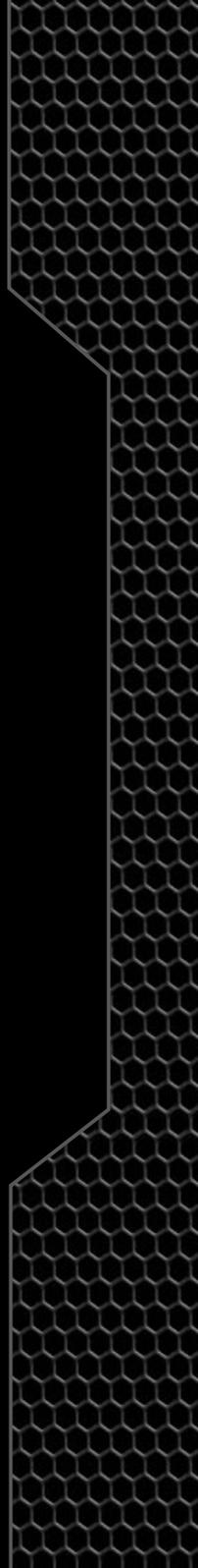


PROTOS

PROTOS 

integral





Engineered by
PFANNER Austria

EXTREME CONSISTENCY



Manuela, Anton, Bernd Pfanner

We live and work in Vorarlberg, the most innovative region in Austria. Our family (Anton, Brigitte, Manuela and Bernd Pfanner) does not think in quarterly reports but in generations. Therefore we have aligned our company with sustainable development.

It is all or nothing for us. Uncompromising protection and quality are our top priority. We are professionals just like our customers and have specialized in extreme applications in forestry, tree care, protective clothing, hunting, special applications and outdoor clothing. Extreme situations are never one hundred per cent foreseeable, which is why we have developed protective equipment offering the highest safety. One guardian angel more can't hurt.

The vision of developing an Integral Helmet has been around for more than 12 years. We never thought that such a project - the development of all components and functions - would require so much time and know-how.

SUSTAINABILITY

Although there are often many and long discussions when talking about our carbon footprint, this is not true at Pfanner or Protos! We have clear specifications: Every component, no matter how small, must come from the region and have the shortest possible transport routes. For Protos this means that all parts are developed and produced in Austria, Germany or Switzerland. The final assembly is completed in the Protos GmbH head office located next to the Pfanner logistics centre. Not only do our experienced production employees come from the region but also our know-how. We have been able to involve many professionals and experts from the Vorarlberg border triangle region to truly perfect every component no matter how small.



PROTOS® INTEGRAL INDUSTRY



Revolution on the market for industrial helmets!

What started as an idea for forestry became reality for the industrial sector due to patents and certifications. The Protos Integral Industry offers all comfort & safety aspects of the forest and climbing helmet and is extremely flexible in its configuration. Especially for distinguishing competences in industry we also offer plain coloured helmets. Within the glimpse of an eye the industry helmet may be converted into a climbing helmet. The entire range of accessories is modular. One helmet for any challenge!



Protos[®] INTEGRAL INDUSTRY

Protos® INTEGRAL INDUSTRY (EN 397)



Protos® Integral Industry

red: No. 202000-10-10
red/yellow No. 202000-10-12



**Protos® Integral Industry
red/grey**

No. 202000-10-13



**Protos® Integral Industry
blue/yellow**

No. 202000-10-42



**Protos® Integral Industry
blue**

No. 202000-10-40



**Protos® Integral Industry
blue/grey**

No. 202000-10-43



**Protos® Integral Industry
yellow**

No. 202000-10-50



**Protos® Integral Industry
yellow/grey**

No. 202000-10-53



**Protos® Integral Industry
orange**

No. 202000-10-60

Protos® INTEGRAL INDUSTRY (EN 397)



**Protos® Integral Industry
orange/yellow**

No. 202000-10-62



**Protos® Integral Industry
orange/grey**

No. 202000-10-63



**Protos® Integral Industry
white**

No. 202000-10-70



**Protos® Integral Industry
white/yellow**

No. 202000-10-72



**Protos® Integral Industry
white/grey**

No. 202000-10-73



**Protos® Integral Industry
green**

No. 202000-10-80



**Protos® Integral Industry
green/yellow**

No. 202000-10-82



**Protos® Integral Industry
green/grey**

No. 202000-10-83

PROTOS® INTEGRAL FOREST



The helmet for the hardest tasks.

The Protos Integral helmet, certified according to EN397, EN352-3 and EN1731, is best suited for the hardest operations and the most extreme weather conditions, from cold and wet to hot and dry temperatures. Thanks to the excellent ventilation, the head remains cool and dry while the visor allows for maximum visibility with no risk of freezing in below freezing temperatures. The feature that makes the Protos Integral unique is the „Integral solution“. We have managed to integrate all parts inside the helmet shell. As a result there is no risk of getting hung up on branches, brush or other obstacles.



Protos[®] INTEGRAL FOREST



Protos[®] INTEGRAL FOREST (EN 397/EN 352-3/EN 1731)



**Protos Integral Arborist
red/yellow**

Order No. 204000-10-12 (G16)
Order No. 204002-10-12 (F39)



**Protos Integral Arborist
red/grey**

Order No. 204000-10-13 (G16)
Order No. 204002-10-13 (F39)



**Protos Integral Arborist
blue/yellow**

Order No. 204000-10-42 (G16)
Order No. 204002-10-42 (F39)



**Protos Integral Arborist
orange/yellow**

Order No. 204000-10-62 (G16)
Order No. 204002-10-62 (F39)



**Protos Integral Arborist
orange/grey**

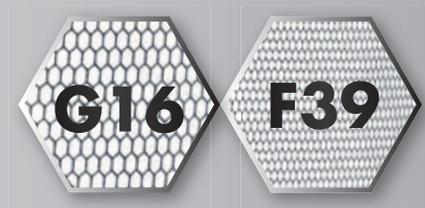
Order No. 204000-10-63 (G16)
Order No. 204002-10-63 (F39)



**Protos Integral Arborist
green/yellow**

Order No. 204000-10-82 (G16)
Order No. 204002-10-82 (F39)

**Now available with a
rough or fine backsight!**



16 ports /cm²

39 ports /cm²

PROTOS® INTEGRAL ARBORIST



Inspiring flexibility.

Thanks to the certification according to EN397 and EN 12492, the "Protos Integral System" can be changed within seconds to be used for forestry, arborist work or climbing operations. The chin strap, visor, neck protection and ear protection are all integrated and yet at the same time modular items. Thanks to the strongly gripping neck protector, the helmet sits perfectly even while working at an angle or upside-down and gives you a safe hold. It is especially difficult to free up a hand particularly working at great heights. That is why it was important to us to keep the handling simple - everything can be adjusted with just two fingers.



Protos[®] INTEGRAL ARBORIST



Protos[®] INTEGRAL ARBORIST

(EN 12492/EN 352-3/EN 1731)



16 noches /cm²

39 noches /cm²



**Protos Integral Arborist
red/yellow**

No. 205000-10-12 (G16)
No. 205002-10-12 (F39)



**Protos Integral Arborist
red/grey**

No. 205000-10-13 (G16)
No. 205002-10-13 (F39)



**Protos Integral Arborist
blue/yellow**

No. 205000-10-42 (G16)
No. 205002-10-42 (F39)



**Protos Integral Arborist
blue/grey**

No. 205000-10-43 (G16)
No. 205002-10-43 (F39)



**Protos Integral Arborist
orange/yellow**

No. 205000-10-62 (G16)
No. 205002-10-62 (F39)



**Protos Integral Arborist
orange/grey**

No. 205000-10-63 (G16)
No. 205002-10-63 (F39)



**Protos Integral Arborist
green/yellow**

No. 205000-10-82 (G16)
No. 205002-10-82 (F39)



**Protos Integral Arborist
green/grey**

No. 205000-10-83 (G16)
No. 205002-10-83 (F39)

Protos® INTEGRAL Accessories



Accessories



Protos Visor G16 EN 1731

Facial protective visor with 16 notches / cm². Due to its special coating reflections of sunlight and freezing over at temperatures below 0°C are averted.

Order No. 204064



Protos Visor F39 EN 1731

Facial protective visor with 39 notches / cm² for better view and protection from sawdust (e.g. beech, oak). With a special coating against light reflections and freezing over at temperatures below 0°C.

Order No. 204063



Neck protector

Clip-on neck protector against dirt and rain. Made of 3 layers of high-quality functional fabric.

Order No. 204065

10  60 

Accessories



Absorption inserts

For hygienic reasons, the cushioning pads as well as the absorption inserts should be regularly replaced.

Order No. 204059



Hygiene set for ear protectors

Spare pads for the Protos ear protection, easily equipped by clipping-on. (e.g. in case of heavy stains)

Order No. 204062



Ear Protectors EN 352-3

To clip onto the Protos Integral. Contact pressure and ear position are adjustable.

Order No. 204067

13		62	
21		63	
42		82	
43		83	
72		53	
73			

Accessories



Chin strap EN 12492

Chin guard for the Industry and Forest helmet.

Order No. 204068



Klima-AIR Set

A set for changing the pads of the protective helmet Protos Integral. Made of high-quality Cocona functional fibres.

Machine washable at 30°C.

Order No. 204060



Klima-AIR headband

Headband made of Cocona functional fibres for high wearing comfort and quick drying. With rail to clip-on. Machine washable at 30°C.

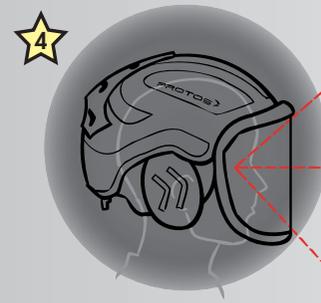
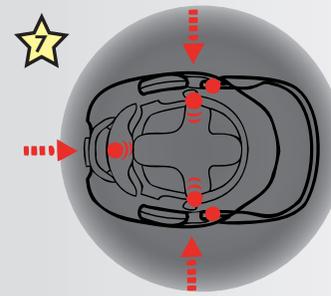
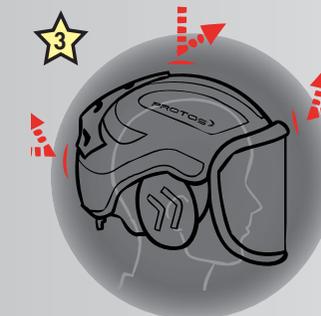
Order No. 204061

Additional accessories are being developed and manufactured (i.e. wireless solutions, integrated protective goggles, ...) You will receive the most up-to-date information with our newsletter. Request your newsletter at www.protos.at.

More safety, than required by EN 397!



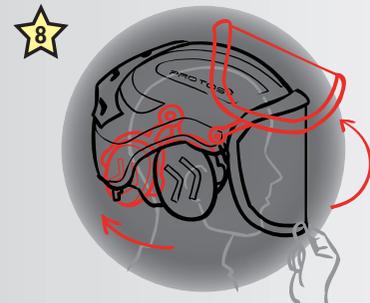
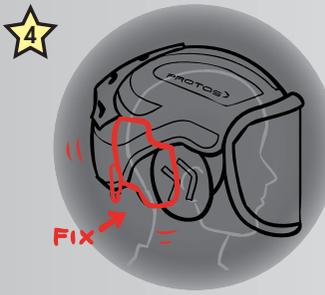
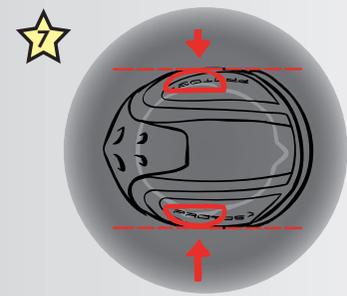
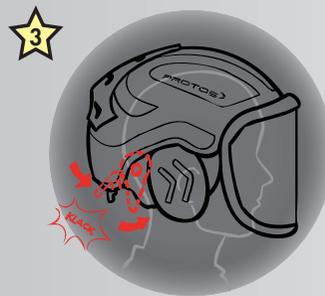
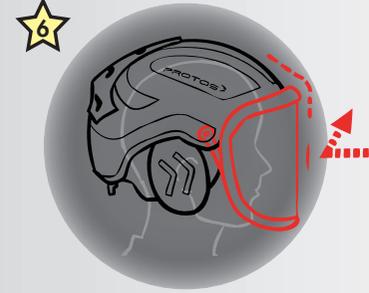
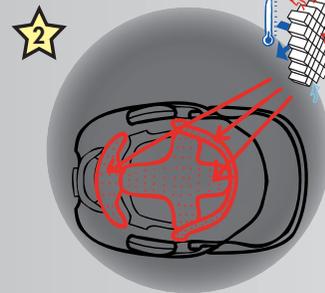
MORE SAFETY



- ★ The sporty 2 colour combination has 35 % more visible surface. The highly **increased visibility** gives the wearer a great advantage in situations where they might be hard to spot (foliage, coniferous woodland, blinding sunlight etc. - no matter what season).
- ★ The **safety ventilation slit** offers high safety exactly where it is needed. Horizontal and vertical impacts are absorbed by the additional shell before the energy affects the main helmet.
- ★ With the first-time certification with EN 397 and EN 12492 standards the protective helmet Protos not only protects from **vertical** but also from **horizontal impacts**. This results in an innovative „all round protection“.
- ★ **Greater field of view** compared to all tested helmets on the market. Offers maximum sight.
- ★ The **neck protector** guards the back of the head from impacts when falling and minimizes the danger of basal skull fractures.
- ★ Due to the elaborate **interior shell** the helmet fits perfectly. In case of an impact the energy is diffused on a large area and absorbed evenly.
- ★ Due to the **special cushioning construction** (3-point mounting and antishock pads) of the interior shell impacts are effectively absorbed and not transferred to the head, respectively the spine.
- ★ As the ear protection is always put on, it serves as **additional shock protection**.

8x

MORE COMFORT



- ★ The special construction guarantees **active ventilation** (air may flow in from all sides and exhaust through the ventilation channels on top). The ventilation channels may be closed or opened with a push lever. This way you can adjust the helmet to warm, cold or wet conditions.
- ★ Extraordinary sweat transport due to large contact pads with **Klima-AIR technology**.
- ★ Our **patented size adjustment** makes the helmet easy to put on or off by activating or deactivating the neck part. Once you adjusted its size, you will not have to adjust it again.
- ★ Correct fit on the head due to the prolonged, adjustable **neck bowl**. This way the helmet offers perfect fit even without chin guard.
- ★ So that the chin guard does not slip under the ear protector we attached a **special rail** to it. Wearing comfort and noise damping are ensured.
- ★ 2 great advantages of the **integrated facial protection**: You can work without getting caught on twigs or thorns while having an incredible field of view.
- ★ Due to the **integrated ear protection** there are no prominent parts with which you could get caught on branches and such. The adjustable contact pressure of the ear protectors allows optimal customization.
- ★ All functions are operable with only **2 fingers**. Also the ear protection which can be deactivated by pushing it in its integrated garage under the outer helmet shell.

PROTOS® INTEGRAL ENGINEER STANDARDS

Chin strap
Forest EN 397

Chin strap
Arborist EN 12492

Effectiveness of the
support equipment

Shock absorbtion
in the front

Shock absorbtion
laterally

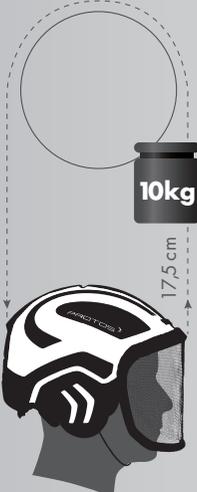
Shock absorbtion
in the back



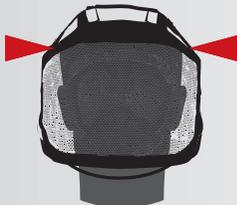
150 N ≤
≤ 250 N



≤ 500 N
≤ 25mm Dehnung
≤ 25mm distension



max 10 kN



max 10 kN



max 10 kN

Protos® EN 397	✓					
Protos® EN 12492		✓	✓	✓	✓	✓

Shock absorption EN 12492	Penetration resistance	Shock absorption EN 397	Ventilation	Low temperatures	Low temperatures	Ear protectors EN 352-3	Visor EN 1731 Class S
 <p>5kg 2 m</p> <p>max 10 kN</p>	 <p>3kg 1 m</p> <p>kein Durchdringen no interfuse</p>	 <p>5kg 1 m</p> <p>≤ 5 kN</p>		 <p>- 30°C</p>	 <p>- 20°C</p>		
✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓



Kopfumfang: 54 - 62 cm
 Headsizes: 54 - 62 cm

PROTOS® INTEGRAL IN 3D!

iPad APP:



Mobile APP:



The official Protos® Integral APP is available free of charge for iPads and all mobile devices (OS & Android).

The iPad APP can be found in the Apple APP-Store (simply look for "Protos") and is equipped with every-thing from 3D animation to a module to try on helmets.

A somewhat smaller version of the iPad APP is available for all smartphone terminals; 3D animation, small videos and all information about the helmet is included.

PROTOS® INTEGRAL IN 3D!



PROTOS[®]

integral

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www.protos.at

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Pfanner[®] group