

# CYPRES 2

Reliability made in Germany



**CY**bernetic **P**arachute **RE**lease **S**ystem

Military Equipment Catalog



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Authorized Military CYPRES Dealer

## Military CYPRES 2

The most sophisticated Automatic Activation Device in the world:



Released in 2003, the Military CYPRES 2 is the most sophisticated AAD (Automatic Activation Device) world wide. It combines German high tech engineering with outstanding quality and reliability.

CYPRES is the most advanced AAD you will find on the market today. More than 69 countries, NATO allied forces, as well as the US Navy, Air Force and Army rely on Military CYPRES when it comes to parachuting missions. All in all more than 100.000 CYPRES units are in service today.

For training mode a simple switch on before boarding enhances parachuting safety for the next 14 hours to come. By using the unique simplicity of handling, we minimize a potential error input by the stressed soldier. As long as on the ground the electronic processing unit automatically compensates for pressure changes, which are caused by the weather, frequently within its functioning period. The CYPRES senses take off and acceleration of the aircraft and starts to monitor any action made by the parachutist. The soldier can focus his full concentration on the mission at hand.

When it comes to the mission the Military CYPRES 2 shows its superior technology. It can be switched on to operational mode even during flight in an active pressurized cabin and can be set for any target - with the ease of the extremely comfortable one button handling.

The system is an independent back up safety system that will not interfere or restrict the normal parachuting activity. It is designed to activate in emergency situations where the parachutist is not able to perform the proper procedures. The mission objective is not endangered.

CYPRES acts on pressure inputs to the sensing unit, speed and altitude transducers generate the activation criteria. Depending on the CYPRES model in use, it will activate at various preset altitudes when speed exceeds a given setting.

The reserve activation is initiated by the EOS release unit (cutter). This cutter simply severs the closing loop of the reserve container and allows to begin the reserve deployment sequence.

This unique activation method was invented and patented by Helmut Cloth the founder of Airtec in 1987. Since 1991 this method is state of the art in AAD technology.

### Release Unit

The waterproof cutter body is made from X14CrMoS17 stainless steel. Inside is the only moving part of the CYPRES, a cutting-blade-piston. It has enough power to easily cut steel ripcord cable within a blink of an eye.

### Control Unit

The interface works with the simplicity of a single button to access all CYPRES functions. All user interactions with CYPRES are designed to work with ease and minimal input.

### Processing Unit

All CYPRES electronics are contained in the rugged, waterproof casing. It is small and lightweight with rounded edges. The casing protects from any outside influence and EMP disturbance.

We are proud to say that thru this date we have recorded more than 4000 lives saved.



# Military CYPRES 2 1000/35 A



This model is designed for versatile military use with midsize canopies and light payload for single jumper. The activation setting reflects the short opening distance of midsize tactical square parachutes.

**Activation altitude: approx. 1000 ft.**

**Activation speed: approx. 35 m/s**

For 1-Pin Container: Part no: 3431322

NSN: 1670-12-361-9578

GTIN: 4260375530700

For 2-Pin Container: Part no: 3432322

NSN: 1670-12-361-9579

GTIN: 4260375530717

## Specifications

Activation altitude .....	approx. 1000 ft
Activation speed .....	approx. 35 m/s (78 mph)
Dimension of the processing unit .....	approx. 3 1/3 x 2 2/3 x 1 1/4 inch (85 x 43 x 32 mm)
Cable length of the control unit.....	approx. 47 1/3 inch (1200 mm)
Cable length of the release unit.....	approx. 20 inch (500 mm)
Volume .....	9,15 cubic inch (150 cm <sup>3</sup> )
Weight .....	8,18 ounces (232 grams)
Working temperature .....	+145° F to -25° F * (+ 63° to - 32° centigrade )
Maximum allowable humidity.....	up to 99,9 % rel. humidity
Waterproof.....	up to 24 hours down to a depth of 8 feet
Altitude adjustment range according .....	200 to 1075 hPa (5,906 to 31,745 In.Hg)
Operating range below / above sea level .....	-2140 feet to +65500 feet (-650 m to +20000 m)
Maintenance cycle.....	5 and 10 years from date of manufacture +/- 6 months
Total Service Life.....	15,5 years from date of manufacture
Total Warranty Time .....	15,5 years from date of manufacture*

\* If recommended maintenances have been performed within the scheduled time frames.

The Military CYPRES combines two functions in one device:

- Training mode for all jumps at local dropzones, as CYPRES automatically calibrates to ground level (QFE) and monitors the parachuting activity.
- Operational mode for all jumps to a remote landing area, as the device is easily set to the landing elevation, using absolute air pressure (mbar / In.Hg) wherever you are, during flight, in pressure cabin or preboarding.



# Military CYPRES 2 1500/35 A



This CYPRES is developed and suitable for various applications using tactical canopies and higher payload. The increased activation altitude of 1500 ft. is appropriate for the larger opening distance of the majority of tactical canopies in the field.

**Activation altitude: approx. 1500 ft.**

**Activation speed: approx. 35 m/s**

For 1-Pin Container: Part no: 3431323      NSN: 1670-12-361-9580      GTIN: 4260375530724  
For 2-Pin Container: Part no: 3432323      NSN: 1670-12-361-9581      GTIN: 4260375530731

### Specifications

Activation altitude ..... approx. 1500 ft  
Activation speed ..... approx. 35 m/s (78 mph)  
Dimension of the processing unit ..... approx. 3 1/3 x 2 2/3 x 1 1/4 inch (85 x 43 x 32 mm)  
Cable length of the control unit..... approx. 47 1/3 inch (1200 mm)  
Cable length of the release unit..... approx. 20 inch (500 mm)  
Volume ..... 9,15 cubic inch (150 cm<sup>3</sup>)  
Weight ..... 8,18 ounces (232 grams)  
Working temperature ..... +145° F to -25° F \* (+ 63° to - 32° centigrade )  
Maximum allowable humidity..... up to 99,9 % rel. humidity  
Waterproof..... up to 24 hours down to a depth of 8 feet  
Altitude adjustment range according ..... 200 to 1075 hPa (5,906 to 31,745 In.Hg)  
Operating range below / above sea level ..... -2140 feet to +65500 feet (-650 m to +20000 m)  
Maintenance cycle..... 5 and 10 years from date of manufacture +/- 6 months  
Total Service Life..... 15,5 years from date of manufacture  
Total Warranty Time ..... 15,5 years from date of manufacture\*

\* If recommended maintenances have been performed within the scheduled time frames.



The Military CYPRES combines two functions in one device:

- Training mode for all jumps at local dropzones, as CYPRES automatically calibrates to ground level (QFE) and monitors the parachuting activity.
- Operational mode for all jumps to a remote landing area, as the device is easily set to the landing elevation, using absolute air pressure (mbar / In.Hg) wherever you are, during flight, in pressure cabin or preboarding.



# Military CYPRES 2 1900/35 A



This CYPRES is specialized for the needs of military tandem jumps with typical tandem canopies and payloads. Taking into consideration the higher altitude for tandem canopy deployment in conjunction with the extensive deployment distance of the tandem reserve canopy, this device is set to 1900 ft. activation altitude.

**Activation altitude: approx. 1900 ft.**

**Activation speed: approx. 35 m/s**

For 1-Pin Container: Part no: 3631304    NSN: 1670-12-361-9582    GTIN: 4260375530748  
For 2-Pin Container: Part no: 3632304    NSN: 1670-12-361-9583    GTIN: 4260375530755

### Specifications

Activation altitude ..... approx. 1900 ft  
Activation speed ..... approx. 35 m/s (78 mph)  
Dimension of the processing unit ..... approx. 3 1/3 x 2 2/3 x 1 1/4 inch (85 x 43 x 32 mm)  
Cable length of the control unit..... approx. 47 1/3 inch (1200 mm)  
Cable length of the release unit..... approx. 20 inch (500 mm)  
Volume ..... 9,15 cubic inch (150 cm<sup>3</sup>)  
Weight ..... 8,18 ounces (232 grams)  
Working temperature ..... +145° F to -25° F \* (+ 63° to - 32° centigrade )  
Maximum allowable humidity..... up to 99,9 % rel. humidity  
Waterproof..... up to 24 hours down to a depth of 8 feet  
Altitude adjustment range according ..... 200 to 1075 hPa (5,906 to 31,745 In.Hg)  
Operating range below / above sea level ..... -2140 feet to +65500 feet (-650 m to +20000 m)  
Maintenance cycle..... 5 and 10 years from date of manufacture +/- 6 months  
Total Service Life..... 15,5 years from date of manufacture  
Total Warranty Time ..... 15,5 years from date of manufacture\*

\* If recommended maintenances have been performed within the scheduled time frames.



The Military CYPRES combines two functions in one device:

- Training mode for all jumps at local dropzones, as CYPRES automatically calibrates to ground level (QFE) and monitors the parachuting activity.
- Operational mode for all jumps to a remote landing area, as the device is easily set to the landing elevation, using absolute air pressure (mbar / In.Hg) wherever you are, during flight, in pressure cabin or preboarding.



# Military CYPRES 2 2500/29 A



This CYPRES is customized for the Bundle Master when jumping with tethered bundle payload. The activation altitude of 2500 ft. addresses large size parachute deployment and heavy loads. The activation speed of 29 m/s is adjusted to the slower fall rate under large bundle drogue after bundle load cutaway.

For the bundle delivery parachute, we recommend a vertical separation of 1000 ft. minimum. A combination with the 1500/35A model would be our recommendation.

**Activation altitude: approx. 2500 ft.**

**Activation speed: approx. 29 m/s**

For 1-Pin Container: Part no: 3631307      NSN: 1670-12-361-9584      GTIN: 4260375530762  
For 2-Pin Container: Part no: 3632307      NSN: 1670-12-361-9585      GTIN: 4260375530779

## Specifications

Activation altitude ..... approx. 2500 ft  
Activation speed ..... approx. 29 m/s (65 mph)  
Dimension of the processing unit ..... approx. 3 1/3 x 2 2/3 x 1 1/4 inch (85 x 43 x 32 mm)  
Cable length of the control unit..... approx. 47 1/3 inch (1200 mm)  
Cable length of the release unit..... approx. 20 inch (500 mm)  
Volume ..... 9,15 cubic inch (150 cm<sup>3</sup>)  
Weight ..... 8,18 ounces (232 grams)  
Working temperature ..... +145° F to -25° F \* (+ 63° to - 32° centigrade )  
Maximum allowable humidity..... up to 99,9 % rel. humidity  
Waterproof..... up to 24 hours down to a depth of 8 feet  
Altitude adjustment range according ..... 200 to 1075 hPa (5,906 to 31,745 In.Hg)  
Operating range below / above sea level ..... -2140 feet to +65500 feet (-650 m to +20000 m)  
Maintenance cycle..... 5 and 10 years from date of manufacture +/- 6 months  
Total Service Life..... 15,5 years from date of manufacture  
Total Warranty Time ..... 15,5 years from date of manufacture\*

\* If recommended maintenances have been performed within the scheduled time frames.

The Military CYPRES combines two functions in one device:

- Training mode for all jumps at local dropzones, as CYPRES automatically calibrates to ground level (QFE) and monitors the parachuting activity.
- Operational mode for all jumps to a remote landing area, as the device is easily set to the landing elevation, using absolute air pressure (mbar / In.Hg) wherever you are, during flight, in pressure cabin or preboarding.



## Aircrew CYPRES 2



This CYPRES is dedicated to assist an airmen in the emergency situation after a bail out from the aircraft or an unintentional fall out of the aircraft (working at open tailgates, etc.).

The standard Aircrew CYPRES 2 version can be delivered with 2 different arming means:

### 1. Automatic arming by Static Line:

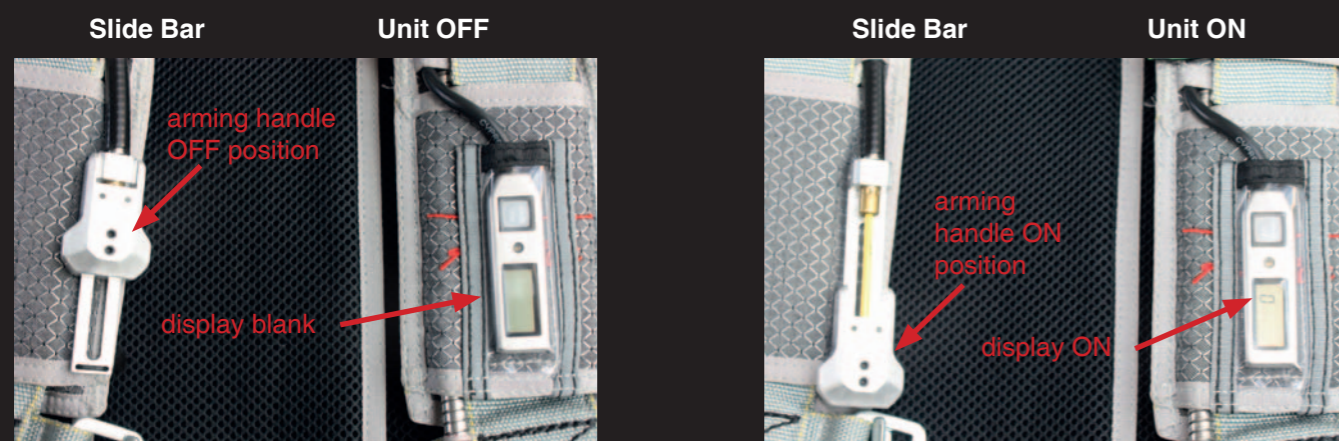
For pilots or airmen who are permanently seated. The static line will automatically arm the unit by pulling the arming cable in case of an emergency bail out.

During normal flight the unit is disarmed. It will not interfere with all possible flight scenarios or pressure cabin situations.

### 2. Manual arming by Slide Bar:

The airmen arms the device manually right before working at the aircraft door or open tailgate etc. Disarming is possible at anytime by pushing the handle back into OFF position.

Aircrew CYPRES 2:			
For 1-Pin Container:	Part no: 3501001	NSN: 1670-12-362-0406	GTIN: 4260375530434
For 2-Pin Container:	Part no: 3502001	NSN: 1670-12-385-6949	GTIN: 4260375530441
For 3-Pin Container:	Part no: 3503001	NSN: 1670-12-375-0252	GTIN: 4260375530465
Static Line:			
	Part no: 972013	NSN: n.n.	GTIN: 4260375533183
Slide Bar:			
	Part no: 972030	NSN: n.n.	GTIN: 4260375533664



### Specifications

Activation altitude .....	approx. 13000 feet (approx. 4000 meter) and below
Activation speed .....	approx. 35 m/s (6900 feet/min)
Dimension of the processing unit .....	3 1/3 x 2 2/3 x 1 1/4 inch (85 x 43 x 32mm)
Cable length of control unit.....	can vary, standard approx. 39 1/3 inch (1000 mm)
Cable length of the release unit.....	20 inch (500 mm)
Volume (without housing) .....	standard approx. 144 cm <sup>3</sup>
Weight (without housing) .....	standard approx. 9,17 ounces (260 grams)
Working temperature .....	+63° to -32° Celsius
Maximum allowable humidity.....	up to 98 % rel. humidity
Operating range below / above sea level .....	-2140 feet to +65500 feet (-650 m to +20000 m)
Minimum operating altitude.....	200 m / + deployment distance of parachute in use
Maintenance cycle.....	5 and 10 years from date of manufacture
Total Service Life.....	15,5 years from date of manufacture*
Total Warranty Time .....	15,5 years from date of manufacture*

\* If recommended maintenances have been performed within the scheduled time frames.



## SLS CYPRES 2

The CYPRES 2 Static Line System (SLS) is designed to initiate the reserve parachute activation of a low level round canopy static line jumper who finds themselves in an emergency situation. If the main parachute does not slow down the jumper to a vertical speed to less than 13 meters per second approx 500 to 600 feet below the aircraft, the CYPRES SLS is designed to initiate the reserve parachute.

The CYPRES 2 Static Line System is a combination of:  
 1 CYPRES 2 SLS Aircraft Module  
 1 CYPRES 2 SLS Self-Test Module  
 and multiple CYPRES 2 SLS units



SLS Aircraft Module - boxed



Self-Test Module



SLS unit - 2-pin version

as of 2017-01, subject to change without notice





# SLS CYPRES 2 Self-Test Module

This is a device mainly for the rigging / storage person. It allows them, whenever they want, to check all their CYPRES SLS units by triggering the units to execute a self-test.

Just one click on the push button and all their units will execute a self-test. Every unit will count down the typical 10 CYPRES self-test digits by blinking white 10 times.

After the self-test is completed, every SLS Unit blinks white at 5 seconds intervals, indicating the successful self-test. The SLS CYPRES will blink white in the 5 second interval for the typical CYPRES 14 hours. After that it changes back to the 2 minutes white blinking interval.

If the SLS Unit detects a problem, it will at the end of the self-test light the red LED permanently for 3 minutes and thereafter blink in red intervals instead of the white intervals. The red blinking can only be eliminated by repair or if the reason for the red blinking is resolved, by the next selftest.

The self-test procedure can be repeated as often as wanted without causing a problem.

In practice: The store manager can trigger a self-test of his CYPRES SLS units early in the morning of a jumping day in his store. All reserves blinking white are good to give out for use. If a SLS unit should blink red he should not give it out but proceed it for a check.



**Self-Test Module**  
Part no: 4520000  
NSN: 1670-12-394-3791  
GTIN: 4260375532094

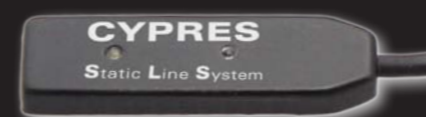


SLS unit mounted in chest reserve

## SLS CYPRES 2 unit

### Specifications SLS unit

Activation altitude ..... approx. 500 ft to 600 ft below jump aircraft  
 Activation speed ..... approx. > 13 m/s / 29 mph  
 Dimension of the processing unit ..... approx. 3 1/3 x 2 2/3 x 1 1/4 inch (85 x 43 x 32 mm)  
 Cable length of the display unit ..... approx. 25 inch (635 mm)  
 Cable length of the release unit ..... approx. 20 inch (500 mm)  
 Volume ..... approx. 8,9 cubic inch (146 cm<sup>3</sup>)  
 Weight ..... approx. 4,66 ounces (165 grams)  
 Working temperature ..... +145° F to -25° F \* (+ 63° to - 32° centigrade )  
 Waterproof ..... up to 24 hours down to a depth of 8 feet  
 Maximum allowable humidity ..... up to 99,9 % rel. humidity  
 Operating range below / above sea level ..... -2140 feet to +65500 feet (-650 m to +20000 m)  
 Maintenance cycle ..... 5 and 10 years from date of manufacture +/- 6 months  
 Total Service Life ..... 15,5 years from date of manufacture  
 Total Warranty Time ..... 15,5 years from date of manufacture\*



CYPRES 2 SLS unit  
For 1-pin Chest Reserve Container:

Part no: 4511000  
NSN: 1670-12-394-3784  
GTIN: 4260375530809

For 2-pin Chest Reserve Container:  
Part no: 4512000  
NSN: 1670-12-394-3789  
GTIN: 4260375530816

as of 2017-01, subject to change without notice

\* If recommended maintenances have been performed within the scheduled time frames.



# SLS CYPRES 2 Aircraft Module

The jumpmaster has to switch on the CYPRES SLS Aircraft Module which is at a defined location inside the jump aircraft at least one minute before dropping.

After the CYPRES SLS unit gets into contact with the switched on CYPRES SLS Aircraft Module, it goes into 'working mode'. To demonstrate this, the SLS unit blinks white every two seconds. If there should be any kind of problem it will blink red every two seconds.

**Features:**

- on / off.....a switch on the cable connected control unit
- suitability.....for all types of jump aircraft
- transportable .....in a camouflage nylon container

working frequency .....433 MHz  
output ..... 1 Milliwatt (0 dBm)  
weight..... approx, 7 lbs (3,5 kg)

Part no: 4530000    NSN: 1670-12-394-3793    GTIN: 4260375532087



**SLS Aircraft Module  
- unpacked, front side**



**SLS Aircraft Module  
- unpacked, back side**

as of 2017-01, subject to change without notice



**SLS Aircraft Module - packed**





## Expert CYPRES 2



This CYPRES is designed for all sport disciplines in parachuting. This proven model is the right unit for Military Display Teams, Competition Teams jumping accuracy, formation and style or those using Sport Parachute equipment. The activation altitude of 750 ft. and the activation speed of 35 m/sec. is customized to the needs of the modern sport skydiver. With the simplicity of only one action (switch on) the system runs self-test, calibrates to Drop Zone ground level and monitors the skydiving activities for the next 14 hours to come. CYPRES features an automatic shut off after a 14 hour working period. Due to the lower operating range and working temperature this model is not recommended for HAHO, HALO missions.

### feet version:

For 1-Pin Container:	Part no: 3121000	NSN: 1670-12-335-6635	GTIN: 4260375530618
For 2-Pin Container:	Part no: 3122000	NSN: 1670-12-338-5758	GTIN: 4260375530625

### meter version:

For 1-Pin Container:	Part no: 3111000	NSN: 1670-12-337-0018	GTIN: 4260375530632
For 2-Pin Container:	Part no: 3112000	NSN: 1670-12-337-0019	GTIN: 4260375530649

### Specifications

Activation Altitude:	approx. 750 ft
Activation Speed:	approx. 35 m/s / 78 mph
Dimensions of the processing unit:	approx. 3 1/3 x 2 2/3 x 1 1/4 inch (85 x 43 x 32mm)
Cable length of control unit:	approx. 25 1/2 inch (650mm)
Cable length of release unit:	approx. 20 inch (500mm)
Volume	9,15 cubic inch (150cm <sup>3</sup> )
Weight	6,98 ounces (198 grams)
Working Temperature:	+ 63°C to -25°C
Maximum allowable humidity:	Up to 99,9 % rel. Humidity
Waterproof:	up to 24 hours down to a depth of 8 feet
Altitude adjustment range:	+/- 3000 ft (1000 m)
Operating range below / above sea level	-2140 feet to +26000 feet (-650 m to +8000 m)
Recommended Maintenance Cycle:	5 and 10 years from date of manufacture
Total Service Life	15,5 years from date of manufacture
Total Warranty Time	15,5 years from date of manufacture*

\* If recommended maintenances have been performed within the scheduled time frames.





## Student CYPRES 2



The Student CYPRES is suitable for student training. The lower activation speed of 13 m/sec and the activation altitude of 1000 ft. is handling the student emergency situations, like line over, partial canopy inflation, and spinning malfunctions under open canopy, as well as other free fall scenarios that may occur. This proven parameters for activation gives the parachuting training school the confidence in an enhanced safety for their students.

With the simplicity of only one action (switch on) the system runs self-test, calibrates to Drop Zone ground level and monitors the skydiving activities for the next 14 hours to come. CYPRES features an automatic shut off after a 14 hour working period. The Student CYPRES 2 model is waterproof up to 24 hours down to 8 ft .

### feet version:

For 1-Pin Container:	Part no: 3221100	NSN: 1670-12-335-6735	GTIN: 4260375530823
For 2-Pin Container:	Part no: 3222100	NSN: 1670-12-361-6805	GTIN: 4260375530830

### meter version:

For 1-Pin Container:	Part no: 3211100	NSN: 1670-12-357-7369	GTIN: 4260375530861
For 2-Pin Container:	Part no: 3212100	NSN: 1670-12-337-0020	GTIN: 4260375530878

### Specifications

Activation Altitude:	approx. 1000 ft
Activation Speed:	approx. 13 m/s / 29 mph
Dimensions of the processing unit:	approx. 3 1/3 x 2 2/3 x 1 1/4 inch (85 x 43 x 32mm)
Cable length of control unit:	approx. 39 1/3 inch (1000mm)
Cable length of release unit:	approx. 20 inch (500mm)
Volume	9,15 cubic inch (150cm³)
Weight	7,54 ounces (214 grams)
Working Temperature:	+ 63°C to -25°C
Maximum allowable humidity:	Up to 99,9 % rel. Humidity
Waterproof:	up to 24 hours down to a depth of 8 feet
Altitude adjustment range:	+/- 3000 ft (1000 m)
Operating range below / above sea level	-2140 feet to +26000 feet (-650 m to +8000 m)
Recommended Maintenance Cycle:	5 and 10 years from date of manufacture
Total Service Life	15,5 years from date of manufacture
Total Warranty Time	15,5 years from date of manufacture*

\* If recommended maintenances have been performed within the scheduled time frames.



# changeable MODE CYPRES 2



The changeable MODE CYPRES2 is the next step in our AAD technology and combines the CYPRES proverbial “Reliability made in Germany“ with the desire for enhanced application flexibility.

### Features

- flexible mode change in the field
- safe setting procedure
- unwanted mode change blocked

The user can switch between the modes (Expert - Student - Tandem - Speed) on his own. A sophisticated handling procedure for the Mode Change prevents from an unintentional setting. All handling is fully identical to all other civilian CYPRES.

Each particular set mode is fully identical in it's behaviour with the individual civilian origin model.

Default delivery setting of changeable MODE units is type Expert, scale feet.

For 1-Pin Container:	Part no: 3001000	NSN: n.n.	GTIN: 4260375530519
For 2-Pin Container:	Part no: 3002000	NSN: n.n.	GTIN: 4260375530526

### Specifications

Activation Altitude:	.....	according to set MODE
Activation Speed.....	.....	according to set MODE
Dimensions of the processing unit.....	approx. 3 1/3 x 2 2/3 x 1 1/4 inch (85 x 43 x 32mm)	
Cable length of control unit.....	approx. 39 1/3 inch (1000mm)	
Cable length of release unit.....	approx. 20 inch (500mm)	
Volume .....	9,15 cubic inch (150cm³)	
Weight .....	6,98 ounces (198 grams)	
Working Temperature.....	+ 63°C to -25°C	
Maximum allowable humidity.....	Up to 99,9 % rel. Humidity	
Waterproof.....	up to 24 hours down to a depth of 8 feet (2,5m)	
Altitude adjustment range.....	+/- 3000 ft (1000 m)	
Operating range below / above sea level.....	-2140 feet to +26000 feet (-650 m to +8000 m)	
Recommended Maintenance Cycle.....	5 and 10 years from date of manufacture	
Total Service Life .....	15,5 years from date of manufacture	
Total Warranty Time .....	15,5 years from date of manufacture*	

\* If recommended maintenances have been performed within the scheduled time frames.







# Military CYPRES 2 Technology

 **TARGET SETTING**  
quick, easy, unlimited range

For tactical applications in remote areas, the Military CYPRES activation altitude can be preset easily on ground, or in flight, or even in a pressurized cabin. A CYPRES Calculator is available, helping to convert and acquire pressure values. A useful tool, supplied free of charge.

 **NO BATTERY CHANGE**  
permanent work capability

CYPRES operates with a maintenance free power supply - no need for user record keeping, stocking of batteries, or battery replacement. No technical maintenance personnel required from the user end.

 **WATERPROOF**  
no drop out during mission

CYPRES is a waterproof device up to 24 hours, down to a depth of 8 feet. It simply requires an air filter replacement after water contact.

 **2 UNITS 1 DEVICE**  
training and operational mode

From 2 modes to choose for all military operational requirements and tactical applications.





# Military CYPRES 2 Technology



At the factory, various tests will check the CYPRES system entirely. Linearity, calibration, hardware inspection and hard- and software updates will be implemented. The maintenance due date is accessible from the external display. CYPRES automatically reminds of next maintenance. US and EUROPE based Service facilities ensure low costs and down time. No technical maintenance personell required from the user end.



For this generation of CYPRES with proven reliability and quality, we are proud to offer a product warranty for the whole CYPRES Service Life period of 15,5 years.\*

\* If recommended maintenances have been performed within the scheduled time frames.



CYPRES utilizes a rugged, small size casing, is light weight and offers a simple 1 button user interface. CYPRES works with simplicity. No need of user interaction regarding switch off, weather adjustment, or altitude setting in Training mode. Automatic shut off after 14 hours.



Only the Original CYPRES offers outstanding quality, reliability and advanced AAD technology ! We invented and patented the CYPRES technology. We are the leaders of the industry since 1991.



# UNIQUE

## trouble free

for more than 26 years\*

## patented

produced for CYPRES only

## quality control

x-ray, electrical and physical control for every single cutter since production started in 1991

## compatible

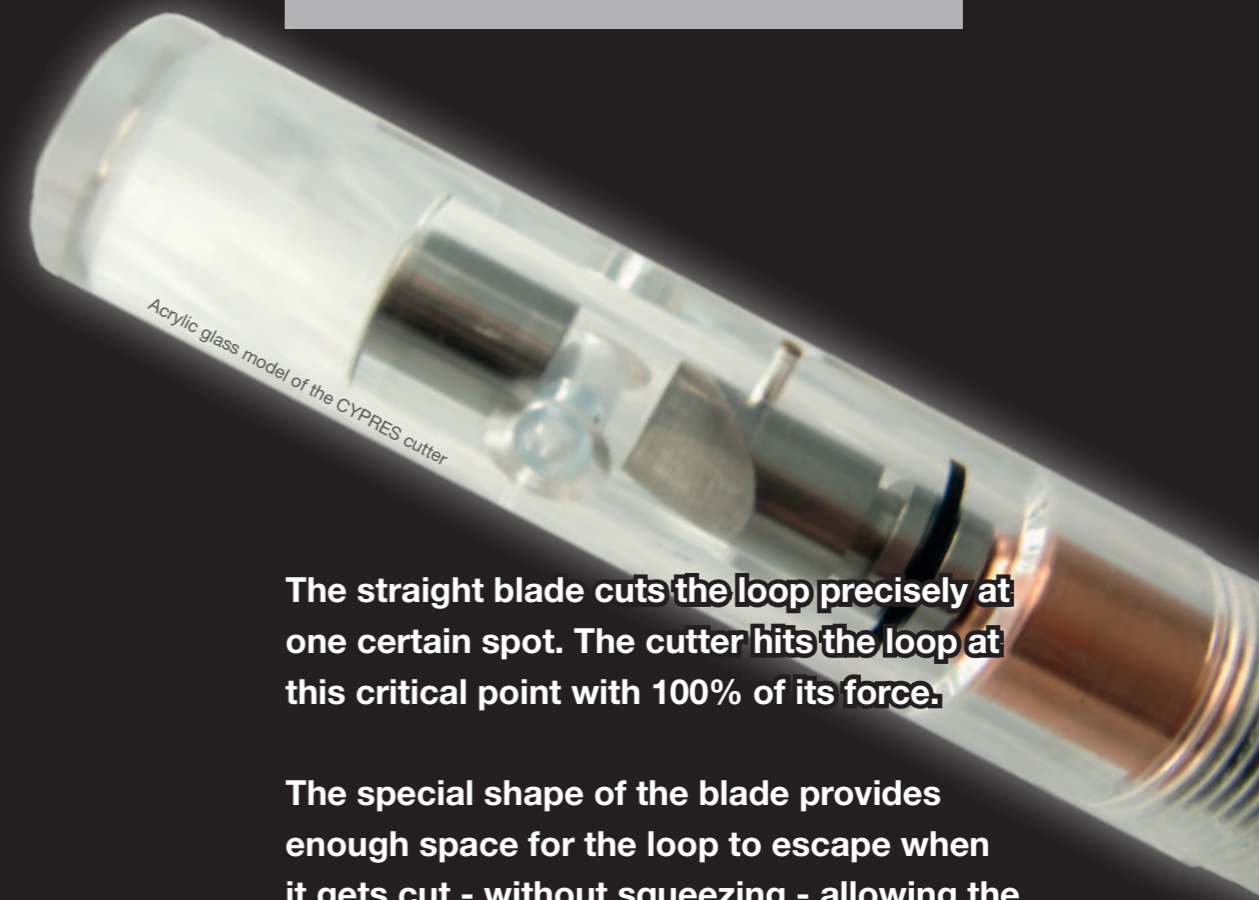
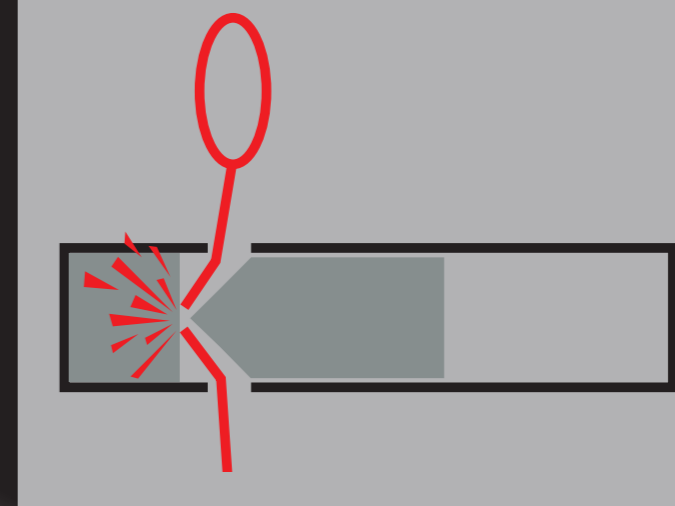
with all CYPRES models



\*To the best of our knowledge since 1991 each correctly installed CYPRES Cutter has always completely severed the reserve closing loop upon activation. We have manufactured more than 200.000 CYPRES cutters. They are also used in aerospace

## CYPRES Cutter Technology

### CYPRES V-CUT BLADE



The straight blade cuts the loop precisely at one certain spot. The cutter hits the loop at this critical point with 100% of its force.

The special shape of the blade provides enough space for the loop to escape when it gets cut - without squeezing - allowing the opening sequence of the reserve container to start.





## Spare Parts

### Field replaceable cutter



1-pin Cutter

The EOS (Emergency Opening System) release unit (cutter) can be easily replaced. Just unplug the original one, and plug in the new replacement cutter, and you're ready to go.



Available in 2 versions:

1-pin for containers with one closing pin  
Part no: 913100  
NSN: 1377-12-364-4230  
GTIN : 4260375531516

2-pin for containers with two closing pins  
Part no: 913200  
NSN: 1377-12-364-4231  
GTIN: 4260375531523

If necessary to convert a 1-pin type CYPRES into a 2-pin type (or vice versa), just substitute the desired cutter.

### Filter for CYPRES 2



The air filter protects the CYPRES from water penetration in the event of a water landing. Its microporous structure ensures clean air flow but blocks water. It only needs to be replaced after water landing.

Part no: 900004  
NSN: 1670-12-364-7302  
GTIN: 4260375531646



2-pin Cutter





## Accessories

### Silicone bottle



Part no: 960200  
NSN: 6850-12-367-0254  
GTIN: 4260375531998

### Packers Kit



Contains: Users Guide, Rigging Tips, 5 ea. Washers, 1 ea. 50m roll CYPRES loop cord, 2 ea. finger trapping needles, 1 ea. bottle silicone gel, 1 ea. screwdriver, 1 ea. Filter Changer, 3 ea. air filter, 1 ea. container with siliconized cloth  
Part no: 950000  
NSN: 1670-12-375-8275  
GTIN: 4260375531950

### CYPRES washer for loop



Part no: 960100  
NSN : 5365-12-335-6636  
GTIN: 4260375532018

### Temporary pin

(Only needed by packers.)



Part no: 942000  
NSN : 8315-12-366-9698  
GTIN: 4260375532063

### Calculator

Also available as an App in the App stores for Android and for iOS free of charge



In.Hg / ft. (imperial system)  
Part no: 980101  
NSN: 1670-12-395-6480  
GTIN: 4260375531769  
hPa / m / ft. (metric system)  
Part no: 980001  
NSN: 1670-12-395-5063  
GTIN: 4260375531776





## Accessories

### Cutter retainer

Part no: 974001  
NSN : 1377-12-378-1698  
GTIN: 4260375531875

### Control unit pouch,

clear window

Part no: 973001  
NSN : 1670-12-378-1639  
GTIN: 4260375531868

### Processing unit pouch

170mm Part no: 971003  
NSN : 1670-12-396-1202  
GTIN: 4260375532049

190mm Part no: 971002  
NSN : 1670-12-383-6586  
GTIN : 4260375532056

### Silicone cloth

Part no: 12201007  
NSN: 6850-12-367-0375  
GTIN: 4260375532001

### Pull Up

Part no: 920601  
NSN: 1670-12-358-6078  
GTIN: 4260375531974

### Soft Bodkin

Part no: 920700  
NSN : 1670-12-378-1537  
GTIN: 4260375532025

### Finger trapping needle

Part no: 970000  
NSN : 5120-12-377-8896  
GTIN: 4260375532032

### CYPRES 2 Filter Changer



A stainless steel torque wrench used for changing air filter. This procedure is fool proof designed and takes only ½ a minute of time.  
Part no: 900005  
NSN : 5120-12-364-3798  
GTIN : 4260375531653

### Loops



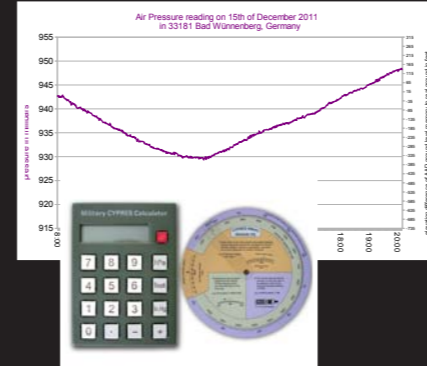
1-Pin Part no: 920400  
NSN : 1670-12-355-2269  
GTIN: 4260375531684  
2-Pin Part no: 920500  
NSN : n.n.  
GTIN: 4260375531691

### Loop spools



200m Part no: 920200 NSN : 1670-12-355-2268 GTIN: 4260375531707  
50m Part no: 920100 NSN : 1670-12-335-6249 GTIN: 4260375531738





# CYPRES Mobile Military Training Team



## TRAINING benefit and content:

- CYPRES use and limits
  - How to use the Military CYPRES correctly
  - CYPRES and Rigging
  - Casestudies and optimized setup for your organisation
  - Guarantee and Service
  - Company profile, history and products
  - Research & Development
- and more ...

**FREE OF CHARGE** – Our experts are ready to visit you in your country to deliver all kind of CYPRES AAD training. The training costs will be covered by Airtec GmbH & Co. KG Safety Systems. All we require is a classroom with projector, black or with board and some colored pens/chalk. The participants from your side can be as many as fit in the classroom and may include CYPRES users (operators), instructors, riggers, suppliers, etc.

Alternatively we can arrange a visit to the CYPRES facilities in Bad Wünnenberg, Germany. You can visit Airtec with a military group of up to 10 persons. Topics and schedules of the seminars could be the same, but you will have also the possibility to take a look inside production and maintenance.



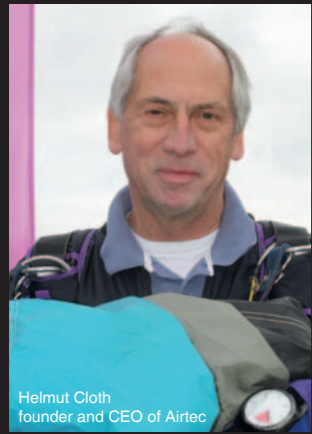
The team of CYPRES AAD experts, consultants, technicians, rigging professionals and instructors with widespread experience in military and sport parachuting environment offers trainings and seminars especially tailored to your requirements.

Our team is on stand by to operate around the world.

For further information, to discuss a possible schedule and to arrange a training date please call or send a mail to: [military@cypres.cc](mailto:military@cypres.cc)



## QUALITY AND INVESTMENT STRENGTH - THAT'S AIRTEC



Helmut Cloth  
founder and CEO of Airtec

Serious investment into research and development has made AIRTEC the technological leader in the area of electronic activation devices worldwide.

AIRTEC owns more patents in this area than any other AAD manufacturer. This is impressive evidence of AIRTEC's innovative strength since the company's foundation.

1990 -> Founding year for AIRTEC after years of development. The three founding fathers move into a production hall of 900 sq.ft. and set up the facilities for manufacturing, maintenance, rigging and sales.

1991 -> Delivery of the first CYPRES. The period until required for maintenance is two years, twice as long as standard in the industry at that time.

1993 -> Production of CYPRES devices grows to 3,500 annually. More hiring brings the staff to ten employees, the production hall grows to over 5,000 sq.ft. It's maintenance time at AIRTEC for the first-sold devices.

1994 -> Production reaches 5,000 devices annually. Maintenance of the early devices proves the lasting high quality of the CYPRES and allows AIRTEC to increase the maintenance interval to four years.

1995 -> Production reaches 6000 devices annually.

1997 -> Delivery of more than 8,000 CYPRES annually, worldwide. The staff has grown to a total of 25 AIRTEC employees.

1999 -> AIRTEC growth continues. The staff has 35 employees, and AIRTEC adds a new building to the facilities.

2001 -> The Worldwide economic problems of 2001 does not hurt AIRTEC, the sales numbers remain on the same level. The administration moves into the new building.

2003 -> More than 80,000 CYPRES 1 units are already in use worldwide. AIRTEC introduces a new innovation, the CYPRES 2, and offers it on the market. It becomes a unique success. CYPRES 2 takes almost instantly the same dominating position in the market that CYPRES 1 had thus far.

2005 -> AIRTEC exceeds the production level of CYPRES 1 and now delivers more than 8,000 CYPRES 2 devices annually. The company prepares for more growth and the next expansion. Sales and rigging move into a new building to create more space for production and maintenance of the CYPRES 1 and CYPRES 2 devices.

2007 -> The first CYPRES 2 devices return for maintenance. Once again, the results beat all expectations. CYPRES 2 proves its outstanding quality and reliability, as well.

2009 -> Despite the world economic crisis sales of CYPRES 2 break the magic barrier of 50,000 devices. AIRTEC plans to have more presence and engagement in the sport and increases the staff for marketing and customer service to 13 employees.

2011 -> 63,000 CYPRES 2 are in the market now. The extraordinary occurrences in the AAD market show the evidence of our product philosophy: Achieve for the customer what he really needs - safety and reliability.

2012 -> Airtec reacts to the market and takes action to cope with the extreme demand for CYPRES. So far 4 new employees are going to strengthen the production capacity.

2013 -> Software update with user adjustable activation altitude  
CYPRES "SLS" after 7 years of development process in final stage  
New and additional 5th CYPRES model available: The Changeable Mode CYPRES 2.

2014 -> 90,000 th CYPRES 2 unit has been produced.

2014 -> Airtec proudly presents the next revolution in the parachuting world: The CYPRES Static Line System is launched.

2014-Dec. The 100,000 th CYPRES 2 unit is produced.

2016, January 10th -> CYPRES 25th anniversary.

2017 -> Timeframe for recommended maintenance enhanced to 5 / 10 years.  
New and additional 6th CYPRES model available: The Wing Suit CYPRES 2 (WSC)

*"We believe that a lifesaving machine should be of the highest reliability that is possible. The means to achieve this goal are the design of the device, the process by which it is manufactured and the care taking for it throughout its life.*

*Because of that, we recommend to let us make a check after 5 years of its life plus/minus 6 month and consequently after 10 years. Within this procedure we do maintenance and built in everything that we have learned to improve during the last 5 years and we execute all necessities because of changes in parachuting context and in environmental conditions. Both procedures together cost approximately 12 % (6 % after 5 years and 6 % after 10 years) of the unit's purchase price.*

*What you get shipped back is a completely maintained, totally updated and with every applicable new applications equipped CYPRES 2. Not at all like the unit that you sent in.*

*For us, these efforts are not to earn any money (you will realize that at the first glance) but it enables us to place the reliability to the level where it must be.*

*The CYPRES design, the CYPRES production process and the CYPRES care taking has generated a fantastic result: since the 10th of January 1991 (when we sold the first CYPRES) all CYPRES that we ever have manufactured and maintained have always and without any exemption activated when the conditions were given and have always served the reserve container closing loop into two parts. By doing that, the CYPRES have saved the lives of more than 4000 parachutists. Again: without to fail one time."*

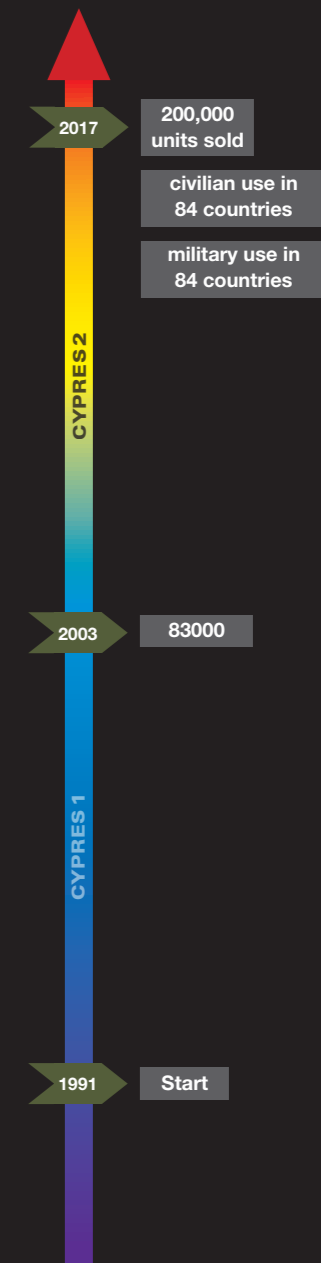
- Helmut Cloth

**200,000 units**  
**123 million jumps**  
**4000 lives saved**

and CYPRES has never failed to activate and cut through the reserve closing loop when the conditions were met.

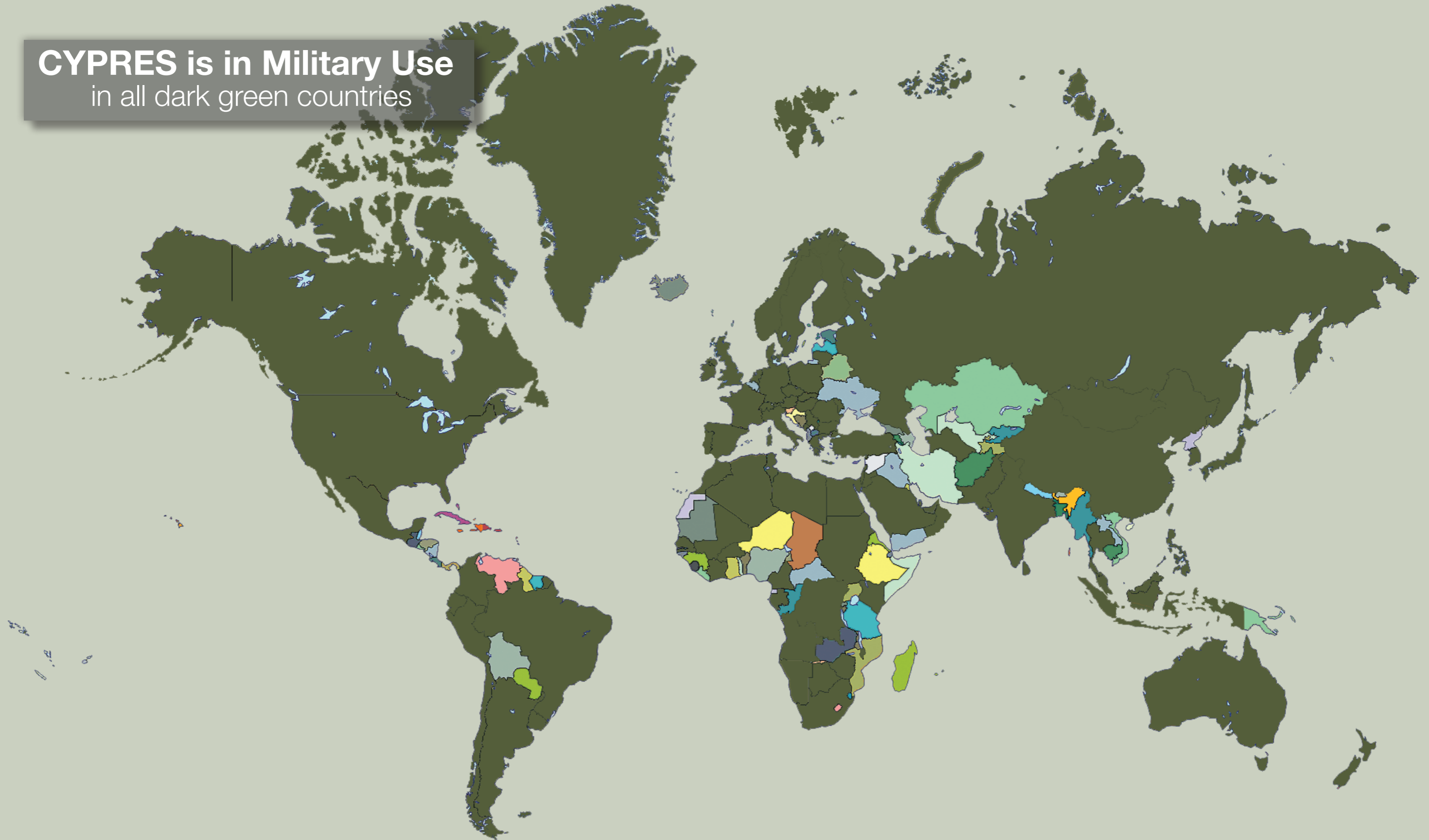
### The CYPRES Maintenance:

1. All wear and tear is taken care of.
2. These subjects are checked and re-calibrated:
  - temperature stability check and adjustment
  - precision of pressure check and adjustment
  - precision of altitude check and adjustment
  - power consumption check and analysis
  - capability to fire
  - functionality of the cutter
  - shielding check and adjustment
  - waterproofness check and adjustment
  - condition of measurement technique and analysis
  - replacement of battery
  - replacement of filter
3. All necessary repairs are done.
4. Hard and software are updated.
5. All applicable improvements (discovered in the last 5 years) are installed.
6. Modifications because of changed environmental conditions or new developments in parachuting are implemented.





**CYPRES is in Military Use**  
in all dark green countries





In case you need something special we have a solution for you.

Please talk to us.

The task of an Automatic Activation Device is to initiate the life saving of its user whenever the conditions for an activation appear.




We are manufacturing CYPRES since January 1991.  
Our units have accompanied more than 123 million jumps and have saved more than 4000 parachutists from impact.

We are proud to report that  
all 83,000 CYPRES 1 (manufactured until April 2003)  
and all 117,000 CYPRES 2 (manufactured up to now)  
have always activated and always severed the reserve container closing loop whenever the conditions for an activation have appeared.

With no exception.  
For 26 years now.

The reason for this unbelievable reliability is the technical design of the CYPRES, the way we manufacture it and that we improve it throughout its life.

You are not able to find such a reliability anywhere else.  
Neither before the times of CYPRES, nor parallel to CYPRES.

1000 13 A	1000 27 A	1000 35 A	1500 35 A	1900 35 A
2500 29 A	CARGO	TIME	Air- crew	SAR
Activation at > 2 m/s vertical	Activation < 630 m if vert speed > 11 m/sec		Cargo 2500/ 29 A for HALO or HAHO	SLS
NAVY	AATV	LPP	S.J.	Set Speed
	EXP 25	Speed	Stu- dent	Tan- dem
change able MODE	Strat- os	XCF		

*\*All this is to our curent knowledge.*



# CYPRES 2

Reliability made in Germany



PRECISE



INTELLIGENT



INDEPENDENT