

technical data sheet



SPI

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manual & hydraulic forcible entry tools



extrication urban search & rescue tools



watery rescue tools

From a general point of view, even the most efficient equipment will not themselves be the solution to deal with all situations. They cannot guarantee the expected result, nor eliminate any risk for the rescuers.

As a manufacturer we OWE to ourselves and to the users to give priority to quality, reliability, performance, and innovations.

We will never be confronted to front-line situations, but you, on the other hand are facing them daily in France or elsewhere around the world and sometimes while using some of our tools.

It is at this very moment that our choice of components, raw materials to manufacture the tools that you are using, at this very moment, when you are about to save lives that the equipment must itself be failproof !

Internationally, France benefits from a strong reputation in the fields of security and victims' relief at the operational knowhow level as much as in the equipment manufacturing.

At LIBERVIT, we are experienced technicians, our professional ethic is unwavering and above all we know and respect those using our products and because of this close relationship we have considered their insights and suggestions in the making of our tools.

We pride ourselves in manufacturing French. All the labelled equipment that you had, have, or will have in your hands, are made in France with more than 90% of components and raw materials of French origin or from close European Union countries such as Germany, Norway and Italy.

Our 25 years in the design and manufacturing of hydraulic and mechanical tools with land and water applications for the Firefighters, the Army and Police Special Forces, our seriousness, our professionalism, and our never ended search for innovations has made us a key player within these professional environments.

LIBERVIT is represented in over 60 countries through our specialized Distributors network offering commercial advice, demos, maintenance and after sale service. All of the LIBERVIT team and myself are available to ensure that none of your question remains unanswered.

We wish you a pleasant read.

Yvan CARDONA, CEO

### Quality & Reliability

Unless otherwise specified by us, our equipments are guaranteed for 3 years from the dispatch date\*.

All our equipments comply with  $C \in$  standard.

Our organization, from engineering to customers' service is ISO 9001 certified.

All our tools undergo rigorous test & control before shipment. It guarantees a high quality, life-long performance and complete reliability of our tools and equipment. The guarantee covers construction defects as well as material flaws noted by our services.

LIBERVIT will provide, for a minimum of 10 years after delivery, any of its tools' spare parts.

\* with the exception of products not manufactured by LIBERVIT.





# B.A.S. – hydraulic power unit

the B.A.S. hydroelectric power unit can supply up to two LIBERVIT hydraulic tools alternately.



Compact, light and silent the B.A.S. hydraulic unit power can supply and allows the

alternate use of two LIBERVIT hydraulic tools. Transportable on the back, with a shoulder strap or by hand you will be able to evolve in difficult access area while keeping your hands free.

A dashboard protected by a removable flap provides access to the start-up switch as well as to the battery charge status indicator.

The B.A.S hydraulic power unit has an integrated 1.5 m hydraulic hose and a 48V lithium battery offering 2 hours of working time.

Functions and accessories within the next pages.

**B.A.S.** 



# B.A.S. hydraulic power unit

TECHNICAL CHARACTERISTICS	
hydraulic power unit	ref. B.A.S.
service pressure	300 bar
oil tank capacity	1.65 L - 58 fl oz
tools operated	two alternately
use, transport, storage	T360° multi-position technology
outer-shell	Cordura <sup>®</sup> soft shell (1100 Den)
molle <sup>®</sup> system	Ves
closing	YKK® water repellent zipper
reinforced bottom bag	yes, semi-rigid / high abrasion resistance
colours	orange, black, yellow & reflective strips
carrying means	back / handheld / shoulder strap
pair of backpack shoulder and chest straps	yes, qty 1, ref. EPGD, to set on the back of the power unit backpack, removable and adjustable
shoulder strap	yes, qty 1, ref. BAS/B
reinforced handle	
reinforceo nanole left & right side removable pocket	yes, qty 1, ref. BAS/P qty 2, ref. PA1/BAS & ref. PA2/BAS
	qly Z, rei. rai/ dab d rei. raz/ dab
lifting ring	at the unit back to lift, air lift, lever, hang 1.50 m - 5 ft
integrated hydraulic hose	
hydraulic hose casing	yes 48 dB*
decibels	
power supply	qty 1, LIBERVIT 48 V Lithium battery, ref. BI-IDN48
battery autonomy	2 hours of tool action**
battery removal	manually
battery maximum charging time	35 min (100% charge)
battery charge indicator	yes, on the battery and on the power unit dashboard
auto-shutdown	yes, after 4 hours non-use (auto-shutdown adjustable & can be disabled)
LIBERVIT automatic battery charger	qty I, réf. CB-ION48 (220V) or CB-ION48 (110V)
convertible hand radio remote control	qty I, with molle® system sleeve
power supply cable length	3 m - 10 ft
hand radio remote range	30 m - 99 ft
complete diagnosis LIBERVIT Connected	LIBERVIT Connected app on Google Play & Huawei store (deactivable Bluetooth)
dimensions	350 x 300 x 410 mm - 14 x 12 x 16 inch
weight	12 kg - 26 lbs***
* test done at a 5 m distance	
** test done at a 150 bar average pressure	
*** ready to use without portage means	
ACCESSORIES	
interactive radio remote wristband	on option, ref. BRI
cross body shoulder strap	on option, ref. BAS/EPM
extreme conditions sleeve	on option, ref. HCE/BAS
magnetic kit	on option, ref. KM/BAS
hook kit	on option, ref. KC/BAS
peripherals transport bag	on option, ref. STP/BAS, for handle, pair of shoulder strap, strap, battery charger, hand
·	radio remote control
spare lithium battery	on option, ref. BI-ION48
PELICASE© transport case	on option, ref. VDT/BAS

ALL PROPERTY.

On option, the B.A.S. hydraulic power unit, its charger and radio remote can be packed in a solid case.

PELICASE© transport case	ref. VDT/BAS
available colour	black
telescopic handle	yes
wheels	yes
silica gel cartridge	qty 1, used to prevent humidity
dimensions	800 x 520 x 300 mm - 31 x 21 x 11 inch
weight empty	12.5 kg - 27.5 lbs
case loaded	24.7 kg - 54.5 lbs



#### Hydraulic tools and hoses to use :



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The LIBERVIT connected application available on the **Cooperatory** & **Cooperatory** will enable you to diagnose your hydraulic power unit and will also indicate: the battery charge status, the number of charges /discharges already done, the oil level, the engine running status, the hand radio remote functioning (for the the B.A.S. or the B.A.S. superlight) as well as the battery charger, the tool's effort produced and many more useful information.

Languages available : French, English, Spanish, Chinese, German, and Thaï.



With the T360° technology developed by LIBERVIT, the hydraulic power units can be used and stored in all positions, while retaining all of its performance.



Removable and washable the hydraulic power unit' outer shell is made of multi-layered padded Cordura (1100 Den) and is 1P64. It is also fitted with water-repellent YKK<sup>®</sup> zippers as well as an anti-noise partitions.



Foldable a lifting ring at the back of the unit offers a 100% reliable anchor point to lift, air lift and hang.



A 1.5 meters hydraulic hose is permanently stored in a dedicated compartment, just open it to extract the hose. The compartment has 2 openings giving you the choice to extract it from left or right.



Shoulder strap's emergency release buckles system has been integrated to discard the hydraulic power unit when carried on the back.



48 dB : test performed at a distance of 5 m.



A dashboard protected by a removable flap provides access to the start-up switch as well as to the battery charge status indicator, the pairing mode for radio system, the Bluetooth search and the faulty oil level status.



To protect the battery and increase its autonomy we have fitted the B.A.S superlight and the B.A.S. optima hydraulic power unit with an auto-shutdown technology. The auto-shutdown kicks in after 4 hours of non-use.

The auto-shutdown can be disabled through the LIBERVIT app and it can be set to a 1 to 8 hours period.





# **LIBERVIT Connected**

complete hydraulic power unit diagnosis via the app LIBERVIT connected.





### LIBERVIT Connected



### **₿ Bluetooth**





To ease as much as possible our units' preventive maintenance, the hydraulic power unit is delivered in series with a receiving and transmitting data system that all users can access on their smart phone to perform a complete diagnosis of their equipment. The Application LIBERVIT connected can be downloaded from the Google or Huawei store.

The diagnostic indicates: The battery charge status The hydraulic oil level The engine condition The hydraulic pressure The radio remotes condition (with the B.A.S. superlight) The battery charger condition The tool's effort (in use with the unit) And much more

You will be able to send an email directly from your phone to our technical department with the diagnosis. Our technicians will be able to read the data and act accordingly if a maintenance or repair is needed and help you.

> AFTER SALES SERVICE : <u>aftersales@libervit.com</u>







# Hydraulic power unit's accessories

on option are available some accessories for the B.A.S. & B.A.S. superlight hydraulic power units.





#### INTERACTIVE RADIO REMOTE WRISTBAND

ref. BRI

The interactive radio remote wristband activates the LIBERVIT hydraulic power unit from a distance, the tool's effort in action in real time is also visible on the screen.

Its waterproof (IP64) touch screen indicates the radio signal, the battery level (10h autonomy in use), the date and time. The wristband also benefits from a red LED (added light – 0N or OFF) and a USB-C port to charge it. You can check whether the auto-shutdown is activated or not. Activate or disable the auto-shutdown from the LIBERVIT Connected App.





The cross body shoulder strap fits on the hydraulic power unit in place of the shoulder straps with safety buckle for quick ejection and a securing harness for light door openers.



#### LEFT OR RIGHT SIDE REMOVABLE POCKETS

Ref: PA1/BSL (left side) or PA2/BSL (right side) Left or right spare side removable pockets to fit on the hydraulic power unit body.

#### PERIPHERALS TRANSPORT BAG

Ref: STP/BSL

The hydraulic power unit peripherals can be protected and stored in a transport bag: handle, shoulder straps, strap, battery charger, hand radio remote control and an extra battery.

#### MAGNETIC KIT

Ref: KM/BSL

With the magnetic kit you can free yourself from the hydraulic power unit weight and place it against any metallic surface.

HOOK KIT Ref: KC/BSL To hang the hydraulic power unit when it cannot be left on the floor.

#### EXTREME CONDITION SLEEVE



It will protect your hydraulic power unit from extreme weather conditions such as heavy rain, sandstorm, etc delivered in a pouch adaptable on the molle system or by carabiner.



#### CARRYING HARNESS FOR LIGHTWEIGHT DOOR OPENER ref. H/BSI/SNIP or ref. H/BDP/SNIP

The carrying harness clips on the top of the hydraulic power unit and allows the transport of the different lightweight door opener from the range LIBERVIT. You will be able to evolve in hard-to-reach areas while keeping your hands available.



### PELICASE® TRANSPORT CASE for the hydraulic power units B.A.S., B.A.S. superlight & B.A.S. optima ref. VDT/BAS, ref. VDT/BSL, ref. VLD/BOPTIMA

The hydraulic power unit, its battery charger and the hand radio remote control (for the B.A.S. & B.A.S. superlight) can be packed in a waterproof case. The transport case is fitted with a high density black foam in which an imprint of the tool has been made to keep it secure during transport or storage. We use the PELICASE® brand for its quality and reliability. Our cases have wheels and a foldable handle.



### **BRI - interactive radio remote wristband**

on option, the interactive radio remote wristband activates the B.A.S. superlight or the B.A.S. optima hydraulic power unit from a distance.



#### BRI





The BRI interactive radio remote wristband activates the B.A.S.superlight or the B.A.S. optima hydraulic power unit from a distance (maximum range: 30 m). the tool's effort in action in real time is also visible on the screen.

Its waterproof (IP64) touch screen indicates the radio signal, the BRI battery level and the hydraulic power unit battery level (10h autonomy in use), the effort of the tool in real time in % when the "ACTION" button is activated, the date and time, but also the auto-shutdown is activated or not.

A USB-C - USB-A port allows you to recharge the lithium battery of the BRI interactive remote control. The wristband also benefits from a red LED (added light – ON or OFF).

#### HYDRAULIC POWER UNIT'S ACCESSORY - ON OPTION

interactive radio remte wristband	ref. BRI
radio communication	works with a LIBERVIT hydraulic power unit connected
radio range	30 m - 99 ft
screen	LCD
2 level screen brightness	high brightness/ low brightness
screen background color	black
text display color	LIBERVIT BLACKline range : light grey
	LIBERVIT DEFENSE range : olive green
	LIBERVIT ORANGEline range : orange
4 boutons	1 green, 1 red and 2 black
button functions	$\cdot$ green : Power on/off
	$\cdot$ red : "ACTION" - activates the hydraulic power unit connected
	$\cdot$ black (right side) : BRI's parameters
	· black(bottom) : LED ON/OFF
indications provided on the screen	radio signal level (connexion with the hydraulic power unit)
	real-time tool effort in % when the "ACTION" button is activated
	BRI's battery level
	level of the connected hydraulic power unit battery
	hours / date
	ASD ( Unit Auto-shutdown) activated / disabled
battery	LiPo 3,7 V - rechargeable lithium battery
autonomy	10h
maximal charging time	8 hours for 100% charge
battery charger	qty 1, USB-C to USB-A port to charge the BRI, 1 m - 3 ft cable, ref. KR/BRI
waterproofness	IP64
removable wristband	350 mm - 14 inch, adjustable strap with Velcro
BRI wristband	removable from the bracelet
BRI's quick coupler	yes, magnetic locking and unlocking system (red strap)
BRI's dimensions	95 x 85 x 50 mm - 4 x 3.5 x 2 inch
total weight	279 g - 10 oz







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