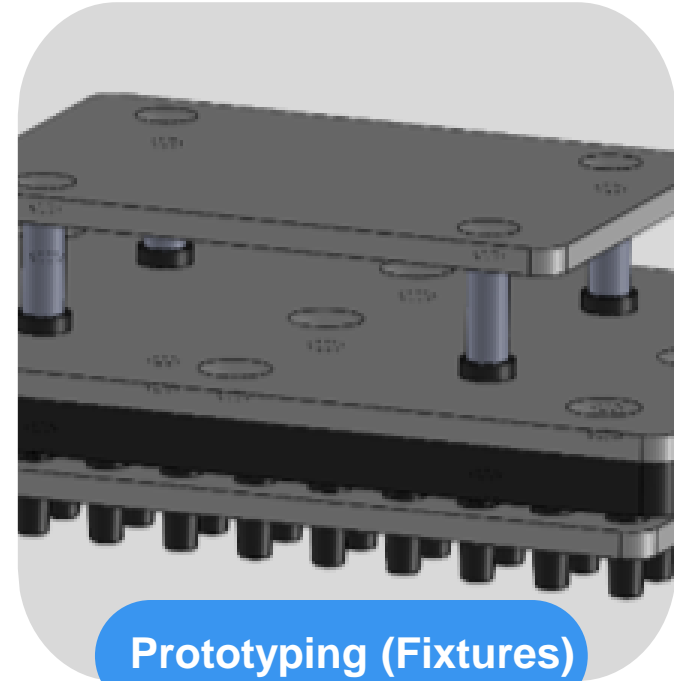
Key Sectors



Aerospace



Automotive



Prototyping (Fixtures)



Alternative Sectors



Health



Medical

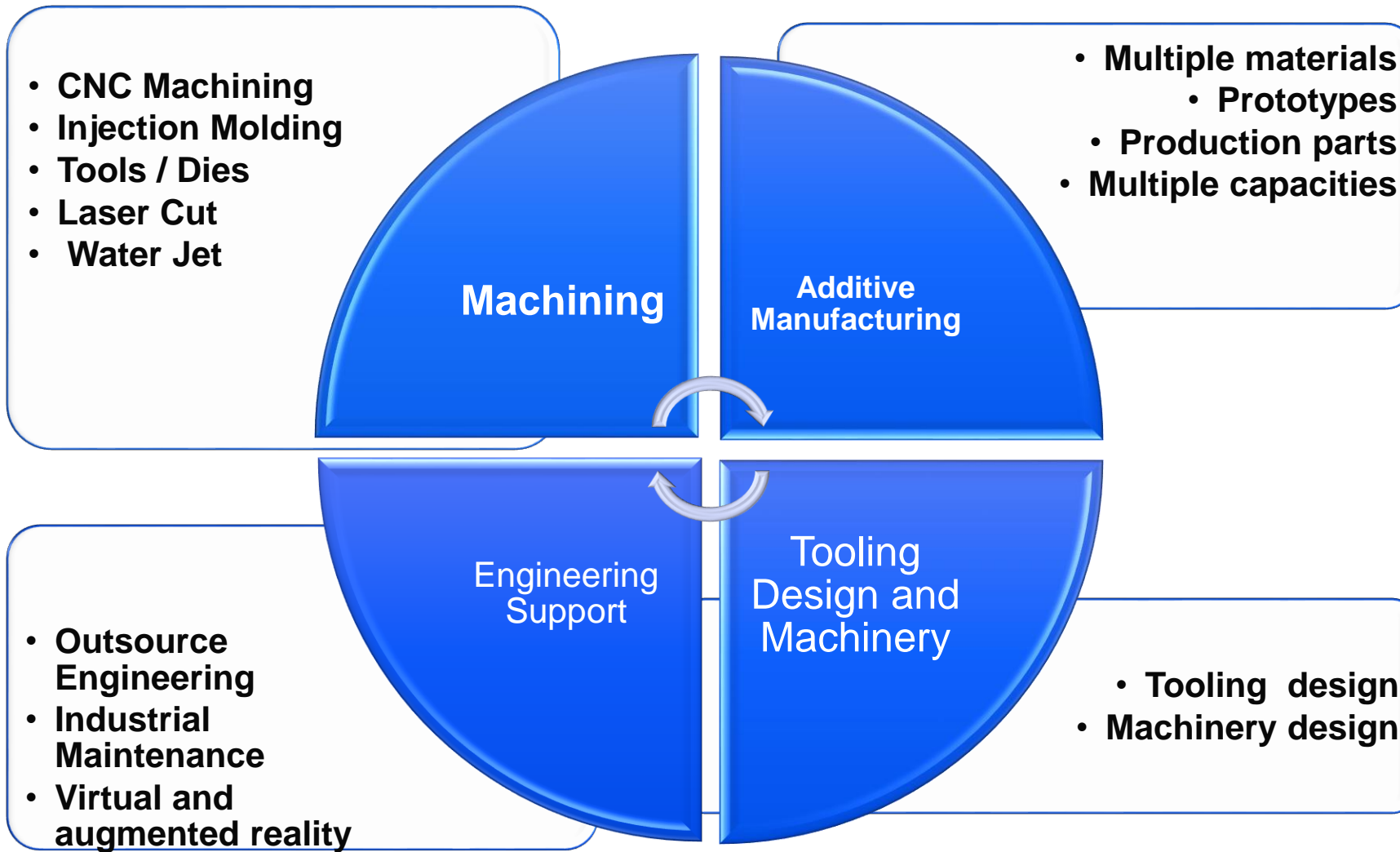


Spare parts



Customize

Services and Solutions





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 (2021)



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

Tolerance

Capacity

19.3" x 15.4" x 7.9"
(490 x 390 x 200 mm)

250 x 250 x 325 mm

Nylon 12: 13 "x 13" x 18 "*" (330 x 330 x 450 mm), (* 13" x 13 "x 13" is the recommended area of use).x

24" x 36" x 36",

High resolution: 10 "x 10" x 10 "(254 x 254 x 254 mm) = .002" layers
Standard resolution: 29 "x 25" x 21 "(736 x 635 x 533 mm) = .004" layers

15" x 11" x 15".

Prototypes



Polyjet



DMLS



SLS



Prototypes



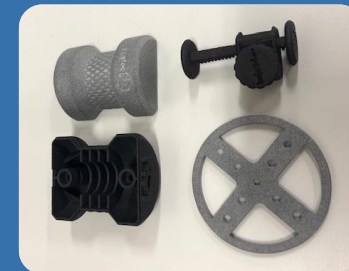
FDM



SLA



**HP Multi Jet
Fusion**



Additive Manufacturing (Materials)



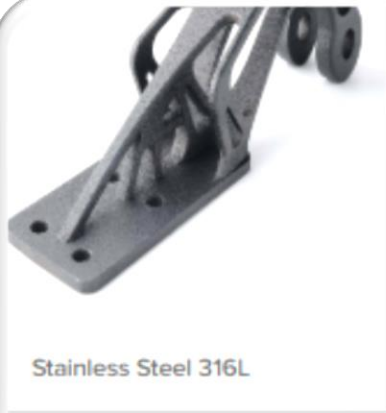
varieties of rigid plastics available

| 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 | Somos Protogen 18420 |
| Somos ProtoTherm 12120 | Somos Taurus | Somos Waterclear Ultra 10122 | Somos Watershed XC 11122 | Ultem 1010 | Ultem 9085 | Plásticos 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)



Stainless Steel 316L



Bronze(Cu90Sn10)



Aluminum(AlSi10Mg)



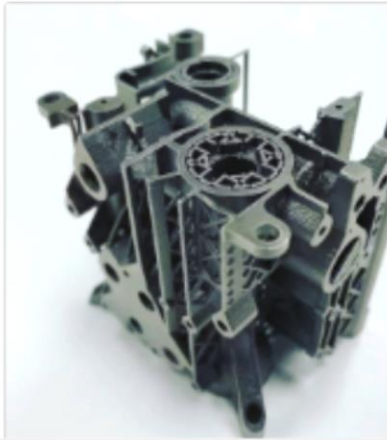
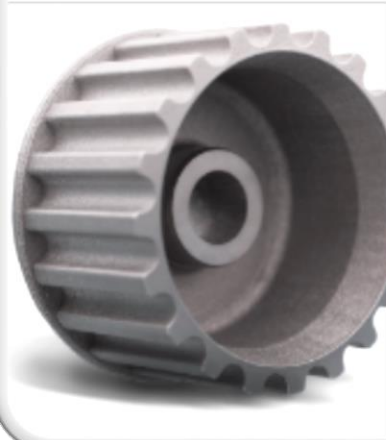
Titanium(Ti6Al4V)



Maraging Steel(18Ni300)



Cobalt Chrome(CoCrMo)



- Aluminum AlSi10Mg
- Stainless steel 316L
- Stainless Steel 17-4
- Brass
- Bronze (Cu90Sn10)
- Titanium (Ti6Al4V)
- Cobalt Chrome (CoCrMo)
- Maraging Steel
- Inconel 625 & 718
- Sterling Silver
- Copper
- Gold
- 420 Stainless Steel & Bronze
- 316 Stainless Steel & Bronze

Machining CNC



Water Jet



Machining CNC



Laser Cutting



Injection Molding



Die Casting





Current Machines

| Product | Brands |
|-----------------------------------|-----------------------------------|
| Milling Machines | Titanium TM-35, TRaK, TREE, Lagun |
| Towa Mold Machine | Service Support Contract |
| Kulicke & Soffa Wire Bond Machine | Service Support Contract |
| Lathes | Okuma, Clausing, Monarch, Namseon |
| CNC Lathe | HAAS, OKUMA |
| Surface Grinding Machines | Manual & Okamoto |
| CNC Milling | HAAS |
| EDM Wire Cut | Mitsubishi, Sodick |
| EDM Sinker | Charmilles |

Equipments and 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



GE Additive

**Main
customers**

**Jonathan
Engineering
GH
Manufacturing
Magnicharters**

**Kenworth –
Paccar
Amphenol
Furukawa**

TRAMEX

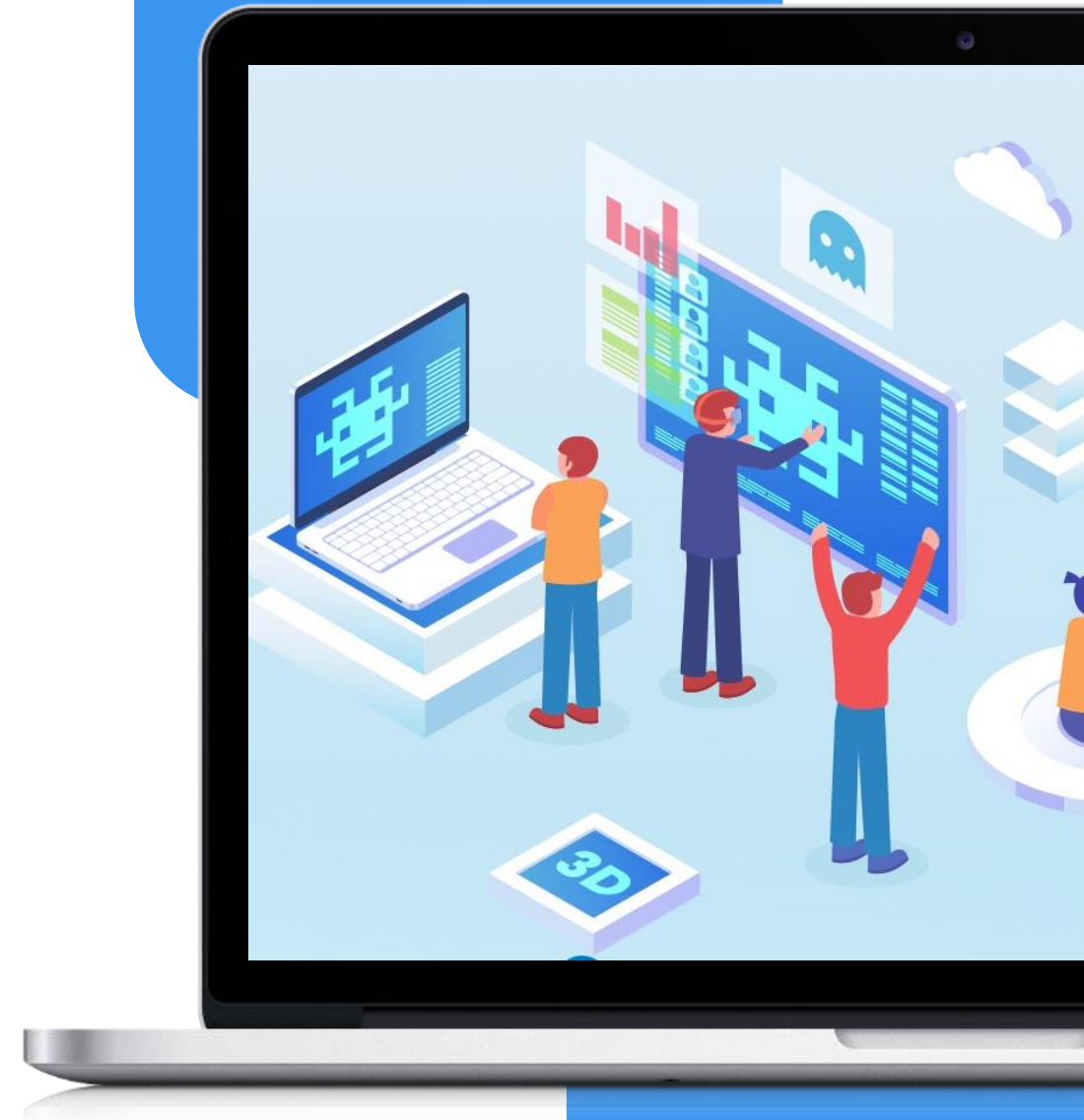
**Developed
projects**

**Design and
manufacture
of products**

**Machinery
Development**

**Design and
manufacture
of parts**

**Equipment
Maintenance**





Infrastructure

We have First Level facilities waiting for you, with 150m² 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.



M Aerospace RTC, Mexicali, B.C., Mexico



Certifications



AS9100 Rev D



OHSAS 18001 & ISO 14001.
(Oct. 2021)



Performance Review Institute®

Registrar

Certificate of Registration

This is to certify that
M Aerospace RTC

Calz. Cetys S/N, Rivera, Mexicali, Baja
California 21290
Mexico

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

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 and additive manufacturing services.

This Scope Includes: Calz. Cetys S/N, Rivera,
Mexicali, Baja California 21290
Mexico



Peter P. Kucan, Jr – Sr. Program Manager, Registrar Operations

Number: 12513 AS
Issued: 21-Mar-2019
Re-Issued: 2-Apr-2019
Expires: 20-Mar-2022

Associations



M Aerospace RTC, Mexicali, B.C., Mexico

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LinkedIn:



[www.linkedin.com](https://www.linkedin.com/company/maerospace-rtc) › company › maerospace-rtc

Promotional video:



<https://youtu.be/q7mDbKmuVNY>

