



BENEFITS

- ▶ **Independence of oxygen consoles or aircraft oxygen supply systems**
- ▶ **Compatible to most tactical parachute systems**
- ▶ **Increased efficiency due to altitude-controlled oxygen breathing regulator**
- ▶ **Increased mission duration due to 200 bar (3,000 psi) technology**
- ▶ **Increased flexibility due to modular design and availability of various sizes of ascent and descent cylinders**
- ▶ **Increased mission safety due to availability of in-field test equipment**
- ▶ **No dangerous goods during transport due to availability of in-field oxygen transfer pump**
- ▶ **Easy system upgrades due to modular and system certification**

Intended Use

OXYJUMP is designed to meet the demanding requirements of Special Forces or other airborne military forces.

The system may be used for either High Altitude/High Opening (HAHO) or High Altitude/Low Opening (HALO) missions.

The modular design of the system ensures a great amount of mission flexibility. Due to its design OXYJUMP may be used on most tactical parachute systems even in tandem configuration.

Typical missions may include descents from 10,000 m (33,000 ft) under extreme climatic conditions.

Pre-breathing of 100% aviators dry oxygen for a period of at least 30 minutes and a descent duration of up to 30 minutes are required for these HAHO missions. The tested mission profile ensures coverage of long distances during HAHO missions.

OXYJUMP is fully integrated into SHAPS (Special High Altitude Parachute System) provided by SPELCO.

SPELCO also provides a complete logistic support system for SHAPS and all system components.

OXYJUMP – Technical Data

	OXYJUMP (2L ascent, 1L descent cylinder) (Customized variants) Climb Cylinder Assembly (add. 2L cylinder with reducer)	E31228-02-002 E31228-02-XXX E36700-00
	HAHO Freefall helmet (standard)	E32821-01 (large/x-large) E32822-01 (small/medium)
	Oxygen breathing mask (for standard helmet)	E36441-01-SN1 (small-narrow) E36441-01-MN1 (medium-narrow) E36441-01-MW1 (medium-wide) E36441-01-LW1 (large-wide)
	MOBILE OXYJUMP TESTER MOT 2020	E34500-01
	DRÄGER OXYGEN BOOSTER DOB-T High Pressure Hose 50L Oxygen Supply Cylinder	E36529-00 U2451-00 E36530-00

NATO Supplier Code: C8406

MOBILE OXYJUMP TESTER – MOT 2020

The Mobile OXYJUMP Tester MOT 2020 is designed for in-field testing of ascent and descent pressure reducers, demand breathing regulator with automatic change-over valve and diluter valve, and the oxygen breathing mask of the OXYJUMP system.

All tests may be performed without requiring pressure supplies other than the oxygen cylinders of the OXYJUMP system.

- ▶ High level of availability due to minimised maintenance and calibration.
- ▶ Easy to operate due to fixed test processes.
- ▶ No training requirements.
- ▶ Air transportability without requiring re-calibration.
- ▶ No internal pressure supply.
- ▶ Battery powered

DRÄGER OXYGEN BOOSTER - DOB-T

The portable electric driven high-pressure oxygen transfer pump DOB-T is designed for transferring gaseous oxygen from large storage cylinders into portable cylinders as used on the OXYJUMP system.

The system is approved for air transport.

During transport the DOB-T is housed in a container.

- ▶ Pure oxygen decanting and boosting up to 200 bar (3,000 psi)
- ▶ Connects up to 4 different sources
- ▶ Fully auto operation Both/either CGA and/or DIN fittings available
- ▶ Different supply voltages
- ▶ Meets stringent German design code for oxygen compatible components

Technical Description

OXYJUMP is based upon 200 bar (3,000 psi) technology that provides extended oxygen duration while using the same cylinder volume. The system consists of the following main components:

- ▶ Demand oxygen breathing regulator with automatic change over valve (ACOV) and diluter valve.
- ▶ Descent oxygen supply source consisting of a pressure reducer with pressure gauge and an oxygen supply cylinder.
- ▶ Ascent oxygen supply source consisting either of a pressure reducer with pressure gauge and an oxygen supply cylinder (standard) or an oxygen console.
- ▶ Oxygen breathing mask either connected to a helmet via bayonet-couplings or installed into an full face helmet.

The demand breathing regulator provides programmed oxygen dilution from mean sea level up to altitudes of 10.000 m (33,000 ft) ensuring sufficient oxygen level and volume.

The ACOV permits automatic switching from the ascent to the descent cylinder without interruption of the oxygen supply.

Automatic change-over from ascent to descent cylinder takes place whenever the pressure inside the ascent cylinder is less than 4 bar (60 psi) or the ascent cylinder is disconnected.

In case a second ascent cylinder is connected to the system the ACOV switches back to the ascent cylinder. The change-over from one cylinder to the other is indicated by a pin integrated in the ACOV.

The two-cylinder system enables the parachutist to use one cylinder for pre-breathing during ascent without being connected to an external supply console.

The ascent supply cylinder is disconnected prior descent. For longer pre-breathing periods the ascent cylinder can easily be replaced during operation.

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