

flings jets. Prior to launch, the squadron crew brings the 135-pound RQ-21A up to full power and sets the launcher at the desired angle of attack. The UAV gets airborne within a 40-foot area and quickly clears obstacles in its launch flight path.

Recovering the Blackjack is a bit more dramatic. In anticipation of the UAV's return, Marines extend the Skyhook's articulated telescoping mast. The Blackjack flies back to the launch/recovery area via commands through the GCS. Then the Marines snag it.

"Basically, what the Blackjack does is fly its wing right into a bungee-style line hanging from the Skyhook," Rector says. "When it hits the line, the wing hooks onto it and locks. It slides down the line and is [suspended] by the hook. People would think the [UAV] would just spin around, but it doesn't. Marines run out to the Skyhook and lower it to the ground and they're off and running."

Two Marine CH-53E Sea Stallion helicopters can carry the entire setup. Once the kit is on terra firms, Humvees can tow the equipment to the launch site. Aside from the trailers, all RQ-21A system components can be handled by Marines on foot. Two Marines can place the aircraft on the launcher or retrieve it from the Skyhook. Each Marine squadron detachment would travel with five RQ-21 UAVs, two GCSs, and the launch and recovery equipment.

The RQ-21A will make its first shipboard deployments this year and the Marine Corps plans to acquire 32 Blackjacks for its three UAV squadrons. The Navy will buy another 25 systems.

"We're seeing sensor capability that, in the past, you saw on strategic-level UAVs," Rector says. "Now we're able to provide that sensing capability to warfighters at the operational level."

TAGS: navy, drones, RQ-21A, marines, UAVs

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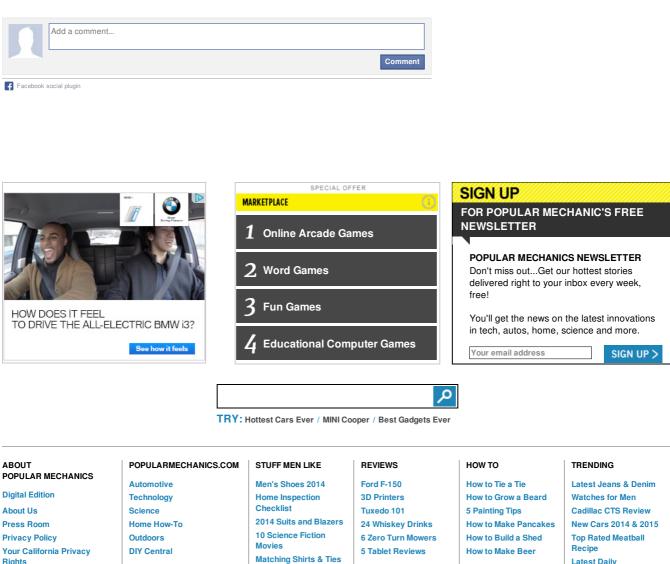
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