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Rheinmetall and Escribano demonstrate new modules for the Mission Master SP A-UGV

Rheinmetall and Escribano Mechanical & Engineering (EM&E) have collaborated in recent months in order to demonstrate two new Rheinmetall Mission Master SP modules carrying EM&E sensors and weapons systems. A series of demonstrations took place at EM&E's new facilities in San Juan del Viso in the presence of Spanish government officials, including the Army chief of staff and international delegations. A demonstration for His Majesty King Felipe VI was also held at Viator in the Province Almería in southern Spain.

The demonstrations involved two Mission Master SP Autonomous Unmanned Ground Vehicles (A-UGVs). For these activities, a Mission Master SP – Fire Support was equipped with the Escribano Guardian 2.0 Remote Weapon Station (RWS), while a Mission Master SP – Surveillance carried the Escribano OTEOS sensor package. Thanks to the mast-mounted OTEOS, the Mission Master SP – Surveillance successfully detected a threat and automatically shared its location with the Mission Master SP – Fire support, triggering a slew-to-cue. Various Mission Master control modes were showcased, including follow-me, autonomous navigation, and convoy modes.

Live firing with the Mission Master SP – Fire Support equipped with the Escribano Guardian 2.0 RWS in the Dillon Aero M134D configuration was conducted using UGV/RWS portable controllers integrated with a safety board architecture, allowing safe wireless firing. As with all Mission Master operations, targets are never engaged automatically. A human in the loop is always required for all kinetic decisions.

For Rheinmetall Canada, this series of demonstrations in Spain marks the first integration of an EM&E payload on its Mission Master SP A-UGV and its first collaboration with a Spanish company. This success underscores Rheinmetall's mastery of system integration and the growing capabilities of its Mission Master family.

Mission Master SP A-UGV on YouTube:
<https://youtu.be/Mm11pq1ka8o>



► Key facts

- Rheinmetall Canada and Escribano Mechanical & Engineering presented two versions of the Mission Master SP
- Live demonstrations attracted high-ranking international and Spanish delegations, including King Felipe VI
- Mission Master SP in Surveillance and Fire Support versions with sensors and weapon stations EM&E

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