



BENEFITS

- ▶ **Weather independent**
- ▶ **Glide ratio 5:1**
- ▶ **Flight time from exit to landing: ca. 15min**
- ▶ **Equipment payload up to 100l/50kg**
- ▶ **Navigation-HUD (Heads-Up-Display)**
- ▶ **CFD optimized aerodynamics**
- ▶ **Camouflage by stealth technology**
- ▶ **Stabilisation assistance**
- ▶ **Mountable for engines**
- ▶ **Adaptable to customer requirements**
- ▶ **Short lead time**

The military requirements for parachute systems are bringing soldiers precisely to a landing zone without exposing the transport aircraft, endangering it and giving away surprise. This is done with a mission type called HAHO (High Altitude High Opening). Using GRYPHON, a modular upgrade for parachute systems, soldiers can improve this mission type and reach the target with high speed, undisturbed by wind and protected by a much smaller signature. Another advantage for the soldier is the reduction of exposure to extreme cold and minimized need for an oxygen breathing system.

It achieves a glide ratio of 5:1 – that is nearly 40 km from 10.000 m under no wind condition.

Due to the fact that all equipment is hidden in a lifting body optimized for stealth, the RADAR-signature is extremely low. Detection of incoming GRYPHON-soldiers by airborne or ground radar will be extremely difficult.

The GRYPHON will be equipped with a guidance and stabilization system. Training for soldiers experienced in airborne operations will be brief and flight through rough weather and at night will be possible.

With simple and inexpensive small turbojet engines for UAV propulsion the GRYPHON will be able to transport people over distances of more than 100 km. This makes obsolete the need to exit at extreme altitudes to cover distances. An attack corridor of more than 200 km can be used in tactical considerations.

Dimensions:

- ▶ Span: 1.800 mm
- ▶ Length: 1.500 mm
- ▶ Heights: 430 mm
- ▶ Maximum jump weight: 225 kg (with TW9 340)
- ▶ Empty weight: 15 kg
- ▶ Payload: 50 kg

Speed:

- ▶ V_{max} : ca. 400 km/h
- ▶ V_{Stall} : ca. 150 km/h
- ▶ $V_{Bestglide}$ in 2.000 m: ca. 200 km/h
- ▶ $V_{Bestglide}$ in 10.000 m: ca. 300 km/h

Board Systems:

- ▶ Automatic Flight Control System
- ▶ GPS/PDA/HUD Navigation System
- ▶ OXYJUMP High Altitude Oxygen System
- ▶ Com System with Bone Resonance Microphone
- ▶ Wing Lowering System
- ▶ Emergency Wing Release System with Recovery Parachute
- ▶ TW9 340 Parachute System

**The GRYPHON is based completely on a modular theory.**

It can be adapted fast and easily to special needs and requirements. For example we use a TW-9 based parachute system for Landing but any other System with enough performance can be modified by our specialists to be compatible with the GRYPHON. Even the aerodynamic shape can be changed to accommodate special equipment due to our integrated CFD-CAD-CAM process.

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