

SUBMARINE MASTS

Complete mast-raising equipment solutions

L3Harris' submarine masts & sensors are the ideal mast-raising solutions, allowing standardization and cost reduction along with enhancements in quality level and performance.

A SOLUTION FOR EVERY NEED

Electric hoisting (E-HOIST) specifically eliminates the need for oil/piping and the risks linked to oil pollution. E-HOIST has electromagnetic passive brakes, motion laws can be managed and modified via software and it does not consume power in hold position. Chosen by major navies around the world, L3Harris' masts are characterized by proven high performance and reliability.



MORE THAN 600 MAST COMPONENTS PROVIDED AROUND THE WORLD

SLIDING BEARING MAST

- > US 6,715,439
- > B1 06/04/2004 USA

ROTARY ACTUATION FOR MAST

- > 1847454 15/06/11 EU (D,F,GB)
- > US 7,549,386 23/06/2009 USA
- > 325990 27/11/2019 India
- > 2426674 20/08/11 Russia

SQUARED SHAPE/COMPOSITE GUIDE

- > 2007310531 24/05/12 Australia
- > 2076428 25/05/11 EU (D,F,GB)
- > 8286571 16/10/12 USA

ACTIVE WAVE REDUCTION

- > 0001407116 28/03/14 IT

UAV LAUNCH

- > 0001406618 07/03/14 IT
- > 2734437 08/04/15 EU (D,ES,F,GB,IT)

MULTIPLE GUIDE

- > 2650208 14/09/16 EU (D,ES,F,GB,SE)
- > US 8,960,118 24/02/15 USA
- > 10-2139774 24/07/20 South Korea
- > 403/KOL/2013 10/04/2013 India (pending)

DOUBLE WHIP ANTENNA

- > EP2878529B1 25/05/16 EU (D,ES,F,GB,)
- > US 9515375 B2 06/12/2016 USA
- > 2014253489 30/08/2018 Australia

ACTIVE SNORKEL

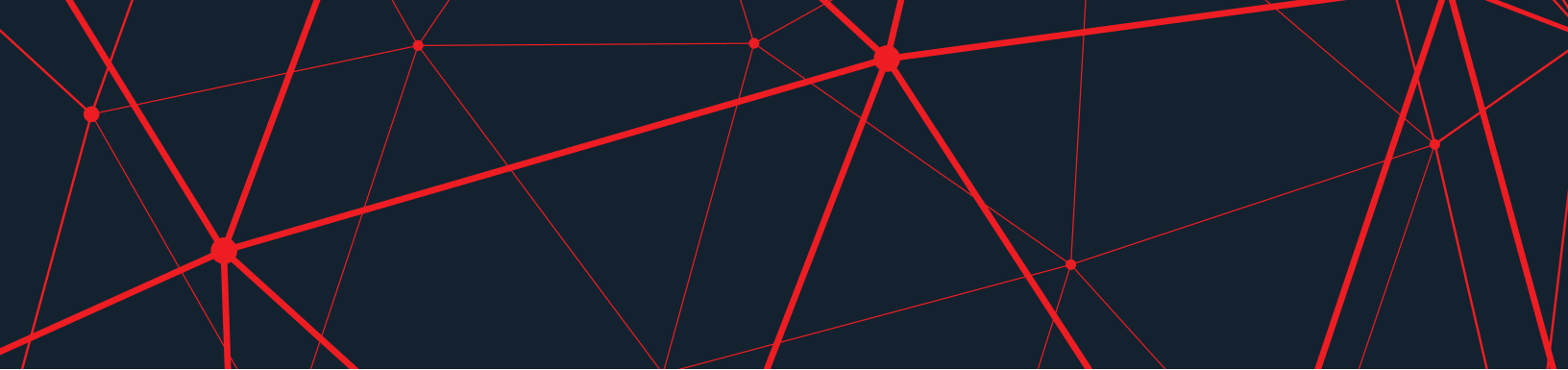
- > 1425999 29/11/2016 IT
- > 3002208 05/12/2018 EU (D,F,GB,IT)
- > 2015227468 07/03/19 Australia
- > 10-2015-0138531 01/10/2015 South Korea (pending)
- > 3551/MUM/2015 16/09/2015 India (pending)



The range of products include

- > Universal modular mast (UMM) in double configuration
 - > Single stage
 - > Double stage
- > Periscope-hoisting system with or without independent fairings
- > Communication mast with three independent stages

These systems are available with both hydraulic or electric actuation.



MAIN FEATURES & SPECIFICATIONS

Actuation	Hydraulic or electric actuation
Qualifications	Shock qualified according to customer specifications
Maintenance	Reduced maintenance needs and life-cycle costs: Mean time between overhauls of more than eight years
Design	Drop-in/drop-out installation Cartridge design, no onboard alignment needed
Noise Reduction	Raising/lowering provided by means of dedicated motion law
Additional Functions	Minimum Detectability: Deplumer and streamlined fairing shape to reduce plume and wake



UNIVERSAL MODULAR MAST

- > One or two deployment stages
- > UMM-mounted sensors
 - > Electronic support measures
 - > Optronic
 - > Super-high frequency
 - > Radar



COMMUNICATION MAST

- > Three deployment stages
- > Communication mast receiving/transmitting antennas
 - > Medium frequency
 - > High frequency



PERISCOPE HOISTING SYSTEM

- > One or two deployment stages

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L3HARRIS[®]
FAST. FORWARD.

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