OXYJUMP NG™ OXYGEN SUPPLY SYSTEM

ADVANCED, RUGGED, MODULAR DESIGN

Extended oxygen duration for parachutists

Parachutists executing high altitude/high opening (HAHO) or high altitude/low opening (HALO) jump missions require a robust oxygen supply technology. Designed with durable components to meet the rugged demand of special forces teams, Collins OXYJUMP NG™ advanced oxygen supply system features our new hybrid pulse technology to provide an extended oxygen duration and ensure necessary blood saturation during all mission phases.

Combining demand breathing regulator technology with our new oxygen-saving pulse delivery system, OXYJUMP NG uses significantly less oxygen for a complete jump sequence.* And because it doesn't require a separate, expensive and bulky console, OXYJUMP NG is ideal for covert missions in small aircraft.

Our modular design offers mission flexibility – enabling OXYJUMP NG to be used on most parachute systems and harnesses, including rescue parachutes or in tandem configuration. The system provides flexibility to be used either with an individual pre-breathing bottle or through seamless integration with an oxygen console.

KEY FEATURES & BENEFITS

- Altitude-controlled hybrid pulse technology
- Uses significantly less oxygen for a complete jump
- Compatible with most tactical parachute systems
- In-field test equipment to increase mission safety
- Extended lifetime usage with routine maintenance

Collins Aerospace

ADVANCED CAPABILITIES

A robust and proven system, OXYJUMP NG is capable of adapting to the user's breathing pattern and providing an oxygen pulse at the beginning of each inhalation. The system also comes equipped with a changeover valve, enabling a seamless transition between the pre-breathing phase on the aircraft and the jump phase.

Designed to be versatile, OXYJUMP NG can support the entire mission team by providing an independent oxygen supply for both parachutists and aircrew. In addition, it can support the loadmaster in aerial delivery missions – even in front of an open cargo hatch at 10,688 m (35,000 ft).

COMPONENTS

- Hybrid pulse oxygen breathing regulator with change-over valve (COV) mounted on top of the descent oxygen supply cylinder. Integrating the breathing regulator and pressure reducer with a manometer and shut-off valve enables small and lightweight assembly.
- Descent oxygen supply source consisting of oxygen supply cylinder (1- or 2-liter composite cylinder)
- Auxiliary hose connecting to an ascent oxygen supply source with either a dedicated pre-breathing supply cylinder (2- or 4-liter) or compatible oxygen console or aircraft integrated oxygen supply
- An oxygen breathing mask with pulse, demand and anti-suffocation-valve. The mask could be used to connect to ballistic protected helmets or to a dedicated HAHO/HALO helmet.

CORE TECHNICAL DATA

Operating altitude	35,000 ft/10.688 m
Breathing mask	3 sizes, integrated microphone and anti-suffocation-function
Oxygen cylinder	Size and type upon customer request: 1l, 2l and 4l steel or composite (3.000 psi)
Storage temperatures	Low -55 ° C High 85 ° C
Operational temperatures	Low -55 ° C (short time exposure) High 70 °

PNR / NSN	MASK SIZE	CFK JUMP CYCLINDER	AUX HOSE	PRE-BREATHING CYCLINDER	TRANSPORT CASE
E31228-02-23	large wide	X	X	-	-
E31228-02-24	medium wide	X	X	-	-
E31228-02-25	medium narrow	X	X	-	-
E31228-02-29 / 4240-12-420-0626	all 3 sizes	X	X	X	X

Specifications subject to change without notice.

Collins Aerospace

COLLINS AEROSPACE

B/E Aerospace Systems GmbH
Revalstrasse 1
23560 Luebeck, Germany
+49.451.4093.0 | fax: +49.451.4093.4488
lifesupport@collins.com
collinsaerospace.com

22-30213 10/22 © 2022 Collins Aerospace
All logos, trademarks or service marks used herein are the property of their respective owners.