

HEAVY LOAD CARRIERS MANUAL 2021A



SNIGEL

HEAVY LOAD CARRIERS

FEATURES



KEY FEATURES

- * Designed to match the natural shape of your spine.
- * Herma buckle to make it easier to use any buckle anywhere.
- * Large, removable lid that can be adjusted in height and used as a separate backpack.
- * Large top of lid compartment with zip.
- * Front of lid compartment with zip.
- * Two ports in the top for antenna, cables or hydration access.
- * Padded shoulder pads with chest strap.
- * Large inverse U-shaped opening on the front.
- * Large inverse U-shaped opening in the bottom for the sleeping bag compartment.
- * Two large side pockets that are attached with zippers.
- * The hip belt is centre attached, making it free to move with your body

MATERIALS

- * 100% Nylon -PU coated
- * All fabrics, buckles and webbing's are IRR compliant.
- * Outside/main fabric is FR.

PARTS IN THE BACKPACK



One backpack



One waist belt



One lid



One plastic sheet frame with aluminium stays



One pair of zipped side pockets



- * Rigid head hole and cut out in the lid so you can bend your head back when wearing the backpack.
- * Long zipper for good access to the top compartment on the lid. The lid height can be adjusted, depending on how much you have in the main pack.
- * Handle.
- * Top tension straps to adjust how tight the backpack sits.
- * Opening for antennae, cables or a hydration tube.
- * Shoulder straps with plastic sheet and firm foam with holes for ventilation. This is the optimal solution with the plastic sheet distributing the pressure over the foam.
- * Holder for team radio microphone.
- * 10 mm webbing loops along the side where you can attach the duffel straps.
- * Chest strap.
- * Ventilated back cushion.
- * Six outside attachment points for a duffel strap on the side pockets.
- * Hip belt with plastic sheet and firm foam with holes for ventilation.
The hip belt is centre attached, making it free to move with your body
- * Side tension strap
- * Sledge attachment ring

The inside of the backpack has a light colour to make it easier to find what you are looking for inside the backpack.

THE BACKPACKS



29-01899
110L Backpack 1.0
Not a stock item



29-01409
120L Backpack -17



29-01161C
100L Backpack 2.0



29-02061
100L Backpack 1.0
Not a stock item



29-02065
Pack-board 2.0
Not a stock item

HEAVY LOAD CARRIERS

FEATURES



The hip belt moves with your body. The picture shows how it looks when you take a step with your left foot. This feature saves energy and lets your legs move freely.



The picture shows how it looks when you take a step with your right foot. This function saves energy.



One large opening on the front of the main compartment and one for the sleeping bag compartment makes it easy to access the backpack even when it is fully packed.



The hip belt is shaped to fit around your hips. It has a stiff outer layer to take the weight from the backpack and a soft inner layer to be comfortable to use.



The frame is strong and shaped to match the curve of your back.



The back is shaped after your back to sit comfortably and to make it easier to carry body armour.

The backpack is thin to keep the centre of gravity close to your body= Easier to carry.



The side pockets are attached with zippers and can be removed and carried together or individually as a backpack. The pockets can be opened in either side to always be easy to reach.



The backpack lid has two inside zipped compartments.



The lid has two outside compartments with zipped opening.

HEAVY LOAD CARRIERS

DETAILS



A head hole to make it possible and comfortable to lift your head when carrying the backpack.



A side opening for hydration tubes, radio antennas or radio cables. This opening has now been angled to keep water out.



A microphone can be attached on the shoulder webbing. Put the hook into the webbing and thread the elastic around the microphone.



On the zipped openings, a backup closure for a string is placed.



Front openings makes it easier and faster to reach what you have in the backpack.



On the top of the lid a helmet or a garment can be carried. It is easy to attach and to remove.



Attach additional backpacks on the back of the main pack.



The 10L multi purpose bag attached on the front of the backpack.



The backpack is even designed to hold an anti tank weapon on the outside.

HEAVY LOAD CARRIERS

DETAILS



Carry your mattress under the lid straps.



Remove the side pockets and lid and you get a smooth backpack.



The bottom compartment is easy to reach. Open the zipper and you have your sleeping gear.



Sit on your backpack when you take a break. You can easily reach the top of lid compartment when you rest like that.



The side pockets, where you can store the things need during your break are also easy to reach when you sit on your backpack.



The lid used as a backpack.



The lid used as a butt pack.



One side pocket used as a funny pack.



One side pockets used as a waist bag.

HOW TO....



Fill the back pack and put on the hip belt.

Fill the backpack with 10-15 kg. Put on the hip belt and make sure it fits. If it is too long, select the shorter hip belt.



Position the hip-belt.

- * Make sure the hip belt is placed so the top of it is aligned with the top of your hip bone.
- * 70-80% of the weight of the backpack shall be carried on the hip bone.



Adjust the height of the backpack.

- * Put on the backpack and make sure that the angle on the top tension straps are 5-45 degrees.
- * Make sure the shape of the backpack fits your back.

THE GOAL

The shoulder straps are evenly pressed against the body in their full length

The head is free and can be bent back

The top tension straps are angled down between 5 and 45 degrees.

The top tension straps and shoulder straps have the same tension on the left and right side

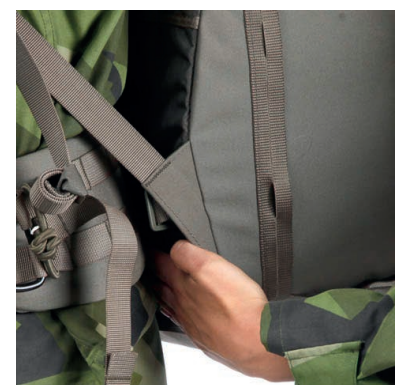
The backpack rests along the full length of the back

The top of the hip belt is aligned with the top of the hip bone. About 70% of the weight of the backpack should be carried on the hip belt.



Test it.

Jump up and down a few times and make sure that the backpack still is comfortable and sits correctly on your back



Verify where the hip belt shall be attached.

Let your buddy measure the distance between the bottom of the hip belt and the bottom of the backpack, so you know where to attach it. Remove it all.

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FITTING



Make sure the lower and upper straps for the hip belt are out.



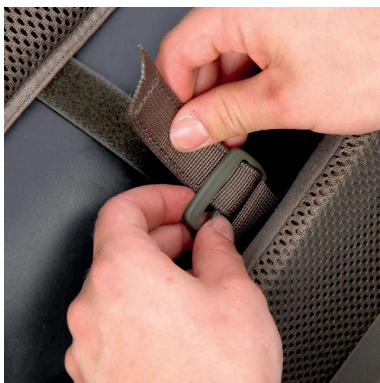
Pull the lower hip belt strap (40 mm with loop Velcro) through the lower, middle buckle on the hip belt.
Make sure you thread the webbing as indicated in the picture above.



The hip belt attached high, for a short back.



The hip belt attached low, for a long back.



Thread the upper hip belt strap through the upper, middle hip belt buckle.



Push the surplus webbing under the back cushion, make sure the hook and loop Velcro are connected on the strap.



Push the surplus webbing back through the buckle again and behind the hip belt.



If you use the Spoon, attach it like this.



Thread the hip belt side straps through the buckles on the backpack. Make sure the fold in the strap faces out, after it has been threaded into the buckle.

HEAVY LOAD CARRIERS

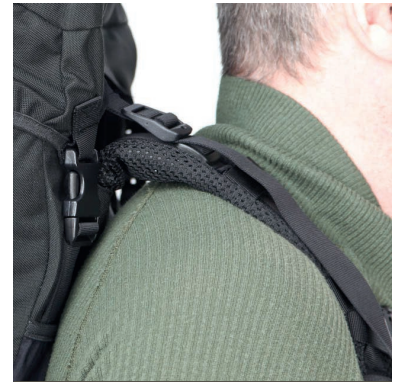
FITTING



Pull up the backpack and take it on. Close the hip belt and make sure the backpack sits well.



Make sure the top tension straps have correct tension and are placed with 5 to 45 degree angle down.



Do not put much tension on the top tension straps as the shoulders straps will be pulled up.



Close and tighten the chest strap. Make sure that the shoulder straps are in contact with the body in their full length.



The full length of the backpack should fit the shape of the back. Make sure the hip belt is placed so the top of it is aligned with the top of your hip bone. If not, adjust so the hip belt comes down on the pack.



Jump up and down a few times and make sure that the backpack still is comfortable and sits correctly on your back.



The top tension strap and shoulder straps have the same tension on the left and right sides. The ends of the straps are aligned on the left and right side.



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FINE TUNING



This is how the backpack should look when properly adjusted.
A= Around 45 degrees angle for the shoulder webbing's.
B= The curve of the backpack follows the curve of the back.



C= When the backpack is correctly adjusted the hip belt sits around the hips with the upper part of the hip belt in line with the upper part of the hip bone.



Remove the frame sheet and take out the two long aluminium stays.



The aluminium stays in the frame should match the shape of the back like in the picture.



To check the shape, do like this:
1. Put on the hip belt in the correct position, in height with the hip bone.



2. Put the aluminium stays on the back to check where the belt should be and if the shape matches the shape of your back.
Not a perfect match in the picture.



3. Adjust the shape of the aluminium stays so they match the shape of your back with the belt on. You can adjust the shape by bending the stay over your knee or on a work bench.
A perfect match in the picture.



4. When the shape matches, put the stays in the frame and the frame sheet inside the backpack. Fill the backpack with 15 kg and try it on.
Jump and see that it still fits comfortably.

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DONNING



Grab both shoulder straps and pull them up, bringing the backpack along.



Push your right arm through the right shoulder strap.



Swing the backpack right, onto your back.



Push your left arm through the left shoulder strap.



Close the hip belt front buckle.



Lean forward and pull your shoulders up so the hip belt comes up on the hips. Pull forward on the tension Strap-on the hip belt so the hip belt sits firmly around your hip, in the top aligned with the top of the hip bone.



Pull down the adjustment straps on the shoulder straps. Make sure not to pull to much, as most of the weight should be on the hip belt..



Pull the top tension strap if needed. Make sure not to pull to tight. If the shoulder straps bend, forming a gap on the shoulders, release the top tension straps so the gap is removed.



Fold the surplus adjustment straps and place them under the elastic keepers.



PARTS

B=13-00116
Modular combat belt-12

C=26-01254A
Double spoon garage 1.0

D= 26-01221
Long curved spoon 1.0

E=26-01870A
Adjustable spoon sleeve 1.0

F=84-00984
Squeeze side panel pouch set-17

G=90-130L backpack

WHAT IS THE SPOON SYSTEM?

- * Spoon is a system that allows you to use your regular combat belt as a support for the Squeeze ballistic vest, transferring the weight from your shoulders to your hips. At the same time you can get rid of the hip belt on the backpack and instead connect and transfer the weight from the backpack to the combat belt.
- * The combat belt fitted with the Spoon system transfers the bulk of the weight from the Squeeze system and backpack to the belt.
- * It is an easy to use system with a metal spoon in the middle back of the belt/vest/backpack that transfers the weight from the vest/backpack to the combat belt through the spoon garage that is attached on the belt.



The spoon system lets you use your combat belt as the backpack hip belt. When you release the backpack, the combat belt stays on you. A= Double spoon garage. B= Curved long spoon and adjustable spoon sleeve.



The double spoon garage on a combat belt. It attaches on the MOLLE webbing on the belt. It has a inner compartment for a long spoon to the ballistic vest.



The adjustable spoon sleeve and the long curved spoon goes into the outer/elastic compartment. It holds the long curved spoon when walking and releases it when you dump the backpack.



The curved long spoon, connects the adjustable spoon sleeve on the backpack with the double spoon garage on the belt.



The curve long spoon inserted into the adjustable spoon sleeve.



The adjustable spoon sleeve attached on the back of the backpack, in the 40 mm webbing with loop Velcro on from the front sheet.



Adjust the position of the adjustable spoon sleeve until the backpack sits as it should on your back.



Secure the adjustable spoon sleeve with the 25 mm webbing from the backpack as shown above.



Push in the long curved spoon until it clicks in position. Adjust the spoon sleeve so the majority of the pressure from the backpack lands on the belt.



THE END STATE

The top tension straps are angled down between 5 and 45 degrees.
The top of the hip belt is aligned with the top of the hip bone.
About 70% of the weight of the backpack should be carried on the hip belt.
The backpack rests along the full length of the back.
The shoulder straps are evenly pressed against the body in their full length.
The head is free and can be bent back.
The top tension straps and shoulder straps have the same tension on the left and right side.



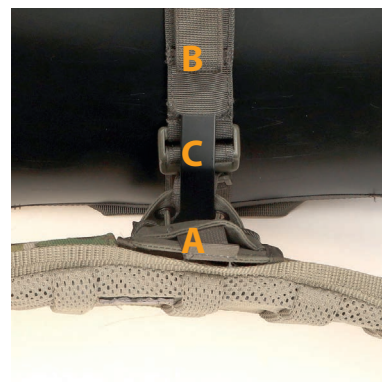
The belt can swivel, letting your legs move unrestricted by the belt and backpack.



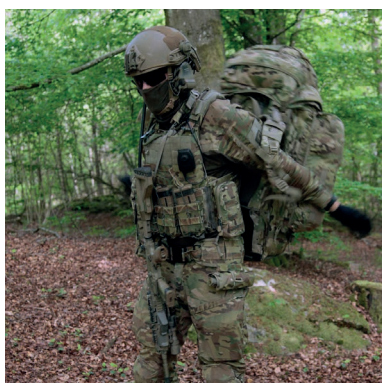
It can swivel in both directions.



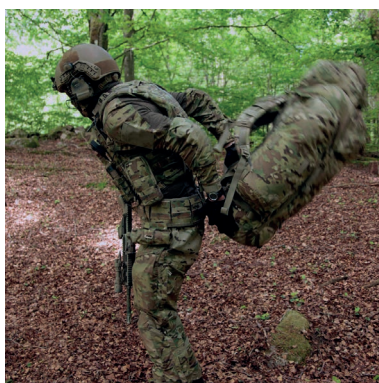
A= Double spoon garage
B= Adjustable spoon sleeve
C= Curved long spoon
D= 40 mm webbing from the backpack



The complete system connected.
A= Double spoon garage
B= Adjustable spoon sleeve
C= Curved long spoon



Open the chest strap.
Let the shoulder cushions slip off your arms.
The backpack starts to slide off you.



Release the backpack and it will fall off.



The backpack has dropped and the combat belt is still on the soldier.