

ZANDSTRA

WINTER 2022 / 2023



Comfort in skating

1122

Zandstra Thermo



Boot model 1122 is a heat-mouldable boot perfect for competition. The low weight, the neoprene, gel lining and the soft padding at the achilles tendon ensure optimal comfort during long and short distances.

It closes with a combination of a lace and micro buckle power strap. The mounting distance between the 2 holes is 6.5" (165 mm).
Sizes: 36 - 48

1166

Zandstra Long Track II



The boot (LTII) is constructed using a comfortable last that ensures a perfect ergonomic fit of the foot. The excellent fit in combination with the leather lining around the ankles provides optimal wearing comfort for long-distance skating. The anatomic insole contributes significantly to the vertical stability of the foot. The Thinsulate 3M material ensures that the shoe is well insulated and also has excellent breathability.

Thanks to its specially designed sole the boot can also be mounted directly on an In-line frame (bolted on). Mountings with traditional rivets are also possible.
Sizes: 36 - 51

550

Zandstra Long Track III



This Long Track III boot is the low version of the popular Semi Soft boot. The boot has a comfortable and warm lining. It provides great freedom of movement for the ankle, making it easier to use the correct skating technique. The boot closes with a combination of a lace and power strap with micro buckle, which enables accurate adjustment.

The sole can be used for both mounting systems: bolt-on or riveted.
Sizes: 34 - 47

592

Zandstra Semi Soft



Most popular boot for motivated recreational skaters.

The Zandstra Semi Soft boot produced in Italy is a comfortable, warm lightweight boot. Fatigue and blisters are a thing of the past and optimal ankle support is guaranteed. A combination of these specifications ensures optimal comfort for the recreational skater. The boot closes with a combination of a lace, velcro and a buckle.

The sole can be used for both mounting systems: bolt-on or riveted.
Sizes: 31 - 50

581

Zandstra Moulded



The Zandstra moulded boot is made in Europe. It has an optimal ankle support. Besides Ice-skating this boot is also used for Tug of War. The boot closes with a combination of lace and buckle.

Sizes: 29 - 47

Semi Soft

Zandstra Liner



A comfortable high liner which is standard in the Semi soft shoe (0592). This liner is made up of different foam layers that automatically place your foot in a natural relaxed position, which in turn ensures comfort. The soft tongue ensures an easy entry.

Sizes: 31 - 50

Long Track III

Zandstra Liner



A comfortable low liner which is standard in the long track III shoe (0550). This liner is made up of different foam layers that automatically place your foot in a natural relaxed position, which in turn ensures comfort. The soft tongue ensures an easy entry.

Sizes: 34 - 47

Ving Thermo

Zandstra Liner



A newly developed inner shoe suitable for the popular high Semi soft shoe (0592). If your current inner shoe needs to be replaced, this inner shoe is the right choice.

Even more comfort through the use of high-quality materials such as the special synthetic outsole, memory foam for even more ankle support and, last but not least, the preformed orthopedic insole. By using 3M Thinsulate in the lining, your feet stay nice and warm.

Sizes: 37 - 47



Zandstra Nordic

Specifications

Zandstra Nordic

Some of the main aspects of the Zandstra Nordic are:

- Combination with the new semi soft/long track III boot
- This skate give a lot of stability, comfort and skating pleasure
- The position of all bindings can be adjusted according to personal preference so that the right balance can be found
- The tip of the blade curves up, allowing you to skate safely across bumps, cracks and even snow covered ice
- The extremely strong binding is normally used for roller skiing
- It is a wide and stable binding, ensuring you feel safe during skating
- In cooperation with Rottefella the extra hard flex is designed
- This extra hard flex ensures optimum power transmission
- Suitable for both artificial and natural ice

Technical specifications

Steel	Nordic
Frame	Toolsteel
Quality aluminium	Epoxy blue
Thickness of runner	7000 quality
Hardness of runner	1.25 mm
Total height of runner	60Rc (Toolsteel)
Radius	27 mm
	27 meters

4560

Zandstra Nordic

- Restyled version of the Long Track III boot
- Sizes: 37 - 47



4562

Zandstra Nordic

- Restyled version of the Semi Soft boot
- Sizes: 37 - 47



Nordic

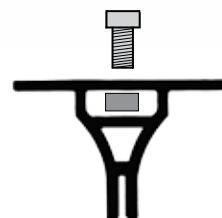
Zandstra Nordic



Nordic ice blade for cross-country touring on frozen lakes, canals and even indoor rinks. The Nordic is made out of a strong triangular aluminium profile. The blade's patented attachment uses slots instead of holes, so that any binding fits on this ski blade. The position of all bindings can be adjusted according to personal preference so that the right balance can be found. Mounting hardware kit is included.

The tip of the blade curves up, allowing you to skate safely across bumps, cracks, and even snow-covered ice. The runner is made out of stainless tool steel with a hardness of 60Rc, a thickness of 1.25 mm and a radius of 27 metres.

The Nordic is available in sizes: 40, 43, 45 en 48 cm



Cross section Nordic

NIS

Zandstra Nordic



This redesigned platform of the Delta skate now lets you mount any NIS binding - Xcelerator, Exercise, or Performance models - quickly and easily at home without any tools. Plus you still get the legendary quality tool steel that stays sharp for a long time. Mounting hardware kit is not included.

If you do not want NIS slide-on bindings, purchase the Zandstra Hardware Kit and attach any binding you like, NNN, SNS, or even a Rottefella NNN-BC Manual Back Country. The position of all bindings can be adjusted according to personal preference, so that the right balance can be found.

The NIS is available in sizes: 40, 43, 45 and 48 cm.



Cross section NIS

Tango

Zandstra Nordic



The Tango is made out of a reinforced aluminium T-profile and is suitable for the brands Rotefella and Salomon Cross and Back Country bindings. The reinforced angles ensure that it is a light but very strong skate, which makes it very pleasant to use. The tip of the blade curves up, allowing you to skate safely across bumps, cracks and even snow-covered ice. Mounting hardware kit is included.

The runner is made out of stainless tool steel with a hardness of 60Rc, a thickness of 1.25 mm and a radius of 35 metres.

The Tango is available in sizes 40, 43, 45 and 48 cm.



Cross section Tango

Competition

Zandstra Nordic



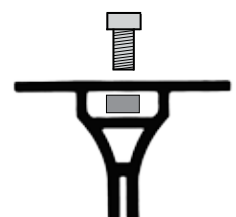
The perfect skate for on the oval. The platform of the Competition skate is the same as that of the Nordic. Mounting hardware kit is included. Radius is 23 metres.

The only differences are:

- a blunt front runner
- shorter blade length
- super sharp bimetal steel for perfect traction.

These adaptations make this type of blade more suitable for the 400-metre oval.

The Competition is available in sizes 40, 42, 44 and 46 cm.



Cross section Competition



Binding Zandstra Nordic

Zandstra Nordic



These are extremely strong bindings, normally used for roller skiing. They are wide and stable, ensuring you feel safe when you go skating on the ice. The binding is easy to mount on all types of Nordic skates with the screws provided. The binding is lightweight and ensures optimum power transmission, which enhances pleasure. The hard flex "especially made for Zandstra" is designed for use on Nordic Ice Skates.

The extra hard flex is also available separately.

Binding NIS Performance

Zandstra Nordic



The Rottfella NIS Performance is a binding that is easily repositioned forwards and backwards on the ice-skate with the NIS key (included). The binding has an extra hard flex which is special made for ice skating.

The extra hard flex is also available separately.

Combi SE

Zandstra Nordic



The Combi SE is the most widely used ice skate in Scandinavia!

Boot

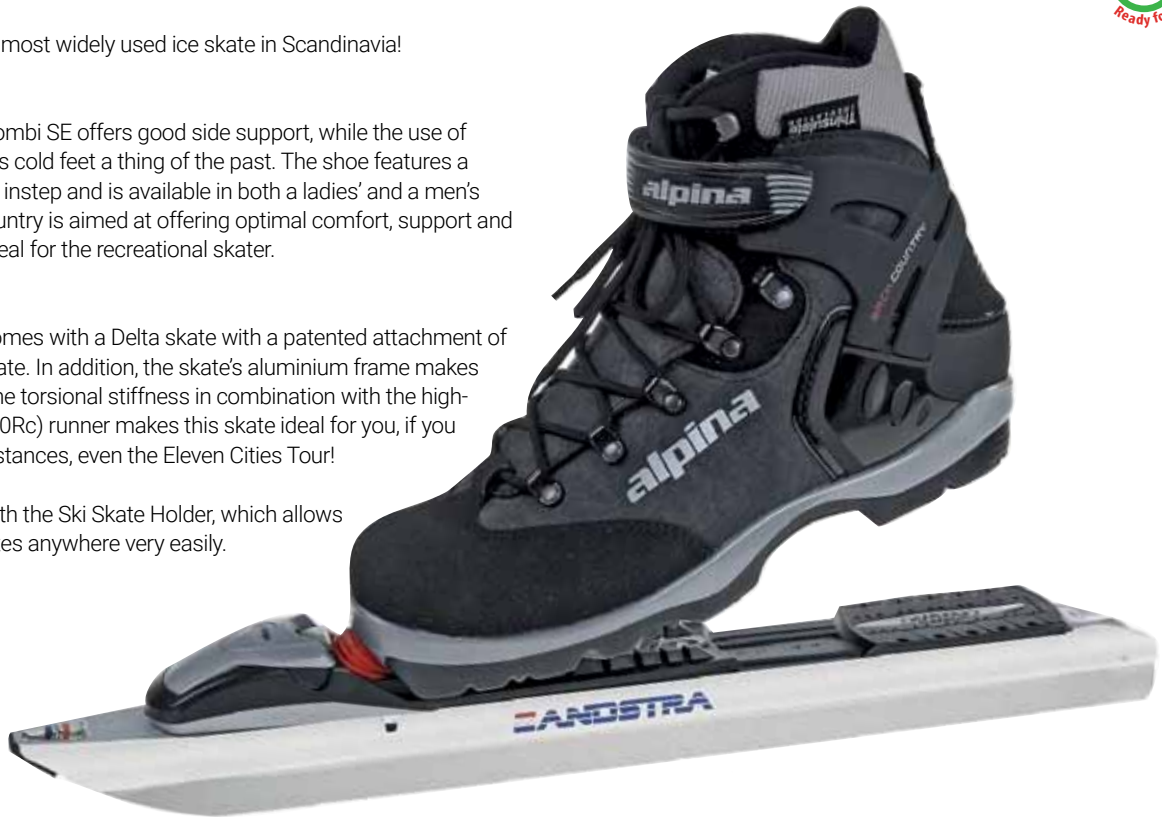
The Back Country Combi SE offers good side support, while the use of 3M Thinsulate makes cold feet a thing of the past. The shoe features a Velcro strap over the instep and is available in both a ladies' and a men's model. The Back Country is aimed at offering optimal comfort, support and warmth, making it ideal for the recreational skater.

Skate

The Back Country comes with a Delta skate with a patented attachment of the binding to the skate. In addition, the skate's aluminium frame makes it very lightweight. The torsional stiffness in combination with the high-quality R.V.S. steel (60Rc) runner makes this skate ideal for you, if you plan to skate long distances, even the Eleven Cities Tour!

This skate comes with the Ski Skate Holder, which allows you to take your skates anywhere very easily.

Sizes: 36 - 49



Combi SKS

Zandstra Nordic



Boot

This Cross Country boot has a cuff which provides both side support to the ankle and freedom of movement. The boot closes with a lace which is covered over the instep, protecting your feet from cold and humidity. Together with the use of 3M Thinsulate, this ensures that cold feet are a thing of the past.

Skate

The complete set is delivered with a Delta skate. The torsional stiffness of the blade in combination with the high-quality stainless tool steel (60Rc) runner makes this skate ideal if you plan to make long-distance trips, even the Eleven Cities Tour!

This skate comes with a Ski Skate Holder, which allows you to take your skates anywhere very easily!

Sizes: 36 - 48



Ice Spike Red

Nordic Accessories



Experience in Scandinavia has shown that ice spikes are an excellent tool to get yourself out of an opening in the ice. These ice spikes are easy to carry and have stainless-steel spikes. The handles are made of a strong nylon.

Ice Spike Isdubb

Nordic Accessories



In Sweden ice spikes are mandatory for skating on natural ice! Experience in Scandinavia has shown that ice spikes are an excellent tool to get out of an ice hole on your own. They consist of foam handles, a wide collar and a whistle. The ISDUBB is available in two sizes: medium for large hands and small for small hands.

Ski Skate Holder

Nordic Accessories

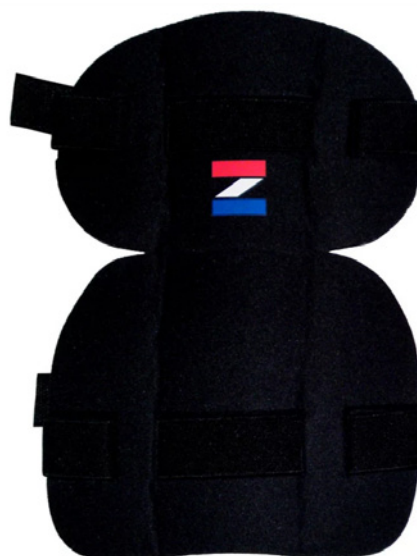


This compact skate holder ensures that you can safely and easily carry the long blades with you to and from the ice. The holder comes with a velcro strap, which ensures optimal ease of use.

The Ski Skate Holder is available in the color green.

Knaskydd (Knee Pads)

Nordic Accessories



Comfortable simpler knee pads with Velcro straps for skating. Convenient, easier protection for the knees. For all activities on ice.

Raddingslina (Safety Line)

Nordic Accessories



25 meters floating line. Bag that slides easily on ice and snow.
Clear instruction picture on the bag.
Foam handle with very good grip even with wet gloves.

Weight: 750 grams.

Dubbelpick (Skate Pole)

Nordic Accessories



These dual lightweight aluminium ice poles with hardened steel points provide extra support during skating or walking on the ice. It can also be used as an additional tool in detecting thin ice.

Features long handles made of soft insulating foam that ensures a good grip.

Available in the following lengths: 135, 145, 155 and 165 cm.

Ryggsack (Back Pack)

Nordic Accessories



A well-equipped backpack that contains everything that you need for a day of Nordic skating.

The digestible straps make the backpack comfortable and safe to carry. The lock of the top prevents leaking of water, but the backpack is not waterproof. The backpack is equipped with side pockets and a fastener for a lifeline.

The capacity is about 25 liters.

7125

Ving Upp



Ice skating on Nordic blades is becoming increasingly popular. Just like traditional speed blades these long blades need maintenance such as sharpening and polishing. Zandstra Sport has developed a special sharpening jig for Nordic skates, called "VING UPP". See page 36 for more information.



Zandstra Speed Racer

Specifications

Zandstra Speed Racer

- Available in two different iron hardnesses
- The Bi-metal model is 5 mm higher than the Toolsteel
- Standard bridge suitable for shoes with Long Track stitch
- Bracket with pitch 165 and 195 mm available on request
- Backlash-free pivot point
- Reliable and maintenance-free clap mechanism
- Bridge from 1 piece of aluminum milled. As a result, great lateral stiffness
- Sound-damping heel
- Stainless spring is available separately on request
- The proven Zandstra tube in combination with bridge provide many hours of skating fun

Technical specifications

	RVS Toolsteel	Bi Metal
Tube	Epoxy black gloss	Epoxy black gloss
Bracket	Anodized Blue	Anodized Blue
Quality Aluminum	7000 Alloy	7000 Alloy
Thickness sliding steel	1.25 mm	1.05 mm
Steel hardness	60Rc (stainless tool steel)	64 Rc (high speed steel)
Total height steel	22 mm	27 mm (Sprint)
Rounding ex factory	25 meters	23 meters

Size chart (advised)

Size Bridge	Length Tube (mm)
36 - 37	375
38 - 39	395
40 - 41	415
42 - 43	435
44 - 45	455
46 +	455

9000

Zandstra Speed Race Bi-Metaal

- New model clapskate
- Sizes: 36 - 46 (zie page 12)



9100

Zandstra Speed Toolsteel

- New model clapskate
- Sizes: 36 - 46 (zie page 12)





Ballangrud®

Patent Ballangrud clap: 1014140, 1015248, 1013912

BALLANGRUD

Specifications

Zandstra Ballangrud

Some of the main aspects of the Ballangrud Clapskate are:

- The aluminium frame of the Ballangrud can easily be fixed by means of the so called "locking pin". One has then a traditional semi high cup speed skate

In other words freedom of choice: Fixed or clap.

- Almost any boot used in ice skating or inline skating can be mounted on the aluminium frame of the Ballangrud
- The Ballangrud has very few parts. Because of this the skate is very dependable. The maximum angle between tube and boot is 30 °. Extensive tests have shown that a larger angle is not necessary. Limiting the angle also makes skating safer
- The specially developed stainless steel springs consists of 3 parts. These parts function independent from each other. There is no torsion and less chance of breakage
- With the Ballangrud it is possible to adjust the boot to the inside or the outside
- A special moulded "low noise" heel cone
- The Ballangrud is 1,5 - 2 cms lower then most of the competition clapskates. Because of this skating is more relaxing.

Technical specifications

	Toolsteel	Bi Metal
Tube	Powder painted black	Metallic
Quality aluminium	7000 quality	7000 quality
Thickness of runner	1.25 mms	1.05 mms
Hardness of runner	60Rc (Toolsteel)	64 Rc
Total height of runner	22 mms	27 mms (Sprint)
Radius (ex works)	25 meters	23 meters

Size chart (advised)

Length Tube	Boot
37 cms (only toolsteel)	34, 35, 36
39 cms	37, 38, 39, 40
41 cms	41, 42
43 cms	43, 44
45 cms	45 and up

9822

Ballangrud clapskate



Combination of boot 1122 thermoplastic with 9800 Ballangrud clapskate Toolsteel

Also available with Bi-Metal runner Art. **9922**

Sizes: 36 - 48

9866

Ballangrud clapskate



Combination of boot 1166 Long Track II with 9800 Ballangrud clapskate Toolsteel

Also available with Bi-Metal runner Art. **9966**

Sizes: 36 - 48

9850

Ballangrud clapskate



Combination of boot 550 Long Track III with 9800 Ballangrud clapskate Toolsteel

Also available with Bi-Metal runner Art. **9950**

Sizes: 34 - 47

9877

Ballangrud clapskate



Combination of boot 1177 Race H.H. with 9800 Ballangrud clapskate Toolsteel

Also available with Bi-Metal runner Art. **9977**

Sizes: 36 - 44



Patent Ving clap: 1014140,1015248,1013912

Ving® Clap



Specifications

Ving clapskate

- The Ving clapskate is 1.5 to 2 cms. lower than the competition clapskate. Because of this the Ving clapskate is excellent for natural ice as well as artificial ice. Especially by long distance skating a semi high cup blade is a very comfortable and less fatigue. Another aspect is that contrary to other clapskates, the hinging point is not on the tube, but through the tube. This results in a slightly lower skate than the traditional high cup blades
- The Ving has a limited number of parts. Because of this the skate is very dependable. The hinging occurs by means of a pressed spring (instead of a pulled spring). Extensive testing has proven that the chance of breaking is almost zero. The maximum angle between tube/shoe is 30°. Also here, extensive testing has shown that a larger angle is not necessary. Limiting the angle also makes skating safer
- In order to make long distance skating more enjoyable the weight of the Ving clapskate has been limited. The Ving clapskate is the lightest clapskate available. The frame is made out of technical nylon 6.6 known as Zytel®. This polyamide will stand up to low temperatures
- It has been proven that the ving clapskate is more relaxing than the traditional fixed blades. Also muscular pain is a thing of the past
- The skate has a price level that is acceptable to a large number of recreational skaters

Technical specifications

Ving Clapskate	
Tube	Powder painted black
Quality aluminium	7000 quality
Thickness of runner	1.25 mms
Hardness of runner	60Rc Toolsteel
Total height of runner	22 mms
Radius (ex works)	25 meters

3592

Ving clapskate



Combination of comfort boot 592 Semi Soft with Ving Clap

This is the most popular set for motivated recreational skaters.

Sizes: 34 - 47

3166

Ving clapskate



Combination of boot 1166 Long Track II with Ving Clap

Sizes: 36 - 47

3550

Ving clapskate



Combination of boot 550 Long Track III with Ving Clap

Sizes: 34 - 47

3109

Ving clapskate



Combination of boot 1109 Cowhide with Ving Clap

Sizes: 38 - 47

Ving® Touring/Fast



Specifications

Ving Touring/Fast

In developing this new long distance skate we concentrated on the following aspects:

Comfort
Reliability
Affordable pricing

Most important aspects of the Ving Fast and Ving Touring are:

- By using spacers and sides the tube is directly mounted to the sole of the boot
- The skate exists of only 3 parts. Boot, Tube and Spacers
- The traditional steel speedskate has been replaced by an aluminum tube.
- This tube is rigid and light weight.

Patent Ving Touring/Fast: 2004430



Technical specifications Ving Touring (1592)

Finish	Natural anodised
Quality aluminium	7000 quality
Thickness of runner	1.25 mms
Hardness of runner	55+ RC High Carbon Steel
Total height of runner	22 mms
Radius (ex works)	27 meters

Technical specifications Ving Fast (1250/1292)

Tube	Powder paint black
Quality aluminium	7000 quality
Thickness of runner	1.25 mms
Hardness of runner	60Rc Toolsteel
Total height of runner	22 mms
Radius (ex works)	25 meters

1592

Zandstra Touring

Combination of boot 592 Semi Soft with Ving Touring

Sizes: 37 - 47



1292

Zandstra Fast

Combination of boot 592 Semi Soft with Ving Fast

Sizes: 37 - 47



1250

Zandstra Fast

Combination of boot 550 Long Track III with Ving Fast

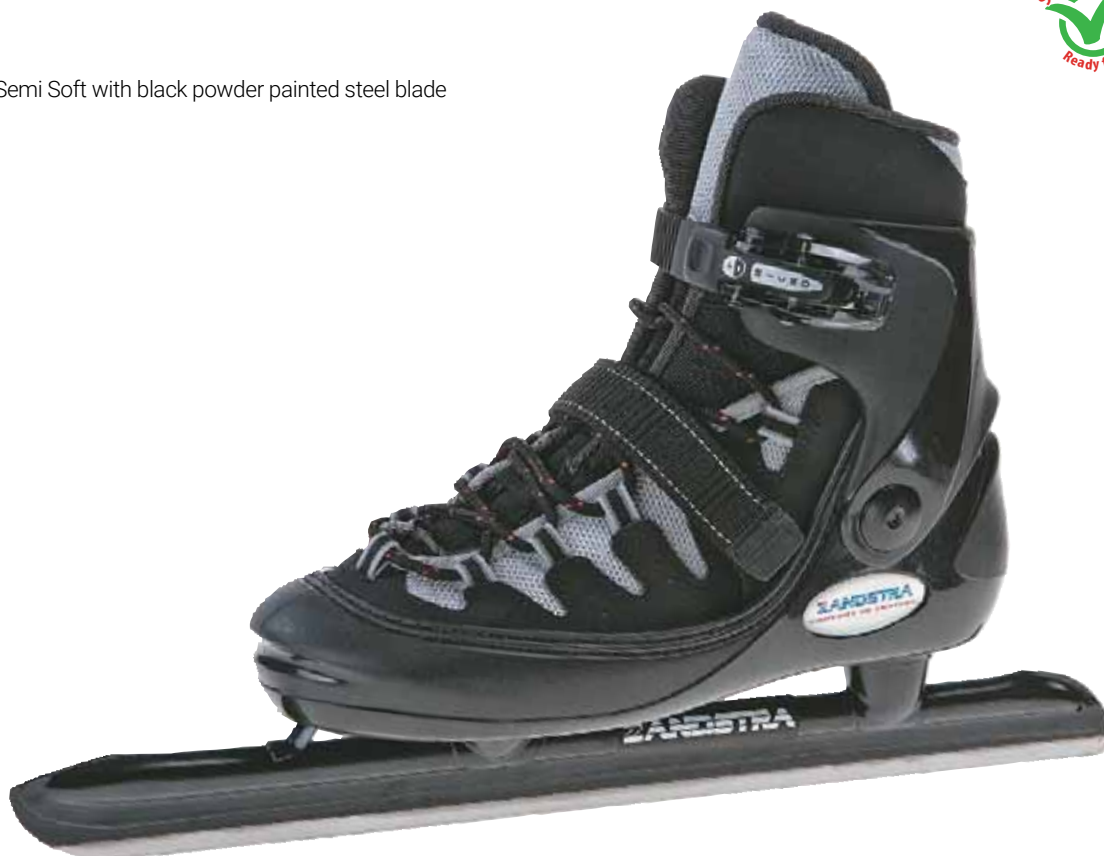
Sizes: 37 - 47



1692**Zandstra Comfort**

Combination of boot 592 Semi Soft with black powder painted steel blade
Radius 27 meters

Sizes: 34 - 43

**1392****Zandstra Comfort**

Combination of boot 592 Semi Soft with Nylon Blade
Radius 27 meters

Sizes: 34 - 47



1383

Zandstra Comfort

Combination of boot 583 Moulded with 3 buckles with Nylon blade.
Radius 27 meters

Sizes: 34 - 46

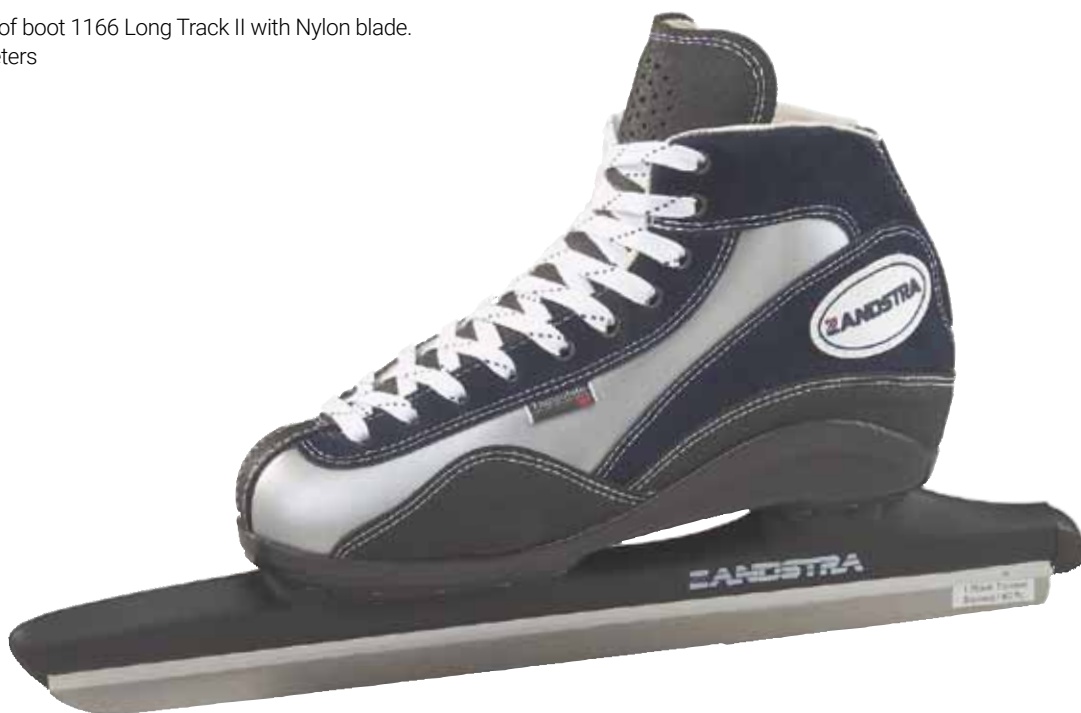


8566

Zandstra Comfort

Combination of boot 1166 Long Track II with Nylon blade.
Radius 27 meters

Sizes: 36 - 51



1663

Oslo Adjustable

The ideal skate for younger children.

Boot

This adjustable skate has the ideal boot for younger feet. It was designed with special care to match the anatomy of children's feet perfectly, mainly focusing on comfort and stability during skating.

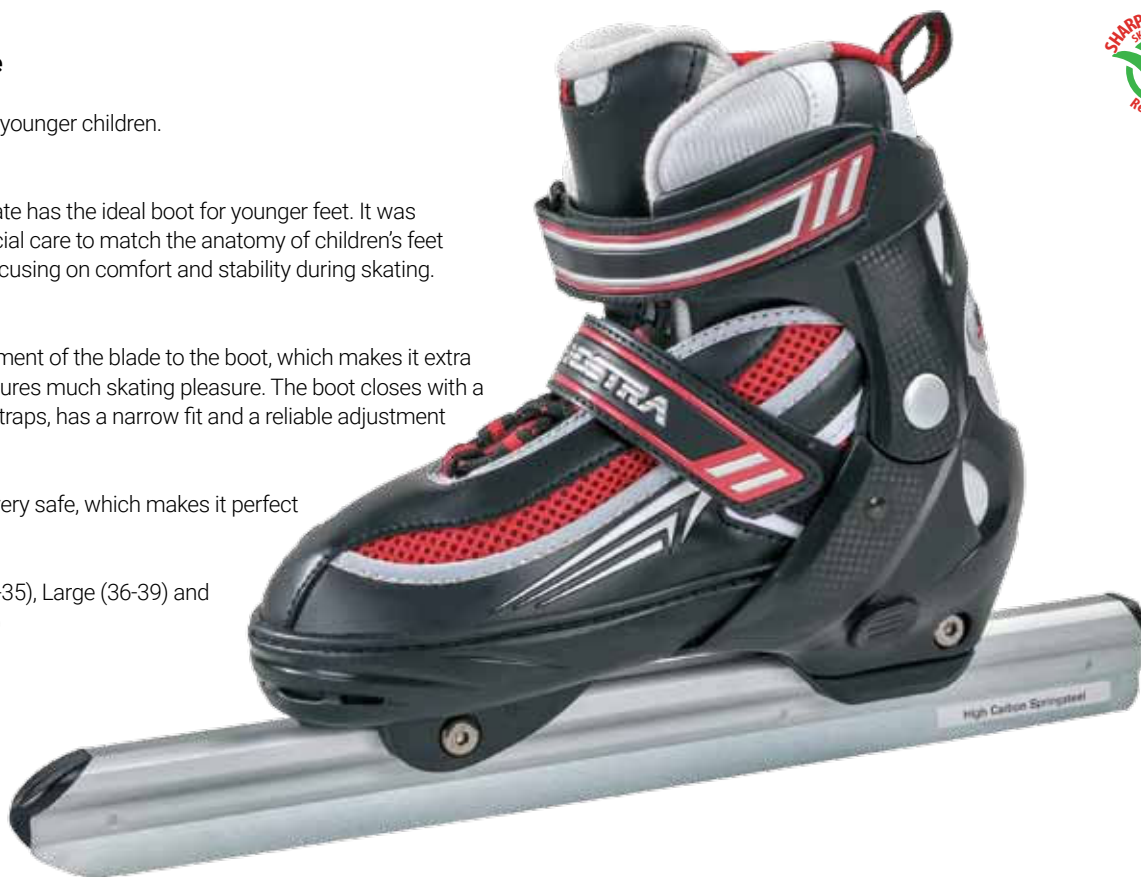
Skate

The special attachment of the blade to the boot, which makes it extra stable and low, ensures much skating pleasure. The boot closes with a lace and 2 Velcro straps, has a narrow fit and a reliable adjustment mechanism.

The skate itself is very safe, which makes it perfect for beginners.

Sizes: Medium (31-35), Large (36-39) and Extra Large (40-43)

Patent: 2004430



Zandstra Combo

Combo Adjustable 2 in 1

- Adjustable semi soft shoe
- Closure: lace, buckle and velcro shoe
- Supplied standard as an inline skate. Interchangeable hockey blade included
- Sizes: Extra Small (29-32), Small (33-36) and Medium (37-40)



203

Lake Placid Adjustable

The Hockey Lake Placid has a semi soft shoe with a very comfortable fit and is adjustable in 4 different sizes. The closure is a combination of lace, buckle and velcro strap, which gives the shoe support where it is needed. The plastic skate is integrated in the shoe, which ensures a reliable skate for many hours of skating fun.

Sizes: Small (31 - 34), Medium (35 - 39)



232

Ontario Adjustable

This molded shoe has two buckles so that the shoe offers very good support and is easy to put on and take off. You no longer have to take off your gloves for this! The Ontario grows with the foot and is adjustable in three different size groups, so you can have fun for more than 1 season. The plastic skate is integrated into the shoe itself, which ensures a reliable skate for many hours of skating fun.

Sizes: Small (25-28), Medium (29-32) en Large (33-36)



282

Zandstra Quebec

The semi-soft shoe is a very comfortable shoe that provides many hours of skating pleasure. The thermo liner provides optimal warmth and comfort while skating. The shoe closes by means of a buckle, velcro strap and lace, so that the ankles have sufficient support. The hardened steel skate is integrated into the shoe and is ideal for natural ice!

Sizes: 36 - 47



482

Elena

The semi-soft shoe is a very comfortable shoe that provides many hours of skating pleasure. The thermo liner provides optimal warmth and comfort while skating. The shoe closes by means of a buckle, velcro strap and lace, so that the ankles have sufficient support. The hardened steel skate is integrated into the shoe and is ideal for natural ice!

Sizes: 36 - 44



Laces Wax Canada

Packed per pair



Length	Color	Quantity
213 cms	Yellow/White	36 pair
183 cms	Yellow/White/Black	36 pair
160 cms	Yellow/White	36 pair
160 cms	Pink/Green/Orange Blue/Yellow/Red	36 pair

Laces Wax Canada

Packed as bundle



Length	Color	Quantity
213 cms	Yellow/White	72 pair
183 cms	Yellow/White	72 pair
160 cms	Yellow/White	72 pair

Laces Wax Ving

Packed per pair



Length	Color	Quantity
180 cms	White/Black	36 pair
160 cms	White/Black	36 pair

Laces Other

Packed per pair

Material	Length	Color	Quantity
Cotton	200 cms	White	72 pair
Nylon	183 cms	White	72 pr bundle
Polyamide (Semi Soft)	110 cms	Black/Red	24 pr bundle

Lace Hooks

Accessories



- Tool for tightening laces
- Easy to carry
- Packed per pair



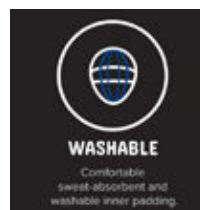
Ving® Helmet



Specifications

Ving helmet

Color: black and carbon
 Sizes: S/M (54-58 cm) and L/XL (60-64 cm)
 Approved: CE EN1078 (Bike - Skate)
 Approved: ASTM F1819 (Ice Skate - Short Track)
 New! Now equipped with Zandstra logo.



Black Tactil

Protection



This glove is made of Zirnium™.
It is elastic and has a comfortable fit.

Color: black

Sizes: XS, S, M, L and XL

White Tactil

Protection



This glove is made of Zirnium™.
It is elastic and has a comfortable fit.

Color: white

Sizes: XS, S, M, L and XL

Dyneema® Glove

Protection



Gloves not for warmth but for protection. Gloves are mandatory during competition skating. Gloves are made out of Dyneema®

Sizes: XSS, M,L and XL.

Dyneema® Shin- Knee

Protection



The protector is worn as a sock. The knee is protected by a layer of foam rubber. Material Dyneema®

Sizes: S, L and XL

180

Easy Glider



Most popular beginner skate.

Some specifications of the Easy Glider are:

1. Stainless Spring Steel with a hardness of 45 Rc.
2. Standard radius of 35 M. Ideal for beginners.
3. Blade is 1.7MM thick.
4. Nylon frame is 50% wider than other strap-on skates.
5. The straps make it easier to fasten the skates quickly.
6. The straps can be tightened after a few minutes of skating.
7. The heel binding has a soft protection strap.
8. The back of the Easy Glider is safe. No injuries by falling.
9. The frame is made of technical Nylon. Zytel 501 S.T.

Sizes: Small (26-30), Medium (31-35), Large (36-39)



Assist

Easy Glider



Converts the Easy Glider (temporarily) in a "triple blade" skate. There is no better "tool" to learn skating with. It gives the youngsters selfconfidence.

Enlargement Straps

Easy Glider



Some boots are rather wide. In that case these straps lengthen the straps on the skate.

70

Bob Skate

This strong double blade is ideal for the youngest skating enthusiasts! The skate is adjustable in length and has 4 special plastic straps, ensuring fast and trouble-free binding. The belts are also available separately.

The Zandstra Bob Skate is available in sizes 24-30.

Skate :Black powder coated
Straps :Red nylon



88

Bob Skate De Luxe

This stable double runner is perfect for the youngest skating enthusiasts! The skate is adjustable in length and the luxurious plastic straps with adjustable easy lock system ensure fast and trouble-free binding. In addition, it has a higher heel, so that the heel sits much more firmly in the shoe and cannot come out.

The Zandstra Bobskate Deluxe is adjustable in the sizes 24-30.

Skate :Black powder coated
Straps :Red nylon





RSM IV Machine

Specifications

RSM Machine

These days skaters (Competition and recreational) prefer to have a specific radius in the blades. In order to meet this demand the Radius Sharpening Machine has been developed. Reliable, accurate and relatively easy to operate. Over the years Zandstra Sport has installed many of these machines worldwide. During the last 5 Olympic Games the R.S.M. has been used by many participants.

With this machine short track, long track and ski blades can be given the desired and correct radius. The most important specifications of this machine are:

1. The radius is achieved by use of templates. The radius in the template is the same as the radius given to the runner.
2. There is no limit to the radius desired. This applies to short track as well as long track.
4. The machine has a diamond dresser. This means that the stone can be easily cleaned. A clean and open stone provides an accurate radius.
5. There is a vibration damper on the motor. Thus making stable sharpening possible.
6. On the machine is a provision to connect the hose of a dust collector.
7. The machine meets CE requirements.
8. Because of the accurate sharpening, honing is kept to a minimum.
9. The machine works on 220V. transformer to 110V are available.(USA, Japan etc.)
10. New on the R.S.M. IV is the safety button.

The machine has an extra long holder. So it is possible to get the desired radius in almost any blade. The R.S.M. IV gives the required radius to the blade. It is not designed to sharpening blades quickly. For this we would draw your attention to the S.S.M. machines from Sweden.

It is advised to polish the blade by hand after sharpening.
On request we will send you an "Instruction of use" by e-mail.

RSM Checking Devices

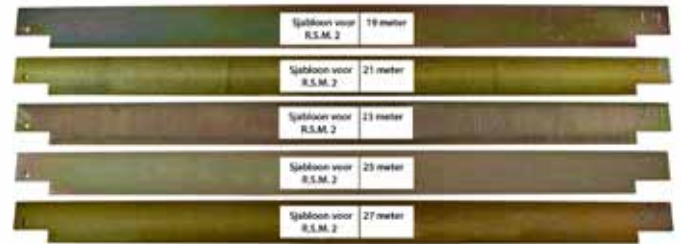
RSM Accessories



Aluminum Checking Device are available in 8,9,10,11,12,15,17,18,19,20,21,22,23,24,25,27 30 and 35 meters

RSM Templates

RSM Accessories



Templates are available in

Short track : 4, 6, 7, 8, 9, 10, 11, 12, 13 and 15 meters

Long track : 17, 18, 19, 20, 21, 22, 23, 24, 25 and 27 meters

Cross country : 30, 35 and 40 meters

Stone RSM

RSM Accessories



Size: 150 x 20 x 20 mms

Diamond Dresser 5 cms

RSM Accessories



For cleaning the sharpening stone.

Length 5 cms



JOHA Pro Sharpening Jig

Specifications

Joha Pro

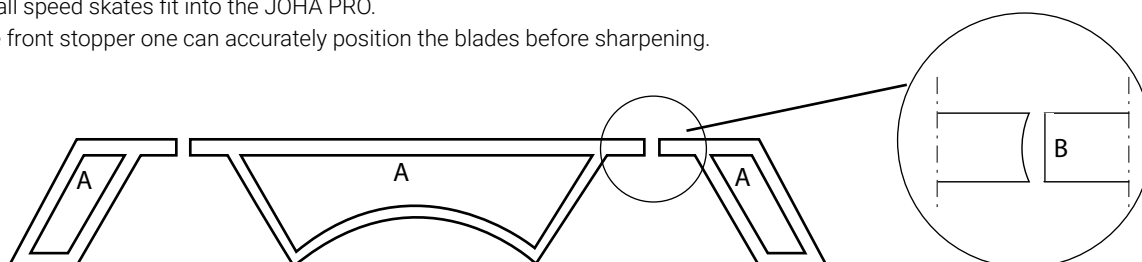
For many years the JOHA brand has been famous with competition skaters.

A completely new JOHA PRO jig has been designed for the professional skater. The new design meets all requirements.

JOHA jig comes with the 3M Polishing Triangle.

JOHA PRO specifications are:

- * Because of the special design of the three aluminium profiles, the blades are exactly 90° degrees in relation to the sharpening stone.
(See drawing)
- * The design in combination with modern technique of high pressure casting has resulted in a very stable sharpening jig. The two sides are unique in shape and strength.
- * The 2 top stoppers, the so-called precision spacers can be set in 3 places.
- * Because of the large knobs the jig is quickly ready for use. This is a great advantage if several pairs have to be sharpened.
- * Special anti slip rubbers. Although many skaters secure their sharpening jig to the work bench, others bring the jig with them to competitions.
- * Almost all speed skates fit into the JOHA PRO.
- * With the front stopper one can accurately position the blades before sharpening.



Because of the specially designed profiles the runners are accurately and securely clamped. This contrary to existing sharpening jigs. (table)



JOHA Pro Stand

JOHA Pro Accessoires

Some speedskates like Comfort and Short track are slightly higher than competition skates. In order to accommodate these skates a stand is available. It adds 8 cms. to the height of the JOHA PRO.



7130

Aluminium Sharpening Jig High

This jig has been specially designed for speedskates with moulded boots or semi soft boots. It is 10 cms. higher than the jig "Medium". Also Short Track sets fits in this jig. Jig comes with 2 "top stoppers"



7135

Aluminium Sharpening Jig Medium

This aluminum jig fits all speed blades with leather boots. The jig is natural anodised. Jig comes with 2 "top stoppers"



7139

Aluminium Sharpening Jig Low

This extra low and long jig is made for handsharpening of skates such as Easy Gliders, Nordic Ice Skates and odd sizes skates. In other words; all blades that do not fit in a "Medium" jig. Jig comes with 2 "top stoppers"



7129

Sharpening Jig Nordic Ice Skates

A special tool has been made for sharpening the Cross Country and Back Country Blades. This tool has 4 anti-slip buttons. The large knobs make it easy to fasten the skate. Handy portable jig.





Ving Upp

Specifications

Ving Upp (7125)

Skating with the so called Ski Blades or Nordic Blades is rapidly gaining popularity. Both in the USA and Europe.

These long blades need, just like the traditional speed blades, maintenance. Sharpening and honing. This to enjoy the hours spend on the ice even more.

Zandstra Sports has developed a special sharpening jig for the Nordic blades. The jig is called VING UPP. It has a unique system which will bring the runners in a proper position for sharpening.

All types, models, brands with or without bindings fit in the UPP.

By this we mean Rottefella (NNN) and Salomon (SNS) both with XC and BC bindings.

With the traditional jigs the steel runners are clamped (locked). With the UPP the frame is clamped against the upper part of the UPP. This is being done by turning the bolt (A) which will move the bar (B) up. The bolt should be turned firm but not too firm.

The most important specs of the UPP are.

- * Compact
- * Low weight
- * Blades are being clamped easy and firm
- * Easy to carry
- * The bindings can stay on the frame. This is an important advantage.
- * Few parts. The UPP is a one piece aluminium
- * Also skates with just a few mm of steel left can be sharpened
- * All sizes fit in the UPP
- * 8 Bumptions makes the UPP nonskid



Foss Diamond Stone

Specifications

Foss Diamond Stone (7514)

Foss Duo Diamond stone offers the ultimate in sharpening your speed skate blades. The stone features multiple layers of the hardest micron-sized diamonds. The diamonds are bonded in nickel and attached to a flat metal surface. The overlapping hole design of the diamond stone collects and holds the metal fillings during the sharpening process. These features will enable you to sharpen the highest quality speed blades quickly and easily. Thanks to two small holes on the side of the plastic base one can easily remove the diamond plates. This to clean or replace. Size: 250 x 70 x 100 mm.

Some advantages:

- Quickly and easily sharpening
- The stone always stays flat
- Less burr on the sides of the runner of the skate
- Last longer
- Suitable for all qualities of steel (Carbon, stainless, bi-metal, PM etc)
- Easy to clean
- Almost unbreakable, low weight, easy to care

Made up : - Extra Fine diamond plate, 1200 grit and Fine diamond plate, 400 grit
 - Reinforced plastic base with 6 magnets

Care and use:

Use water as lubricant. The diamond stone will then last longer. Use light pressure. Let the diamond do its work. It is advised to dry the plates after use and before you put the stone away. Occasionally clean your stone with soapy water and mild brush, then wipe clean.

Durability information:

The initial aggressive cutting speed of all diamond sharpening stones will slow with use. At the same time the abrasive finish will improve. Do not be confused by this process, it is normal and should be expected. Your diamond stone is breaking in, it is not wearing out !!!

7429

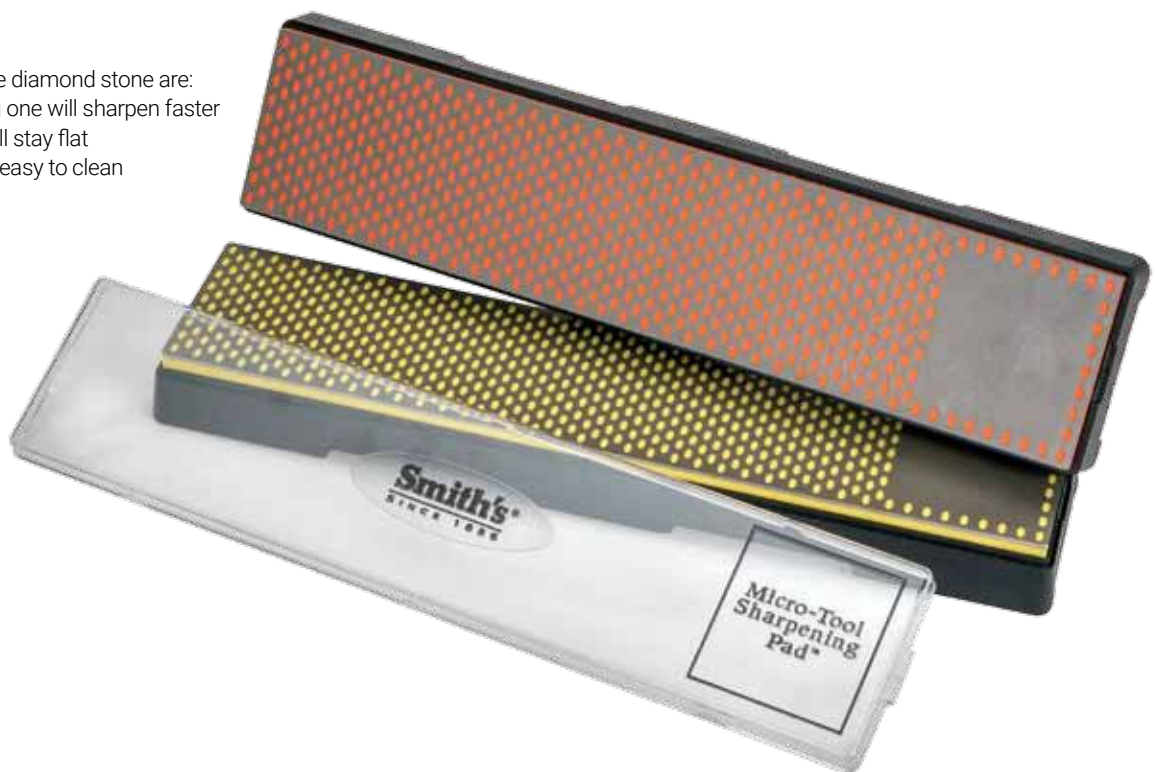
Smith Diamond Stone

Only available in Yellow 45 Micron

Size: 29 x 5 x 2,5 cm

Some advantages of the diamond stone are:

- * Without extra pressing one will sharpen faster
- * The diamond stone will stay flat
- * The diamond stone is easy to clean



7205

Foss Sharpening Stone

Zandstra Foss sharpening stones are of excellent quality. The stone has a rough side for sharpening and a smooth side for polishing. An ideal stone for skaters who expect the best sharpening result.

Size: 25 x 7,5 x 2,5 cms



7215

Norton India Polishing Stone

Aluminium oxide is used to make this one of the best honing stones. Especially with High Speed Steel the polishing result is very smooth. The extra length (29 cms) gives a better grip during sharpening.

Size: 29 x 6 x 2,5 cms



7210

Sharpening Stone Middle

Reasonable priced combination stone.

Quality : Sillicium Carbide

Size: 25 x 5 x 2,5 cm





Foss PDD

Specifications

Foss Pocket Duo Diamond (7800)

An accurate deburring block with 2 coarse diamonds.

* 1000 mesh	15 Micron	Extra fine
* 400 mesh	37 Micron	Fine

Benefits:

- * Starts flat and stays flat
- * Can be used on both sides
- * Durable to use
- * Easy to keep clean with water
- * Suitable for all qualities and hardness skate steel
- * Easy to carry in leather case

Instructions:

- * Always use water as a lubricant (less wear)
- * Hard pressing is not necessary
- * Clean and dry after grinding



7400

Pocketstone Diamond DMT

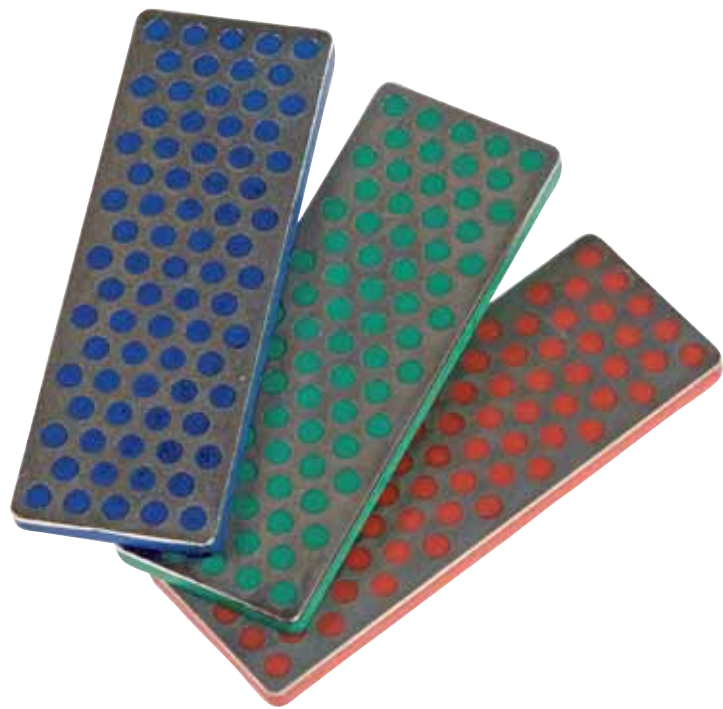
The stones have 3 different of grades:

Green : 9 Micron

Red : 25 Micron

Blue : 45 Micron

Size : 7,5 x 2,5 x 0,4 Cms.



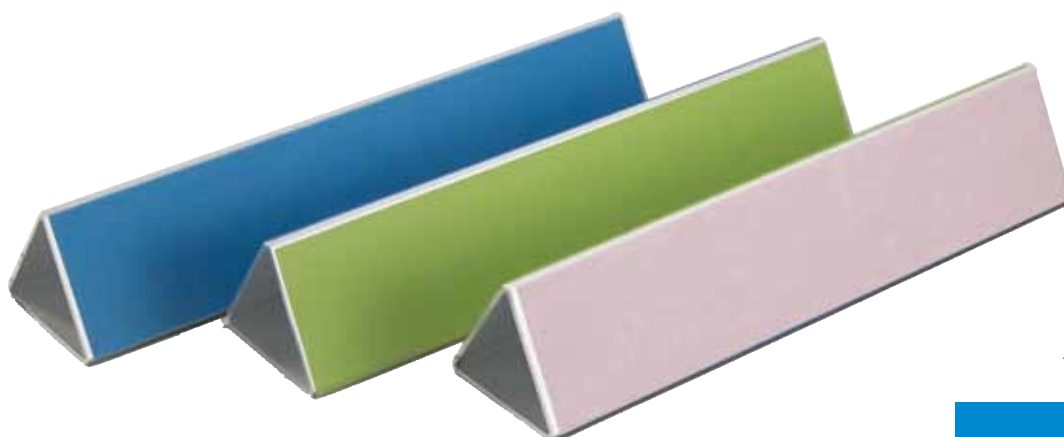
7201

Pocketstone

Quality : Sillicium Carbide

Size: 7,5 x 2,5 x 0,5 cms




Available Grades

Blue 40 m μ
Green 30 m μ
Yellow 12 m μ
Light Blue 9 m μ
Pink 3 m μ

Zandstra 3M Polishing

Specifications

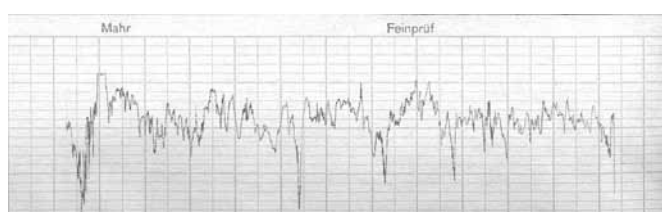
Zandstra 3M Polishing system

For an optimal sharpening result there are 5 different grades of self-adhesive lapp film on a specially extruded aluminium triangle. The length of the triangle is 25 cms. The micro aluminium oxide gives the edge a very shiny surface. The aluminium triangle comes complete with 3 different polishing strips. The strips can be reordered separately or in a set of 3 (blue, green, pink). 3 Grades are standard glued to the triangle. Namely 40 (blue), 30 (green) and 3 (pink) Micron. 2 Additional grades are available. 9 (light blue) and 12 (yellow) Micron.

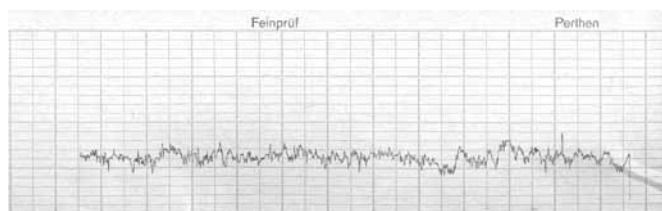
Directions of use:

Put the skates in a jig. Start with moving the blue side of the triangle backwards and forwards slowly over the runners. Use the entire surface of the 3M abrasive strip during this action. When the friction decreases during the polishing (after approx. 1 minute) change over to the green side. When the resistance declines again after 1 minute, end with the pink side. When there is no friction one is ready. This process will take approximately 3 to 5 minutes in total.

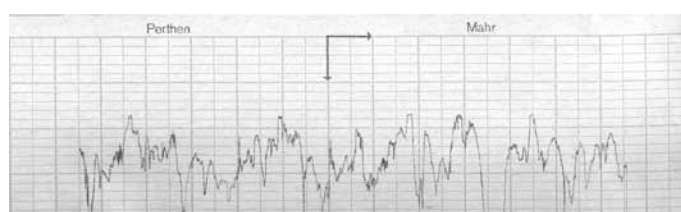
To make sure that the result is optimal you have to look at the gliding surface of the skate. If you see a "mirror" the result is optimal. If not, do the last (pink) or the second last (green) treatment again.



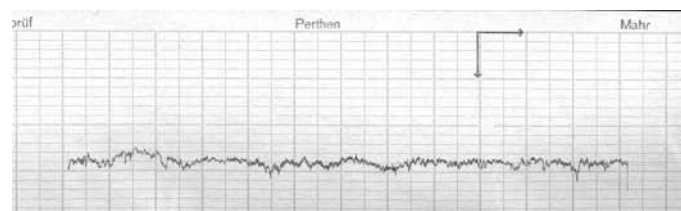
Result after sharpening with fine side of sharpening stone



Result after polishing with 30 m μ (green).



Result after polishing with 40 m μ (blue).



Result after polishing with 3 m μ (pink).

7313

Foss Sharpening Oil



Foss oil gives you a smooth and sharp edge. It prevents the stone becoming clogged.

Bottle: 100 MI

7316

Foss Sharpening Stone Cleaner



Foss Sharpening Stone Cleaner is ideal to clean the stone from small steel parts which "pile up" in the stone.

Bottle: 250 MI

7319

Foss Ensis Anti-Rust



The grease called Ensis is ideal to prevent rust on the runner.
Bottle: 250 MI

Ensis is a Trade Mark of Shell.

7425

Foss Sharpening Grain



Sometimes it is necessary to "recondition" the surface of the sharpening stones. Sharpening grain is the best way to make your stone flat again. The quality CG60 gives the best results. A plastic container holds 250 grams.

Also available in containers of 5 kgs.

8180

Twin Guard

Although this guard is designed for the clap skate, it also fits all other speedblades. It is very easy to adapt the guard to the size of the blade. The best guard for all speedskates.

Colors: Silver, Red, White, Blue and Black



8140

Universal Guard

This guard fits all types of blades. Carbon, Nylon, Aluminium, Short Track and also the traditional 100% Steel. Adjustable for all sizes.

The universal guard is the most popular guard for fixed blades.

Colors: Red, White, Blue and Black



8600

Terry Blade Cover

The blade cover is made of the Terry fabric. This absorbing blade cover protects the blade when you are off the ice.

The bottom is made of wear resistance material.

Sizing:

Small - 39,5 cms, Medium - 42 cms, Large - 44,5 cms and X Large - 47 cms.

Color: Black



Blade Bender 1204

Accessories



With this device it is possible to straighten a crooked skate, in technical terms this is called straightening the skate. You can also use this device to make a curve in the skate so that the skate gets more grip in the curves on the ice.

Long track, short track, hockey and figure skates can be aimed with this targeting device.

Lindbergh Cap

Accessories



The classic skating cap

Available in 3 versions: navy, red or white.



Yndustrywei 8
8501 SN Joure
Holland

0031 - 513 - 415858
sales@zandstrasport.nl