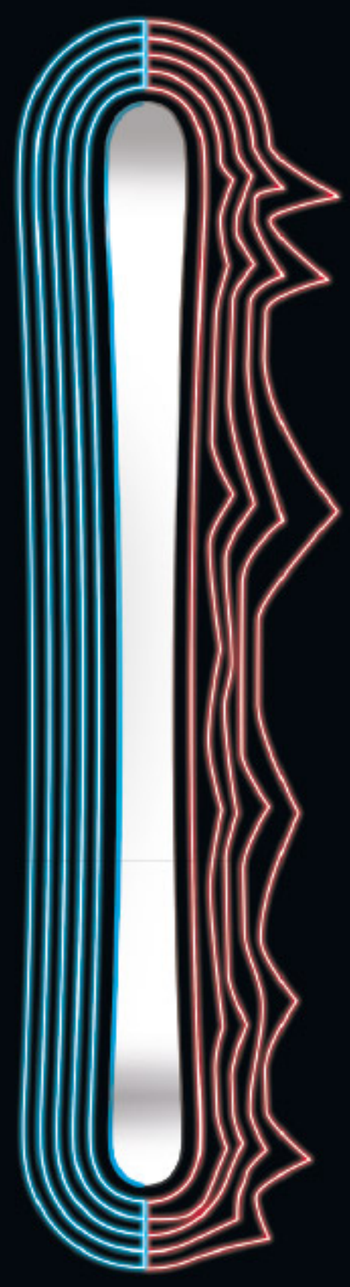
SKI TECHNOLOGY | FRAMEWALL

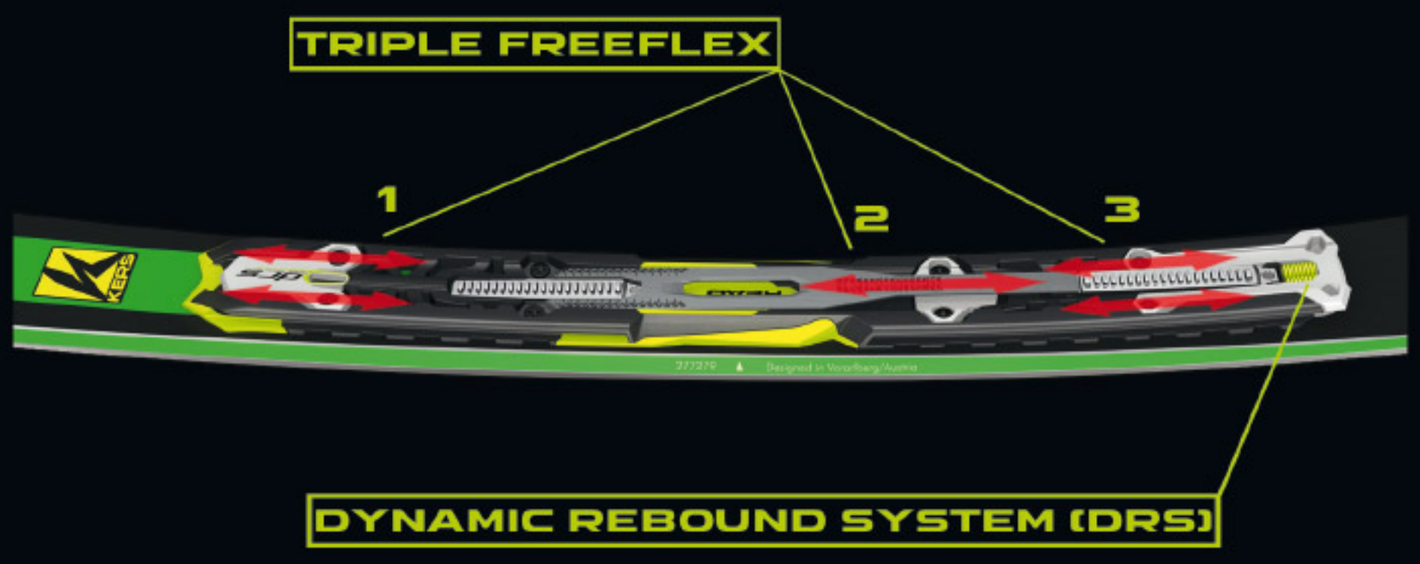


FRAMEWALL

The extraordinary stressing of Park&Pipe skis generally result in fast abrasion and easy chipping of the top sheet. This problem has been solved by the all new FRAMEWALL.
The three dimensional build of the sidewalls covers the skis top sheet and prevents it from chipping and other external hazards, which results in delamination. The FRAMEWALL is the first 360 protector on a ski, that increases the skis durability and performance considerably!

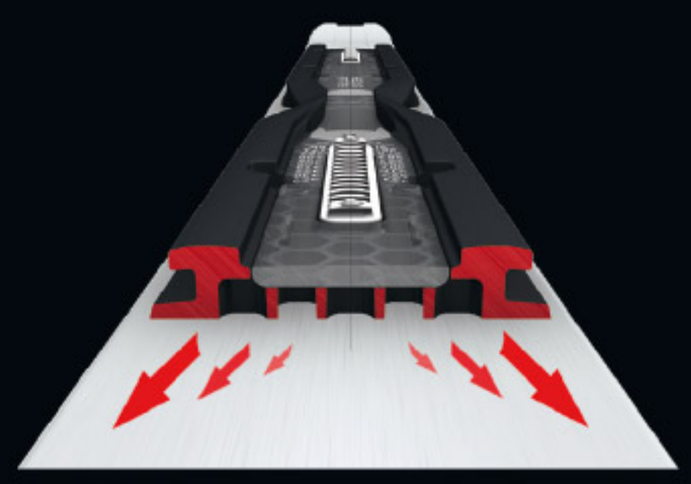
TRIFLEX TECHNOLOGY

HEAD TRI Flex base
For the first time a FreeFlex System, is integrated in a newly designed base system, the HEAD TriFlex base. For unhindered natural ski flex, the base is secured by one fixed pair of screws and three special gliding devices. This offers multiple flexing opportunities to the front, to the rear and on the base, allowing the ski to retain its natural flexibility and dynamics. The Dynamic Rebound System – DRS with its two power-springs, enforces the inherent ski rebound and allows faster edge-to-edge transition, with more powerful and agile skiing at the highest level.



SUPERLITERAIL – SLR BASE

The new SuperLiteRail base has a wide contact interface on the ski – 30 % wider than the LiteRail. In combination with the integrated Freeflex-Function the SLR base guarantees constant force distribution which leads to flawless control and performance, without affecting the natural ski flex.



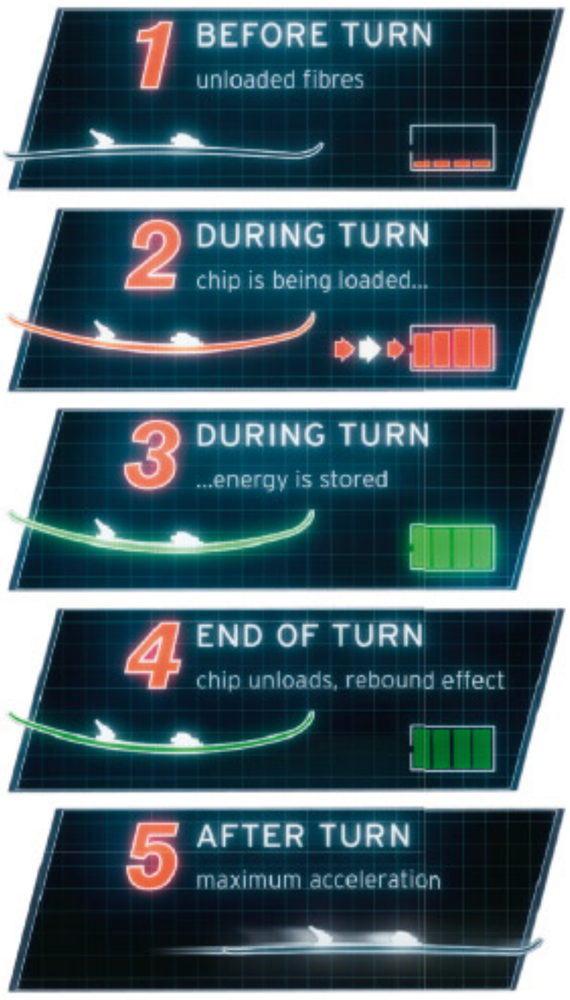
SKI TECHNOLOGY I KERS

THE EXTRA BOOST

KERS Technology works like a turbo charger that provides additional power and acceleration by stiffening the tail of the ski in outturns.
The effect: a boost, catapulting the rider into the next turn. Just like when Formula 1 pilots push a button for that extra notch of Speed. HEAD KERS Technology is an electronic, fully automatic and integrated system.

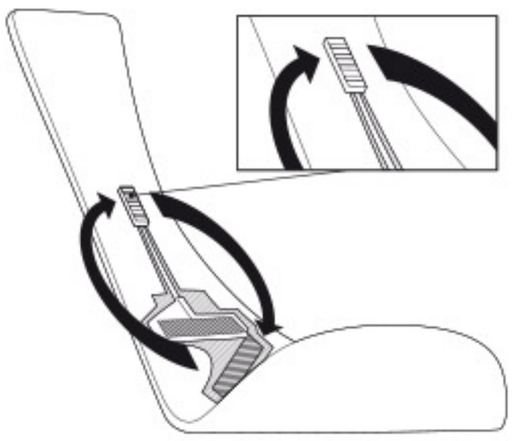
TECHNICAL BACKGROUND

HEAD KERS Technology is an evolution of the idea behind HEAD's Intelligence™ Technology. But unlike Intelligence™, KERS does not influence the torsional stiffness of the ski, KERS empowers the skis' longitudinal flex. Also KERS Technology is based on a completely new chip capable of accumulating power and keeping it in store for the right moment. Piezoelectric fibers transform kinetic energy into electrical energy which is stored in the embedded chip in the ski. Electrical energy is immediately released to areas of the ski, where additional energy is requested by the sensor. Timing and release are automatically controlled and coordinated.
Depending on the flex pattern of different ski models, sensors are programmed beforehand: the more aggressive the ski has to be, the stiffer the tail will become.
Skis experience maximum flex at the end of a turn. At this moment an active microship releases energy into the fibers of the tail. The tail of the ski then stiffens up, immediately increasing rebound for maximum acceleration at the end of the outturn.



ELECTRONIC SKI MANAGEMENT SYSTEM

HEAD's theory of relativity: Ski performance is not an absolute measure. What you want out of a ski always depends on how and where you ride. On hard-packed slopes you want perfect edge grip. On soft snow, you want more maneuverability. Breaking the slope record you want your ski to perform differently than when you're just cruising with your friends or family. Adaptive HEAD IntelligenceTM Technology helps your ski perform perfectly – both relative to terrain and your individual riding mode.

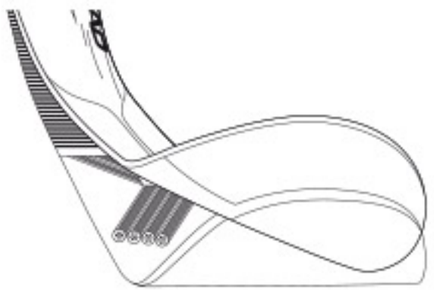


HOW IT WORKS

Intellifibers positioned at 45° in front of the binding transform mechanical impulses into electrical energy. The harder you ride, the more energy is produced. The electrical energy is led back to the Intellifibers. This causes them to stiffen up, putting more rebound and torsional stiffness into the ski.

WHAT IT DOES

Their 45° position in front of the binding increases the ski's torsional stiffness, pushing the edge into the snow in hard turns. IntelligenceTM progressively stabilizes the entire ski at high speeds.



THE EXTRA BOOST

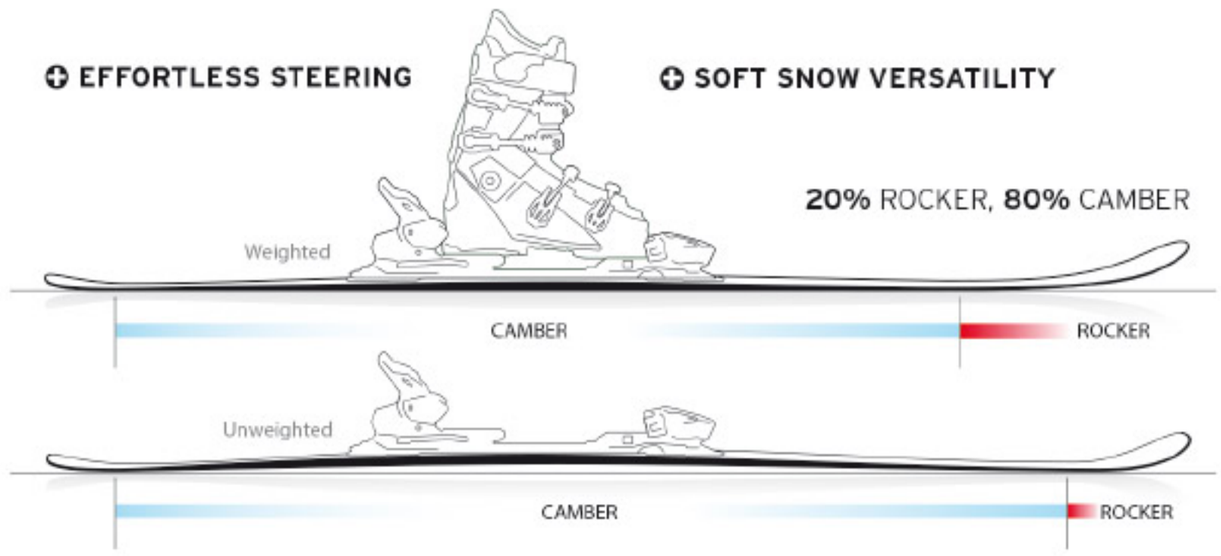
Some HEAD high-end skis boast Intelligence™ Chip Technology. Here, the electrical energy produced by the Intellifibers is not just recycled, but accumulated and released bit by bit through a pre-programmed chip – individually timed to match the oscillation properties of the ski. Thus, the effect of Intelligence™ is multiplied, providing even more performance relative to your
skiing style.

BIG MOUNTAIN SKIS WITH BEYOND RACE TECHNOLOGY

TTS – TIP AND TAIL STABILIZER SYSTEM. A SKI WITH REDUCED VIBRATION AND INCREASED DAMPENING AND A SYSTEM TO INCREASE TORSIONAL STRENGTH ALL WHILE AT THE SAME TIME REDUCING SWING WEIGHT.

TTS is a stabilizing exoskeleton which dampens the vibrations normally felt from rockered tips and tails also reduces overall swing weight and creates a ski with a playful yet high level of performance. The system is comprised of an elastomeric inlay for vibration control as well as a glass fibre exoskeleton for stability and torsional strength. This combination not only reduces vibrations but creates better pressure distribution upon entry and exit of a turn by minimizing lateral flex of the ski. Reducing overall vibration means better edge control and therefore increasing overall skiing performance and skier experience. In addition, the reduction of necessary core materials in the tips and tails has created a lighter swing weight for easier handling and maneuverability both on snow and in the air.

Rocker done right.



01

ALLRIDE ROCKER

A rocker who feels comfortable on the steepest slopes and deepest pow – made for skiers who feel comfortable on steepest slopes and deepest pow, and who are always ready to make the best out of every single skiing day. Allride Rocker enables superior steering and increased floatation. We place exactly the right amount of rocker in each model to ensure maximum performance for all ability levels. Steering is easier for all skiers and soft snow versatility is enhanced.

02

PNP ROCKER

Some people want fo fly high – If you're one of them, be sure your ski features the PNP Rocker. Consider it a pair of wings for skis, developed in the HEAD freestyle laboratory. Our Park & Pipe Rocker incorporates tip and tail rise with regular camber underfoot. PNP gives skis a significant amount of pop and energy for boosting tricks. So dive in, go bigger, fly further, and rock the park and pipe as hard as you can.

03

SPEED ROCKER

For perfect handling on hardpack – a slight tip rise on a ski with standard camber, which means great performance, easy turn initiation, and high versatility on soft snow. 10% rocker and 90% camber is just enough to take the sting out of the edges, while keeping the bite you need to turn. Speed Rocker turns HEAD performance skis into a weapon of speed with power steering. It's fast. Are you?

04

TNT ROCKER

For more powerful freeriding – Tip & Tail Rise meet partial camber: The recipe for great float and freedom in powder with enough standing power to enjoy those days you didn't pray for snow. Really the best of both worlds. 40% Rocker is radical enough to satisfy the freeridin' soul. 60% Camber helps keep your speed and your budget in check – because with the versatility of TNT rocker, you'll have to buy one less ski for your quiver.

05

JUNIOR ROCKER

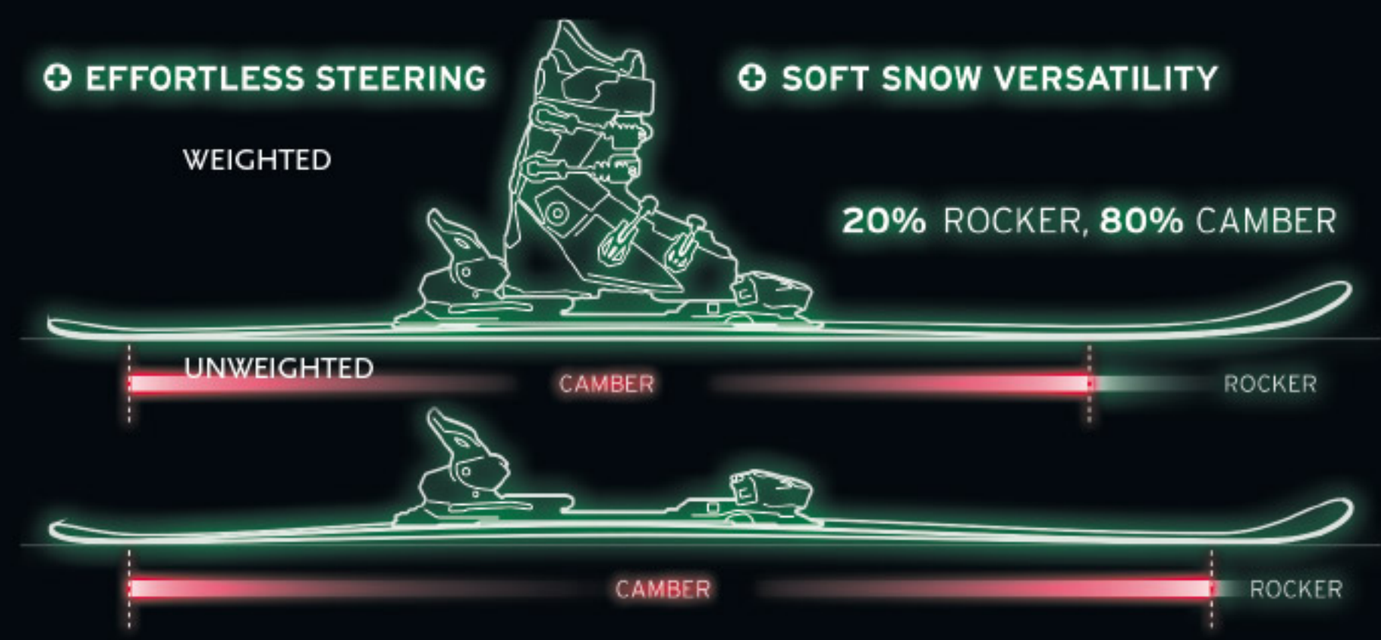
For perfect allride performance. Kids don't like compromises. But they don't like sticking to decisions either. One day they're a rockstar. And the next day they want to be a bunny. With 20% rocker and 80% camber, kids get tons of float, easy turn initiation, and plenty of speed and control. HEAD's Junior Rocker simply works for anyone, anywhere.

SKIS TECHNOLOGY | ERA 3.0

era 3.0
EVOLUTIONARY ROCKER ARCHITECTURE

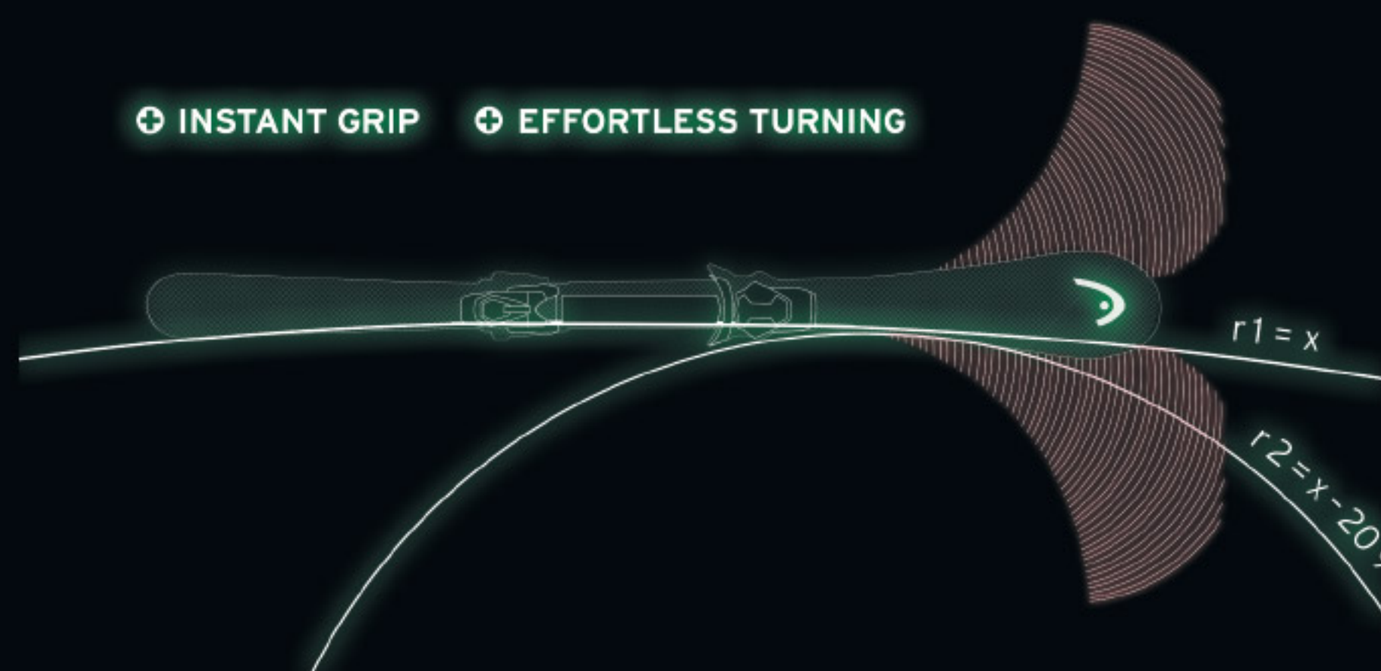
ERA 3.0

Imagine a ski that performs for everyone, anywhere: One for all. All in one.
HEAD ERA 3.0 is not your one-dimensional «Have a problem? We fix it!» technology.
ERA 3.0 is a combination of technologies, shape and geometry.
Think Rock er, think Radius, think Rebound.
Think 3-dimensional.



ALLRIDE ROCKER

For superior steering and increased floatation. We place a highly targeted amount of rocker in each model to ensure maximum performance for all ability levels. Steering is easier for all skiers and soft snow versatility is enhanced.



PROGRESSIVE RADIUS

For tremendous turning. Regular rocker makes skiers place their ski further on edge to have it touch from tip-to-tail. With progressive radius, up to 50 % less angulation is needed to enjoy full edge contact. More edge on the snow = more edge grip.

INTELLIRISE REBOUND

For targeted stability. We move our legendary piezoelectric Intellifibers to the tip of the ski. The nasty tip vibrations found on regular rockers are not found here. These skis are too smart for that.

ERA 3.0S

The Supershape line was called the Supershape because from its inception it was shaped to perfection. Now, the Supershape has taken on ERA 3.0 S.
It's the sports version with a multifaceted ski designed with race innovation and inspiration, yet now with the addition of Rocker, Radius and Rebound. With a totally unique V-Shape construction this is not just a new ski, it is a totally new skiing experience.
The new Supershape with ERA 3.0 S is the combination of all mountain carving, race technology, and a new gradient on turning mechanics and ski capabilities sure to impress skiers on many levels. 10 % Rocker and 90 % camber are combined to impress. The additional layer of Intellifibers provides explosive power, control and increased responsiveness.

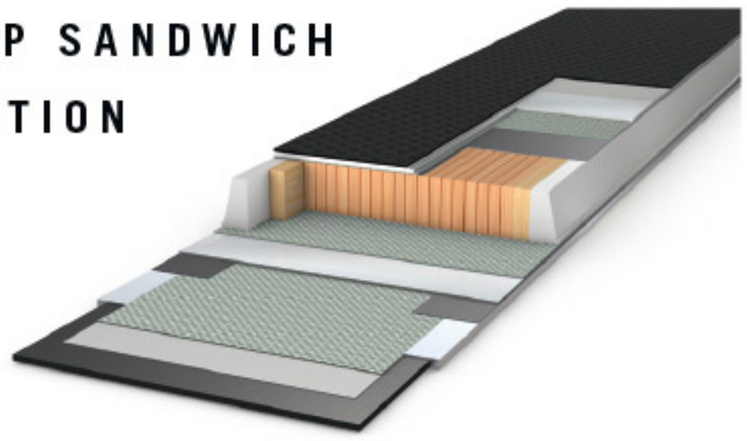
era 2.0

ERA 2.0

THE LITTLE BROTHER OF ERA 3.0.
It is everything ERA 3.0 has to offer as far as design, performance and geometry integration, but without the addition of "Rebound" with its piezoelectric Intellifibers. While we do want to see kids experience skiing performance at the highest level, they should have the best possible tools to learn and perform.

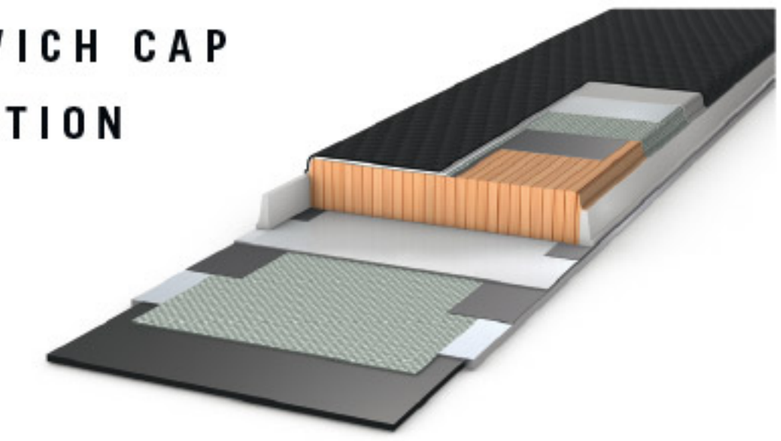
SKIS TECHNOLOGY | HEAD CORE

WORLD CUP SANDWICH CONSTRUCTION



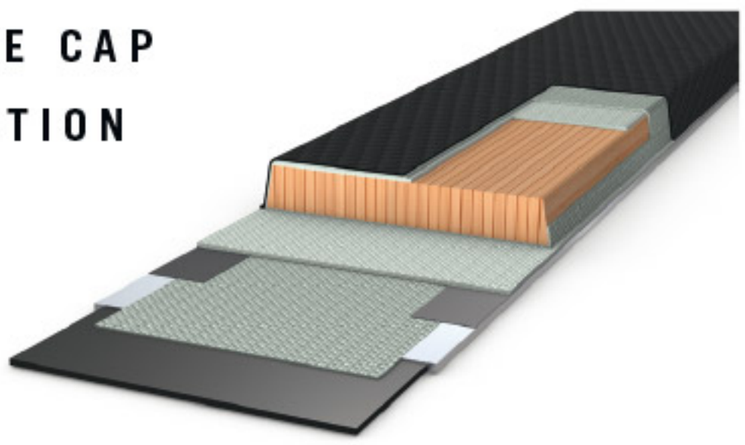
Hand built by the finest ski technicians in the modern world. The vertical laminate wood core is embraced by speedfreak phenolic sidewalls and the finest Titanal. This is the fastest construction on the planet.

WC SANDWICH CAP CONSTRUCTION



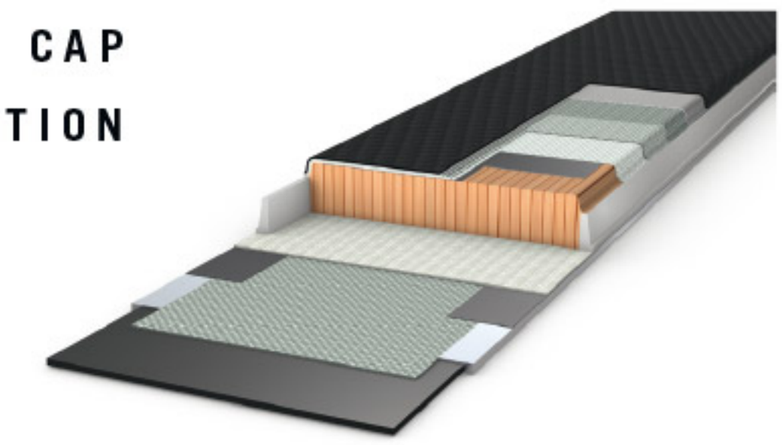
A wood core sandwich construction with Titanal which combines the solid and responsive performance of the vertically laminated wood core and control offered by the Titanal. Upper layer wrapped by Cap that insures longer durability.

WOOD CORE CAP CONSTRUCTION



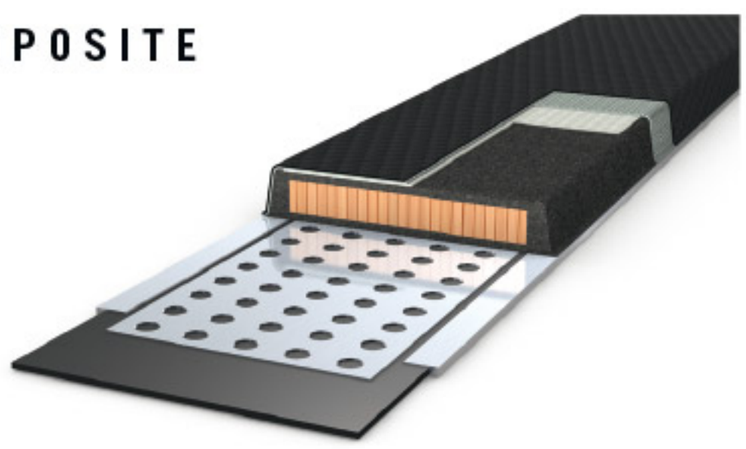
A vertically laminated wood core surrounded by a sock of fiberglass and the whole body is wrapped by a durable topsheet. This forgiving construction is ideal for ramping up the learning curve.

SANDWICH CAP CONSTRUCTION



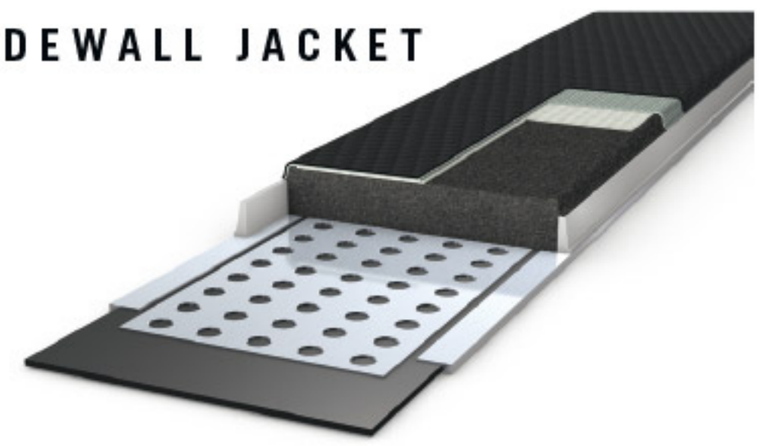
Is the world cup sandwich construction with a cap that wraps over the top edge of the sidewall to make the ski more suitable for all mountain skiing.

WOOD COMPOSITE CORE



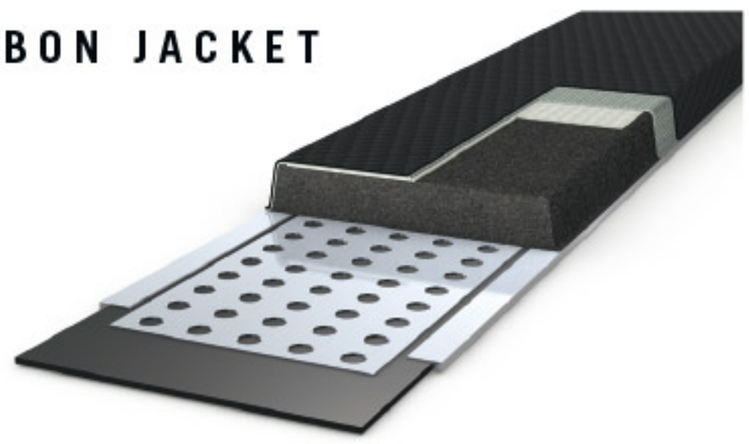
A vertically laminated wood core with a PU injected sock around it. The Cap constructions insures complete protection from mechanical damage. The wood insures stability against vibrations and a smooth ride for target groups looking for entry performance.

POWER SIDEWALL JACKET



A synthetic injected core supported with ABS sidewalls. This lightweight construction allows for a soft longitudinal flex coupled with a super responsive torsional flex, thanks to the sidewall Jacket.

POWER CARBON JACKET

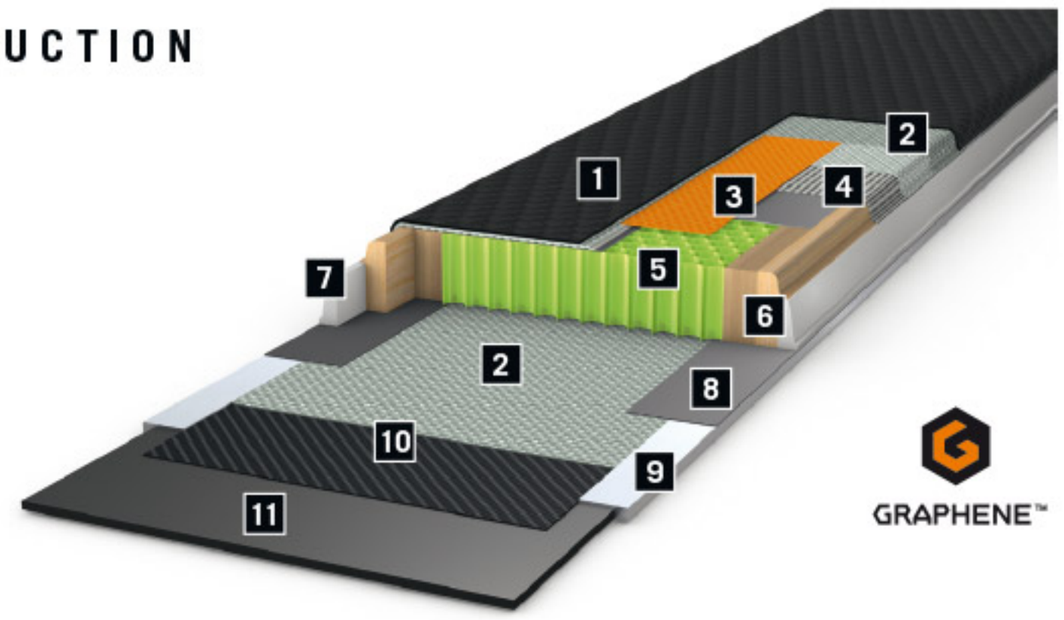


A synthetic core center wrapped by Carbon fibers. Delivers a performance ski that can be used by entry level skiers.

SKIS TECHNOLOGY | WOMAN SPECIFIC CORES

GKC SUPERLITE SANDWICH CAP CONSTRUCTION

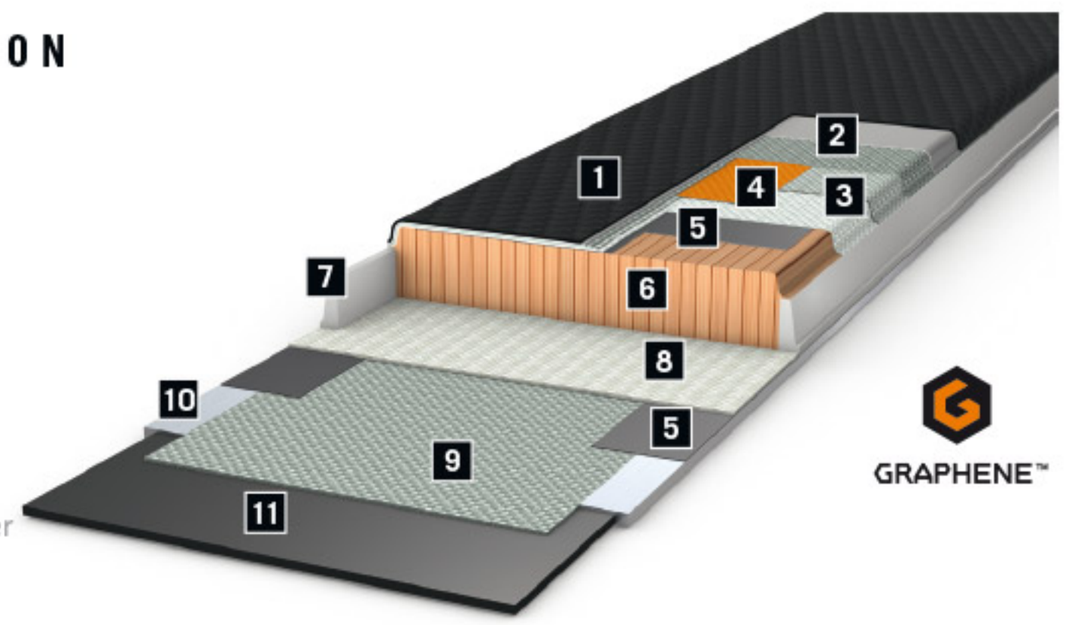
Developed with the most sophisticated material known to man, the Superlite sandwich construction uses GRAPHENE, KOROYD and CARBON to guarantee the lightest ski in the world without compromising on performance. The ultimate construction for a high performing women ski.



1 Top Sheet
2 Reinforced glass fiber
3 GRAPHENE ™
4 Carbon glass fiber
5 Koroyd
6 Wood core
7 Sidewall
8 Dampening Layer
9 Edge
10 Carbon
11 Base

SUPERLITE SANDWICH CAP CONSTRUCTION

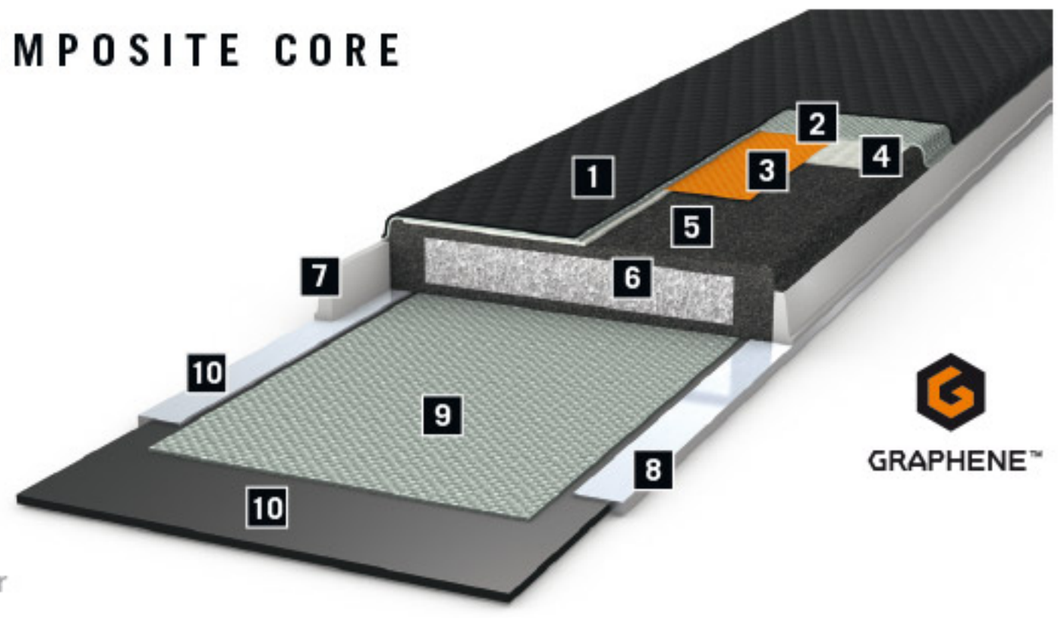
Thanks to the unique properties of GRAPHENE, the Superlite sandwich cap construction has had a reduction in the materials inserted with an increase in its responsiveness, allowing faster and more precise change form edge to edge. The ultimate ski for flotation and responsiveness.



1 Top Sheet
2 Glass fiber fleece
3 Glass fiber
4 GRAPHENE ™
5 Dampening Layer
6 Wood core
7 Sidewall
8 Diagonal glass fiber
9 Reinforced glass fiber
10 Edge
11 Base

SUPERLITE POWER SIDEWALL JACKET COMPOSITE CORE

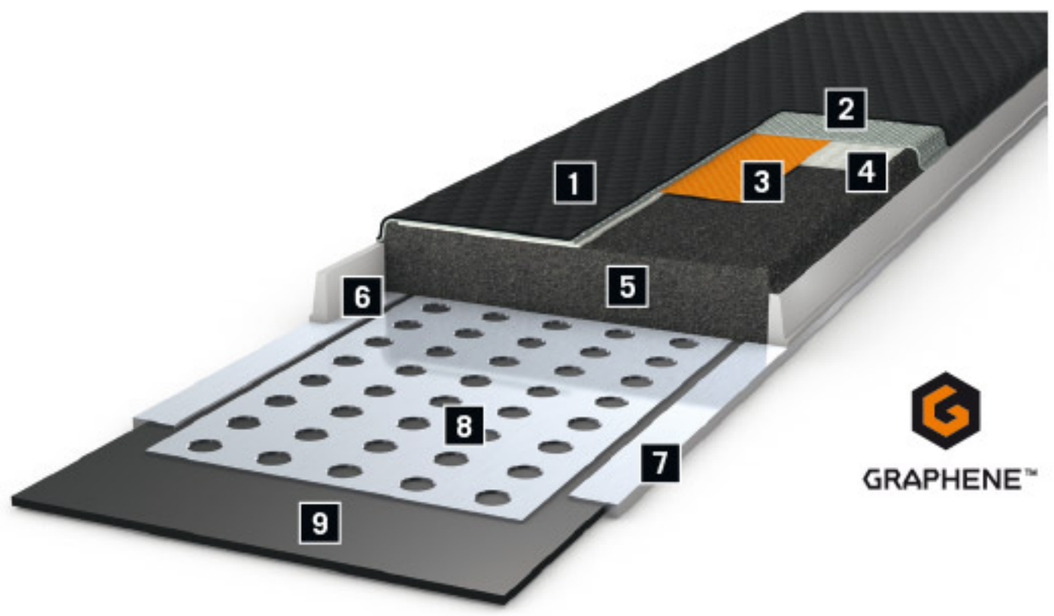
To make this construction even lighter, material from the heart has been replaced by a lighter material and a layer of GRAPHENE has been inserted to not only insure the performance is unchanged but actually increased, as the overall thickness of the core is reduced, making it a composite that is easy and forgiving, but always precise.



1 Top Sheet
2 Glass fiber
3 GRAPHENE ™
4 Diagonal glass fiber
5 Synthetic core
6 Lite core
7 Sidewall
8 Edge
9 Reinforced glass fiber
10 Base

SUPERLITE POWER SIDEWALL JACKET

A synthetic injected core supported with ABS sidewalls. This superlite construction thanks to Graphene allows for a soft longitudinal flex coupled with a super responsive torsional flex, thanks to the sidewall Jacket.



1 Top Sheet
2 Glass fiber
3 GRAPHENE ™
4 Diagonal glass fiber
5 Synthetic core
6 Sidewall
7 Edge
8 Perforated steel layer
9 Base