



A high value-added technology and services company specialized in the space industry.

18+
YEARS OF
EXPERIENCE

375+
EMPLOYEES INCLUDING
PROFESSIONALS
AND TECHNICIANS

SPACEPORT SERVICES

High availability and strategically located launch sites for efficient operations

We have the **Manuel Belgrano Space Center**, strategically located to guarantee **safe and efficient launch operations**. Our infrastructure allows direct access to **SSO orbits, optimized ground tracking and a low-risk launch environment**. We provide integral solutions for space missions with high standards of reliability and performance.

Efficient and low-risk operations

- Direct launch to SSO
- No dogleg
- Sub-orbital flight over Argentinian sea
- Polygon security

Nearby seaport, airport & services

High availability

- Proprietary launch pad and support facilities

Low-barriers-to-entry launch operations

ANTARCTICA G.S.
(coming soon)

CÓRDOBA G.S.

CAPETINA S.P.

CEMB S.P.

TIERRA DEL FUEGO G.S.

Manuel Belgrano Spaceport
Bahía Blanca, Buenos Aires, Argentina



CYM-PG-06955-V02



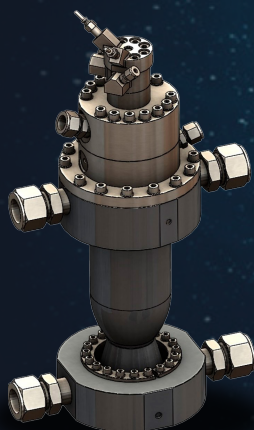
PROPULSION SERVICES

Since our beginnings, one of our main areas of technological development has been the area of liquid propulsion, mainly oriented to the development of propellants for launch vehicles and also small propellants for attitude control of launchers and potential use in the satellite industry.

RS2 ENGINE

1ST STAGE

The **RS-2** is a **bipropellant liquid rocket engine with a single regeneratively cooled thrust chamber, pressure-fed**. It was used as a test platform for swirl injectors, ignition characterization, and thermal load evaluation of regeneratively cooled thrust chambers. The thrust chamber was manufactured using a combination of **additive manufacturing** and **electroforming technologies**.



THRUST TO ADAPTED NOZZLE	420 Kgf
PROPELLANTS	LOX/RP1
SPECIFIC IMPULSE AT SL	350 S
INJECTION TYPE	BIPROPELLANT SWIRL

MT-B ENGINE

IN DEVELOPMENT

2ND STAGE (OPTIMAL) OR 1ST STAGE CLUSTER

The **MT-B** is a bipropellant liquid rocket engine with a **single regeneratively cooled thrust chamber**, powered by an **open-cycle gas generator**. It was developed as the propulsion system for the second stage of the **Tronador TII-250** vehicle. The thrust chamber was manufactured using a combination of **additive manufacturing** and **electroforming technologies**.



VACUUM THRUST	4280 Kgf
PROPELLANTS	LOX/RP1
SPECIFIC VACUUM THRUST	330 S
FEED SYSTEM	GAS GENERATOR CYCLE

Development of additive manufacturing products

Additive manufacturing services, ranging from state of the art 3D metal printing (DMD) to electroplating facilities. This state of the art manufacturing service allows us to develop complex metal components with a high manufacturing efficiency.

- Unique and complex parts of critical processes.
- High value-added ad hoc manufacturing.
- Innovative solutions to strategic maintenance

3D DMD ADDITIVE/SUBTRACTIVE METAL PRINTING MACHINE

MANUFACTURER	Okuma Multus U4000
MAX. DIAMETER	650 mm
MAX. LENGHT	1.500 mm
SPINDLE SPEED	4.200 [3.000] rpm

