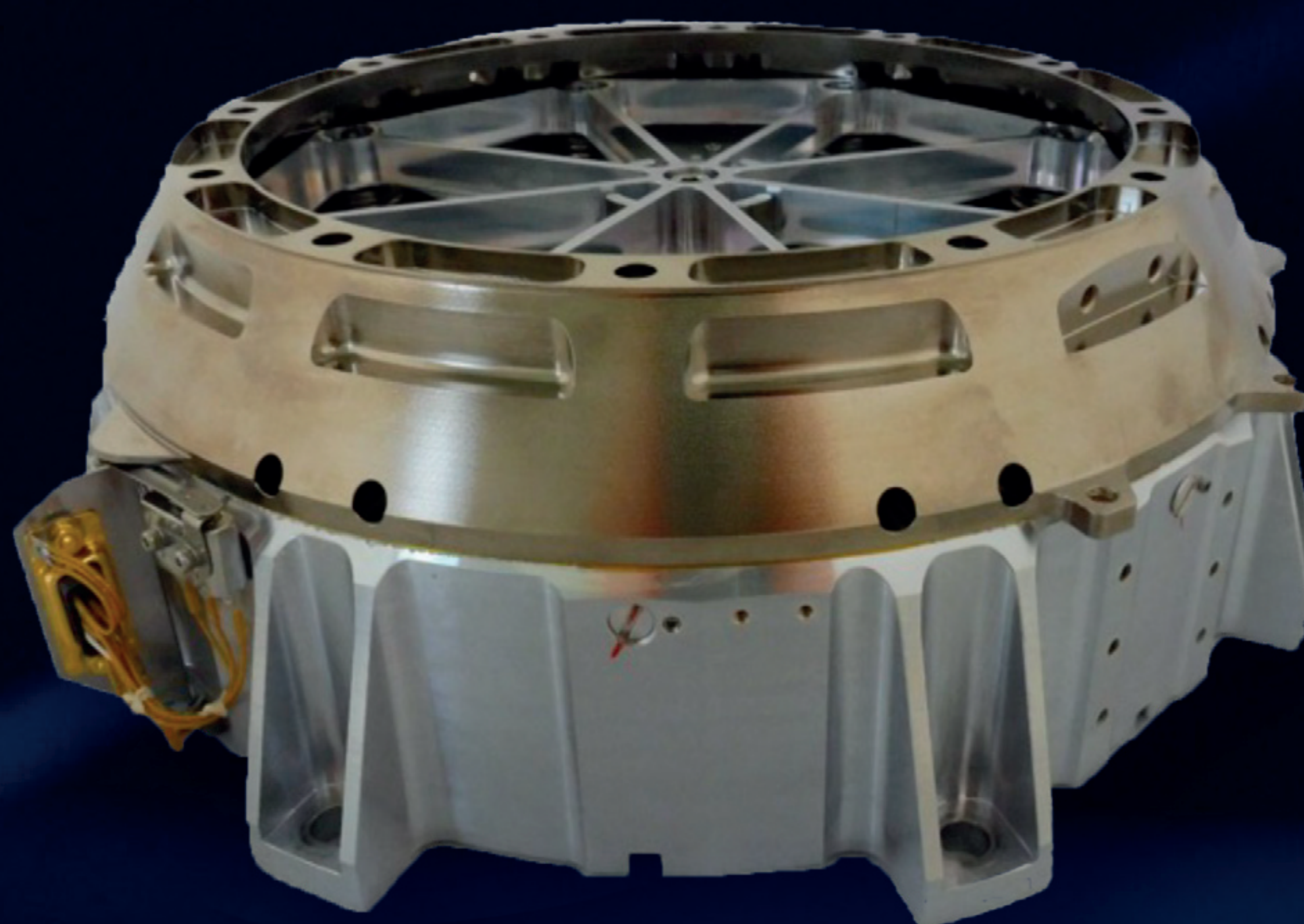




# MECANO ID



## EOS

## EJECTION OF SATELLITE

The Small Satellite Deployer EOS-B8 1.0 by **MECANO ID**

*MECANO ID proposes a new type of deployer with high technical performances, compatible with a wide range of nanosatellites and launchers.*

## PERFORMANCES

### SATELLITE RANGE

FROM 15 kg TO 60 kg

### LOW SHOCK

AT SATELLITE INTERFACE < 100G

### VERY LOW SPIN

$\omega < 3^\circ/s$

### LIGHTWEIGHT

3,50 kg WITH A FLY AWAY PART OF 470g

### COMPATIBLE WITH ANY LAUNCHER

### PREDICTABLE MECHANICAL LEVELS

### LOW COST



EOS is a new type of deployer developed by MECANO ID with high technical performances compatible with a wide range of nanosatellites (15 – 60kg) and launchers.

In addition to its high performances, EOS has other attractive benefits: the flight away part can be easily adapted to the customer's needs, the assembly of EOS with the satellite on the launcher is also easy due to free access to the interface holes.

## THEY TRUST EOS



*MECANO ID designs and builds dominantly mechanical and thermal subsystems for spacecraft instruments, equipments or structures.  
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# EOS EJECTION OF SATELLITE

## MECHANICAL INTERFACE

### NOMINAL INTERFACE SATELLITE

Ø 203mm (8")

12 HOLES Ø 6.5mm

COULD BE ADAPTED WITHOUT DIFFICULTIES

### LAUNCHER INTERFACE

Ø 272mm

8 HOLES Ø 8.5mm

## THERMAL DATA

### OPERATING TEMPERATURE

-55°C / +100°C

### EMISSIVITY FLY AWAY PART

0.1

### THERMAL RESISTANCE

BETWEEN LAUNCHER AND SATELLITE 1.18 W/K

### ABSORPTIVITY FLY AWAY PART

0.34

## ELECTRICAL INTERFACE

### SUB-HD 15 PINS MALE CONNECTOR

#### INTERFACE EOS-LAUNCHER

##### DEPLOYMENT COMMAND

ACTUATION CURRENT: 5 - 6.5 A

NOMINAL FEEDING TIME 40 - 100 ms

##### DEPLOYMENT DETECTION

2 MICROSWITCHES MOUNTED ON MAIN STRUCTURE

POSSIBILITY TO ADD MICROSWITCHES TO GIVE INFORMATION TO THE SATELLITE

### SEPARATION CONNECTOR 15 PIN

#### INTERFACE SATELLITE LAUNCHER

##### QUANTITY

0, 1 OR 2 ON DEMAND

##### WIRE SIZE

FROM 26 TO 22 AWG

## SEPARATION CHARACTERISTICS

### SEPARATION ENERGY

5 TO 20J

### SEPARATION VELOCITY

0.5 TO 2.3 m/s

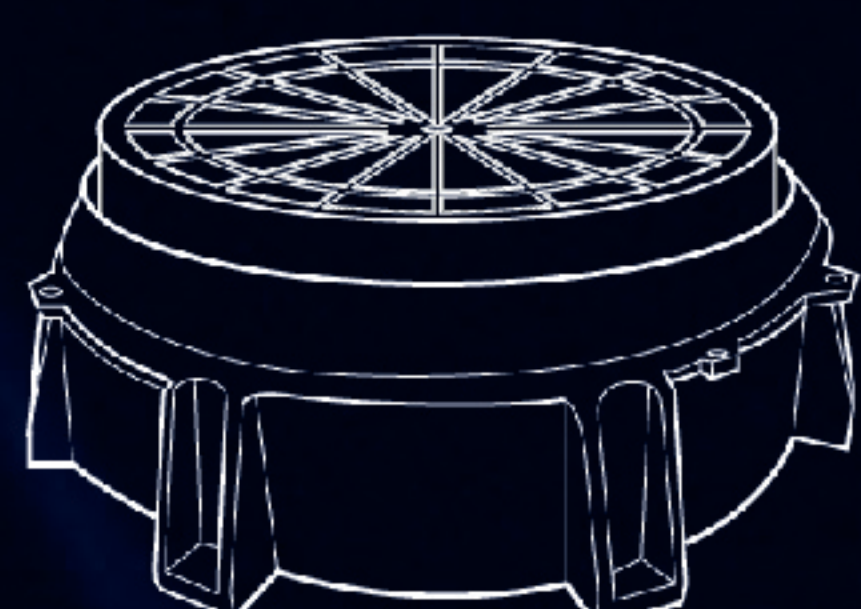
### ROTATION RATE

0 ± 3°/s

### TIME TO DISPLAY

< 100 ms

## EOS FAMILY IS GROWING



Ø 8"



Ø 15"



Ø 24"

(development under progress)