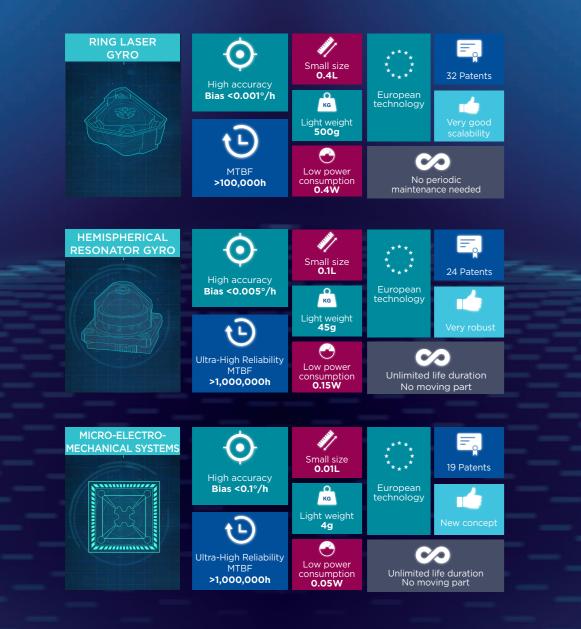
## > THE RIGHT TECHNOLOGY FOR THE RIGHT APPLICATION



Safran has developed proven expertise in all inertial technologies (mechanical, ring-laser, fiber-optics, resonator, MEMS), based on 70 years of experience in designing and producing navigation systems for civil and military platforms operating in all environments.

# **POWERED BY TRUST**

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IN AEROSPACE NAVIGATION

Setting the global standard for 70 years



## > OUR STRENGTHS



**ACCURACY & INTEGRITY** 

Guaranteed by the best standard quality of sensors and algorithms



**ROBUSTNESS & RELIABILITY** 

Guaranteed by deep disruptive innovations



**EASY TO INTEGRATE** 

Guaranteed by the optimization of the SWaP-C (Size, Weight, Power & Cost)



**EASY TO EXPORT\*** 

**Guaranteed by European technologies** 



**LOW-LIFE-CYCLE COST** 

Guaranteed by a very high MTBF & low maintenance cost

## > OUR REFERENCES



of Rafale fighters rely on Safran's navigation systems



> EXPERIENCE YOU CAN TRUST

WORLDWIDE MRO footprint





#### ATTITUDE & HEADING REFERENCE SYSTEMS

**HELICOPTERS** 

**REGIONAL AIRCRAFT** 





### **APIRS**

Certifications: ETSO / TSO Attitudes: A3 Heading: gyromagnetic H2 direct gyro H8 SWaP: 2.2 L / 2 kg / 20 W Piloting Data



#### CIVIL NAVIGATION

20,000 +

AIRCRAFT AND HELICOPTERS

EQUIPPED BY

**SAFRAN ELECTRONICS & DEFENSE** 

HELICOPTERS

**BIZJETS** 

AIRCRAFT



## SKY*NAUTE*

Certifications: DO178B / DO254 / DO229 Hybrid: 100% RNP 0.1, even in coasting > 10 min Position drift: < 2Nm/h (95%) Velocity error: < 8kts (95%) SWaP: 3 L / 3 kg / 20 W Piloting Data



### LAUNCHERS |



Compliance from SSO to GTO+ & space exploration missions Gyro bias: < 0.01°/h Accelero bias: < 50 µg SWaP: 3 L / 5 kg / 15 W



#### MILITARY NAVIGATION

Sigma 95L

#### AIRCRAFT



HELICOPTERS



### GADIRU\*

Certifications: DO178 / DO254 / DO229 / MIL Hybrid: 100% RNP 0.1, even in coasting > 10 min Position drift: < 2 Nm/h (95%) Velocity error: < 5kts (95%) SWaP: 10 L / 10 kg / 40 W Piloting Data



### SIGMA 95\*

### Sign

Hyb: 3D < 10m Position drift: < 1.6 Nm/h (95%) Velocity error: < 4kts (95%) SWaP: 6.3 L / 8.5 kg / 35 W Piloting Data



Hyb: 3D < 10m
Position drift: < 1 Nm/h (95%)
Velocity error: < 3kts (95%)
SWaP: 16 L / 15 kg / 45 W
Piloting Data

