Whether it concerns the treatment of a hernia, degenerative discopathy, or a pinched nerve, spinal decompression provides a solution for prolonged symptoms of pain. Spinal decompression can be achieved in a variety of ways, but traction is one of the easiest and most effective methods. Traction therapy influences the pressure between the vertebrae. Because of the pressure decrease during traction, a mechanical effect on the nerves is generated and a biophysical effect on the circulation and oxygen supply to the local structures occurs. This can result in immediate pain relief, but also in a structural improvement in the long run.

The Eltrac 471 is your perfect assistant for traction therapy. The reliable Eltrac 471 has helped many patients for decades on end. This Eltrac 471 has now been improved. The Eltrac 471 is accurate, easy-to-use, real-time and safe!

ACCURATE
The new Eltrac is precise. The forces are exercised on the patient with ultimate precision. The tractive effort in the cord of the Eltrac 471 is constantly measured during traction. The control of the Eltrac compares the measured value to the set value. Any deviations are immediately corrected.

In traction therapy, not only accurate force is important, but also the speed with which the force increases or decreases is very essential. Other devices in the market can only give an indication of the speed. Speed is only estimated or expressed as a percentage of the motor capacity or a speed ratio. With the Eltrac 471 you can accurately set the motor speed (N/sec.), and the device will deliver just that. It will calculate precisely how long the treatment will take. And the full colour display will show exactly what you programmed and what is happening during treatment.

EASY-TO-USE
The new Eltrac 471 is extremely easy-to-use thanks to the touchscreen and the intuitive interface. A clear and well-organised menu will assist you in making therapeutic choices. All essential information will be displayed. Not only while adjusting the settings for the therapy, but also during the therapy itself.

Moreover, the treatment protocols can be saved as well. Every possible combination can be added to the protocol library, even protocols that combine static and intermittent traction in a single session, which was never possible until recently! Static traction alone is often too painful for the patient, particularly in the acute phase when traction can prove to be so effective. In such cases, combining static and intermittent traction in a single session may be the ideal solution. And the new Eltrac 471 offers various forms to choose from in that respect, such as pro- and regressive, cyclic patterns or combinations of these.

REAL-TIME
What you see on the clear and informative display is exactly what is taking place. No averaging later on, but rather real-time. This allows you to monitor the forces actually exercised in the course of the therapy, not a summarised representation, but the actual course. You can zoom and scroll through the visual representation of the treatment. This will also provide better insight into the course of the treatment session as a whole. You will be on top of what you need to know thanks to the real-time information.

SAFE
The Eltrac 471 by Enraf-Nonius is the safe and responsible choice. Not only because Enraf-Nonius has been supplying physiotherapists with equipment as early on as 1925, but also because we develop treatment equipment with the most advanced technology. The traditional equipment for traction is mainly characterised by controlled traction forces. In addition to the controlled contraction force, the new Eltrac 471 also offers clear real-time feedback, the option to save protocols and the user-friendliness that modern technology renders possible. In addition to the option to save your individual protocols, the Eltrac is of course also equipped with preprogrammed clinical protocols (evidence based!). This makes it extremely easy to adjust the settings of the equipment.

Forces above 200 Newton may jeopardize safety when performing cervical traction. Therefore, the Eltrac 471 has a built-in warning indicating when a treatment includes forces above this threshold.
ELTRAC 471

TECHNICAL SPECIFICATIONS

Form of therapy: Static, Intermittent, Pro- and Regressive, Cyclic

Traction force: 15 - 900 N / 1.5 - 90 kg / 3.4 - 202 Lbs

Traction force / base force hold time: 1 sec. - 1 hour (1 sec. intervals)

Repeats (intermittent and cyclic): 1 - 100

Steps hold time (pro- and regressive): 1 sec. - 5 min. (1 sec. intervals)

Steps (pro- and regressive): 1 - 25

Speed (change of traction force): 1 - 50 N/sec. (1 N intervals)

Treatment time: 1 sec. - 150 min.

Programmable favorites: 100+

Clinical protocols: Yes (3)

Sequential programming: Yes (up to 5 forms of therapy)

Safety control for traction force above: 200 N / 20 kg / 45.2 Lbs

Touch screen: 4.3 inch, full colour, capacitive

Mains voltage: 100 - 240 V (50/60 Hz)

Max. power consumption: 50 VA

Dimensions: 30 x 34 x 22 cm

Weight: 10 kg

STANDARD ACCESSORIES

1471806 Nylon cord 170 cm with carabine hook, for Eltrac 471
1471801 Fixing knobs, set of 4
1471800 Patient stop switch
1671757 Operating manual Eltrac 471 (CD-rom)
1671756 Information booklet Eltrac 471
3444290 Mains cable EUR

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E: info@enraf-nonius.nl
www.enraf-nonius.com
ELTRAC 471

ERGONOMIC DESIGN
A design that focusses on functionality and user-friendliness. Offering the therapist comprehensive insight and a clear interface. Offering the patient the most comfortable fixation method and a relaxed starting position.

THE NEW GENERATION
The Eltrac by Enraf-Nonius is the newest generation of equipment for traction therapy. Thanks to the latest technological possibilities, the most advanced scientific insights and the many years of experience of Enraf-Nonius as developer of therapeutic equipment, you will be guaranteed of having the best equipment with the new Eltrac 471.

TRACTION COUCH CAN ALSO BE USED AS TREATMENT COUCH
The roller mounted section for traction can be easily locked in place. Your traction couch (type 916 and 926) converts into an ideal treatment couch in this way, adjustable in height and with an adjustable leg and head section.

EASY-TO-USE
The new Eltrac is extremely easy-to-use thanks to the touch-screen and the intuitive interface. A clear and well-organised menu will assist you in making therapeutic choices. All essential information will be displayed. The graphic support with the zoom option and direct feedback is unsurpassed.

PRECISE
The forces can be adjusted with the utmost precision. Not a percentage of the motor force, but in precise small steps of 1 N. or 10 N.

PROGRAMMED FOR SPEED
The menu structure is optimized to speed. In most cases you can start a pathology-specific treatment in just 3 steps! Easy, quick and simple.

ROLLER MOUNTED SECTION
There is maximum comfort for the patient thanks to the roller mounted section. The roller-mounted surface prevents friction below the hips and legs, so that the full traction force set is actually applied in the vertebral treatment.

ACCURATE
Feedback of the measured forces exercised and immediate correction of deviation where necessary. The device will accurately deliver the programmed forces at the desired speed.
ACCURATE, EASY-TO-USE, REAL-TIME AND SAFE

MADE BY ENRAF-NONIUS

CRYSTAL CLEAR TFT COLOUR SCREEN
A crystal clear, full colour and scratch resistant screen that allows full visibility on all parameters from all viewing angles.

TOUCH SCREEN USER INTERFACE
Easy to use by means of a clear menu via a touch screen interface. Extremely intuitive and as easy as a state-of-the-art smart phone.

TRACTION COUCH WITH EASY FIXATION
With fixation rails on both sides (type 916 and 926) as well as on the head section, the Manumed Traction offers a possibility to fixate the patient in any possible way. Traction belts and various Velcro straps can easily be attached. Fixation is an easy task on a Manumed Traction couch.

PROGRAMMABLE
In addition to the standard treatment protocols, you can also save your personal protocols (including sequential applications) based on your own guidelines. Every conceivable combination - static, pro- and regressive, cyclic or intermittent can be stored as a personal favourite in this way.

FLEXISTOOL FOR AN IDEAL STARTING POSITION DURING LUMBAR TRACTION
The high-low adjustable flexistool renders it possible to exercise traction with an ideal starting position in which the hip-angle can be bent from 45 to 90 degrees.
AREAS OF APPLICATION OF TRACTION THERAPY

PAIN REDUCTION

REDUCTION OF MUSCLE TONE

INCREASE OF THE RANGE OF MOTION AND FLEXIBILITY

DECREASE OF DISCUS PROTRUSION

DECOMPRESSION OF PINCHED NERVES
OPTIONAL ACCESSORIES

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5500926</td>
<td>Manumed Traction 4-section (type 926)</td>
</tr>
<tr>
<td>5500916</td>
<td>Manumed Traction 4-section (type 916)</td>
</tr>
<tr>
<td>3450500</td>
<td>Manumed Traction 2-section, back, fixed height (type 004)</td>
</tr>
<tr>
<td>3445022</td>
<td>Pelvic belt for Manumed Traction</td>
</tr>
<tr>
<td>3445021</td>
<td>Thoracic belt for Manumed Traction</td>
</tr>
<tr>
<td>3445512</td>
<td>Mobile traction frame for cervical Traction</td>
</tr>
<tr>
<td>1471805</td>
<td>Wall bar bracket, for mounting of Eltrac 471 to wall bars</td>
</tr>
<tr>
<td>3445038</td>
<td>Traction frame for Manumed Traction type 916 and 926 (430 mm)</td>
</tr>
<tr>
<td>3445020</td>
<td>Traction frame for Manumed Traction type 004 (480 mm)</td>
</tr>
<tr>
<td>1471808</td>
<td>Saunders Clinical Traction Device</td>
</tr>
</tbody>
</table>

(1) = see our leaflet Manumed Traction for all options and accessories (download it from www.enraf-nonius.com/couches)
(2) = see our leaflet ManuXelect for all options and accessories (download it from www.enraf-nonius.com/couches)

Do you have wall bars in your practice?
If so, then the Eltrac can be easily attached to the wall bars allowing for cervical traction with the patient in a sitting position.
For the application of lumbar and cervical traction therapy there is the Manumed Traction couch. The roller-mounted surface prevents friction below the hips and legs, so that the full traction force set is actually applied in the vertebral treatment. The Manumed Traction is available in two variants: with a fixed or adjustable working height. The variable-height traction couch also doubles as an ideal treatment couch, because the rolling sections can be locked in place.

- Rolling surfaces (can be locked in place)
- With mountings for the traction frame
- Fixation rails for belts come standard
- For use as a traction as well as a regular treatment couch
MANUMED TRACTION

MANUMED TRACTION HEIGHT ADJUSTABLE

MANUMED TRACTION FIXED HEIGHT

Type
916  Manumed Traction, hydraulic H/L
926  Manumed Traction, electric H/L

Type
004  Manumed Traction, fixed height

TECHNICAL SPECIFICATIONS 916 AND 926

Size tabletop (lxw): 203 x 67 cm
Height adjustment: 45-95 cm
Lifting time (min.-max.): approximately 18 sec.
Lifting capacity: 200 kg (electrical motor optional 250 kg)
Power supply: 120/230VAC 50/60 Hz
Current consumption: 2.0 A max.

TECHNICAL SPECIFICATIONS 004

Size tabletop (lxw): 195 x 67 cm
Height: 83 cm
Weight capacity: 150 kg
A matching Enraf-Nonius couch for every interior. As in other practices, a pleasant ambience is important in physiotherapy practices. Clients must feel comfortable in the room where they are being treated. As each practice is furnished differently and has its own colour scheme, we regard it as important for the treatment couches to fit in with your look and feel. That is why we can manufacture our treatment couches in several frame and upholstery colours. Our imitation leather upholstery contains no phthalates and is flame retardant – a unique combination that makes this material suitable for medical use!

Frame colour: Ral 7035 grey

NOTE: Please order options together with the couch because of modification of the couch during production.
OPTIONS (1) MANUMED TRACTION

UPHOLSTERY OPTIONS

<table>
<thead>
<tr>
<th>Section Width</th>
<th>Standard 4 cm thick</th>
<th>Rectangular shaped leg section</th>
</tr>
</thead>
<tbody>
<tr>
<td>67 cm</td>
<td>s</td>
<td>s</td>
</tr>
</tbody>
</table>

s = standard

FOAM DENSITY:
Standard: 38 Kg/m³

NOSE-HOLE
A. Oblong nose-hole including plug (standard)
B. Triangular shaped nose-hole (optional)
C. No nose-hole (optional)

exluding plug, please order separately 1550813

HEIGHT ADJUSTMENT
A. Hydraulic (916) Footswitch (standard)
B. Electric (926) Footswitch (standard)
C. Electric (926) All-around (optional)

LIFTING CAPACITY
A. Hydraulic - max. 200 kg (standard)
B. Electric - max. 200 kg (standard)
C. Electric - max 250 kg (optional)

OPTIONAL FEATURES
A. Safety switch

(1) = NOTE: Please order options together with the couch because of modification of the couch during production
ACCESSORIES MANUMED TRACTION

**PAPER ROLL HOLDER AND PAPER ROLLS**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3445280</td>
<td>Paper roll stand (floor type) for 40, 50 &amp; 60 cm rolls</td>
</tr>
<tr>
<td>3445284</td>
<td>Paper roll, width 40 cm, roll-length 150 m, per 5 rolls</td>
</tr>
<tr>
<td>3445278</td>
<td>Paper roll, width 50 cm, roll-length 150 m, per 5 rolls</td>
</tr>
<tr>
<td>3445279</td>
<td>Paper roll, width 60 cm, roll-length 150 m, per 5 rolls</td>
</tr>
</tbody>
</table>

**TRACTION ACCESSORIES**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3xxx014</td>
<td>Flexistool grey, with separate height adjustment for each leg, available in different colours</td>
</tr>
<tr>
<td>3447624</td>
<td>Padded neck harness, complete with spreader bar</td>
</tr>
<tr>
<td>1471802</td>
<td>Pulley for mobile traction frame (2 required)</td>
</tr>
<tr>
<td>3445022</td>
<td>Pelvic belt for Manumed Traction</td>
</tr>
<tr>
<td>3445021</td>
<td>Thoracic belt for Manumed Traction</td>
</tr>
<tr>
<td>3445512</td>
<td>Mobile traction frame for cervical traction</td>
</tr>
<tr>
<td>1471805</td>
<td>Wall bar bracket, for mounting of Eltrac 471 to wall bars</td>
</tr>
<tr>
<td>3445038</td>
<td>Traction frame for Manumed Traction H/L (width 430mm)</td>
</tr>
<tr>
<td>3445020</td>
<td>Traction frame Manumed Traction type 004 (width 480mm)</td>
</tr>
</tbody>
</table>

(1) = only for Manumed types 004 (Manumed Traction fixed height), 001 and 002 (Manumed Basic)
## ACCESSORIES MANUMED TRACTION

### FIXATION STRAPS

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3445006</td>
<td>Clamp for fitting straps (2 required)</td>
</tr>
<tr>
<td>3445023</td>
<td>Fixation strap with velcro fastener 120 cm</td>
</tr>
<tr>
<td>3445014</td>
<td>Fixation strap with velcro fastener 160 cm</td>
</tr>
<tr>
<td>3445015</td>
<td>Fixation strap with velcro fastener 240 cm</td>
</tr>
<tr>
<td>3445475</td>
<td>Fixation strap with safety lock 250 cm</td>
</tr>
<tr>
<td>3445474</td>
<td>Fixation strap with safety lock 350 cm</td>
</tr>
</tbody>
</table>

### MISCELLANEOUS

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3446261</td>
<td>Set of 3 exercise stools, 50 x 38 x 32 cm, 40 x 32 x 21 cm and 30 x 22 x 14 cm</td>
</tr>
</tbody>
</table>
# ACCESSORIES MANUMED TRACTION

## STOOLS (AVAILABLE IN ALL COLOURS SHOWN BELOW)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Height Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>3xxx010</td>
<td>Stool, height adjustable 40-53 cm</td>
<td></td>
</tr>
<tr>
<td>3xxx011</td>
<td>Stool, mobile, height adjustable 59-85 cm</td>
<td></td>
</tr>
<tr>
<td>3xxx012</td>
<td>Stool, mobile, provided with footrest, height adjustable 59-85 cm</td>
<td></td>
</tr>
<tr>
<td>3xxx013</td>
<td>Stool, mobile, anatomic seat, height adjustable 43-56 cm</td>
<td></td>
</tr>
<tr>
<td>3xxx020</td>
<td>Stool, mobile, saddle seat, height adjustable 59-85 cm</td>
<td></td>
</tr>
</tbody>
</table>

## ROLLS AND CUSHIONS (AVAILABLE IN ALL COLOURS SHOWN BELOW)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>3xxx002</td>
<td>Halfroll, flat bottom, small, especially for the ankle</td>
<td>28x9x11 cm</td>
</tr>
<tr>
<td>3xxx003</td>
<td>Halfroll, flat bottom, large</td>
<td>56x16x18 cm</td>
</tr>
<tr>
<td>3xxx023</td>
<td>Massage roll</td>
<td>50x Ø15 cm</td>
</tr>
<tr>
<td>3xxx004</td>
<td>Neck cushion, hourglass type</td>
<td>30x15 cm</td>
</tr>
<tr>
<td>3xxx005</td>
<td>Massage cushion</td>
<td>30x28x8 cm</td>
</tr>
<tr>
<td>3xxx015</td>
<td>Wedge shaped cushion</td>
<td>50x30x15 cm</td>
</tr>
<tr>
<td>1550813</td>
<td>Plug for nosehole, triangular shaped (only available in black)</td>
<td>16.5 x 21 cm</td>
</tr>
<tr>
<td>3445297</td>
<td>Wedge shaped, Kaltenborn, rubber model (only available in black)</td>
<td>22.5 x 10.5 x 8.5</td>
</tr>
<tr>
<td>3446161</td>
<td>Support bag with sand 1.2 kg</td>
<td>15x25 cm</td>
</tr>
<tr>
<td>3446162</td>
<td>Support bag with sand 2 kg</td>
<td>18x27 cm</td>
</tr>
<tr>
<td>3446166</td>
<td>Support bag with sand 4 kg</td>
<td>25x35 cm</td>
</tr>
<tr>
<td>3446167</td>
<td>Support bag with sand 7 kg</td>
<td>30x45 cm</td>
</tr>
</tbody>
</table>

(1) = only available in grey

---

**Executive**

- 012 black
- 213 grey
- 199 lavender
- 204 sirius blue
- 169 cornflower blue
- 170 baby blue

**Natural**

- 811 volcano black
- 851 sand

**Lifestyle**

- 410 anthracite
- 408 terracotta
CERVICAL TRACTION WITH THE SAUNDERS CLINICAL TRACTION DEVICE

Cervical traction can be very effective in the treatment of cervical hernias that require widening of the neural foramen or stretching of the soft tissue in the cervical structure. The Saunders clinical traction device makes cervical traction simple and comfortable.

With the Saunders clinical traction device, the traction forces are directed towards the occiput. The forces are not applied to the chin, so there is no pressure on the temporomandibular joint. The Saunders clinical traction device can be adjusted to individual needs so each patient receives the maximum benefit.

The angle of the cervical traction is adjustable with the Saunders clinical traction device. This permits optimal traction as described in the literature.

The combination of the Eltrac 471 with an Enraf-Nonius traction table and the Saunders clinical traction device is the ideal solution for anyone who is looking for responsible, safe and comfortable cervical traction.