

SIMÃO – Modular robotic system

The modular inspection robot **SIMÃO** has a self-propelled motorized system with a self-adjustable module.

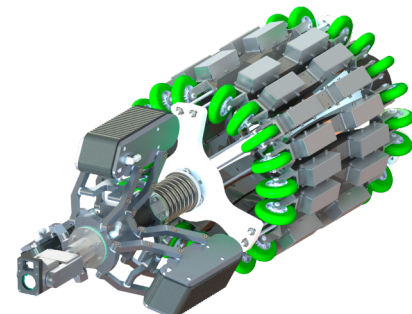
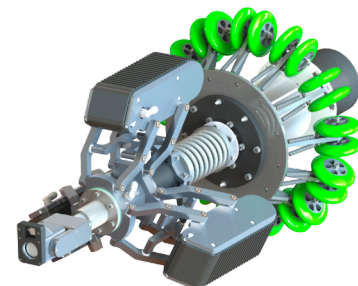
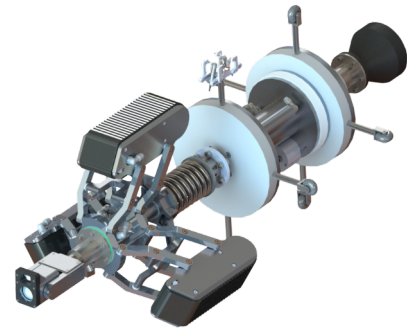
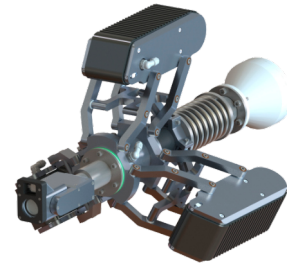
This robot has remote control of speed and position and real-time data visualization and record, via an umbilical cable.

SIMÃO accepts a variety of NDE (Nondestructive exams) modules, for example:

- Visual module with a PTZ (Pan/Tilt/Zoom) high-resolution camera;
- Wall thickness ultrasound module;
- ToFD ultrasound module to performs welds and equipment's inspections;
- MFL module to performs pipeline and structures integrity inspections;
- Geometric module;

Other modules can be developed and attached to the robot.

Versatility and modularity are the main characteristics of this equipment which shows this system as a powerful and innovative solution to NDTs.



SPECIFICATIONS

CAMERA

Pan	360° – livre
Tilt	210°
Optical zoom	x10 (5.1 to 51 mm)
Digital zoom	x32
Digital noise reduction	2D + 3D
Video output	HD-SDI
Focus	Automatic and/or manual

LOCOMOTION MODULE

Displacement	Vertical and horizontal
Cable	450 m
Operation temperature	-20° C – 85° C
Speed	6 m/min
Protection	IP67
Diameter	Self adjust 14" – 24"
Payload	180 Kg



PTZ



UTM



ToFD



MFL



GEO