

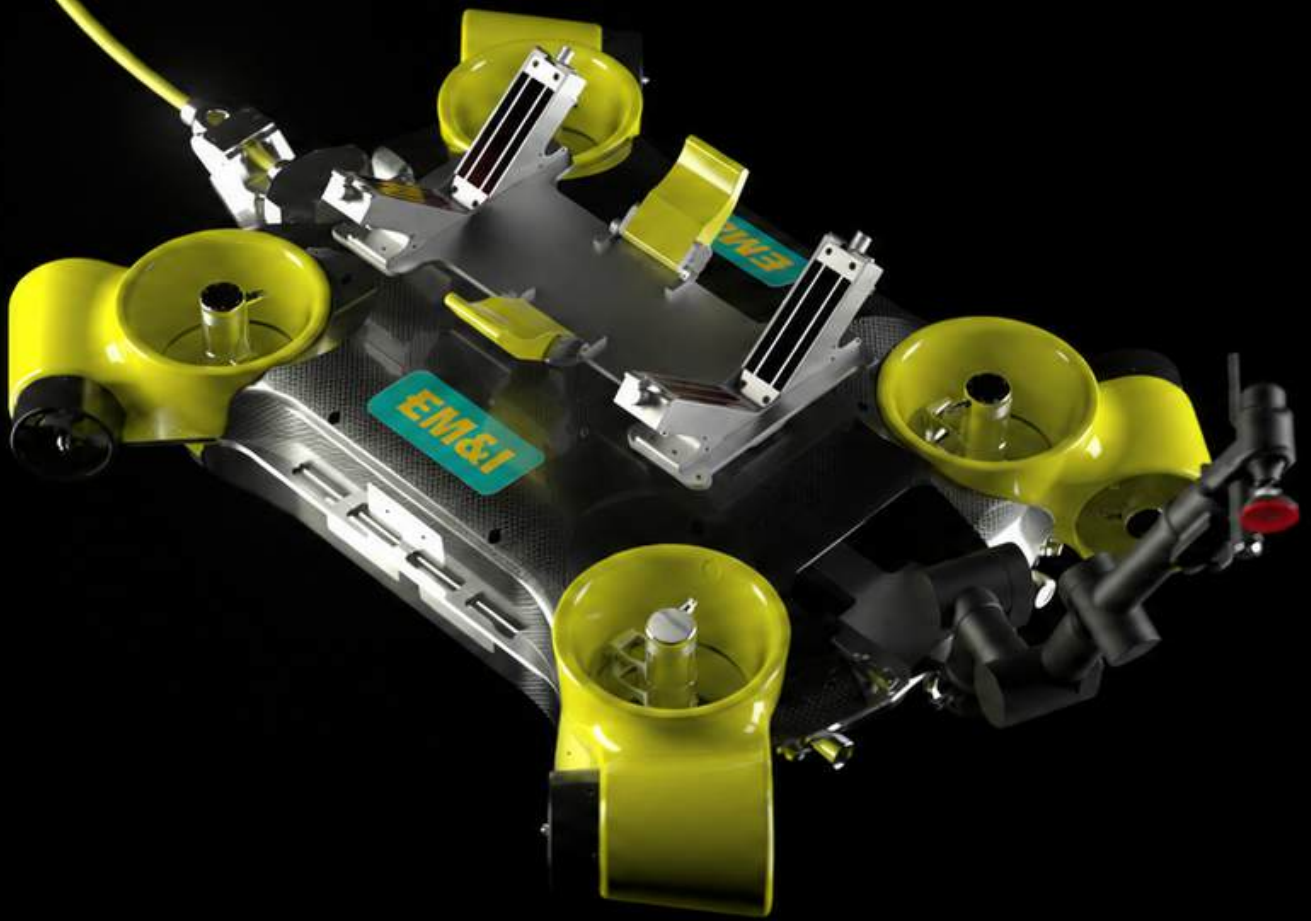
The EM&I logo is displayed in a bold, yellow, sans-serif font within a teal rounded rectangle. The background of the entire image is a photograph of an industrial steel riser being inspected. A yellow EM&I inspection tool is mounted on the riser, featuring two bright spotlights that illuminate the metal surface. A yellow cable is connected to the tool. The riser itself is a vertical pipe with some rust, set against a dark, textured background.

EM&I

Delivering Integrity

KING LORIS™

Advanced Steel Riser
Inspection



Steel risers on spread-moored deepwater floating production units require regular inspection. Near the surface, waves, currents, and vessel motion create demanding conditions for risers and inspection equipment.

These conditions restrict diver access and make it difficult for conventional free-swimming ROVs to maintain position, slowing inspection, and limiting operating windows. Clamps, supports, and closely spaced structures also hinder conventional crawler access and movement.

LORIS is a cleaning and inspection module fitted to the EM&I KING CRAB ROV. Together, they form KING LORIS, which uses electromagnets and mechanical grabbers, combined with KING CRAB's precision thrust control, to move along the riser while remaining attached.

Its seven-axis manipulator, fitted with a purpose-designed cleaning and inspection head, reaches around the riser to clean the surface, perform visual inspections, and take ultrasonic thickness measurements along the full circumference.

The manipulator's reach minimises repositioning around the riser, enabling efficient inspection in confined spaces. Once work at each location is complete, KING LORIS quickly detaches and manoeuvres around obstacles to quickly reattach itself at the next inspection point.



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