



Oliver

Size: 168 cm

Protos® Integral Industry

Protos® Integral Clear Visor

Protos® Integral Safety Glasses

Protos® Integral Neck Protection

StretchZone® Canvas Jacket, Size M

StretchFlex® Technic, Size 8

READY FOR EVERY SPECIAL MISSION

The Protos® protects in unprecedented dimensions. The special feature is that all the Protos® models have the same shell and can be upgraded and equipped for other purposes, with special accessories, such as the Protos® Integral Safety Glasses, using a simple modular principle. But despite all their individuality, the various types have one thing in common: Upmost safety, best wear comfort and the unique technology standard were the priorities during development.

The Protos® Integral is protected by numerous national and international patents. Further patents, in particular for the interior equipment, the visor (incl. face mask with elastic damping and sealing lip) and the CrashAbsorber are pending and partially already granted.

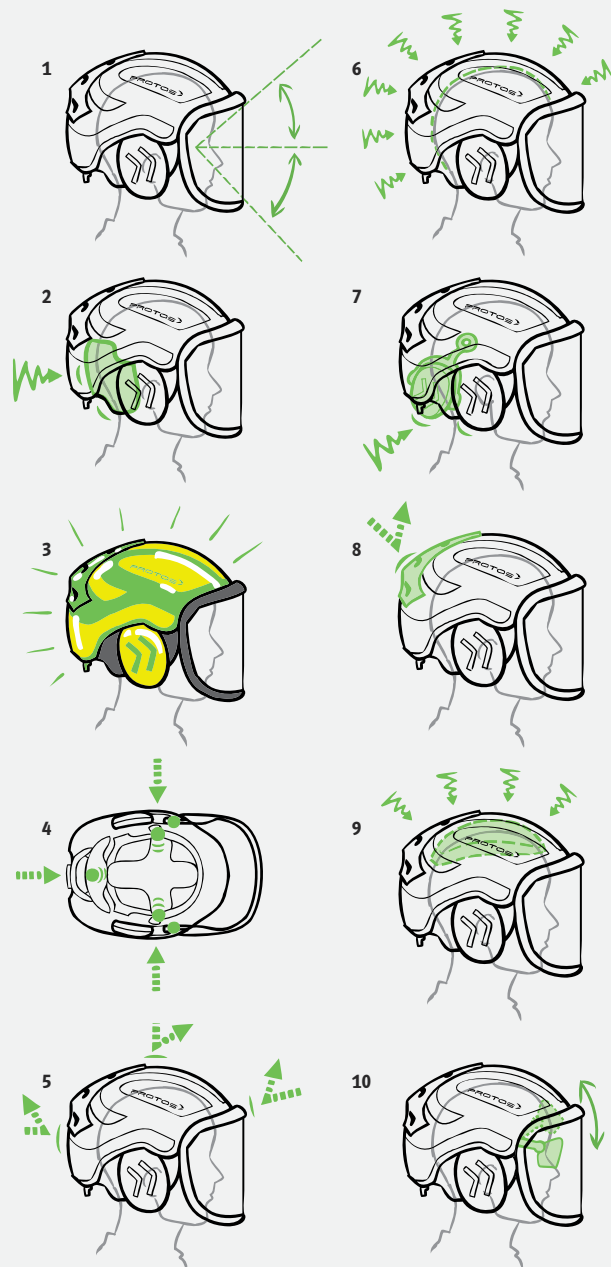
Protos® Integral Advantages.....	P. 10
Protos® Integral Industry.....	P. 15
Protos® Integral Forest.....	P. 19
Protos® Integral Climber.....	P. 23
Protos® Integral Arborist.....	P. 27
Protos® Accessories.....	P. 31

MAXIMUM SAFETY

Thanks to the certification according to EN 397 and EN 12492, the "Protos® Integral System" can be employed within seconds for forestry, arboriculture and climbing applications. Chin strap, visor, neck protection, ear protection – everything is integrated and simultaneously modular.

10× more safety

- 1 - **Largest field of view** compared to all tested helmets on the market with maximum visibility all-round.
- 2 - The **neck protection shell** protects the back of the head in case of falling or impact and averts the risk of skull base fracture.
- 3 - The athletic 2-color combination offers a viewable area expanded by 35 %. Thus, the significantly **increased visibility** provides the wearer with a great advantage in poor visibility conditions (leaves, coniferous forest, sunlight, etc.) in all seasons.
- 4 - The special **damping structure** (3-point suspension and shock absorber) of the inner shell dampens shocks and prevents transmission directly to the head or spine.
- 5 - With the first-time certification according to the standards EN 397 and EN 12492, the Protos® offers not only **protection against vertical impact**, but also with respect to **horizontal impact**. This results in a new type of "all-round protection".
- 6 - Due to the ingenious **inner shell**, the Protos® fits perfectly on the head. In case of exposure to a force, the energy is distributed over a large area and absorbed.
- 7 - Since the hearing protection is always situated within the outer shell, in both the active and the passive state, it also serves as an **additional shock protection**.
- 8 - The **safety ventilation gate** provides multiple safety features at the point where it matters most. Horizontal and vertical impact is absorbed by the additional shell before the forces act on the outer shell.
- 9 - 5× impact absorption by the **CrashAbsorber**. Thanks to 95 % air and 5 % Koroyd® the airflow is only slightly impaired. The CrashAbsorber makes the effects of the impact visible and indicates when the carrier should replace the head protection.
- 10 - The Protos® Integral **Safety Glasses** are characterized by their unique (mechanical) strength: Temperatures from -5° C to +55° C are completely unproblematic. The position of the glasses can be individually adjusted to any head shape. The glasses are clipped to the head band so that they are always there. The active or passive state can be changed with just two fingers in no time.

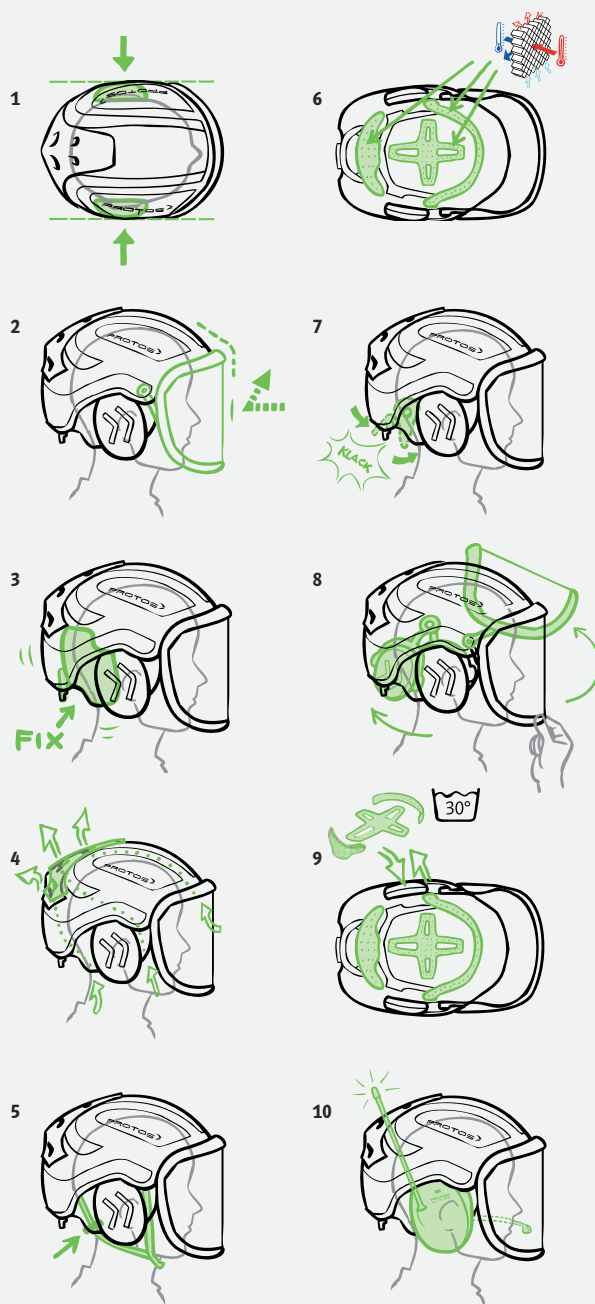


TOTAL COMFORT

The Protos® is the perfect combination of functionality and comfort. The many intelligent details make for easy handling, perfect fit and comfortable wearing.

10x more comfort

- 1 - With **integrated hearing protection**, there are no protruding attachments, with which you can get stuck in branches. The variable contact pressure on the ear muff hearing protection holder allows precise adjustment.
- 2 - Two major advantages of the **integrated face protection**: Work without getting caught in branches or thorns and a maximum all-round view.
- 3 - Better grip on the head due to a profound, adjustable **neck shell**. The Protos® thus also sits securely on the head even without a chin strap.
- 4 - The special design ensures an **active ventilation** (air can flow enter from any angle and is released via the ventilation ducts on top). The ventilation ducts on the upper side can be opened or closed by a slide. This way, it is possible to adjust the Protos® optimally to hot/cold/humid weather.
- 5 - In order to ensure that the chin strap does not slip under the hearing protection, we have attached a **special guide** on the neck shell. Wearing comfort and noise absorption are thus not adversely affected.
- 6 - Excellent sweat transport through broad support pads with **KlimaAIR® technology**.
- 7 - The **patented size adjustment** allows quick fitting and removal of the Protos® Integral thanks to easy handling. Once a size has been set, it will remain so, which means that no readjustment is necessary.
- 8 - All functions can be **operated with two fingers only**. Even the hearing protection which can be shifted from the active state to the integrated garage between the head and the outer shell.
- 9 - The complete **KlimaAIR® set** can be removed and is machine washable at max. 30° C. For hygiene reasons, we recommend washing the main support pads regularly and replacing them after 2-3 years at the latest.
- 10 - **Perfect communication** despite large distances and noisy environments. The 3M™ Peltor™ communication solutions make it possible.





PROTOS® INTEGRAL INDUSTRY

No matter whether for structural, underground, or road constructions as well as canal and tunnel work or other industrial activities – when the head is in danger, the proper protection according to EN 397 is indispensable. The Protos® Integral Industry has been developed for these daily applications and beyond them. Unprecedented wear comfort and safety that surpasses all standards by far, protect the head better than ever. Thanks to the modular principle, the Protos® Integral Industry can also be upgraded for other missions at any time. A head protection for all application areas.

An identification based on the head protection is essential, especially for the industrial sector. Therefore, the Protos® Integral Industry is available in 6 different basic colours: Red, blue, yellow, orange, white and green, as well as colour films in dark grey and neon yellow. Further customization and a colour differentiation between the ventilation gate and the outer shell are of course also possible.

Patrick

Size: 180 cm

Protos® Integral Industry

Protos® Integral Safety Glasses

3M Peltor WS Alert XP

Atlas SympaTex Rain Jacket, Size M

CUSTOMIZED STICKERS, ESPECIALLY REFLECTIVE FILMS ARE AVAILABLE BY REQUEST

Red



10 ● 12 ●● 13 ●●

Blue



40 ● 42 ●● 43 ●●

Yellow



50 ● 53 ●●

Orange



60 ● 62 ●● 63 ●●

White



70 ● 72 ●● 73 ●●

Green



80 ● 82 ●● 83 ●●

These items may also interest you:



P. 31



P. 36



P. 33



P. 38



P. 39



EN 397

Protos® Integral Industry

The Protos® Integral Industry does not only provide an unobstructed field of vision, but also protection against vertical and horizontal impact. With its 20-step size setting on the patented quick-release neck shell, the Protos® sits securely on every head, even without a chin strap. An ideal air circulation between inner and outer shell keeps the head cool. The air flow can be regulated using the ventilation gate. The KlimaAIR® main support with energy absorption ensures perfect wearing comfort.

Patents and design patents

EP Nr. 2 498 636
EU design no. 1731167
Swiss design no. 137 620
US design pat. no. D677,006
EP Patent No. 2 498 635
EP design no. 1 974 528
EP design no. 2012 101 489

Sizes

One size (54–62)

Further national and international patents and designs are pending, in particular for the interior equipment.

Item 202000

These items may also interest you:



P. 40



P. 40

For safety reasons, the outer Protos® shell should be replaced every 5 years (starting from the manufacturing date). This is available separately. For hygiene reasons, we recommend washing the main support pads regularly and replacing them every 2–3 years in case of daily use.



Christian

Size: 178 cm

Protos® Integral Forest

KlimaAIR® Forest Jacket, Size S

StretchFlex® Fine Grip, Size 8

Ventilation Chainsaw Protection Pants, Size S



PROTOS[®] INTEGRAL FOREST

The Integral Solution makes the Protos[®] Integral Forest unique. All components have been integrated within the helmet shell, so that it is no longer possible to get stuck on branches, bushes or other obstacles. The Protos[®] was developed specifically for the forest and is tailored to the most dangerous area of application. The 2-color design ensures increased visibility and the profound neck shell protects the back of the head in case of an impact or fall. The ventilation gate not only offers a plus in wear comfort but also serves as an additional bumper in case of impact, before the forces act on the main shell.

Patented solutions, such as the etching metal visor, which does not restrict the field of vision, and the integrated hearing protection complete the Protos[®] Integral Forest.

The Protos[®] Integral Forest is certified in accordance with EN 397, EN 352-3 and EN 1731.

CUSTOMIZED STICKERS, ESPECIALLY REFLECTIVE FILMS ARE AVAILABLE BY REQUEST



Red



- 10 ●
- 12 ●●
- 13 ●●

Blue



- 40 ●
- 42 ●●
- 43 ●●

Yellow



- 50 ●
- 53 ●●

Orange



- 60 ●
- 62 ●●
- 63 ●●

White



- 70 ●
- 72 ●●
- 73 ●●

Green



- 80 ●
- 82 ●●
- 83 ●●

These items may also interest you:



P. 83



P. 171



P. 196



P. 100



P. 177



FORESTRY



EN 397



EN 352-3



EN 1731

16 openings/cm²39 openings/cm²

Protos® Integral Forest

The forestry sector and its extremely variable requirements were the starting point for the development of the Protos® Integral principle. Because branches and other objects in the forest are very likely to get caught on components of head protection, all parts of the Protos®, from the visor to the hearing protection are integrated and make it impossible to get caught up. With the certification in accordance with EN 397, EN 352-3 and EN 1731, the Protos® Integral Forest is the perfect choice for the toughest applications and extreme weather conditions, from wet-cold to dry-hot temperatures. Even when the hearing protection is in passive position, the Protos® holds perfectly on the head.

Item (incl. Metal Visor G16) 204000

Item (incl. Metal Visor F39) 204002

Patents and design patents

EP Nr. 2 498 636

EU design no. 1731167

Swiss design no. 137 620

US design pat. no. D677,006

EP Patent No. 2 498 635

EP Patent No. 2 506 731

US patent no. 8,806,667

EP design no. 1 974 528

EP design no. 2012 101 489

Sizes

One size (54–62)

Further national and international patents and designs are pending, in particular for the interior equipment, the visor (incl. face mask with elastic damping and sealing lip) and the CrashAbsorber.

These items may
also interest you:



P. 40



P. 40

For safety reasons, the outer Protos® shell should be replaced every 5 years (starting from the manufacturing date). This is available separately. For hygiene reasons, we recommend washing the main support pads regularly and replacing them every 2–3 years in case of daily use.



PROTOS® INTEGRAL CLIMBER

If the standard prescribes a head protection in accordance with EN 12492, the Protos® Integral Climber is the first choice. It is also suitable for the technical rescue for accident and from heights. Thanks to the modular principle, the Protos® Integral Climber can also be equipped for other missions. The profound neck shell of the Protos® Integral prevents slipping, even when working overhead. The Protos® Integral Climber is equipped with the CrashAbsorber. This consists to 95 % of air, offers 5-times shock absorption and leaves the air circulation in the Protos® unaffected.

The incomparable wear comfort and the enhanced safety also make the Protos® Integral Climber perfect for use on the ground.

Anna

Size: 168 cm

Protos® Integral Climber

Protos® Integral Safety Glasses

Vega Performance Shirt, Women's, Size S

Airstream Backpack

CUSTOMIZED STICKERS, ESPECIALLY REFLECTIVE FILMS ARE AVAILABLE BY REQUEST



Red



10 ● 12 ● 13 ●

Blue



40 ● 42 ● 43 ●

Yellow



50 ● 53 ●

Orange



60 ● 62 ● 63 ●

White



70 ● 72 ● 73 ●

Green



80 ● 82 ● 83 ●

These items may also interest you:



P. 31



P. 31



P. 33



P. 83



P. 39



OUTDOOR



TREE CARE



WORK PROTECTION



EN 397



EN 12492



Koroyd

Protos® Integral Climber

The Protos® Integral Climber is equipped with a chin strap and the CrashAbsorber. With this equipment it also fulfils the standard EN 12492 and is thus perfectly suited as head protection for climbing and cycling. In terms of comfort the Protos® Integral Climber is identical to the Protos® Integral Industry and has no noticeable extra weight. The Protos® can be equipped with original accessories at any time.

Patents and design patents

EP Nr. 2 498 636
 EU design no. 1731167
 Swiss design no. 137 620
 US design pat. no. D677,006
 EP Patent No. 2 498 635
 DE patent no. 10 2011 054 945
 EU design no. 1 974 528
 EP design no. 2012 101 489

Sizes

One size (54–62)

Further national and international patents and designs are pending, in particular for the interior equipment as well as the CrashAbsorber.

Item 203000

These items may also interest you:



P. 40



P. 40

For safety reasons, the outer Protos® shell should be replaced every 5 years (starting from the manufacturing date). This is available separately. For hygiene reasons, we recommend washing the main support pads regularly and replacing them every 2–3 years in case of daily use.



Christian

Size: 178 cm

Protos® Integral Arborist

Protos® Integral Safety Glasses

Arborist Jacket, Size S

StretchFlex® Fine Grip, Size 8

Globe Outdoor Pants, Size S

Zenith STX Mountaineering Boots, Size 42



PROTOS[®] INTEGRAL ARBORIST

The perfect fit and optimum hold of the Protos[®] Integral Arborist make it perfect for work at height, where face protection is indispensable. The hearing and face protection are integrated into the shell of the head protection and thereby prevent snagging on branches and protruding parts. The special design of the Protos[®] Integral allows the cooling air to flow in from all sides and to escape through the ventilation gate. This ensures that the head does not collapse even during the most strenuous activities. After tiring work the KlimaAIR[®] Set can be exchanged and washed at 30° C to maintain the hygiene. The guide of the chin strap is designed so that it cannot slip under the hearing protection where it would affect the noise reduction or the wearing comfort. The Protos[®] Integral Arborist is of course certified according to EN 397 and EN 12492.

CUSTOMIZED STICKERS, ESPECIALLY REFLECTIVE FILMS ARE AVAILABLE BY REQUEST

Red



10 ● 12 ● 13 ●

Blue



40 ● 42 ● 43 ●

Yellow



50 ● 53 ●

Orange



60 ● 62 ● 63 ●

White



70 ● 72 ● 73 ●

Green



80 ● 82 ● 83 ●

These items may also interest you:



P. 79



P. 167



P. 77



P. 163



P. 123



HUNTING&TRACKING



TREE CARE



EN 12492



EN 352-3



EN 1731

16 openings/cm²39 openings/cm²

Protos® Integral Arborist

The Protos® Integral Arborist is adapted to work at heights. In an environment that requires maximum concentration and attention, the head protection cannot cause any interference, let alone slip out of place. Thanks to its far-reaching neck shell, the head protection fits perfectly even when working in sloping or overhead positions, thus providing a safe hold. Due to the difficulty in getting the hands free at height, the entire modular principle with can be adjusted with only two fingers. Therefore, each element can be regulated at any time. This model is also equipped with a chin strap.

Item (incl. Metal Visor G16) 205000

Item (incl. Metal Visor F39) 205002

Patents and design patents

EP no. 2 498 636, EU design no. 1731167

Swiss design no. 137 620

US design pat. no. D677,006

EP Patent No. 2 498 635

EP Patent No. 2 506 731

US patent no. 8,806,667

DE patent no. 10 2011 054 945

EU design no. 1 974 528

EP design no. 2012 101 489

Sizes

One size (54–62)

Further national and international patents and designs are pending, in particular for the interior equipment, the visor (incl. face mask with elastic damping and sealing lip) and the CrashAbsorber.

These items may also interest you:



P. 40



P. 40

For safety reasons, the outer Protos® shell should be replaced every 5 years (starting from the manufacturing date). This is available separately. For hygiene reasons, we recommend washing the main support pads regularly and replacing them every 2–3 years in case of daily use.



Volker Hagmeier is involved in agriculture and forestry. In Geislingen an der Steige, near Göppingen in Baden-Württemberg, his business is an important service provider and producer for the region. We asked him about his work and he let us know why he relies on Pfanter products.

Volker, you are engaged in agriculture, without directly cultivating fields yourself. Please tell us about your business model.

That's right. We do not grow anything ourselves, but are a service provider for other agriculturalists – namely as an agricultural wage manufacturer.

What does that mean exactly?

We process the grain of different agriculturalists to produce feedstuff for their livestock or mix it into flour in our mixing plant. The advantage here for our customers is that they do not have to operate the complex plants, but can concentrate on their "core business", the cultivation and harvest. We then take the harvest and process it further to obtain the desired products.

How many customers do you supply in this way?

We are currently working for about 250 to 300 different companies that come from within radius of about 60 kilometres around Waldhausen. We deal with everything with 2 employees and a part-time employee.

And you yourself are not involved in agriculture?

No, we have 10 hectares of land, but we have leased it. At one point we specialized on processing of the products of our colleagues, rather than on the production. This fits for us well and there is a strong demand for our service.

But we cannot operate entirely without any craft activity. In addition to the wage manufacturer there is also the forest enterprise in which you are active yourself.

That's right. We administer a considerable forest area. Here we cut down wood, for example, on behalf of the State of Baden-Württemberg – even up to 15,000 solid cubic meters annually. In addition, of course, the entire forest is maintained by us from A to Z, which starts at the forestation and then ends with felling.

The employees are hopefully well protected with appropriate work wear.

Of course. All of them wear Protos® and chainsaw protection pants from Pfanter. We have even already tested the Protos® with wireless connection to communicate optimally at work.

How long have you been a Pfanter customer?

With one break, for 11 years now.

Break?

Yes, there was a change of supplier a few years ago. At the point we had briefly become "apostate". But now Pfanter fully involved once again. By the way, this also concerns the wage manufacturer where it is less about safety than about appropriate comfort. Here, the work pants from Pfanter are the perfect solution. And we will now stay with it.

That's a good resolution. Thank you for the talk.



**OUR WORK
IS ALSO ABOUT
APPROPRIATE
SAFETY. WE ALL
WEAR PROTOS[®]
AND CHAINSAW
PROTECTION
PANTS FROM
PFANNER.**



Andreas

Size: 181 cm

Protos® Integral Forest

Protos® Integral Safety Glasses

KlimaAIR® Forest Jacket, Size M

StretchFlex® Fine Grip, Size 9

Ventilation Chainsaw Protection Pants, Size M

Zermatt Chainsaw Protection Boots, Size 43



HUNTING&TRACKING



TREE CARE



FORESTRY



WORK PROTECTION



Protos® Integral Metal Visor G16



EN 1731



Protos® Integral Metal Visor F39



EN 1731



Protos® Integral Clear Visor



EN 166

Protos® Integral Metal Visor F39/G16 / Clear Visor

The etch metal visor for the Protos® Integral fits precisely on the head protection. Through this fit, there are no protruding parts or cavities, in which branches and debris can get caught.

The Protos® Integral Clear Visor is an extremely lightweight polycarbonate visor. The patented rubber edge on top of the visor prevents liquids, dust and rain from penetrating from above, and lets them drain away on the left or right side of the visor. Furthermore, the Protos® Integral Clear Visor is fully operational even in extreme temperatures from -5° to +55° C, allowing an all-year use. The polycarbonate visor is tested and approved according to EN 166:2002 protection class 1FT and offers a UV protection filter.

16 openings/cm²39 openings/cm²

Further national and international patents and designs for the visor (incl. face mask with elastic damping and sealing lip) are pending.

Patent
US patent no. 8,806,667

Size
One size

Item (Metal Visor F39) 204063
Item (Metal Visor G16) 204064
Item (Clear Visor) 204071

These items may
also interest you:



P. 36



P. 40



P. 40



P. 38



P. 41



Oliver
Size: 168 cm
Protos® Integral Industry
Protos® Integral Clear Visor
Protos® Integral Safety Glasses
Protos® Integral Hearing Protection
StretchFlex® Technic, Size 8



HUNTING&TRACKING



OUTDOOR



TREE CARE



FORESTRY



WORK PROTECTION



Protos® Integral Safety Glasses



Optical Insert

Protos® Integral Safety Glasses
with Optical Insert

Protos® Integral Safety Glasses

The Protos® Integral Safety Glasses are suitable for any head. Since the temple is length- and angle-adjustable, they can always match the size of the head. They can be adjusted individually and according to personal needs. Regulate the soft nosepiece according to the nose width is also extremely easy. This ensures that the glasses are back-ventilated.

Highest mechanical strength at extreme temperatures according to EN 166:2002 is not a problem for the Protos® Integral Safety Glasses. This applies both to the visor and to the temples. Therefore, these glasses are extremely sturdy despite their light weight. In addition to stability, the glasses are also equipped with a protective UV filter according to EN 170:2003 as well as a sunscreen according to the standard EN 172:2002. Thus, the eyes do not risk being harmed by the invisible dangers of sunlight.

Depending on the colour, the glasses provide further features:

Clear

- Antifog
- Optical quality grade 1
- Light transmittance 91 %

Yellow

- Antifog
- Optical quality grade 1
- Light transmittance 85 %

Orange

- Antifog
- Optical quality grade 1
- Light transmittance 75 %

Grey metallised

- Optical quality grade 1
- Light transmittance 13 %

National and international patents and designs are pending and partially already granted.

Optical Insert

The Optical Insert has been specifically designed for the Protos® Integral Safety Glasses. It can be easily clipped to the bridge of the Protos® Integral Safety Glasses. Your optician can easily mount optical lenses up to +/-4 dioptries into the glass insert. The lenses are fully protected, as they are placed behind the protective glasses. A major advantage of the integrated glass insert is that no temples interfere with the ear protector, and hence do not exert any uncomfortable pressure on the head.

Item 204094

Item 204090

0 30 50 60

These items may also interest you:



P. 41



P. 82



P. 49



P. 38



P. 31



Michael

Size: 175 cm

Protos® Integral Industry

Protos® Integral Metal Visor F39

3M Peltor WS LiteCom

Ventilation Jacket, Size M

StretchFlex® Kepro, Size 9

Gladiator® Extreme Chainsaw Protection Pants, Size S

Tyrol Fighter Chainsaw Protection Boots, Size 43



Christian
Size: 178 cm
Protos® Integral Industry
Protos® Integral Metal Visor F39
3M Peltor LiteCom
KlimaAIR® Forest Jacket, Size S
StretchFlex® Fine Grip, Size 8
Ventilation Chainsaw Protection Pants, Size S
Matterhorn Chainsaw Protection Boots, Size 42



- Radio communication



- Radio communication
- Playback of ambient sounds



- Radio & Bluetooth
- Playback of ambient sounds

LiteCom

- Range up to 3 km
- Handsfree sending
- Noise-compensating Electret microphone
- Radio communication on 8 channels with 38 sub-channels
- Compatible with PMR 446 handheld radios
- Auto power-off

Item 204100

These 3M™ Peltor™ communication solution provide 8 channels and 38 sub-channels for communication. The sub-channels 1-38 work without problems with other LiteCom systems. This communication solution is powered by batteries and has a range of up to 3 km outdoors. The microphone is noise-compensating, therefore a problem-free communication is possible at high noise levels. The VOX function enables sending without pressing a button.

LiteCom Plus

- Range up to 3 km
- Handsfree sending
- Noise-compensating dynamic microphone
- Compatible with PMR 446 handheld radios
- Active ear protection with playback of ambient noise
- 8 channels with 121 sub-channels
- Automatically switches off when not in use
- Connector for external devices

Item 204101

The 3M™ Peltor™ LiteCom Plus communication solution enables wireless communication during an activity. On 8 channels and 121 sub-channels you will always find space for uninterrupted communication. The sub-channels work without problems with other LiteCom systems. The range is up to 3 km outdoors and is compatible with PMR 446 handheld radios. In addition, this version from 3M features an external microphone on the radio capsules, which absorbs ambient noise and plays it in stereo via the capsule. With the voice recognition in the microphone, a hands-free communication is possible. If left unused, the system switches off automatically. In addition, this 3M™ Peltor™ LiteCom Plus communication solution also provides connections for external radios or audio sources.

WS LiteCom

- 8 channels with 38 sub-channels
- Range up to 3 km
- Compatible with PMR 446 handheld radios
- Bluetooth interface
- Radio messages and phone calls are possible simultaneously
- Playback of ambient sounds
- Noise-compensating microphone
- Music streaming via Bluetooth

Item 204102

The 3M™ Peltor™ WS LiteCom communication solution enables a wireless communication both over 8 channels and 38 sub-channels and for a range of up to 3 km outdoors at high transmission power. A Bluetooth interface for wireless connection to a mobile phone or other Bluetooth-compatible device is also integrated. Radio messages and phone calls can be made simultaneously. A mobile phone or another wireless device can be connected using a suitable connection cable. The active hearing protection with playback of ambient sound in stereo ensures that nothing important is left unheard and offers a volume limit. The microphone compensates for ambient noise, making it possible to communicate without problems – even in a noisy environment.

These items may also interest you:



P. 84



P. 173



P. 188



P. 47



P. 139



- FM Radio
- Bluetooth
- Playback of ambient sounds

- Bluetooth
- Flex interface
- Playback of ambient sounds



Protos® Communication Attachment Arm



Protos® Communication Attachment Arm with Trunnion

WS Alert XP

- FM Radio
- Active noise-monitoring function
- External audio input via 3.5 mm jack
- Mobile phone connection via Bluetooth
- Microphone for easy calling
- Music streaming via Bluetooth
- Remote control and voice control possible
- Up to 4 Bluetooth connections can be stored

Item 204103

The 3M™ Peltor™ WS Alert XP communication solution enables not only the communication via Bluetooth but also the reception of radio on FM frequencies. An external microphone transmits ambient sounds to the ear protection muffs. A mobile phone can be connected to the WS Alert XP system via Bluetooth, so that it can be used as a headset. The microphone suppresses ambient noise and thus enables communication without annoying background sounds. The 3.5 mm jack can be used to additionally connect other external music sources.

WS ProTac XP

- Ear protection with Bluetooth interface
- Active hearing protection with ambient sound playback
- Noise-compensating microphone
- Music streaming via Bluetooth from internet radio, MP3 player, smartphone
- Stores up to 3 Bluetooth connections
- Flex interface for Flex Type-77
- Automatically switches off when not in use
- Voice controlled menu settings

Item 204104

The 3M™ Peltor™ WS ProTac XP radio communication solution is intended for all those who also need a Bluetooth connection besides the ear protection in daily use. This Bluetooth connection enables the streaming of internet radio, MP3 player and smartphone. In addition, the radio capsules from 3M also have a 3.5 mm jack. The external microphone transmits the ambient noise onto the inside of the ear protection muffs. Thus, nothing important remains unheard. Additional microphones can be connected at the interface of the WS ProTac XP via the flex cable of the type-77.

Protos® Communication Attachment Arm

The Protos® Communication Attachment Arm is used to mount the 3M™ Peltor™ communication solution on the Protos®. The Protos® Communication Attachment Arm has a wider receptacle bracket, so that the 3M™ Peltor™ communication solutions fit into the receptacle. With the Protos® Communication Attachment Arm, it is possible to adjust the height of the 3M capsule and to regulate the contact pressure.

Item 203019-10-10

Item 203019-10-20

A distinction is made between two models of the Protos® Communication Attachment Arm:

For the model **203019-10-10**, the microphone arm is mounted on the ear protector. This Communication Attachment Arm set fits the model 3M™ Peltor™ WS ProTac XP (**Item 204104**).

The Protos® Communication Attachment Arm set **203019-10-20** is used for mounting the 3M™ Peltor™ communications solutions, for which the microphone is attached to the radio fork. This Protos® Communication Attachment Arm set fits for systems:

LiteCom (**Item 204100**)

LiteCom Plus (**Item 204101**)

WS LiteCom (**Item 204102**)

WS Alert XP (**Item 204103**)

These items may also interest you:



P. 15



P. 135



P. 50



P. 199



P. 41



HUNTING&TRACKING



OUTDOOR



FORESTRY



WORK PROTECTION

ORDER THE MACLIP LIGHT ALONG WITH YOUR PROTOS® - WE TAKE CARE OF A PERFECT MOUNTING



Protos® Maclip Light (left)



Protos® Maclip Light (right)



Protos® Maclip Light mini

Protos® Maclip Light / Protos® Maclip Light mini

The Maclip Light is an LED safety lamp, which is mounted outside of the Protos®. This lamp, which is not conductive, has been certified by DEKRA. In addition, it is explosion-proof according to ATEX zones 1 and 21. Thanks to a light flux of around 120 lumens, the lamp provides enough illumination for the majority of tasks. The Maclip Light is mounted on the Protos® via a magnetic system. However, this system is also suitable for the belt clip.

The Protos® Maclip Light mini has 30 lumens and is waterproof to 100 %. Furthermore, the Protos® Maclip Light mini is explosion-proof according to ATEX Zone 1 and DEKRA.

Installation of the Maclip Light Protos® Holder is only possible via the Protos GmbH.

Item (left) 204074
Item (right) 204078
Item (mini) 204044



Maclip Light Lamp Holder
Item 204075

Magnetic clip system for Maclip Light.



Maclip Light mini Lamp Holder
Item 204045

Magnetic clip system for Maclip Light Mini.



Maclip Light Protos® Holder
Item 204076

Magnetic clip system for the Protos® Integral.



Maclip Light Belt Holder
Item 204077

Magnetic clip system for fastening to a belt.

These items may also interest you:



P. 15



P. 138



P. 31



P. 217



P. 135



HUNTING&TRACKING



OUTDOOR



TREE CARE



FORESTRY



WORK PROTECTION



EN 352-3

Protos® Integral Hearing Protection

The patented hearing protection of the Protos® Integral provides a noise reduction of SNR=26 dB, thus creating a safe level. By meeting the standard EN 352-3, the hearing protection is indispensable for all work with disruptive or harmful noise. If the hearing protection is not required, it can be easily shifted between the active and passive positions using two fingers. The hearing protectors can be (un)clipped easily with three fingers.

Monochrome

10 ● 40 ● 50 ● 60 ● 70 ○ 80 ●

Bicolour

13 ●● 21 ●● 24 ●● 43 ●●

53 ●● 26 ●● 63 ●● 72 ●●

73 ●● 28 ●● 83 ●●



Hearing Protection Absorption Inserts
Item 204059

The insulating insert fitted into the hearing protections helps reduce environmental noise, thus preventing hearing damage.



Hearing Protection Support Pad
Item 204062

The Hearing Protection Support Pads of the Protos® Integral will always fit without leaving pressure marks on the ears. They can be clipped on and off easily for a quick replacement.



Attachment Arm
Item 204057

The strap band is used to mount the hearing protection onto the Protos®. With the strap band, it is possible to regulate the height of the hearing protection as well as the fitting pressure.

To maintain the noise absorption values, the Absorption Inserts should be replaced every 2-3 years and the Support Pad should be replaced every six months for daily use.

Item 204067

These items may also interest you:



P. 23



P. 36



P. 41



P. 45



P. 33



KlimaAIR® Set



KlimaAIR® Headband



KlimaAIR® Set

The main and neck pad and the headband of the Protos® are made of high-quality Cocona functional fibres in combination with our proven KlimaAIR® technology. This combination, together with the optimised main support, ensures an ideal airflow around the head. The complete set can be removed and is machine washable at max. 30° C.

Item 204060

For hygiene reasons, we recommend that you wash the KlimaAIR® Set regularly use and replace it every 2-3 years in case of frequent use.

Designs

EP design no. 2012 101 489

KlimaAIR® Headband

The headband, which is equipped with KlimaAIR® technology and Cocona functional fibres, exhibits shortest drying times. It takes just 15 minutes to become dry completely. The KlimaAIR® Headband comes with the guide rail for easy clipping into the Protos® and is machine washable up to 30° C.

Item 204070

For hygiene reasons, we recommend that you wash the KlimaAIR® Headband regularly use and replace it every 2-3 years in case of frequent use.

These items may also interest you:



P. 15



P. 36



P. 31



P. 33



P. 38



HUNTING&TRACKING



OUTDOOR



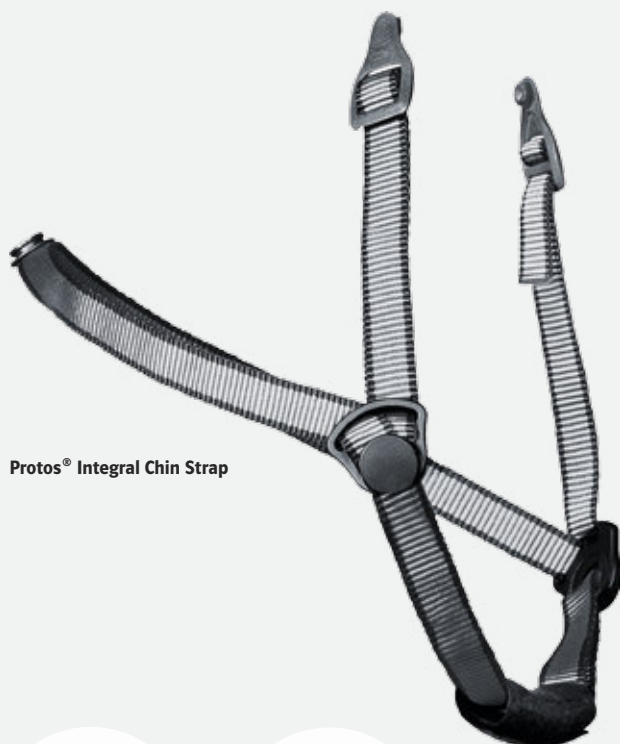
TREE CARE



FORESTRY



WORK PROTECTION



Protos® Integral Chin Strap



EN 12492

Protos® Integral Maclip Chin Strap
Chin strap with a magnetic closure system

SympaTex®

Protos® Integral Chin Strap

The chin strap fits the shell of the Protos® Integral. The chin strap can be attached to the prefabricated loops of Protos® using the insertion buttons. Thanks to the strip guide on the neck shell, the chin strap will always fit smoothly. Moreover, it cannot slip under the Hearing Protection Support.

Item 204042

Item (Protos® Integral Maclip Chin Strap) 204043

In case of daily use, we recommend replacing the chin strap every 1-2 years.

Protos® Integral Neck Protection

The neck protection for the Protos® Integral is available in different colours. All variants of the neck protection for the Protos® Integral are made of high-quality 3-layer SympaTex performance fabric. Thanks to its material and shape, the neck protection prevents dirt and liquids from reaching the neck. Moreover, the neck protection itself is dirt- and water-proof, which makes it easy to clean. The neck protection can be attached via a simple clipping to the neck shell of the Protos®.

Item 204065



10 ●



20 ●



40 ●



60 ●

These items may also interest you:



P. 31



P. 71



P. 155



P. 109



P. 189



Oliver

Size: 168 cm

Protos® Integral Industry

Protos® Integral Hearing Protection

Protos® Integral Safety Glasses

StretchZone® Canvas Jacket, Size M

StretchFlex® Technic, Size 8

HETRONIC

KAISER