



Orthoses are our passion

NRX®, ARX® and SRX® Straps by Mediroyal

- Providing unlimited options!





























NRX® Strap advantages

Proprioception, joint position sense and muscle memory

The NRX° Strap has several interesting effects that can be used in rehabilitation. The friction effect on the surface activates the mechanoreceptors in the skin and provides an increased proprioception and joint position sense for the patient. This can be used to train the muscle memory of the patient in order to correct or support.

Local compression

The elasticity of the material provides a good compression which supports the local joint and can prevent edema. Edema is a common reason to range of motion limitations in the joint.

Support

The compression and different stability of the various NRX° Strap can be used to provide more specific support. It can be used to restrict the specific movement without over-stabilizing the complete joint. This allows more natural joint function and range of motion.

Heating effect

The closed micro cells in the NRX® material promotes heat retention which increases the temperature locally. An increased temperature locally will make the muscles, ligaments and collagen structures more elastic and flexible which can reduce pain and inflammation.

Ventilation

The NRX® surface is micro perforated for optimal moisture transportation.

Different stability

NRX° Strap, NRX° PLUS Strap and NRX° Double offers different grades of stability depending on the application and all materials can be combined together.

Skin friendly

The NRX® material has been tested for skin irritation by SGS and is completely free from ETU and latex rubber.

Reusable and machine washable

The NRX® Strap is reusable on the patient first fitted on and can easily be washed in 60 degrees machine wash to maintain hygienic safety of the material.

Used in water rehab

The closed cell structure doesn't absorb any water which means that the NRX® Strap can be used actively during hydrotherapy. The skin friction is not lost in water.















-The future already today

The ARX® Strap is a self attaching strap without having to use hook parts for securing it. The ARX® material is made from a patented technology using two fabrics that self attach to each other. The smaller the radius of the application is, the better is the attachment.

Ideally used for fingers, thumbs and hand based applications but also works well on elbow. The material has been laser cut into the different widths to secure the edge. There is no skin friction on the inside of the material. The ARX® material is highly breathable and can be machine washed at 40 degrees C. Don't use fabric softener as it will ruin the function of the material.

- Medium stability
- Limited stretch
- Breathable





The ARX® Strap is available in the following widths:

ARX® Strap - 30 mm

■ EU448030 ARX® Strap · 30 mm x 3,1 m · Black

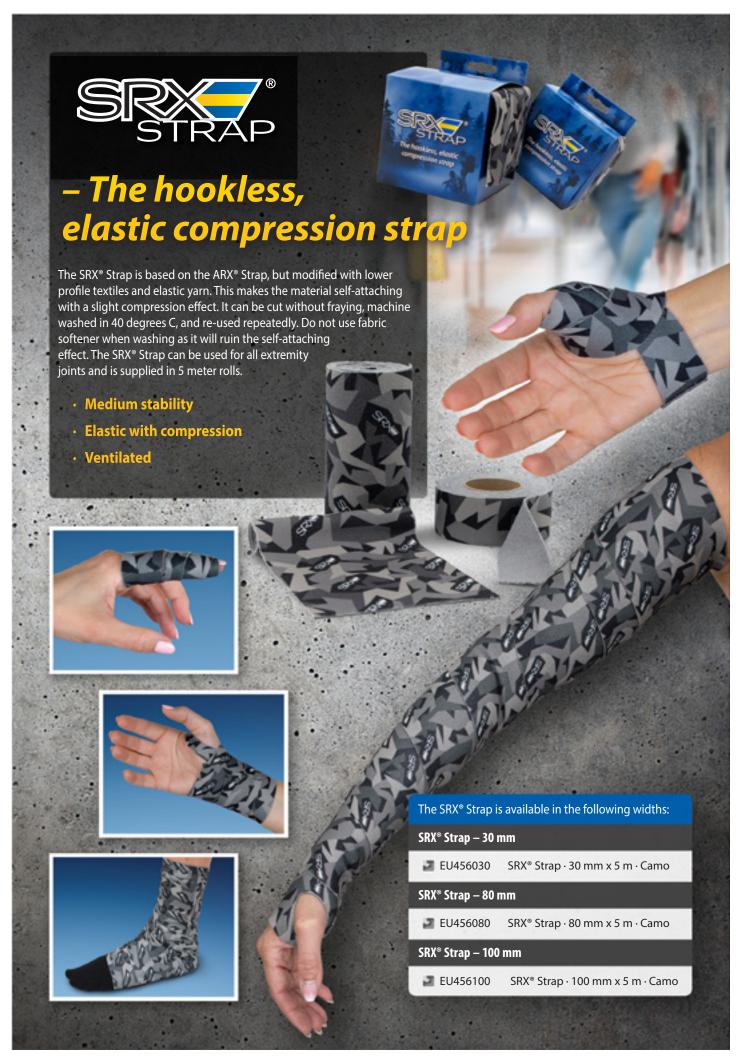
ARX® Strap - 50 mm

■ EU448050 ARX® Strap · 50 mm x 3,1 m · Black

ARX® Strap — 110 mm

■ EU448110 ARX® Strap · 110 mm x 3,1 m · Black













NRX® Strap Kit for Hammertoes

A pre-cut kit for hammertoe applications. Consists of a double loop and a single loop depending on the need along with an anchor strap that goes over the foot. The loop parts will help to flex the metatarsal joint and is then secured directly on the anchor strap that goes over the foot. Hook parts for secure application are included.

Indications: Hammertoe problems

■ NRX1001 Black · Universal size





NRX® Strap Kit for Supination

The pre-cut kit can be used to supinate the forearm on neurological patients. It is attached over the thumb and then the spiral goes up over the elbow joint in order to control and assist radius/ulna rotation. Can be used on the opposite way to promote pronation. Hook parts for secure application is included.

Indications: Assisted supination or pronation on neurological patients or for post-fracture treatments.

■ NRX1002 Black · Universal size



NRX® Strap Kit for Hallux Valgus

This pre-cut kit is used to control abduction of the toe in Hallux Valgus patients. Realigning the joint will not only lead to better neurological muscle function, it can also assist in reactivation the muscular stability of the joint as well as offering off-loading of pain in the joint. The strap is attached over the big toe and individual tension is applied over the strap that is secured over the ankle. A transversal arch band is the applied to secure the application. A sock can be worn over the application, making it possible to wear actively in shoes with enough space. Hook parts for secure application are included.

Indications: Hallux Valgus

■ NRX1003 Black · Universal size



NRX® Strap Kit for Thumb Abduction

This kit can be used to support and stabilize the thumb in abduction. Can be used for neurological patients to prevent or treat light adduction contractures or be used as a functional CMC-1 support. The application enables the patient to get a functional position and it's even possible to walk with a crutch wearing it. Hook parts for secure application are included.

Indications: CMC-1 joint problems in the thumb, light adduction contractures.

■ NRX1004 Black · Universal size



NRX® Strap Kit for Hip Rotation

This kit is designed to be used for patients with internal or external rotation of the hip. The pelvic strap and the thigh cuff provides attachment points for the rotation part that is then attach onto the cuff and strap. Patients with hip problems usually have a shortening of the hip adductor which requires several physical therapy sessions. The kit can be used both as a diagnostic tool to evaluate the effect on the patient as well as after the manual therapy treatment to maintain a constant dynamic stretch over the hip adductor. The external rotation strap will also provide individual pressure over the gluteus muscles which help to extend the hip joint. The hook parts on the pelvic belt and the thigh cuff are sewn on to the applications. One of the hook parts on the rotation strap is fixed in place and the other one is adjustable.

Indications: Short adductor muscles in the hip especially adductor longus and brevis, hip extension problems.

■ NRX1005 Black · Universal size



NRX® Strap Kit Epicondylitis

This kit is made from a combination of the NRX® Strap and NRX® Strap PLUS qualities for optimal function. The main body is made from NRX® Strap to conform easily and to create an anchor for the application. It has two straps to make application easy. The reinforcement part is made from NRX® Strap PLUS and can be used to provide more counterforce and support to the extensor and flexor tendons. A pad is also included that can be positioned on the NRX® Strap body, under the NRX® Strap PLUS reinforcement for more support. Both the body and the reinforcement can be customized by cutting the length of the straps.

Indications: Lateral or medial epicondylitis.

MRX1006

Royal Blue / Black · Universal size



NRX® Strap Kit – Twin Bandages for fingers and Toes

Twin bandages can be useful for starting mobilization after an injury by using the adjacent finger for support and assistance. They can also be used for immobilization of fingers and toes after sprains. The NRX® Strap has a skin friction surface on the inside to prevent slipping.

The NRX® Strap Kit Twin Bandages are available in two qualities: NRX® Strap with more flexibility, and NRX® Strap PLUS with more stability. This allows you to increase functional stability by using the NRX® Strap PLUS quality proximal for more stability and support over the MCP and the NRX® Strap quality distally of the PIP-joint. The twin straps have a welded hook over one of the ends and can easily be cut in the other end for a custom fit.

Indications: After fractures, sprains or contusion injuries to finger or toes, hyper mobility or as prevention during sports activities.



- NRX1007-06 NRX® Strap 15 mm width · Black · 6-pack
- NRX1007-30 NRX® Strap 15 mm width · Black · 30-pack

15 mm width · NRX® Strap +PLUS quality · Universal size

- NRX1008-06 NRX® Strap PLUS 15 mm width · Black · 6-pack
- NRX1008-30 NRX® Strap PLUS 15 mm width · Black · 30-pack

30 mm width · NRX® Strap quality · Universal size

- NRX1009-06 NRX® Strap 30 mm width · Black · 6-pack
- NRX1009-30 NRX® Strap 30 mm width · Black · 30-pack

30 mm width · NRX® Strap +PLUS quality · Universal size

- NRX1010-06 NRX® Strap PLUS 30 mm width · Black · 6-pack
- NRX1010-30 NRX® Strap PLUS 30 mm width · Black · 30-pack
- NRX1010-60 NRX® Strap PLUS 30 mm width · Black · 60-pack



ARX® Twin-Finger Bandages

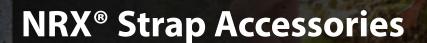
The ARX® material has been specially cut in 13 mm strips with a sewn loop on one side which is excellent to use on finger instabilities, fractures or neurological disorders when one finger has been injuried and it needs to be assisted by the other one. It can also be used on toes.

ARX® Twin Bandages for fingers and toes – 13 mm

- EU448013 ARX® Twin Bandages · 13 mm width · 5-pack
- **■** EU448014 ARX° Twin Bandages · 13 mm width · 25-pack
- EU448015 ARX° Twin Bandages · 13 mm width · 50-pack



R HEAT TAPE & LOOP HEAT TAPE **Heat Tape for materials** The NRX® heat tapes are two heat-activated tapes that can be used to bond two materials together without stitching, but can also be used on the NRX® Strap for reinforcements to stabilize or restrict elasticity. They are easily applied by using a regular iron and a baking paper covering the tape. The recommended temperature for activation of the adhesive is 120–140 degrees Celsius and the setting time about 10 seconds. That might have to be adjusted depending on the surface of the material and the composition. There are two qualities available - NRX® Heat Tape and NRX® Loop Heat Tape NRX® Heat Tape A thin nylon strap with heat activated glue that can be used for bonding materials together or to restrict elasticity on NRX® Strap. Available in 22 mm and 35 mm widths as well as a 30 cm width. EU490001 NRX® Heat Tape · 22 mm width x 10 m roll · Black EU490002 NRX® Heat Tape · 35 mm width x 10 m roll · Black EU490004 NRX® Heat Tape · 30 cm width x 1 m roll · Black **NRX®** Loop Heat Tape This quality has loop function on the top surface with the heat activated glue on the backside. It can be used to extend loop function to areas that difficult to stitch or to laminate with thermoplastic under on the NRX Strap for additional reinforcement and stability. Available in 50 mm and 30 cm widths. EU490090 NRX® Loop Heat Tape · 50 mm x 5 m · Black EU490091 NRX® Loop Heat Tape · 30 cm x 1 m · Black



The accessories of NRX® Strap are different micro hooks that have been specially developed for the use on the NRX® Strap. They are available in either pre-cut packs or complete rolls for larger clinic use.

NRX® Pre-cut Hook

The pre-cut hook packs are the same that are included into the NRX® Strap package and can be ordered separately. They are conveniently packed in a bag for immediate fitting.

EU446001 NRX® Hook · Black pre-cut 10 pcs/pack – fits 30 mm width

EU446002 NRX® Hook · Black pre-cut 10 pcs/pack – fits 50 mm and

80 mm width

EU446003 NRX® Hook · Black pre-cut 5 pcs/pack – fits 110 and

300 mm width

NRX® Low Profile Hook

The NRX® hook is also available in larger clinic dispenser pack that makes it easy to cut the desired length.

EU445060 NRX $^{\circ}$ Self Adhesive Hook \cdot 50 mm x 25 m roll \cdot Transparent

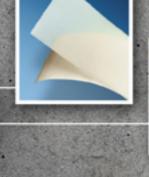
EU445061 NRX® Hook · 50 mm x 25 m roll · Black

EU445161 NRX® Hook Strong · 50 mm x 25 m roll · Black

NRX® Elastic Tension Hook

The NRX® Elastic Tension hook provides a high degree of stability and compression. Can be used for trunk and pelvic to compensate and stabilize the hip or lower part of the back. It's also excellent to use as compression reinforcement over any NRX® Strap application.

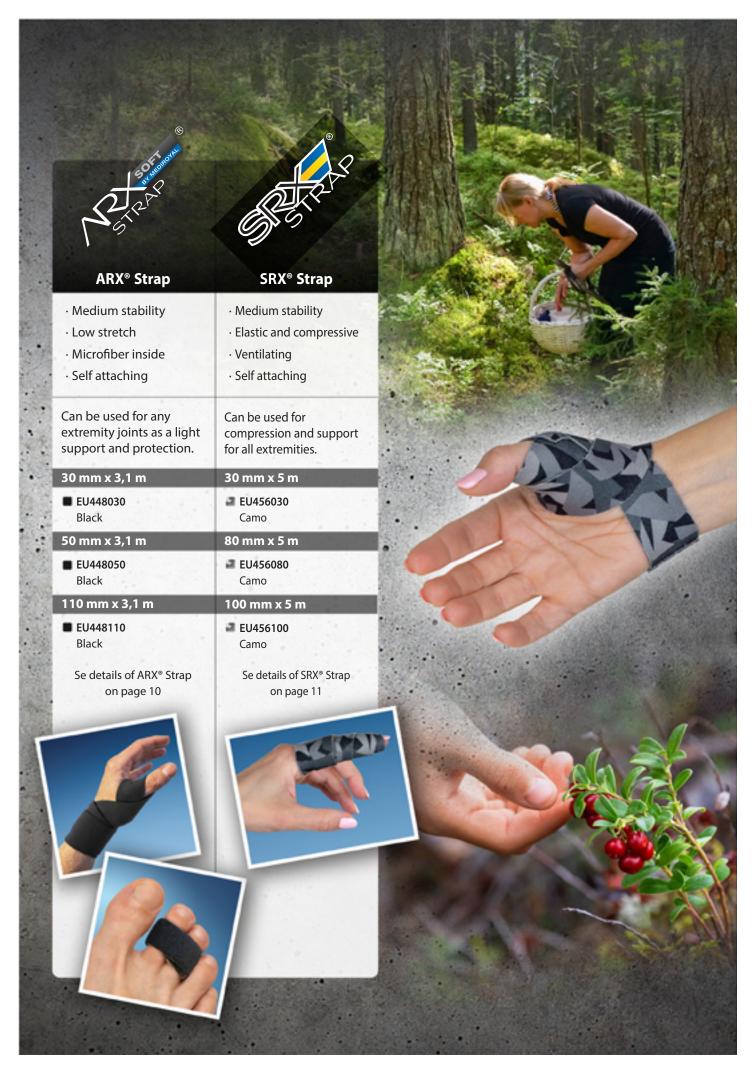
EU445070 NRX® Elastic Tension Hook \cdot 50 mm x 25 m roll \cdot Black







Cross-reference chart for material characteristics NRX® Strap NRX® Strap PLUS **NRX Strap Colors NRX® Strap Neptune NRX®** Strap Double · Medium-High stability · Firm stability · Medium stability · Medium-High Stability · Medium-restricted · High stretch · Medium-High · No stretch restricted stretch stretch · Skin friction surface · Skin friction surface Lined with Neptune™ · Double sided loop on the inside Used for all main Used as reinforcement on Can be used for Used as anchor over the applications where skin the regular NRX® Strap to applications that include pelvic or rotator strap. Can friction is needed. dynamic extension/flexion also be used on the trunk if enhance stability. no skin friction is needed. of joints. Has a lower skin friction effect than NRX® Strap. 30 mm x 3,1 m ■ EU446030 ■ EU447030 ■ EU452030 ■ EU449030 Black Black Black Black EU446230 50 mm x 3,1 m 60 mm x 3,1 m 50 mm x 3,1 m Royal Blue ■ EU452060 ■ EU447050 ■ EU449050 EU446330 Black Black Black **Burgundy Red** 80 mm x 3,1 m 120 mm x 3,1 m 110 mm x 3,1 m 50 mm x 3,1 m ■ EU452120 ■ EU447110 ■ EU449080 EU446050 Black Black Black Black 300 mm x 3,1 m 110 mm x 3,1 m EU446250 Se details of NRX® Strap ■ EU447300 ■ EU449110 Royal Blue Neptune on page 6 Black Black EU446350 **Burgundy Red** Se details of NRX® Strap Se details of NRX® Strap 110 mm x 3,1 m Double on page 7 PLUS on page 8 ■ EU446110 Black EU446210 Royal Blue EU446310 **Burgundy Red** Se details of NRX® Strap on pages 4-5





– One strap, unlimited options!

NRX® Finger Extension Support

Material

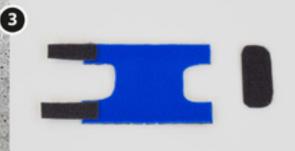
NRX® Strap 50 mm + 2 hook tabs



Cut a the NRX $^{\circ}$ 50 mm strap in the circumference length of the finger plus 2 cm.



Apply the NRX® 50 mm strap around the finger with the fold on the dorsal side and attach with the hook part. For additional flexion support you can add another hook part on the palmar side of the strap. That will provide more flexion control.



If you want the PIP joint to be free, simply make a cut out for the joint in the NRX® strap. Trim the width of the hook so they fit the strips on the NRX® part.



Fold the NRX $^{\!\circ}$ material around the joint and secure it with the hook parts.

Care instruction

The NRX® Strap can be machine washed in 60 degrees C. Use a liquid detergent and a laundry bag. Remove the hook parts before washing. If the hook parts will remain in place, do not exceed 40 degrees C.



The hook part can be attached on the volar side for flexion support.

NRX® Twin-Straps for fingers

Material

30 mm NRX® Strap or NRX® Strap PLUS + 2 hook pieces



Cut two strips in the desired width and approx 8 cm long. Adjust the width of the hook parts to the width of the strips.



Apply the first strap between MCP- and PIP joints. Use NRX® Strap PLUS if you want to protect against finger separation. Position the strap between the fingers and apply it around the finger.



Apply the second strap the same way but between the PIPand DIP joints, and pull it in the opposite direction. Do not over-tighten.

Care instruction

The NRX® Strap can be machine washed in 60 degrees C. Use a liquid detergent and a laundry bag. Remove the hook parts before washing. If the hook parts will remain in place, do not exceed 40 degrees C.



adjust the strap tension



One strap, unlimited options!

NRX® Finger Flexion

Material

NRX® Strap 110 mm + 3-4 hook pieces

Suitable braces: MR2270 DEX® Wrist Mid, MR2274 DEX® Wrist Short or MR2271 DEX® Wrist Long.



The finger part should be at least 6–7 cm wide depending on the circumference of the finger, the length should at least 10 cm long. The lower part should wrap around the finger with a slight overlap. If you need to provide flexion for more fingers, cut more parts according to the pattern.



Use the remaining part of the 110 mm material to cut the wrist cuff. Slid the end with two separate parts, this will make the application easier.





Apply the strap around the finger. You can either apply it between MCP- and PIP-joints or between PIP- and DIP-joints. Make sure that the application does not limit the flexion pull. Secure the application with two smaller hook strips.





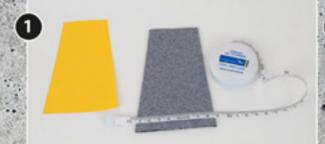
NRX® Heat Tape and Finger Sleeve Application

Material

NRX® Heat Tape can be used together with our technical textiles to create custom finger sleeves for individual support and compression. We recommend using the following materials:

- · EU490403 Neptune™ material with loop surface, 1,6 mm
- · EU490404 Neptune™ material with Lycra surface, 1,2 mm
- · EU490201 Neoprene 1 mm, Black
- · EU490203 Neoprene 3 mm, Black
- · EU452120 NRX® Strap Neptune 120 mm width

For the lamination we recommend to use the 22 mm NRX® Heat Tape. If you need to apply a hook over the lamination, we recommend using the NRX® Loop Heat Tape.



Take the distal and proximal circumference of the finger and make a symmetrical paper pattern of the finger shape. Make the length of the pattern twice the length of the finger to have enough material to adjust the length of the sleeve afterwards. Choose the appropriate material for your application and cut it to the pattern.



Cut 8–10 thin strips of NRX® hook that will be used to hold the construction together during the lamination. Then cut small pieces 8–10 mm in length of NRX® Heat Tape that should fit in between the hook strips.



Start to create the circular shape by putting the material side-by-side and securing it with the hook strips. Try to keep the same distance between the strips, approx. 10–12 mm. Apply the NRX® Heat Tape pieces in between the strips. Make sure that they are not wider than the distance between the strips as this will make it difficult to remove the strips once laminated.



Position the tube on a heat resistant surface. Cover the material with a baking paper or Teflon sheet. Set the iron on medium heat (two dots) and press the NRX® Heat Tape for 10–15 seconds. Check that the edges has bonded. If not, repeat the process. Then let the material cool for 1–2 minutes before the second lamination.



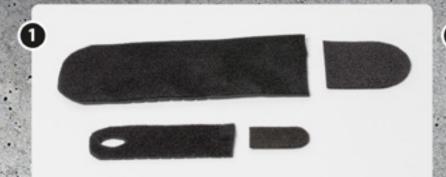


– One strap, unlimited options!

NRX® MCP Extension Assist

Material

NRX® Strap 30 mm and 50 mm + 2 hook tabs



Cut a 50 mm NRX $^{\circ}$ strap to fit the circumference of the wrist plus 2–3 cm. Then cut a 30 mm NRX $^{\circ}$ strap, approx 5–6 cm long. Round one of the ends and cut a small hole 3–4 mm from the edge. The hole should fit over the finger without restricting the blood flow.



Attach the 50 mm NRX® strap over the wrist and close with the hook tab.





Attach the strap onto the Manex Radial platform. Make sure that the MCP joints are neutrally aligned and not over extended.





Attach the hook part to the wrist strap. Adjust the length of the finger extension strap if needed. Test the functionality of the patient. If needed adjust the tension.

Care instruction



- One strap, unlimited options!

NRX® Finger Extension Assist, Multiple joints

Material

NRX® Strap 50 mm or NRX Strap Neptune 60 mm, NRX Strap 30 mm + 2–3 hook pieces Suitable braces: MR2270 DEX® Wrist Mid, MR2274 DEX® Wrist Short or MR2285 Manex Radial.







This application works best with a stable wrist brace to affix the application on, see the suggestions above. The wider NRX® Strap should be used for the MCP-joints. Cut a 6–7 cm length and round the upper part. Then cut two circular holes approx. 10 mm from the edge. The holes should be large enough, not to disturb circulation. Then cut the finger strap from a 30 mm width, approx. 5 cm long. Round the upper edge and cut an oval hole 5 mm from the edge. Apply the hook parts.



Apply the 50 mm strap over the two fingers and make sure that the loops are close to the MCP joint. Pull carefully to align the MCP joints.



Apply the hook part onto the brace. Make sure that MCP-joints are neutrally aligned and not hyperextended.



Apply the 30 mm NRX° Strap over the selected finger. It should be positioned just in front of the PIPjoint. Apply a light stretch without over-extending the joint and the fixate the hook slightly behind the MCP. Make sure that the finger hole is not to big as it will slip over the joint.



When correctly applied it should align the PIP joint with the MCP joint without over extending. Test the functionality on the patient. The straps should assist extension of the joints without limiting flexion.

Care instruction

NRX® STRAP

- One strap, unlimited options!

NRX® Thumb Abduction Strap

Material

NRX® Strap 30 mm and 50 mm + 3 hook tabs



Cut a 50 mm NRX® strap to fit the circumference of the wrist plus 2–3 cm and apply around the wrist and secure with the hook tab. Then cut a 30 mm NRX® strap, approx 8–10 cm long.



Apply the strap around the thenar eminence and secure with the hook tab.



Attach a hook tab to the other end and pull carefully to provide abduction support to the thumb.



Attach the the strap to the ulnar side for a more effective support. If needed adjust the length of the strap. The strap can also be attached on the dorsal part of the wrist strap if less abduction support is needed.

Care instruction



- One strap, unlimited options!

NRX® Thumb Abduction For Activity

Material

NRX® Strap 30 mm or NRX® Strap Neptune 30 mm + 2 hook pieces



Cut a 35–40 cm long strip of the 30 mm NRX® strap. Attach the hook parts on each end of the strap. Apply the strap over the thenar eminence.



Attach the hook part on the dorsal part of the thumb, creating a sling.



Apply the strap one turn around the dorsal side of the hand and turn back to the thumb.



Take another turn around the thumb to support the base of the thenar eminence.



Stretch the NRX® strap slightly and run it over the dorsal side of the hand again.



Attach the strap on the volar side of the hand with the hook tab. The strap can also be shortened and attached on the dorsal side if preferred.

Care instruction

The NRX® Strap can be machine washed in 60 degrees C. Use a liquid detergent and a laundry bag. Remove the hook parts before washing. If the hook parts will remain in place, do not exceed 40 degrees C.



When correctly applied the patient should feel a slight abduction support from the sling.

NRX® Heat Tape

Thermoplastic Thumb Strap

Material

NRX® Heat Tape or NRX® Loop Heat Tape can be used for the thermoplastic lamination. The Loop Heat Tape has a loop surface where the hook can be attached to.

In this application we use a combination of:

- · NRX® Strap Neptune 30 mm
- · NRX® Heat Tape 22 mm or NRX® Loop Heat Tape
- · 1,6 mm Immo Plus Classic thermoplastic



T-TAPE COMPANY



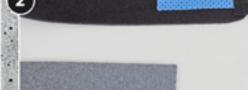
Cut a 30 mm NRX® Strap Neptune material in the appropriate length. You can find more details in the NRX® Thumb Abduction Support instruction. 35–40 cm is usually enough for most thumbs.



Cover the thermoplastic strip with the heat tape. Make sure that parts of the hook also gets covered. This makes application easier.



When the baking paper or Teflon paper is removed the thermoplastic part should be visible through the heat tape.



Attach one of the hook tabs to the surface. Then cut a 10 mm wide strip of 1,6 mm Immo Plus Classic with a length of 6–7 cm. Try the thumb strap on the thumb and mark where the hook attaches to the strap. That is the maximum length lamination can go. Cut the thermoplastic strip so it ends 10 mm from the hook attachment point. Position it side by side to the hook part.



Position the material on a heat resistant surface. Cover the material with a baking paper or Teflon sheet. Set the iron on medium heat (two dots) and press the NRX® Heat Tape for 15–20 seconds. The thermoplastic will bleed through the material when ready.



NRX® STRAP

One strap, unlimited options!

NRX® Wrist for TFCC

Material

NRX® Strap 110 mm and 50 mm, alternatively NRX® Strap PLUS 50 mm + 5 hook pieces



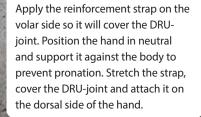
Cut the wrist part from the 110 mm NRX® Strap. Start with an oval hole for the thumb, then trim the volar part. Slid the end into two straps. The reinforcement can be cut in either NRX® Strap 50 mm or NRX® Strap PLUS.













The application can also be supplemented with a short supination strap to control deep pronation.

Attach one end directly over the volar hook for the reinforcement strap. Run the spiral up over the arm. It can be attached on a separate anchor below the elbow or just attached circular.



Apply the thumb through the hole. Stretch the material slightly and let the upper strap run over the DRU-joint and back over the volar side. Attach the strap on the dorsal side and run the second strap the same way.

Care instruction

NRX® Heat Tape and NRX® TFCC Wrist with DRUJ stability



Material

NRX® Heat Tape or NRX® Loop Heat Tape can be used to provide passive stability, compression and support for the DRU-joint.

- · NRX® Strap 110 mm
- · NRX® Heat Tape 22 mm or NRX® Loop Heat Tape





Cut the pattern according to the NRX® TFCC Wrist application. Apply the construction on the patient and mark the DRU-joint position with a small hook part. Use NRX® Heat Tape 22 mm or cut an NRX® Loop Heat Tape in 22 mm width. Make sure the angle of the two straps covers the DRU-joint marking. Then remove the hook marking before lamination.



Position the material on a heat resistant surface. Cover the material with a baking paper or Teflon sheet. Set the iron on medium heat (two dots) and press the NRX® Heat Tape for 10-15 seconds. Check that the edges has bonded. If not, repeat the process. Then let the material cool for 1–2 minutes before application.



Apply the construction once the reinforcement is cold. Check that the V-shape supports the TFCC ligament complex and the DRUJ.

Care instruction

Machine wash in 40 degrees C, use a liquid detergent and a laundry bag.



NRX® Bilateral Wrist

Material

120 mm NRX® Strap Neptune + 2 hook tabs

This wrist model can be used bilateral. Depending on how you cut it, the closure can go either ulnar-dorsal or ulnar-volar. Start by cutting a thumb hole in the center of the material, about 1 cm from the edge. The closure straps can be cut so the distal one is slightly wider than the proximal one. A wider hook can be applied on the distal strap for more wrist stability.



Ulnar-Dorsal Closure



Position the thumb through the hole. Make sure that the hole is large enough not to disturb the movement of the thumb.



Close the distal strap and attach the hook on the dorsal side. You might have to trim the length of the strap to get the specific support that you need.





Last close the distal strap and attach on the dorsal side. This application can be beneficial if you want to provide support in wrist extension.

Ulnar-Volar Closure



Position the thumb through the hole. Make sure that the hole is large enough not to disturb the movement of the thumb.



The closure will be attached onto the volar side. Make sure that you cut the length of the distal strap and hook so the attachment does not interfere or disturb the thumb.



The hook should end 10 mm from the thumb hole to not cause discomfort. Trim the strap if the hook ends up closer. Then close the proximal strap.



The NRX® strap can be washed in 60 degrees machine wash with a liquid detergent. Always use a laundry bag. Remove the hook parts before washing and let air dry.





The closure will be attached onto the volar side. Make sure that you cut the length of the distal strap and hook so the attachment does not interfere or disturb the thumb.

NRX® STRAP

– One strap, unlimited options!

NRX® Supination Assist

Material

NRX® Strap 50 mm or NRX® Strap Neptune 60 mm + 2 hook pieces



Start by cutting approx. 100 cm length of the strap.



Cut down the sides of one end of the strap so its 25–30 mm wide.



Trim the hook part so it fits the width of the end and attach it.



Attach it around the thumb with support over the thenar eminence.



If possible, position the hand and arm in a neutral position, stretch the NRX® strap slightly and wrap it around the lower arm with 5 cm in between the strap turns. Make sure that the compression is even and not too tight.

Care instruction



When reaching the elbow crease, apply the strap from the base of the ulnar side and pass over the crease. Then apply the strap over the biceps. If you are using an ErixThree shoulder brace to control the shoulder, you might attach the strap higher onto the shoulder brace surface.



When the strap is applied correctly it should provide a dynamic supination of the wrist and lower arm.



If you need a dynamic extension of the wrist, cut a 30 cm long strap of the NRX® 30 mm. Attach a hook part in each end. Apply one end onto the radial side of the surface of the first turn on the lower arm.



Let the strap run under the MCP joints and attach it onto ulnar side of the second or third turn. The attachment can also be positioned on the radial side for a higher ulnar extension effect. To prevent the strap from separating, a hook part can be attached to hold them together.



When correctly applied the patient will get a dynamic extension effect in combination with supination assist.



- One strap, unlimited options!

NRX® Supination Assist MCP Anchor

This is an alternative application to the NRX® Supination Assist, keeping the thumb completely free. For details how to cut the strap, refer to the NRX® Supination Assist instruction.

Material

50 mm NRX $^{\circ}$ Strap or 60 mm NRX $^{\circ}$ Strap Neptune + 2 hook tabs 30 mm NRX Strap + 1 hook tab





Cut the 30 mm NRX strap and apply it circular around the MCP joints. Make sure that the anchor is securely attached and does not disturb circulation.



Attach a hook to the narrow cut part of the 50 mm strap. The hook can be positioned either on the dorsal part of the anchor, close to MCP II or III, or on the volar part for more control. You might adjust the position after you have completed the application.



Run the strap over the ulnar part of the palm, directing it close to the DRU-joint. Then continue to strap the arm with an even tension, turn by turn. Make sure not to overstretch the material. You might passively position the arm in supination for more support during the application, rather than stretching the strap.

NRX® STRAP

- One strap, unlimited options!

NRX® Strap Epicondylitis

Material

NRX® Strap 110 mm, NRX® Strap PLUS 80 mm + 5 hook pieces



Attach the strap around the arm. The strap should be positioned about 4–5 cm below the elbow crease and should cover the largest part of the extensor muscles.



Cut the 110 mm NRX° Strap into a 80–90 mm wide strap as the anchor. Round one side and slid the other side into two straps. Cut the reinforcement strap from the 80 mm NRX° Strap PLUS. Slid it in the middle but keep it joined on the opposite side. Attach the larger hook over the joined side and two hooks on the straps.



Lateral displacement



Medial displacement

For the dynamic displacement reinforcement you can choose either lateral or medial displacement. Generally lateral displacement can be more effective in reducing pain on lateral epicondylitis but the effect is individual. You might try both applications and evaluate them functionally on the patient before choosing either of them. See 4A and 4B on next page.



Also make sure to control wrist extension. The TFCC wrist with a dorsal extension support can be a good alternative.



Lateral displacement

Apply the NRX® Strap PLUS reinforcement over the medial part of the anchor. Apply tension and pull the first tab, then apply the second tab. Re-adjust the tension if you need more support.



Medial displacement

Apply the NRX® Strap PLUS reinforcement over the lateral part of the anchor. Apply tension and pull the first tab, then apply the second tab. Re-adjust the tension if you need more support.

For further pressure over the extensor muscles you might put 2–3 pcs of the pre-cut hook parts directly under the reinforcement strap in order to receive a more distinct support.

Care instruction

