



Spike

by SmartGroup



Spike's User Group

Disabilities

Spinal Cord Injuries (SCI)

Cerebral Palsy (CP)

Polio

Paraplegics disabilities

Multiple Sclerosis (MS)

Spina Bifida

Amputee

Other lower body

Complimentary Sports

Para-Rowing
Sit-Skiing

Sledge Hockey

Wheelchair Racing

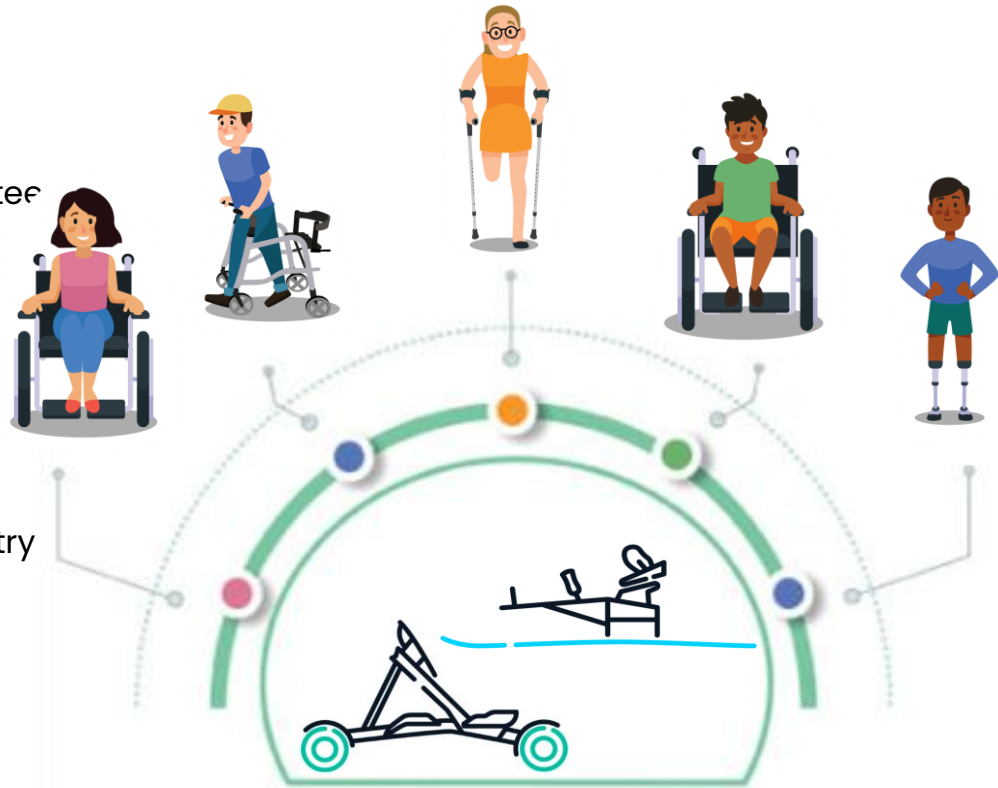
Wheelchair Rugby

Cross-Country

Hand Cycling

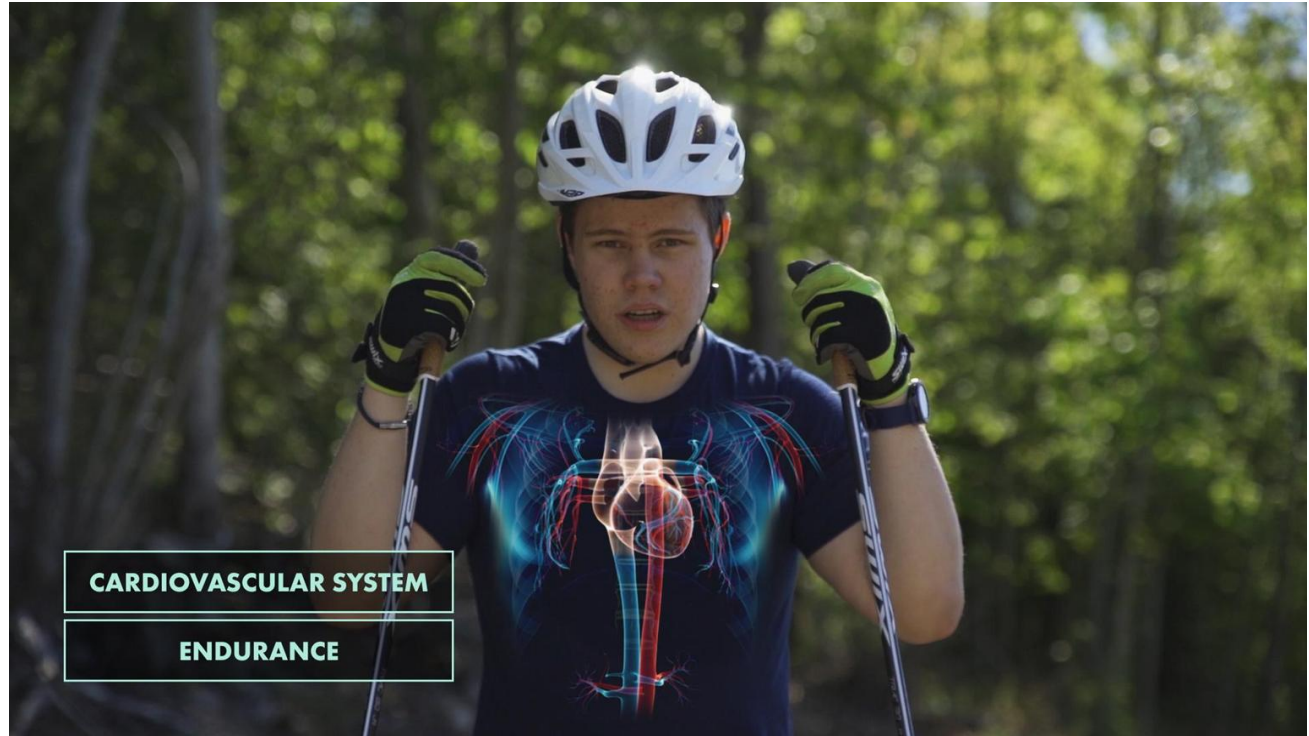
Wheelchair Basket

Other wheelchair sports



Spike's Physical Health Benefits

Spike improves your **cardiovascular system**, **endurance**, **core muscles**, **upper body** and **balance coordination**.



Spike's Mental Health Benefits

All Spikes, amongst other assistive devices is proven to give the user both physical and mental health benefits and improve **social participation, personal awareness, individuality** and **self confidence**.

Studies show that the appearance and the performance of the assistive devices affect "how the informants view themselves. The informants experienced assistive devices offered them **identity** as an active person, and they were considered **less handicapped** when using an adapted bicycle compared to an electric wheelchair.

- Liv Ilseng, Master of Science (MSc) in Physical Activity and Health NTNU: "Assistive devices and participation in physical activities."

Individuals with mobility impairments who use AAT (assistive activity technology) for leisure-time physical activities experience opportunities to participate in ordinary and valued activities that allow them to improve their **social positions**. Further, use of AAT provided the informants with opportunities to alter their daily routines, enjoy time on their own and enhance their **personal awareness**. Having opportunities to use AAT independently is experienced as a recognition of their **individuality**."

- Heidi Pedersen, S. Söderström & P. S. Kermit: "How assistive activity technology affects participation in everyday life"



What do the Spike's riders say?



SPIKE MAKES
ME **FEEL**
LIKE I CAN
RUN

FINALLY I SEE
THE BOY AND
NOT THE
ACTIVITY
AID

Robynne, USA



Mother of Casper,
Norway



"Spike Snow is the coolest nordic sit-ski I've ever tried and I've skied since the stone age. Finally a nordic sit-ski that allows you to use all your strength with your legs in front of you"

- **Kjetil Korbu Nilsen**
Prev. sledge hockey paralympic gold medalist

"Proud to have contributed to Spike Snow which I think will make para nordic skiing easier and more motivating for people"

- **Viljar Aasan**
Activity aid leader, Beitostølen Helsesportsenter

"I've tried many different sit-skis over the years, but you don't have to search anymore. Try Spike Snow you'll find that this is something for you"

- **Lars Andresen Jr.**
Para nordic skiing Paralympian and Norwegian champion



Spike used by clubs, organizations and healthcare centers

Perfect for activity centers

→ Do you run an organization that wants to promote inclusive activity for everyone, regardless of functional level?

Spike and Spike Snow are widely used by activity centers and institutions worldwide, thanks to their high adaptability and shared spare parts, enabling inclusive and engaging experiences.



Adaptive Sports Discovery

Education & Awareness



Enhanced Accessibility

Inclusive Event

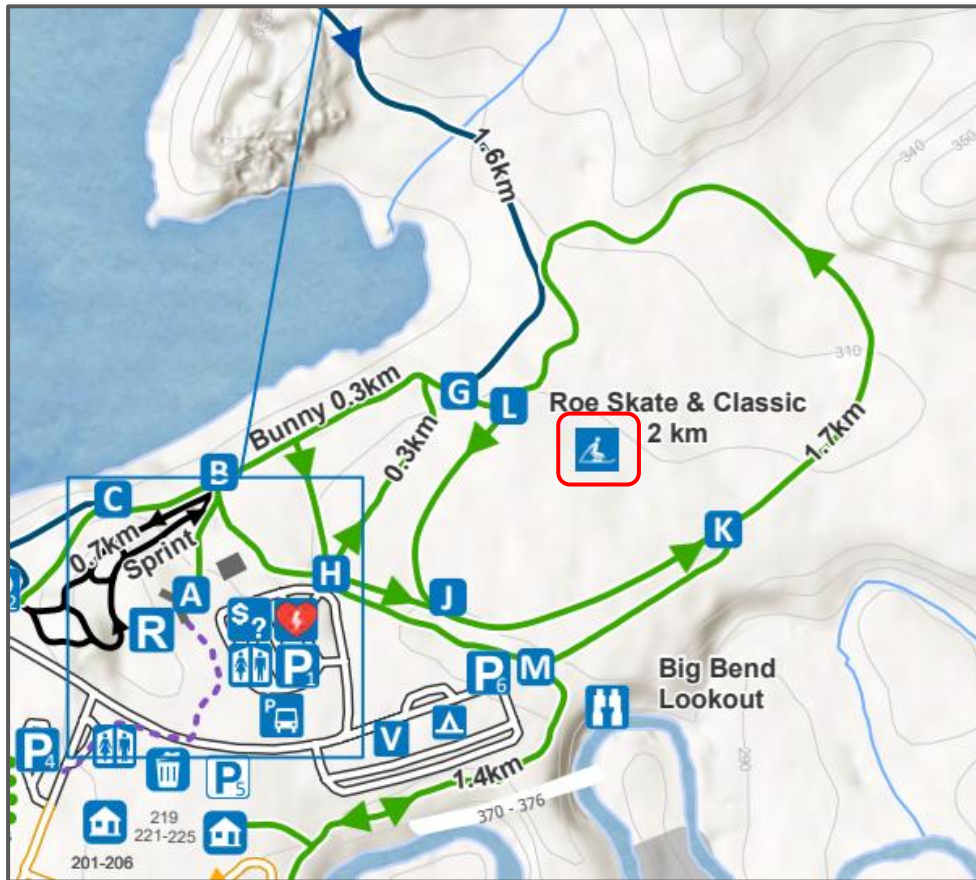
Development of Para-Sports


















New Partnerships & Innovation



Example - Arrowhead Provincial Park

Arrowhead Provincial Park is an example of an organization that has bought Spike's and offers that type of equipment to visitors who need adaptive equipment. They also work on making the park inclusive by having their own adaptive cross-country ski tracks.



-  Adaptive Cross-Country
-  AED
-  Big Bend Lookout
-  Bus Parking
-  Cabin
-  Camping
-  Parking
-  Parking - Cabins Only
-  Stubb's Falls
-  Trail Intersection
-  Rentals 
-  Vault Toilet
-  Visitor Centre/Park Store
-  Washroom
-  Waste
-  Building



Spike
snow SEATED

Discovery video



Spike
snow KNEELED



Spike
snow KIDS

Spike

SNOW SEATED

Product details

Product number : SP3000

Length: 108 cm | Weight: 5,1 kg | Max user weight: 110 kg

Winter & Comfort

Spike Snow is an adaptive winter sports equipment that lets you be **adventurous on the ski tracks**. The seated sitting position makes Spike Snow suitable for people with a higher degree of disability or who otherwise can't sit on their knees.

Spike Snow is equipped with a **foam cushion** in the seat for good comfort.



Video - [Easy installation of skis](#)

Attaching skis to your Spike Snow requires **no modifications of the skis** allowing you to take full advantage of the skis properties.

Detaching your skis from Spike Snow is quick and simple making for convenient transport and storage.

This allows you to convert all the power in the track to spike **faster, longer and steeper**.



Adjust to you

Spike Snow comes in **one size** and is adjustable to a range of different body shapes. Adjust the seat angle, height and width, and adjust the footrest to your leg length for an **optimal sitting position**.

Seat angle: -19° til 37°
32-41 cm
Leg length¹: 78-105 cm
30-40 cm

Seat width:
Seat height²:

¹ Leg length is measured from your hip to your bottom heel.
² Seat height is measured from the ground to the seat.



Spike

SNOW KNEELED

Product details

Product number : SP4000

Length: 60 cm | Weight: 7,7 kg | Max user weight: 110 kg

Winter & Comfort

Spike Snow is an adaptive winter sports equipment that lets you be **adventurous on the ski tracks**. The kneeled position of Spike Snow is perfect for individuals with limited mobility, allowing them to enjoy outdoor activities comfortably and independently.

Spike Snow is equipped with a **foam cushion** in the seat for good comfort.



Video - [Easy installation of skis](#)

Attaching skis to your Spike Snow requires **no modifications of the skis** allowing you to take full advantage of the skis properties.

Detaching your skis from Spike Snow is quick and simple making for convenient transport and storage.

This allows you to convert all the power in the track to spike **faster, longer** and **steeper**.

Adjust to you

Spike Snow comes in **one size** and is adjustable to a range of different body shapes. Adjust the seat angle, height and width for an **optimal sitting position**.

Seat height!: 33-40 cm

Seat width: 32-41 cm
31-55 cm

Seat angle: 30°-60°
32-57 cm

Thigh length:

Calf length:



Spike

SNOW KIDS

Product details

Product number : SP5000

Length: 86 cm | Weight: 4,8 kg | Max user weight: 110 kg

Winter & Comfort

Spike Snow Kids is an adaptive winter sports equipment that lets you be **adventurous on the ski tracks**. Spike Snow Kids is designed for children with limited mobility, providing them with a safe and enjoyable way to experience outdoor activities.

Spike Snow Kids is equipped with a **foam cushion** in the seat for good comfort.



Video - [Easy installation of skis](#) - assistance to the children

Attaching skis to your Spike Snow requires **no modifications of the skis** allowing you to take full advantage of the skis properties.

Support skis underneath the frame provide **stability** on the snow, and the equipment can be either **pushed** from behind using **the handle** or **pulled** like using the **sled pull**. This allows adults—whether parents, caregivers, or instructors—to easily assist the child.



Adjust to you

Spike Snow Kids comes in **one size** and is adjustable to a range of different body shapes. Adjust the seat angle, height and width, and adjust the footrest to your leg length for an **optimal sitting position**. It can also be modified to match an adult sitting position.

Seat angle: -19° til 37°
32-41 cm
Leg length: 52-105 cm
30-40 cm

Seat width:
Seat height²:



ACCESSORIES TO SPIKE SNOW



Vacuum cushion



Bodypoint belt



Back support complete

Name	Description	Article Number	Price EUR
Back Support Complete	One-size	SP011502	499,-
Bodypoint Belt Small	Length 142 cm, Width 75mm	SP011516	190,-
Bodypoint Belt Large	Length 142 cm, Width 11 cm	SP011517	200,-
Bodypoint Belt XLarge	Length 142 cm, Width 15 cm	SP011518	210,-
Vacuum Cushion	One-size	SP011001	299,-

ACCESSORIES TO SPIKE SNOW



Fischer SCS/RDC
skates IFP



Swix Triac 4.0 Poles



Isvidda Nordic Skates



Name	Description	Article Number	Price EUR
Fischer SCS Skate IFP	Selected to your weight	SP030603	299,-
Fischer RCS Skate IFP	Selected to your weight	SP030602	449,-
Isvidda Nordic Skates	55cm, with Fischer bindings	SP030511	299,-
Swix Triac 4.0 Poles	Sizes from 100 cm - 140 cm, 5 cm interval	SP011404	99,-

ACCESSORIES TO SPIKE SNOW



Abduction Block



Name	Description	Article Number	Price EUR
Abduction block, 100 mm (large)	Standard thickness & shape	EP110001	49,-
Abduction block, 80 mm (medium)	Standard thickness & shape	EP110002	49,-
Abduction block, 60 mm (small)	Standard thickness & shape	EP110003	49,-
Abduction block, standard shape, individual size	Standard shape, custom thickness	EP110004	Price: To be determined upon final design
Abduction block, custom-made (optional thickness and shape)	Custom thickness & shape	EP110005	Price: To be determined upon final design

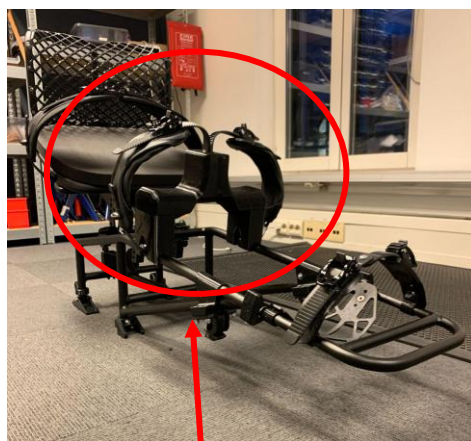
ACCESSORIES TO SPIKE SNOW



Brake Snow seated



Brake Snow kneeled



Thigh support

Name	Description	Article Number	Price EUR
Brake Snow Seated	Only for Nordic skiing	SP030501	299,-
Brake Snow Kneeled	Only for Nordic skiing	SP040501	299,-
Thigh Support	Three different heights	SP030709	99,-

ACCESSORIES TO SPIKE SNOW



Sled pull



Sled pull

Support skis

Pole target



Pole target

[Tutorial video - How to assist a person](#)

Name	Description (Photos)	Article Number	Price EUR
Sled Pull - Fjellpulken	Complete system with harness	SP030510	399,-
Pole Target Snow Seated	To be assisted uphill	SP030710	19,-
Pole Target Snow Kneeled	To be assisted uphill	SP040710	19,-
Support Handle	Coming winter 2025/26	SP030517	TBA
Support Skies	To avoid tipping over	SP030518	199,-



Spike
KNEELED

[Discovery video](#)



Spike
SEATED

Spike

KNEELED

Product details

Product number : SPI000

Length: 116 cm | Weight: 14,3 kg | Max user weight: 110 kg

All terrain & Comfort

Spike is a new adaptive sports equipment that lets you be adventurous on various terrain, transitioning smoothly from **city roads** to **forest trails**.

Spike is equipped with a **foam cushion** in the seat for good comfort.



Steering System

Steer by moving your upper torso to each side while generating forward propulsion with poles. Spike is equipped with two separate **hydraulic brakes** and parking brakes.



Adjusts to your needs

Spike comes in **one size** that is adjustable to a variety of body lengths. Adjustments can also compensate for any asymmetrical weight distribution or body shapes (i.e. amputees).

Seat width: 32-41 cm
length: 31-55 cm
Seat angle: 30°-60°
 32-57 cm

Thigh

Calf length:



Spike

SEATED

Product details

Product number : SP2000

Length: 130 cm | Weight: 14 kg | Max user weight: 110 kg

All terrain & Comfort

Spike is a new adaptive sports equipment that lets you be adventurous on various terrain, transitioning smoothly from **city roads** to **forest trails**. The seated sitting position makes Spike suitable for people with a higher degree of disability or who otherwise can't sit on their knees.

Spike is equipped with a **foam cushion** in the seat for good comfort.



Steering System

Steer by moving your upper torso to each side while generating forward propulsion with poles. Spike is equipped with two separate **hydraulic brakes** and parking brakes.



Adjusts to your needs

Spike comes in **one size** that is adjustable to a variety of body lengths. Adjustments can also compensate for any asymmetrical weight distribution or body shapes (i.e. amputees).

Seat width: 32-41 cm
Seat angle: -5° til 37°

Thigh length: 31-55
Calf length: 32-57 cm



ACCESSORIES TO SPIKE



Back support complete



Bodypoint Belt



Vacuum cushion

Name	Description	Article Number	Price EUR
Back Support Complete	One size	SP011502	499,-
Bodypoint Belt Small	Length 142 cm, Width 75mm	SP011516	190,-
Bodypoint Belt Large	Length 142 cm, Width 11cm	SP011517	200,-
Bodypoint Belt XLarge	Length 142 cm, Width 15cm	SP011518	210,-
Vacuum Cushion	One size	SP011001	299,-

ACCESSORIES TO SPIKE



Abduction Block

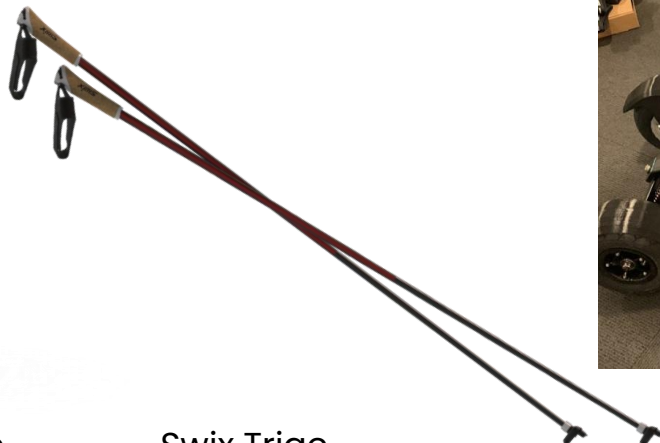


Name	Description	Article Number	Price EUR
Abduction block, 100 mm (large)	Standard thickness & shape	EP110001	49,-
Abduction block, 80 mm (medium)	Standard thickness & shape	EP110002	49,-
Abduction block, 60 mm (small)	Standard thickness & shape	EP110003	49,-
Abduction block, standard shape, individual size	Standard shape, custom thickness	EP110004	Price: To be determined upon final design
Abduction block, custom-made (optional thickness and shape)	Custom thickness & shape	EP110005	Price: To be determined upon final design

ACCESSORIES TO SPIKE



Support handle



Swix Triac



Tight support



Name	Description	Article Number	Price EUR
Support Handle (Only Spike Kneeled)	Support point for getting in and out	SP011501	229,-
Thigh Support (Only Spike Seated)		SP020603	199,-
Swix Triac 4.0 Poles	Sizes from 100 cm - 140 cm, 5 cm interval	SP011404	99,-

CONTACT

Feel free to contact us!

You know the customer, we know the product – together we will find the best solution.

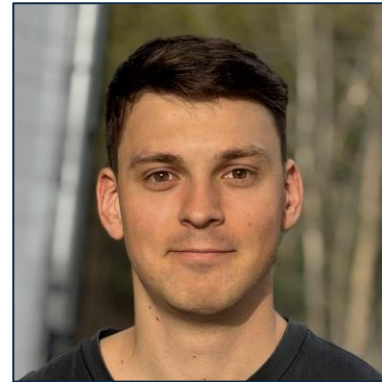
Send your request to post@smartgroup.no



BENDIK FON
CEO
0047 954 06 703



ANDERS SKAARUD
CTO
0047 971 29 676



CLÉMENT BASSO-BERT
Product developer

Adress
Fornebuveien 46, 3rd floor
1366 LYSAKER
NORWAY