

HELMET TECHNOLOGY

OVERVIEW

CONSTRUCTION



LIGHT SHELL

We use the LIGHT SHELL for all InMould helmets with polycarbonate outer shells. Here the shock-absorbing EPS foam core is injected directly into the PC shell. The two components bind together and offer perfect protection and a low weight.



CARBON SHELL

The helmets shell is made from carbon fibres, which increases safety and decreases weight. This is why this technology is used for our racing helmets.



TOUGH SHELL

The classic dual construction made up of the ABS outer shell and the shock-absorbing EPS foam core is matchless in terms of longevity and impact strength. For this reason we use this construction for our STIVOT series helmets and for all the helmets in our rental range.



CONEHEAD SANDWICH CORE

The particular, pyramid-like structure of the two-layer foam ensures that shocks are better absorbed and that the impact energy is extensively distributed over the helmet. An innovative construction by means of which we brake the mold in the design of winter sports helmets.

MONO CORE

The shock absorbing inner layer of the MONO core is injected through the hard outer polycarbonate layer to create a single comprehensive unit that provides perfect protection at a reduced weight.



DUAL DENSITY CORE

This patented core technology is made from EPS with dual densities. This increases the helmets impact performance and suitable according to the FIS RH 2013 standard.



DELTACELL CORE

The revolutionary DELTACELL core technology heralds a new era in helmet construction. Using innovative polymer technology, this soft helmet has outstanding impact performance and the ability, to adapt to individual head shapes.



LOWER MICROSHELL

The helmet body is also coated with polycarbonate in order to avoid scratches and dents in the foam.



TWIST STOP GOGGLE RETAINER

The Twist stop goggle retainer will keep the goggles exactly where they belong and avoids any slipping of the straps.



REMOVABLE BRIM

For some, it is a matter of style – for others, it is a matter of function: the removable brim gives the helmet a cap-like style and serves as a sun, snow or rain protection. The integrated vents ensure that the moisture of the goggles is transported away and that the goggles do not fog up.



HYBRID SHELL

Our new Hybrid Shell construction combines the advantages of the robust ABS technology with the lightweight In-Mould construction. Thus, we develop lightweight, extremely robust and durable helmets. Hybrid Shell helmets may be constructed slimmer, a fact that adds to the stylish look.



LOWER MICROSHELL

The helmet body is also coated with polycarbonate in order to avoid scratches and dents in the foam.

VENTILATION



ADJUSTABLE DUAL ZONE VENTILATION

The ventilation in the two air ducts may be optimally adjusted independently from each other by means of two slide controls at the front and back side of the helmet.



ADJUSTABLE VENTILATION

The opening of the ventilation ducts on the top of the helmet may be adjusted continuously by means of a slide control.



THERMAL VENTILATION

Thermal Ventilation is our automatic ventilation system which leads warm air away from the head to the outside without allowing any cold air to the inside.

LINING



SYMPATEX LINER

SYMPATEX liner ensures excellent climate control. The HIGH2OUT laminate guarantees fast, effective sweat removal from the head while blocking moisture from coming in from the outside.



BEANIE LINER

The soft Microfleece material of the Beanie Liner adapts perfectly to the head and thus avoids any bruises and the unpleasant entering of cold air. Molded-in mesh zones let heat and moisture escape to the outside and, together with the ventilation system, ensure a pleasant head climate.



WOMEN SPECIFIC BEANIE LINER

Women have a different head shape than men. This is why we developed a Beanie Liner for women which is exactly adapted to the anatomy of the female head. This was achieved by means of two differently thick padding zones made of soft Microfleece.



INTEGRATED LINER WINDSHIELD

If it is very cold or stormy, the forehead above the goggles may be exposed to extreme temperatures. The liner windshield integrated in the Beanie Liner may simply be folded down if required and will thus close the gap between helmet and goggles. A small feature with great effect.



VENT DAMS

On cold days on the slope, the vents of the Thermal Ventilation may easily be closed by means of the Vent Dams.



AUDIO SOLUTION WITH VOLUME CONTROL

Our audio-helmets are equipped with high-quality earphones in the soft ear pads. The volume control integrated in the earphone cable provides for easy handling.



AGION™ ANTIMICROBIAL LINING

We use an antimicrobial Agion™ material for our liners. The combination of disinfecting silver ions and a preceramic coating makes the surface antimicrobial and the helmet remains odorless.



PERFORATED SOFT MICROFLEECE

The soft Microfleece material has two functions: it feels pleasant on the skin, absorbs moisture and transports it away from the head.



SOFT VELVET

A soft and at the same time durable material which absorbs the moisture and thus keeps the head dry.

EARPADS / NECK



HEIGHT ADJUSTABLE EARPADS

Due to the fact that not all people have their ears at the same height, we developed a patented system for the height adjustment of the ear pads. This system guarantees an optimal hearing and perfect fit of the helmet. Of course you can completely remove our ear pads including Neckgator on warm days or for cleaning purposes.



3D FIT

Head 3D Fit allows an exact horizontal as well as vertical adjustment of the helmet to the shape of your head.



2D FIT

The size adjustment system may be varied horizontally in order to individually adjust the helmet to your head.



REMOVABLE EARPADS

These ear pads and neckgator can be removed to suit the variable weather conditions and for cleaning.



HAIRPORT

The asymmetric positioning of the dial creates a HAIRPORT for ponytails.



BOA 360°

The 360° FIT system by BOA evenly adjusts the fit of the helmet to all shapes of head.

HELMET

FITTING

1

FIND THE RIGHT SIZE

Measure your head circumference with a tape measure which you apply above your ears. You will find the correct helmet size for your head circumference in the table below.



2

PUTTING ON THE HELMET AND ADJUSTING THE CHIN STRAPS

The helmet shall sit tightly on your head directly above your eyebrows. Adjust the two chin straps so that they solidly fix and hold the helmet.



3

CHECK FIT WITH GOGGLES

In order to check the perfect fit of the helmet, please put on your goggles. There should be no gap at all or an only small gap between the upper edge of your goggles and the helmet.



SIZES AND HEAD CIRCUMFERENCE

Model	Size (cm)	XS	S	M	L	XL	XXL
STIVOT RACE	52-53	54-55	56-57	58-59	60-61	62-63	
STIVOT RACE YOUTH	52-53	54-55	56-57	58-59			
SLALOM RACING CHINGUARD for helmet size	XS/S	XS/S	M/L	M/L	XL/XXL	XL/XXL	

Model	Size (cm)	XXS	XS/S	M/L	XL/XXL
CREST, ALPHA, AGENT, SENSOR, BEACON, REBEL, STIVOT SL, VENTOR PRO R, VENTOR R			52-55	56-59	60-63
CARMA, ADORE, AVRIL, GRACE, CLOE, STIVOT YOUTH SL			52-55	56-59	
AI R YOUTH, VENTOR YOUTH R		49-51	52-55	56-59	
RENTAL SR			52-55	56-58	59-64
RENTAL JR		48-51	52-55	56-58	

Model	Size (cm)	XXS/XS	S/M
JOKER, STAR		49-52	53-56