

ELTRAC 471

TRACTION UNIT FOR LUMBAR AND CERVICAL TRACTION



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 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. 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



1671901 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) 0.1 - 5.0 kg/sec. 0.2 - 11.2 Lbs/sec.
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



ENRAF-NONIUS
Vareseweg 127
3047 AT Rotterdam
The Netherlands
T.: +31-(0)10 - 203 06 00
E: info@enraf-nonius.nl
www.enraf-nonius.com

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



ELTRAC 471

ENRAF-NONIUS

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.



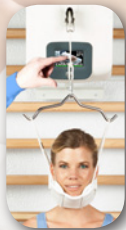
TRACTION COUCH CAN ALSO BE USED AS TREATMENT COUCH

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.



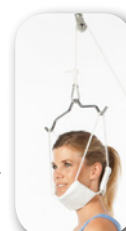
ROLLER MOUNTED SECTION

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.



MADE BY ENRAF-NONIUS

Made by Enraf-Nonius and, therefore, safe, reliable and durable. A device made by Enraf-Nonius, THE supplier for the physiotherapist worldwide. Where quality, reliability and durability come as standard.



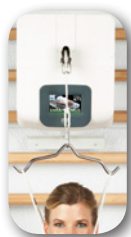
TRACTION COUCH WITH EASY FIXATION

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.



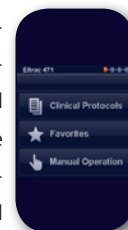
CRYSTAL CLEAR TFT COLOUR SCREEN

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



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.



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.



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

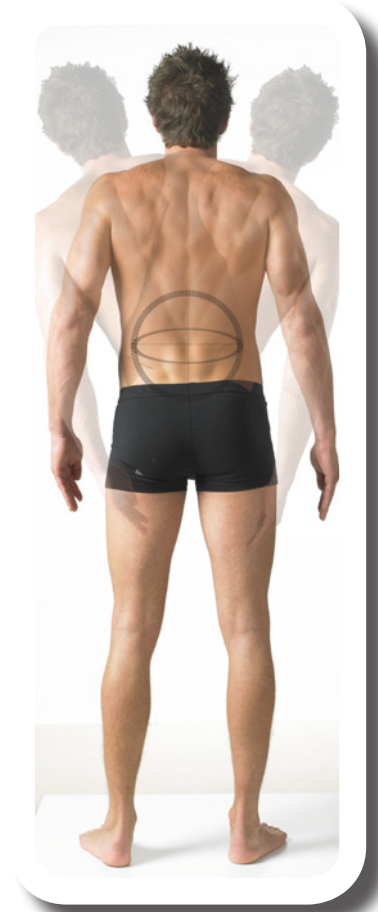
PAIN REDUCTION



REDUCTION OF MUSCLE TONE



INCREASE OF THE RANGE OF MOTION AND FLEXIBILITY



DECREASE OF DISCUS PROTRUSION



DECOMPRESSION OF PINCHED NERVES



ACCESSORIES ELTRAC 471

OPTIONAL ACCESSORIES

- 5500926⁽¹⁾ Manumed Traction 4-section (type 926)⁽¹⁾
- 5500916⁽¹⁾ Manumed Traction 4-section (type 916)⁽¹⁾
- 3450500⁽¹⁾ Manumed Traction 2-section, back, fixed height (type 004)⁽¹⁾
xxxxxxx ManuXelect Traction ⁽²⁾
- 1471807 Remote control for Eltrac 471
- 3013014 Flexistool grey, with separate height adjustment for each leg
- 3447624 Padded neck harness, complete with spreader bar
- 1471802 Pulley for mobile traction frame (2 required)
- 3445022 Pelvic belt for Manumed Traction
- 3445021 Thoracic belt for Manumed Traction
- 3445512 Mobile traction frame for cervical Traction
- 1471805 Wall bar bracket, for mounting of Eltrac 471 to wall bars
- 3445038 Traction frame for Manumed Traction type 916 and 926 (430mm)
- 3445020 Traction frame for Manumed Traction type 004 (480mm)
- 1471808 Saunders Clinical Traction Device

(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)



3450500



3445512



3013014



3447624



1471802



3445022



3445021



1471805



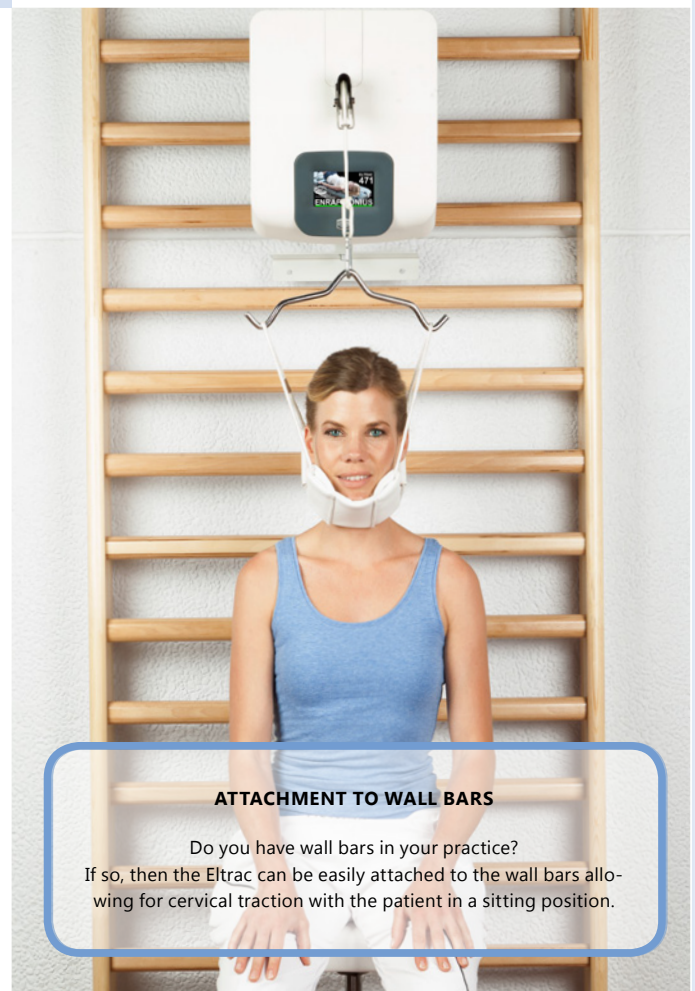
3445038



3445020



5500926
5500916



ATTACHMENT TO WALL BARS

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.

MANUMED TRACTION

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.



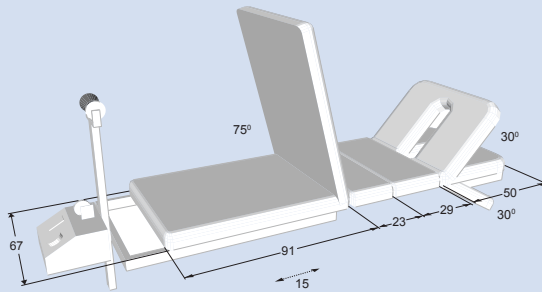
- Rolling surfaces (can be locked in place)
- With mountings for the traction frame
- Fixation rails for belts come standard
- For use as a traction as well as a regular treatment couch



ENRAF-NONIUS
Vareseweg 127
3047 AT Rotterdam
The Netherlands
T: +31-(0)10 - 203 06 00
E: info@enraf-nonius.nl
www.enraf-nonius.com

MANUMED TRACTION

MANUMED TRACTION HEIGHT ADJUSTABLE



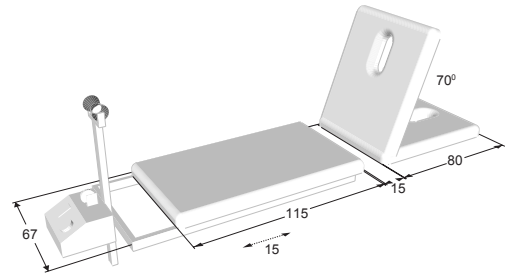
Type

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

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.

MANUMED TRACTION FIXED HEIGHT



Type

- 004 Manumed Traction, fixed height

TECHNICAL SPECIFICATIONS 004

Size tabletop (lxw): 195 x 67 cm
 Height: 83 cm
 Weight capacity: 150 kg



OPTIONS⁽¹⁾ MANUMED TRACTION

UPHOLSTERY

Colour	Code
Black	012
Grey	013
Sirius Blue	004
Cornflower Blue	169
Turquoise	141
Lavender	199
Jade	155
Mint	138
Wine red	019
Signal red	139
Yellow	127
Beige	135
Black	811
Grey	812
Red	852
White	888
Blue	933
Beige	851

FRAME

Colour	code
Grey	Ral 7035

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. The imitation leather can be supplied with a rugged or smooth finish.



Our imitation leather upholstery contains no phthalates and is flame retardant – a unique combination that makes this material suitable for medical use!



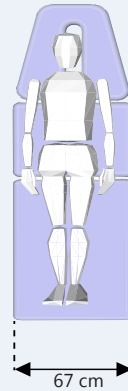
(1) = NOTE: Please order options together with the couch because of modification of the couch during production

OPTIONS⁽¹⁾ MANUMED TRACTION

UPHOLSTERY OPTIONS

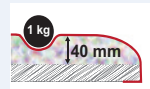
Section Width	Standard 4 cm thick	Rectangular shaped leg section
67 cm	s	s

s = standard



FOAM DENSITY:

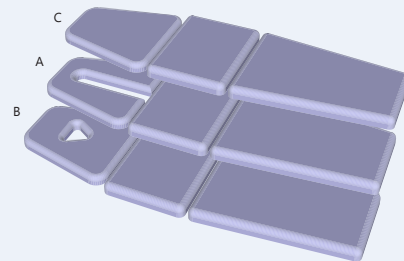
Standard: 38 Kg/m³



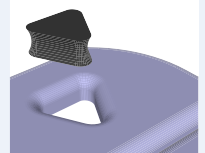
Standard

NOSE-HOLE

- A. Oblong nose-hole including plug (standard)
- B. Triangular shaped nose-hole (optional) excluding plug, please order seperately 1550813
- C. No nose-hole (optional)

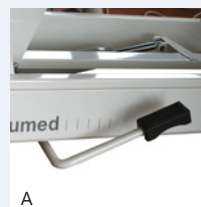


1550813



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

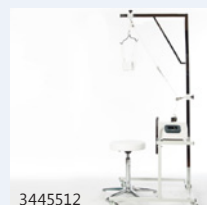
3445280	Paper roll stand (floor type) for 40, 50 & 60 cm rolls
3445284	Paper roll, width 40 cm, roll-length 150 m, per 5 rolls
3445278	Paper roll, width 50 cm, roll-length 150 m, per 5 rolls
3445279	Paper roll, width 60 cm, roll-length 150 m, per 5 rolls



TRACTION ACCESSORIES

3xxx014	Flexistool grey, with separate height adjustment for each leg, available in 18 colours
3447624	Padded neck harness, complete with spreader bar
1471802	Pulley for mobile traction frame (2 required)
3445022	Pelvic belt for Manumed Traction
3445021	Thoracic belt for Manumed Traction
3445512 ⁽¹⁾	Mobile traction frame for cervical traction ⁽¹⁾
1471805	Wall bar bracket, for mounting of Eltrac 471 to wall bars
3445038	Traction frame for Manumed Traction H/L (width 430mm)
3445020 ⁽¹⁾	Traction frame Manumed Traction type 004 (width 480mm) ⁽¹⁾

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



ACCESSORIES MANUMED TRACTION

FIXATION STRAPS

3445006	Clamp for fitting straps (2 required)
3445023	Fixation strap with velcro fastener 120 cm
3445014	Fixation strap with velcro fastener 160 cm
3445015	Fixation strap with velcro fastener 240 cm
3445475	Fixation strap with safety lock 250 cm
3445474	Fixation strap with safety lock 350 cm



MISCELLANEOUS

3446261	Set of 3 exercise stools, 50 x 38 x 32 cm, 40 x 32 x 21 cm and 30 x 22 x 14 cm
---------	---



ACCESSORIES MANUMED TRACTION

STOOLS (AVAILABLE IN 18 DIFFERENT COLOURS)

3xxx010	Stool, height adjustable 40-53 cm
3xxx011	Stool, mobile, height adjustable 59-85 cm
3xxx012	Stool, mobile, provided with footrest, height adjustable 59-85 cm
3xxx013	Stool, mobile, anatomic seat, height adjustable 43-56 cm
3xxx020	Stool, mobile, saddle seat, height adjustable 59-85 cm



ROLLS AND CUSHIONS

3xxx001	Halfroll, flat bottom, especially for the knee ⁽¹⁾	27x16x18 cm
3xxx002	Halfroll, flat bottom, small, especially for the ankle ⁽¹⁾	28x9x11 cm
3xxx003	Halfroll, flat bottom, large ⁽¹⁾	56x16x18 cm
3xxx021	Halfroll, flat bottom ⁽¹⁾	50x18x10 cm
3xxx022	Halfroll, flat bottom ⁽¹⁾	56x25x15 cm
3xxx023	Massage roll ⁽¹⁾	50x Ø15 cm
3xxx004	Neck cushion, hourglass type ⁽¹⁾	30x15 cm
3xxx005	Massage cushion ⁽¹⁾	30x28x8 cm
3xxx006	Face cushion, with breathing hole ⁽¹⁾	40x20x15 cm
3xxx015	Wedge shaped cushion ⁽¹⁾	50x30x15 cm
3xxx016	Wedge shaped cushion ⁽¹⁾	50x40x30 cm
3xxx024	Wedge shaped cushion ⁽¹⁾	50x40x12 cm
3xxx017	Exercise roll ⁽¹⁾	100xØ30 cm
3xxx029	Plug for nosehole, small ⁽¹⁾	13x9 cm
1550813	Plug for nosehole, triangular shaped (only available in black)	16,5 x 21 cm
3445297	Wedge shaped, Kaltenborn, rubber model (only available in black)	22,5 x 10,5 x 8,5
3446161	Support bag with sand 1,2 kg ⁽²⁾	15x25 cm
3446162	Support bag with sand 2 kg ⁽²⁾	18x27 cm
3446166	Support bag with sand 4 kg ⁽²⁾	25x35 cm
3446167	Support bag with sand 7 kg ⁽²⁾	30x45 cm

(1) = Available in 18 different colours
 (2) = Available in grey 013 colour only



012

013

004

169

141

199

155

138

019

139

127

135

811

812

852

888

933

851

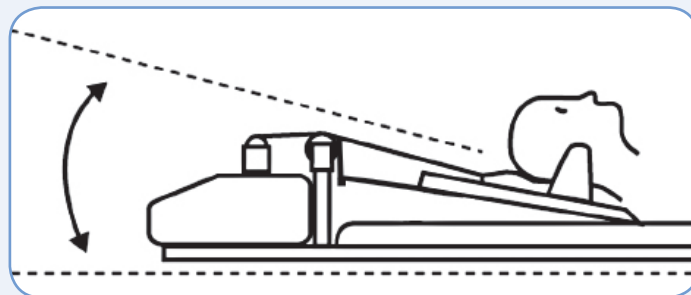
ACCESSORY: SAUNDERS CLINICAL TRACTION DEVICE

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.



SAUNDERS CLINICAL TRACTION DEVICE

1471808 Saunders clinical traction device with mounting bracket

