

A high-altitude mountain landscape featuring a prominent rocky ridge. The foreground and middle ground are dominated by jagged, grey and brown rock formations. In the background, a valley filled with dense evergreen forests stretches towards the horizon under a clear sky. A hiker in an orange jacket and blue pants is visible on the right side of the ridge, providing a sense of scale to the massive rock formations.

ALPINE INSTRUMENTS
High Altitude Gear

Focus on Sustainability



Materials are chosen with high reliability and preference is given to those with high recycled content. Designs are also patterned to be easily repaired, increasing the longevity of items and keeping them out of the landfill.



Insulated Water Bottle Parka

Surprisingly, the market does not have a contemporary and well designed water bottle parka. Inspired by NASA payload cargo insulators, this water bottle parka features a fully seam sealed laminated exterior to keep air inside maximising warmth - like a real thermos!

Currently being test by Pete Dronkers (petedronkers.com) in Montana and Wyoming ice escapades.

Features

- 205g/m² 3M Thinsulate insulation for maximum performance and rebound when compressed.
- Lightweight ripstop interior for smooth entry and exit of the bottle.
- UHMWPE woven exterior laminated to 0.25mm plastic backer.
- Sealed seams on exterior “shell” to prevent air transmission out of the shell reducing insulation effectiveness.
- Fits standard and narrow mouth Nalgene bottles.

Chalk Bag V2

Iterating on a previous version, this re-designed chalk bag focuses on ergonomics and new techniques to stiffen the hand opening.

In use by climbers locally.

Features:

- High density felt to reduce chalk permeation through fabric compared to traditional stretch fleece.
- Lightweight ripstop for cinch opening for smooth opening and closing.
- Metal riveted eyelet for durability with repeated cord opening.
- 4mm nylon tube with high resistance to strain - reinforces opening to increase rigidity of opening while remaining robust to resist crushing inside a pack. Nylon webbing for abrasion resistance.
- Retro inspired color blocking using 210D and 400D fabrics.





Big Wall Belay Seat

Hanging out on the side of a wall can get quite uncomfortable, but it doesn't have to be. This big wall belay seat is inspired by a sailers bosuns seat, but features some innovations that will be particularly useful for a rock climber.

In use by customers in Utah for "big wall" climbing objectives.

Features:

- Independent and equalizing load straps for securing of rock protection.
- Stable and rigid platform for sitting and standing, removable support for weight savings.
- First of the kind "Rope Stasher" featuring G-hooks and a strap to hold tag line ropes when not in use.
- User adjustable gear loops to rack gear when swapping lead climbers.



Factory Seconds Fleece

Created from factory seconds fleece yardage from Polartec, these fleeces keep material out of the landfill and into the hands of nature lovers. A first foray into outdoor apparel, the fit and features of the pattern was designed for casual and rock climbing use.

Limited run of 12 fleeces sold to customers locally

Features:

- Stretchy and low profile hood fits over a climbing helmet for warmth but cinches down for around town use.
- Raglan sleeve cut for unrestricted mobility when climbing or skiing.
- Harness compatible pockets for unrestricted access.





Crampon Pouch

Sharp things are scary, but a necessary item when climbing in the winter. A customer requested a lightweight pouch to hold their crampons for a trip up Shasta, so that they can safely store it in their pack while skiing down.

Created for a local ski-mountaineer based out of Truckee.

Features:

- 400D X PAC fabric all around with 2mm EVA foam reinforcement on top and bottom where crampon points contact.
- Riveted eyelet at bottom to allow water drainage.
- Compatible with most crampons on the market.

UHMWPE Dry Bags

Extremely durable and featherweight, these dry bags are useful whenever you want to carry something that shouldn't get wet. Featuring a fully seam sealed and a laminated plastic sheet construction, these bags have weathered the toughest conditions.

In use by several alpinists throughout the Rockies and Sierra Nevada.

Features:

- Rolltop enclosure stiffened with recycled milk bottles.
- .24 oz/yd² UHMWPE fabric bonded to polycrossheet.
- Seam sealed at all stitched areas to prevent water ingress.



22L Alpine Climbing Bag

Designed for the all season “Done in a day” objectives, this lightweight bag is the perfect alpine climbing partner.

Lightweight and simple, this bag has everything you need and nothing you don't for unrestricted climbing in the mountains

Tested on Mt. Conness West Ridge and Mt. Emerson Waterfall Route.

Features:

- 210D with UHWMPE gridstop reinforcement.
- Removable foam back panel support.
- Breathable shoulder straps with wicking fabric at body contact.
- Small front pocket to fit headlamp and keys.
- Lashing system with metal tool holders designed to carry ice tools and crampons - removable.
- Easy cinch cord open with single pull action.
- Under 1kg carry weight.



35L Alpine Climbing Bag PROTOTYPE

A sneak peak into the workings of the “magnum opus”, a 35L alpine climbing bag that can do it all - from ski mountaineering to mixed climbing. This bag was designed to carry all the snow tools (yes, even avalanche gear inside a pocket) for nothing short of the craziest objectives. An external crampon pouch carries sharps away from that expensive puffy inside, reinforced side straps carry skis A-Frame Style and universal tool carry secures ice axes reliably.

Features:

- Prototype made with Tyvek to reduce prototyping costs.
- Expandable spindrift collar adds an extra 5L of volume.
- Reinforced side ski holder straps.
- Opposing buckles allow compression strap to carry loads on the back.
- External crampon pouch features pleated construction that folds flat when not in use.
- Universal ice tool carry with metal toggles.
- Interior snow safety tool carry separates items from the main compartment.

