DropAir by ParaZero: Prospects for Precision Airdrop of the Folgore Brigade

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For the **Paratroopers Brigade "Folgore"**, the ability to project and sustain units in hostile or isolated territory are fundamental doctrinal pillars. In an era characterized by symmetrical threats and A2/AD (Anti-Access/Area Denial) systems, the integration of the **DropAir by ParaZero** system could represent a quantum leap for logistical support to paratrooper units, from reconnaissance teams to maneuver platoons.

The Operational Challenge: Sustenance in Contested Zones

In airborne operations, resupply via fixed-wing aircraft (C-130J or C-27J) exposes large carriers to high risks and requires large and secure drop zones (LZ). DropAir introduces the concept of **Distributed Precision Airdrop** which would allow the Folgore to:

- Receive critical loads (blood, ammunition, batteries) without revealing the position of units on the ground.
- Operate in dense urban environments or forests, where traditional drops are imprecise.
- Maintain tactical agility without relying on vulnerable ground convoys.

DropAir and the Folgore Brigade: The Future of Last-Mile Airborne Resupply

DropAir: HALO Drone-Centric Technology

The DropAir system borrows the **HALO (High-Altitude, Low-Opening)** technique, favored by the Folgore's reconnaissance units, applying it to UAV carriers.

- **Surgical Precision:** Thanks to the delayed parachute opening, the load falls in stabilized free fall for most of the journey, minimizing wind drift and ensuring pinpoint landing.
- **Rapid "Hit & Run" Release:** The drone does not need to land. It performs the drop and immediately returns to base or recovery point, reducing exposure to enemy radar systems.

Future Prospects: Towards Long-Range Strategic Resupply

The current 5KG kit is just the starting point. The integration of DropAir with larger platforms could open new scenarios for the Brigade:

1. Heavy-Lift Drones and Larger Loads

The future envisions the use of drones capable of carrying 50-100 kg of equipment (e.g., spare parts for mortars, anti-tank systems, or rations for entire platoons). The DropAir technology is

scalable and will allow heavy loads to be airdropped with the same millimetric precision as current medical kits.

2. Deep Strike and Trans-Horizon Distances

The evolution towards long-range fixed-wing or VTOL drones could allow the Folgore to be resupplied from bases located hundreds of kilometers away. DropAir, integrated into stealth or low-observability drones, ensures that resupply occurs with the minimum possible acoustic and visual signature.

3. Integration with Command and Control Systems (C2)

In the digital future of the Armed Forces, the resupply request can be sent directly from the paratrooper's tactical terminal. A drone will autonomously take off and, thanks to the DropAir system, deposit the load in the "courtyard" of the building occupied by the unit, ensuring continuity of action without interruption.

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Summary of Benefits for the Folgore

- **Support to Maneuver:** Enables autonomous or remote flight for real-time resupply.
- **Tactical Efficiency:** Quick release day/night without the need for landing, reducing the vulnerability of the carrier.
- **Extreme Precision:** System based on configurable pilot parachute to minimize drift in extreme conditions.

- **Military Customization:** Highly adaptable to tactical drones in use or future acquisition.
- **Protection of Sensitive Loads:** Proven capability in launching medical equipment and electronic sensors.
- **Scalability:** Potentially capable of handling any weight, limited only by the load capacity of the carrier drone.

Conclusion

The DropAir system by ParaZero is not just a technological accessory, but a force multiplier. For the Folgore Brigade, it would mean relying on an invisible, precise, and unstoppable aerial logistics line, capable of evolving in step with new electronic warfare and drone-centric scenarios.

News link: https://parazero.com/dropair-precision-airdrop-system/