

Versatile and Effective Inspection Solution

Designed to work on wide range of structures, SAIR is capable of measuring remaining wall thickness of tanks, vessels, pipes and other steel assets in difficult-to-access locations.

SAIR is a wireless magnetic crawler robot capable of conducting ultrasonic and visual inspection on various assets like tanks, vessels, pipes and elbows. Its unique and patented design makes it **highly maneuverable** on curved surfaces from **8" in diameter up to a flat plate**. In addition, SAIR is equipped with the gas sensors for detecting hazardous and flammable gases.

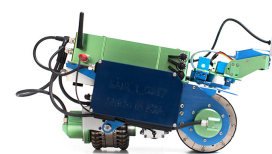
Inspection of elevated pipes and hard to access locations has never been more convenient. With SAIR, there is **no need for costly scaffolding** and the whole system weighs less than 15kg, which makes it ideal for **On Stream Inspection (OSI)** and also during **Testing and Inspection (T&I)**.

The robot is controlled by a **rugged tablet** where reliable UT thickness data (A-scan and B-scan) can be collected and visualized in real-time on a **10.1" sunlight viewable touchscreen**.

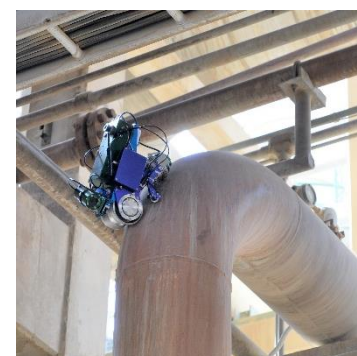
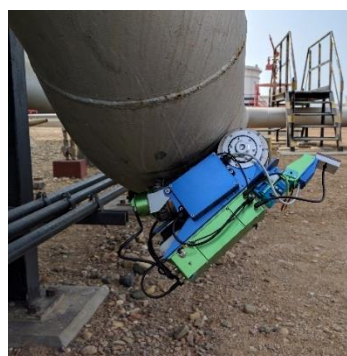


SAIR

Dimensions	Length	325mm
	Width	180mm
	Height	215mm
Weight	9.5kg	
Max Driving Speed	140mm/s (8.4 m/min)	
Gas Sensors	CH ₄ , CO ₂ , O ₂	
UT	Dry coupled wheel probe Thickness 4mm to 40mm	
Camera	1 camera, adjustable pan & tilt	
LED	Adjustable brightness LED	
Battery	Typical life 2 hours	
Communication	Wireless up to 100m	
Operating Temp	0°C ... +50°C	



SAIR was developed in Saudi Aramco and has been tested and piloted in several Aramco facilities.



Control Module

Dimensions	Length	192mm
	Width	283mm
	Height	21mm
Display	10.1" (25.5cm)	
Weight	1.3 kg	
Battery	8-hours battery life	
IP rating	IP65	
Operating temperature	-10°C ... +50°C	