

# New 4th Generation ROBONIC OHTO (MC1555LLR) PNEUMATIC UAV LAUNCHER



The world's first fourth generation multi-role catapult solution. Ready for full integration and operational deployment in support of tactical unmanned aircraft and target drone systems, OHTO is the new benchmark for assured launch.

**W**hen performance and efficiency cannot be compromised, OHTO is the solution. Designed to meet current and emerging operational requirements for optimised launch for Group II and III unmanned aerial systems and target drones, OHTO sets new market standards.

An evolution of the internationally acclaimed Robonic Kontio launcher, the Robonic OHTO features high performance power-to-weight ratio, compact operational footprint and improved tactical mobility with a 4 x 4 vehicle, sling loadable by a helicopter, seaborne ops, lower operating costs and enhanced reliability. As the Robonic Kontio, the OHTO can be transported and stored in a purpose fitted 20ft sea container.

The Robonic OHTO draws on three decades of deployments ranging across the world's toughest theatres. Robonic launchers have served and excelled in the hot and high deserts of Afghanistan, the coastal maritime terrain of the Mediterranean, the high seas and the windswept icy wilderness of the European and North American Arctic. OHTO incorporates the full spectrum of operational lessons from real world missions.

Using patented pneumatic technology and integrated low-noise power pack, the Robonic OHTO offers rapid deployability and launch cycle capability through fast set up and pack down.

Flexibility is integral. Single or multiple air vehicle types can be supported by the same launcher unit using purpose designed and built interface adapters. Ground architectures for different existing and future air vehicles can be optimised using a single launch solution, allowing reduced fleet ownership and personnel costs as well as sustainment costs whilst gaining new capability.

### ROBONIC OHTO (MC1555LLR) TECHNICAL DATA

Set up time ready for launch	< 10 min
Operating temperature	-30°C to +45°C
Launcher recovery time	< 3 min
Transport speed on roads	80 km/h
Launcher mass	< 3500 kg
Launch angle	8 - 12°

Acceleration depends on UAV type

Envelope of UAV take-off speed	(see chart below)
Envelope of UAV mass	(see chart below)

#### LAUNCHER OVERALL DIMENSIONS

<b>Assembled for transport:</b>	
Length	5400 mm / 7450 mm
Width	2100 mm
Height	1950 mm
<b>Deployed:</b>	
Length	16100 mm
Width	2100 mm

UAV mass [kg]	Exit velocity of the UAV [m/s]
0	55
100	55
150	55
200	50
300	40

**OHTO is the ultimate tactical launcher solution**

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Robonic Ltd Oy is Europe's only launcher specialist with longstanding supplier and support arrangements in place with many key system suppliers in the global drone and unmanned aircraft industrial base.



**R**obonic hardware has been proven compatible to launch many of the world's major target drone types. These include the Avartek AT-04, Falconet, Northrop KDR, EADS 3Sigma Irisjet, QinetiQ Target Systems Snipe, Voodoo, Vindicator, Banshee family and Rattler, the Airbus DT target family, Kratos (CEI) Firejet, Leonardo Mirach 40 and SCR Scrab targets.

Robonic launchers support or have supported tactical systems like the Ruag Ranger, Safran Electronics and Defense Sperwer family of UAV, Leonardo Falco, Lockheed Martin Fury and Paramount Group Roadrunner.

Over 20 different air vehicles in all - both tactical and targets - have been integrated to be launched off Robonic launchers.

Offering a complete in house capability, Robonic provides multi-role launchers and has the know-how to integrate TUAV's or target drones on to these.



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