



RESPIRATORY
PROTECTION
PRODUCTS

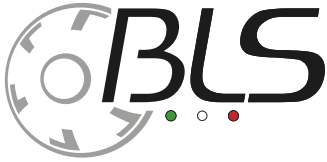
FEEL FREE
TO BREATHE



PAPR SERIES

POWERED AIR PURIFYING RESPIRATORS





FEEL FREE
TO BREATHE

WHAT IS A POWERED AIR-PURIFYING RESPIRATOR AND HOW DOES IT WORK?

It is a device consisting of a blower, battery as a power source, a particulate, gas, or combined filter, and a loose-fitting facepiece (such as a hood or visor), or a full face mask.

The blower draws in ambient air through the filter on the belt, and delivers purified air to the facepiece via a corrugated hose, maintaining a slight positive pressure.

For correct operation, these devices require a minimum airflow to the facepiece, specified by the manufacturer, i.e. a minimum air flow below which there is a risk of inward leakage, and increased levels of re-breathed CO₂.

If the minimum airflow is not guaranteed (due to the battery running out, a clogged filter or another reason), a visual, audio and vibration alarm is triggered that alerts the user of the need to move away from the polluted area.

For powered air-purifying respirators with a half masks or full faces mask, the following protection classes are laid down by EN 12942:

POWERED FILTERING DEVICES INCORPORATING FULL FACE MASKS, HALF MASKS	
PROTECTION CLASS	NPF (Nominal Protection Factor)
TM1	20
TM2	200
TM3	2000

For powered air-purifying respirators fitted with hoods or visors, EN 12941 includes three protection classes:

POWERED FILTERING DEVICES INCORPORATING A HOOD OR VISOR	
PROTECTION CLASS	NPF (Nominal Protection Factor)
TH1	10
TH2	50
TH3	500

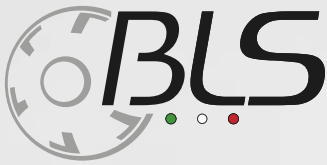
N.B.: Please refer to the specific indications for your country for the Assigned Protection Factor (APF).

WHEN SHOULD A POWERED AIR-PURIFYING RESPIRATOR BE USED?

The powered air-purifying respirator falls under the category of filtering devices and has the same fields of use. What, then, are the reasons why this solution should be preferred in a given work context over, for example, a half mask with filters?

- **COMFORT:** The powered air-purifying respirator inherently provides a significant improvement in operator comfort by eliminating respiratory fatigue: the filtered air delivered to the hood or visor in slight positive pressure eliminates breathing resistance which is instead unavoidable with half masks with filters. Another aspect of comfort is reduced sweating, thanks to internal ventilation in the hood or visor and the lack of direct contact between materials and the operator's face.
- **GUARANTEE OF PROTECTION:** In terms of facial fit, the powered air-purifying respirator is an ideal solution. Its slight positive air pressure eliminates the need for fit testing when used with hoods or visors, making it suitable for users with beards, those who wear glasses, or anyone whose facial structure makes achieving a proper seal with traditional filter devices challenging.

N.B.: Powered air-purifying respirators do not provide protection when the fan is not working. In this situation, the user is exposed to contaminants in the ambient air and higher levels of carbon dioxide (CO₂) due to re-breathed air in the face mask.



BLS 2600next



The BLS 2600next powered air purifying respirator is an assisted ventilation system for use with a full face mask from the BLS 5000 Universal range and dust filter. It delivers filtered ambient air to the user and is ideal for heavy-duty use, thanks to its constant airflow and the elimination of breathing resistance. The BLS 2600next is user-friendly, resistant to impacts and comes with a complete range of accessories and spare parts.

MAIN FEATURES

Through the automatic flow adjustment, BLS 2600next ensures a flow rate of 160 l/min even if the filter is clogged. The high-performance, lightweight battery has an operating life of over 8h in maximum comfort. The BLS 2600next has a sturdy, ergonomic charging connector while the battery charge is indicated by both the LED lights on the motor unit and the LED light on the charger.

The innovative management system provides the user with the following feedback via 3 coloured LED lights: battery charge status, low battery alarm, flow blockage alarm, filter clogging alarm, and charging status. All the alarms are also notified with a sound and vibration. The BLS TMP3 filter provides high filtration for long periods. It is protected by an easy-to-remove filter retainer.

A handy waterproof cap protects the filter during the decontamination shower. The PVC belt with adjustable buckles ensures a snug fit around the waist while the padded support provides maximum comfort and perfect decontamination through the quick release system.

It can be stored with maximum safety thanks to the DIN cap for the motor unit, filter cap, fold-away hose and practical, sturdy case, with four handles, seal and padlock point.

TECHNICAL DATA

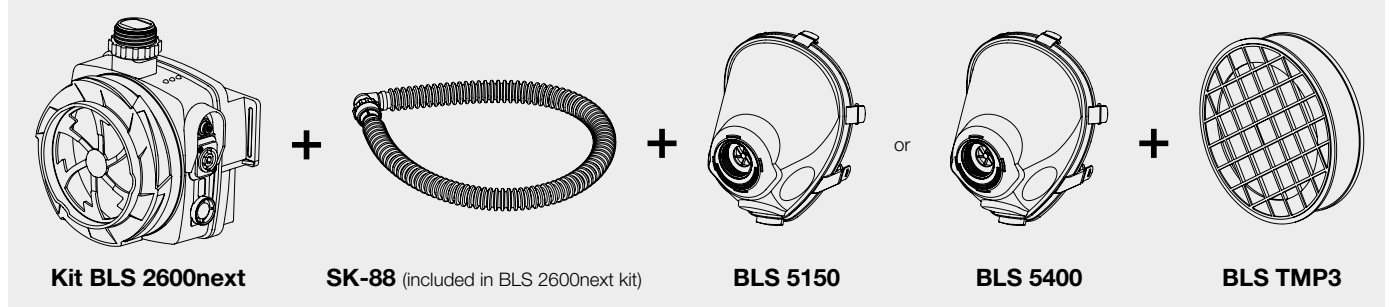
AIRFLOW	Minimum airflow:	160 l/min
BATTERY	Battery type:	Li-ion, rechargeable (14.8 V; 5.6 Ah)
	Charging time:	6 hours
	Duration with P3 filter:	> 8 hours
	P3 filter clogging alarm:	Visual + sound + vibration
FILTRATION	P3 filter filtering efficiency:	> 99,97%
TEMPERATURE	Operating temperature:	0°C / + 50°C
	Storage temperature:	- 10°C / + 50°C
RELATIVE HUMIDITY	When operating:	< 75%
	When stored:	< 75%
WEIGHT	Motor unit:	1300 g
CERTIFICATIONS	EN 12942:2009 TM3P R SL	
	European Directive EMC 2014/30/UE	
	EN 61000-6-2:2019	
	EN 61000-6-3:2007/A1:2011/AC:2012-08	
	Protection from dust and water:	IP66 according to EN/IEC 60529

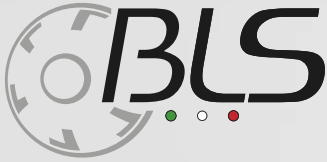
COMPONENTS

ARTICLE	CODE	DESCRIPTION
Kit BLS 2600next	8103001	Includes: blower, padded belt, corrugated rubber hose, battery, battery charger (EU+UK), anti-contamination kit and waterproof cap, storage case
SK-96	8118010	Li-ion rechargeable battery
SK-95	8118009	Filter retainer
SK-94	8118008	Anti-contamination kit: 1 x DIN cap, 1 x waterproof cap, 1 x storage cover
SK-93	8118007	Rechargeable battery (EU + UK)
SK-91	8118005	PVC belt
SK-90	8118004	Padded belt
SK-89	8118003	Storage case
SK-88	8118002	Rubber corrugated hose kit
BLS TMP3	8117003	Particulate filter
Prefilter	8011001	Prefilter for TMP3 filter
BLS 5150	8001035	Full face mask with TPE face seal and universal RD40 connection
BLS 5400 (Size S)	8102019	Full face mask with silicone face seal and universal RD40 connection
BLS 5400 (Size M)	8001039	Full face face mask with silicone face seal and universal RD40 connection
BLS 5400 (Size L)	8102020	Full face mask with silicone face seal and universal RD40 connection

HOW TO ASSEMBLE A COMPLETE UNIT

CONFIGURATION





BLS 5000 SERIES



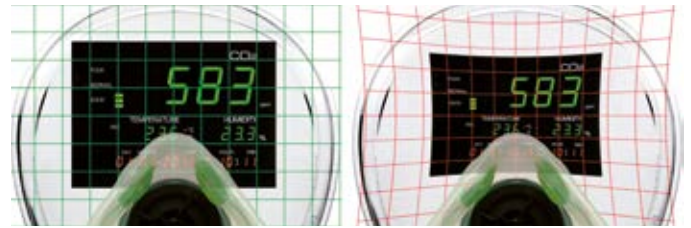
The BLS 5000 series reusable full face masks are available with a silicone or thermoplastic rubber face seal. They are fitted with a universal EN 148-1 connection, compatible with the BLS 2600next powered air-purifying respirators and BLS 400 filter range with RD40 connection, for protection from gas/fumes and toxic particulates.

CARATTERISTICHE PRINCIPALI

The BLS 5000 Universal full face masks are available with a thermoplastic elastomer (BLS 5150) or soft, hypoallergenic silicone face seal that is resistant to high temperatures (BLS 5400). They have an inner soft TPE face piece, designed to better suit face profiles, which can be easily replaced. The EPDM harness is secured on attachment points to ensure highly accurate adjustment, for uniform pressure on the face.

The polycarbonate visor with class 1 optical class (EN 166) provides a panoramic vision with no optical distortion. A surface vitrification treatment makes it scratch-proof and ensures good resistance to the aggression of a number of chemical substances. It is always recommended, however, to wear a visor cover in chemical applications.

An anti-fog system prevents the visor from fogging by controlling the flow of warm and cold air inside the mask and not through easily perishable surface coatings. The silicone versions (BLS 5400) have an aluminium speech diaphragm that allows for voice transmission.



BLS 5400



BLS 5150

SILICONE vs TPE

Main features of the 2 materials:

- Silicone – Smooth to touch; higher resistance to mechanical and thermal stress. In general, higher resistance to chemical agents, above all to organic compounds, such as solvents; greater stability to UV rays, greater resistance to ageing. Our silicone is FDA-approved.
- TPE – Easier to produce and recycle. Greater resistance to inorganic compounds.

NB: both our silicone and TPE are hypoallergenic (test report by Centrocot SpA no. 24RA05613 and 24RA05611 of June 2024).

TECHNICAL DATA

VISOR MATERIAL	Polycarbonate (PC)
WEIGHT BLS 5150	489 g
WEIGHT BLS 5400 (Size S)	556 g
WEIGHT BLS 5400 (Size M)	536 g
WEIGHT BLS 5400 (Size L)	506 g
OPERATING TEMPERATURE	- 10°C / + 50°C
CERTIFICATIONS	EN 136:1998

COMPONENTS

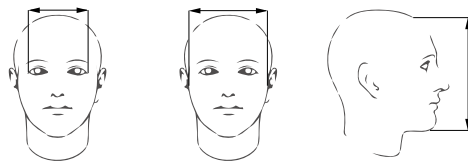
ARTICLE	CODE	DESCRIPTION
BLS 5150	8001035	Full face mask with TPE face seal and universal RD40 connection
BLS 5400 (Size S)	8102019	Full face mask with silicone face seal and universal RD40 connection
BLS 5400 (Size M)	8001039	Full face mask with silicone face seal and universal RD40 connection
BLS 5400 (Size L)	8102020	Full face mask with silicone face seal and universal RD40 connection

ACCESSORIES AND SPARE PARTS FOR BLS 5000 UNIVERSAL

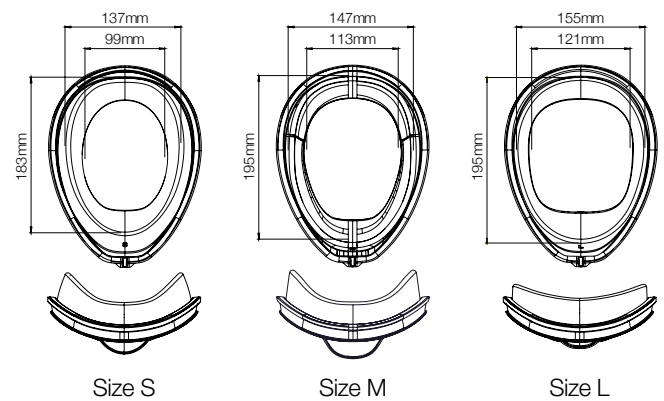
ARTICLE	CODE	DESCRIPTION
C-22	8102002	Optical lens frame for BLS 5000 series full face masks
K-15	8001026	Polycarbonate cover for BLS 5000 series full face masks (1 pc)
K-19	8001125	Protective acetate film for BLS 5000 full face masks (5 pcs)

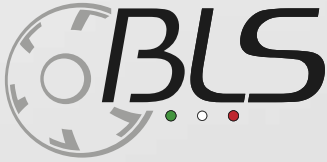
SIZE GUIDE

BLS 5400 silicone mask is available in 3 sizes, Small, Medium and Large, to adapt to all facial structures.



S	99mm	137mm	183mm
M	113mm	147mm	195mm
L	121mm	155mm	195mm





BLS 2700next



BLS 2700next is a versatile, reliable device to be combined with dust and combined filters to ensure the best protection in a wide variety of work environments. It consists of a compact blower, attached to a comfortable, easily-adjustable padded belt.

MAIN FEATURES

Managing the operation of the device is facilitated by the user-friendly electronics: the device is operated by an ON/OFF button, which is large enough to be activated even by personnel wearing protective gloves.

When turned on, the default airflow is 170 l/min. Pressing the button a second time increases the airflow to 210 l/min. The display also shows a battery charge indicator: when only one of

the bars is lit, an audible alarm and vibration inform of the need to replace the battery: when the indicator light flashes, the remaining operating time is 15 minutes.

The display also includes a progressive filter clogging indicator: the higher the number of illuminated LED bars, the greater the filter clogging. When the three LED lights are flashing, an audible alarm and vibration inform of the need to replace the filter.

TECHNICAL DATA

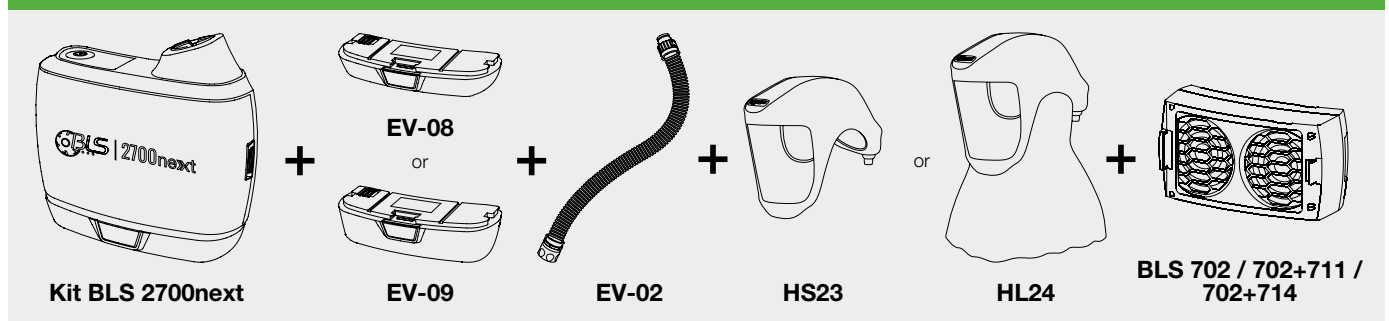
AIRFLOW	Low speed:	170+ l/min
	High speed:	210+ l/min
STANDARD BATTERY	Battery type:	Li-ion, rechargeable (14.4 V; 3.2 Ah)
	Duration with particulate filter:	9 hours at 170 l/min 5-6 hours at 210 l/min
	Duration with combined filter:	4 hours at 170 l/min (non recommended)
	P3 filter clogging alarm:	Visual + sound + vibration
LONG-LIFE BATTERY	Battery type:	Li-ion, rechargeable (14.4 V; 6.4 Ah)
	Duration with particulate filter:	15 hours at 170 l/min 9 hours at 210 l/min
	Duration with combined filter:	11 hours at 170 l/min 7,5 hours at 210 l/min
FILTRATION	P3 filter filtering efficiency:	> 99,97%
	Filter options:	P3, A2 + P3, ABEK1 + P3
TEMPERATURE	Operating temperature:	- 5°C / + 55°C
	Storage temperature:	- 10°C / + 55°C
RELATIVE HUMIDITY	When operating:	< 90%
	When stored:	< 85%
WEIGHT	Motor unit:	1020 g (with standard battery)
CERTIFICATION	EN 12941:1998 + A1:2003 + A2:2008	

COMPONENTS

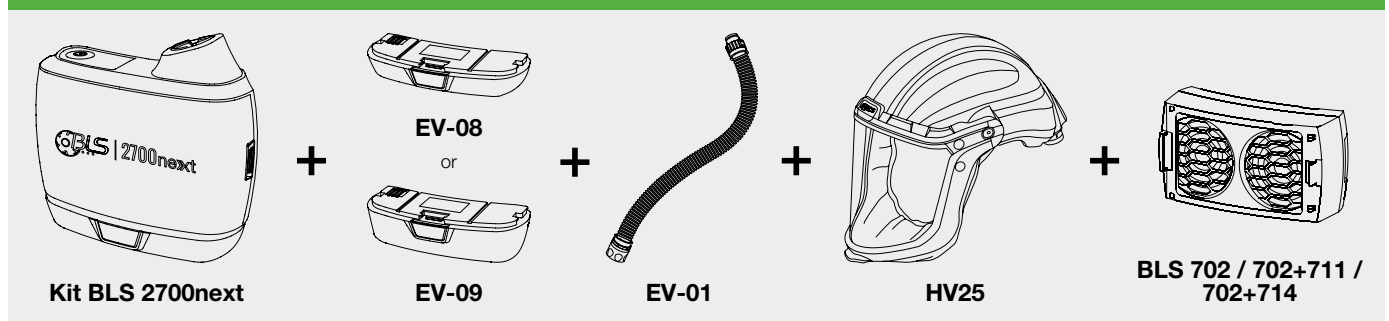
ARTICLE	CODE	DESCRIPTION
Kit BLS 2700next	8103005	Includes; blower, belt with padded support, battery charger, 2 flow meters, prefilter
EV-01	8103006	Quick-coupling corrugated hose for BLS 2700next to be used with BLS HV25 visor only
EV-02	8103007	Corrugated hose for BLS 2700next to be used with BLS HS23 and HL24 hoods only
EV-08	8103012	Standard battery
EV-09	8103013	Long duration battery
EV-11	8103015	Harness
BLS HS23	8103034	Hood
BLS HL24	8103035	Hood with shoulder cover
BLS HV25	8103036	Visor with integrated helmet
BLS 701	8103011	Particulate prefilter
BLS 702 P3	8103010	Particulate filter
BLS 711 A2	8103008	Gas filter
BLS 714 ABEK1	8103009	Gas filter

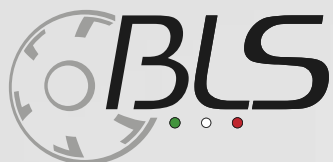
HOW TO ASSEMBLE A COMPLETE UNIT

CONFIGURATION 1



CONFIGURATION 2





BLS 2800ne»xt

This is a certified powered air-purifying respirator for use in environments at risk of explosion (ATEX). A versatile solution for use with the particulate filter alone or with combined filters in a variety of applications: spray painting and dust coating, pharmaceutical, chemical and petrochemical industry, food industry, and wherever there is a risk of explosion in the working environment.



MAIN FEATURES

The device consists of a blower unit attached to a wide belt with comfortable padding. The simple and intuitive device is operated by an ON/OFF button; a second button allows you to select the desired airflow which is displayed by a LED indicator. The unit display screen also shows the battery charging status and the level

of particulate filter clogging: in both cases, the alarm takes the form of a visual, audible and vibration signal. The device has an IP 54 protection rating and is permitted for use in Zone 1 and Zone 21 ATEX classified areas depending on the filter used.

TECHNICAL DATA

AIRFLOW	Standard speed:	170+ l/min
	Medium speed:	190+ l/min
	High speed:	210+ l/min
STANDARD BATTERY	Battery type:	Li-ion, rechargeable (6400 mAh)
	Duration with particulate filter:	11 hours at 170 l/min
	Duration with combined filter:	9 hours at 190 l/min 7 hours at 210 l/min
	P3 filter clogging alarm:	Visual + sound + vibration
FILTRATION	P3 filter filtering efficiency:	> 99,97%
	Filter options:	P3, A2P3, ABEK1P3
TEMPERATURE	Operating temperature:	- 10°C / + 50°C
	Storage temperature:	- 20°C / + 55°C
RELATIVE HUMIDITY	When operating:	< 85%
	When stored:	< 90%
WEIGHT	Motor unit:	1469 g
INTRINSIC SAFETY	II 2 G:	Zone 1, Ex ib IIC T4 Gb
	II 2 D:	Zone 21, Ex ib IIIB T135°C Db
	I M2:	Category M2, Ex ib I Mb
IP RATING		IP 54
CERTIFICATIONS	EN 12941:1998 + A2:2008	
	Certificato ATEX:	TÜV 22 ATEX 8883 X
	Certificato IECEX:	IECEX TUR 22.0053 X
IECEX CONFORMITY	IEC 60079-0:2017; IEC 60079-11:2011	

COMPONENTS

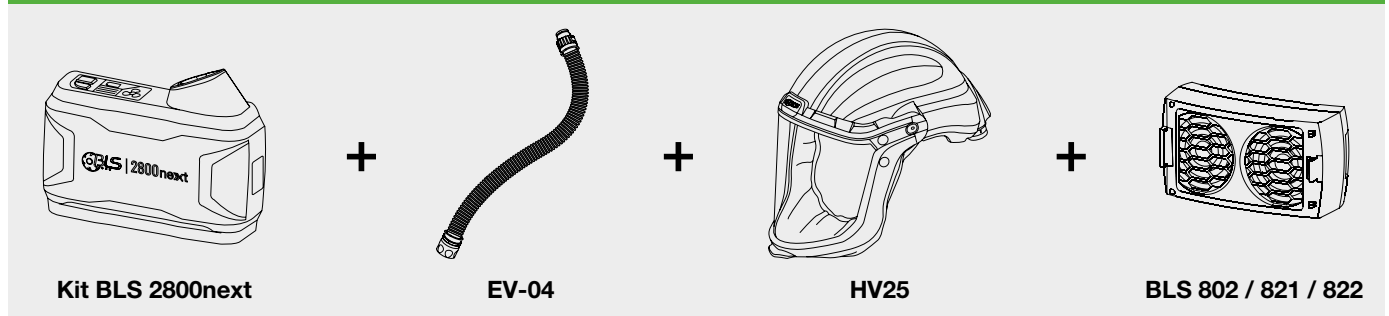
ARTICLE	CODE	DESCRIPTION
Kit BLS 2800next	8103020	Including: belt and padding, blower, battery, battery charger and 2 flow indicators
EV-04	8103029	Corrugated hose for BLS 2800next to be used with BLS HV25 visor only
EV-05	8103030	Corrugated hose for BLS 2800next to be used with BLS HS23 and BLS HL24 hoods only
EV-17	8103033	Harness
BLS HS23	8103034	Hood
BLS HL24	8103035	Hood with shoulder cover
BLS HV25	8103036	Visor with helmet
BLS 802 P3	8103026	Particulate filter
BLS 821 A2P3	8103027	Combined filter
BLS 822 ABEK1P3	8103028	Combined filter

HOW TO ASSEMBLE A COMPLETE UNIT

CONFIGURATION 1



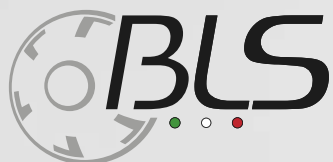
CONFIGURATION 2



ATEX MARKING

II	<i>ATEX II group: surface areas where potentially explosive atmospheres may be present due to mixtures of gas, vapours, mist or combustible dust</i>
2G	<i>ATEX device: 2 = high protection level for zone 1; G = Gas</i>
2D	<i>ATEX device: 2 = high protection level for zone 21; D = Dust</i>
Ex ib	<i>Specifies category ib "intrinsically safe" type of protection: this protection ensures that the internal circuits have such a low power level that an explosive mixture will not be ignited, even in the event of a single fault. Use: Ideal for industrial environments where non-conductive combustible dust is present, such as in the food, chemical and timber industry.</i>
IIC	<i>Suitable for gas zone 2</i>
T4	<i>Gas ignition temperature $135^{\circ}\text{C} \leq T < 200^{\circ}\text{C}$</i>
Gb	<i>High protection level</i>
IIIB	<i>Non-conductive dust group, such as plastic and wax dust, flour and similar dust (Zone 21)</i>
T135°C	<i>Maximum temperature of 135°C: maximum surface temperature that the device can reach</i>
Db	<i>High protection level</i>
I	<i>Equipment designed for use in underground mines where there is the risk of explosive atmospheres due to gas (such as methane) and explosive dust. Continuous, frequent or prolonged risk of explosive atmospheres.</i>
M	<i>Stands for 'Mining': the equipment is intended for use in underground mines or on their surface where the risk of explosion is due to the presence of gas (e.g. methane) and/or combustible dust.</i>
2	<i>Indicates the specific level or protection: the equipment can be used in the presence of potential explosive atmospheres, but must be switched off in the event of danger (e.g. during an emergency).</i>
Mb	<i>Indicates the level of protection: M = equipment intended for use in mines; b = level or protection that ensures that the device stays safe even in the event of foreseeable failures, continuing to provide a high level of protection against the risk of ignition.</i>





BLS HS23 | BLS HL24

BLS HS23 and BLS HL24, in combination with BLS 2700next and BLS 2800next devices, ensure a TH3 level of protection. BLS HL24 includes protection for the neck and shoulders, while BLS HL23 only provides protection under the chin, making it ultra-lightweight and comfortable. Both solutions are excellent options when there is no need for protection against splinters or impacts in general.



MAIN FEATURES

- The hoods are fastened to a lightweight harness with adjustment points
- Both have a replaceable front sweatband
- The visor is integrated into the hood and the whole is available as a spare part
- Both solutions are suitable for industrial and medical/laboratory applications

TECHNICAL DATA

MATERIAL	HS23:	PU coated fabric
	HL24:	PE coated polyester
WEIGHT	HS23:	120 g
	HL24:	150 g
TEMPERATURE	Operating temperature:	- 10°C / + 55°C
	Storage temperature:	- 30°C / + 60°C
CERTIFICATIONS	EN 12941 TH3	

FIELD OF USE

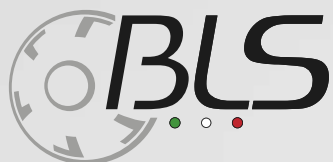
Depending on the filters used with the device, the hoods are suitable for use in cement factories, agriculture, painting, waste management and disposal, industrial cleaning, laboratories, food industry, pharmaceutical industry, electronics, surface treatment, and the medical and hospital sector.

COMPONENTS

ARTICLE	CODE	DESCRIPTION
BLS HS23	8103034	Hood
BLS HL24	8103035	Hood with shoulder cover

ACCESSORIES AND SPARE PARTS FOR HS23 / HL24

ARTICLE	CODE	DESCRIPTION
HT-05	8103041	HS23 spare hood
HT-06	8103042	HL24 spare hood
HT-07	8103043	Visor cover for HS23 / HL24
HT-08	8103044	Replacement sweatband for HS23 / HL24 (pack of 2)



BLS HV25



BLS HV25 visor is integrated with a helmet that provides protection against impacts and falling objects. The helmet harness has six attachment points to ensure stability and features a smooth ratchet adjustment; it is also secured with a practical padded neck support, that tilts to accompany head movements. BLS HV25 visor, when combined with BLS 2700next and 2800next device, ensures a TH3 level of protection.

MAIN FEATURES

- Wide, distortion-free field of vision
- Lift-up visor
- Adjustable airflow towards the shield avoiding user discomfort
- Replaceable front sweatband
- Replaceable integrated chinguard made of non flammable material
- Adjustable chin strap for greater stability
- BLS HV25 is delivered with a free pack of 10 visor covers

TECHNICAL DATA

VISOR MATERIAL	Polycarbonate (PC)
WEIGHT	880 g
OPERATING TEMPERATURE	- 10°C / + 55°C
CERTIFICATIONS	EN ISO 16321, EN 397:2012 + A1:2012
MARKING	BLS 16321 ET 39*

* (16321) ISO reference standard; (ET) resistance to high speed flying particles at extreme temperatures; (3) protection from splashes and droplets of liquids; (9) protection from molten metal and hot solids

FIELD OF USE

Depending on the filters used with the device, the visor is suitable for deburring, grinding, sanding, woodworking, cement works, agriculture, painting and related operations, metallurgy, construction, road works, waste management and disposal, green maintenance, industrial cleaning.

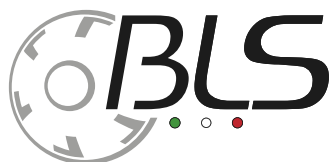
COMPONENTS

ARTICLE	CODE	DESCRIPTION
BLS HV25	8103036	Visor with integrated helmet

ACCESSORIES AND SPARE PARTS FOR HV25

ARTICLE	CODE	DESCRIPTION
HT-01	8103037	Sweatband (pack of 2)
HT-02	8103038	Chinguard
HT-03	8103039	Spare visor
HT-04	8103040	Visor covers (pack of 10)





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