

USER'S MANUAL

4071

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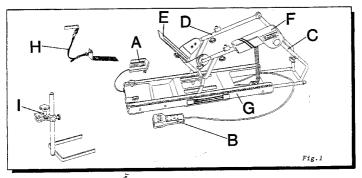
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INTRODUCING THE KINETEC 4071

Definition

The KINETEC 4071 is a continuous passive motion machine for FLEXION-EXTENSION mobilisation of the hip, knee and ankle joints.

Description

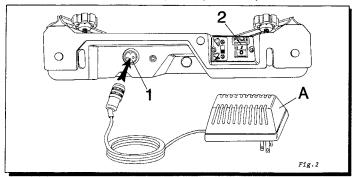


The KINETEC 4071 has the following parts:

- A The mains transformer.
- B The control box (keyboard and display).
- C The thigh support, adjustable for length.
- D The lower leg support, adjustable for length.
- E The foot plate.
- F The motor.
- G The base plate. It consists principally of the guidance rails and the control circuitry
- H Home bed mount straps (OPTION)
- I Bed frame attachment (OPTION)

Unpacking the KINETEC 4071

- Place the KINETEC 4071 in the working position. (see page 10)
- Check the transfomer connection (A) to the socket (1).
- Connect the transformer (A) to a 240, 220 or 100 Volt~-50Hz or 110 Volt ~ -60Hz current outlet. (Electric power : 19 VA)



Safety characteristics

- The machine has now been powered with a safe voltage : 14 Volts DC.
- The machine is CLASS II, with TYPE B protection against electric shock.
- The handcontrol allows the machine to be stopped and the direction reversed with the START / STOP button.
- The KINETEC 4071 conforms to the IEC 601.1 standard.

Starting up the KINETEC 4071

- Switch on the power (2) (position 1)

The machine will BEEP 3 times and the handcontrol will read

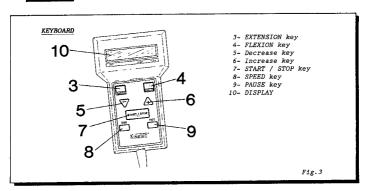
KINETEC 4071

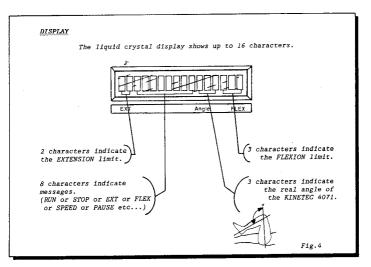
If the machine does not beep and if the handcontrol does not give any information, see chapter VI INSTRUCTIONS IN CASE OF A BREAKDOWN.

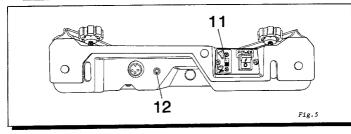
HOW TO USE THE HANDCONTROL

Description

Ш







The sliding switch (ii) determines whether the operational settings of the KINETEC 4071 can be changed.

- POSITION

adjustments are possible to the operational settings.

- POSITION

the operational settings can only be read as well as the START / STOP function operating.

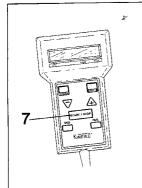
ADVICE : we recommended that the switch is kept in position



when the handcontrol is given to the patient

key

START / STOP function



The KINETEC 4071 is fitted, like all KINETEC, with START / STOP function, which can always be used, even if the switch (11)

is in the position

With the machine moving.

- First press on the START/STOP k

stops the movement and the display will

15 STOP 25 120 **

- The second press on the START / STOP

start the movement in the reverse direction and the display shows

IMPORTANT

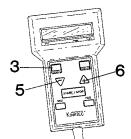
FOR MAXIMUM SAFETY.

THE HANDCONTROL SHOULD ALWAYS BE GIVEN TO THE PATIENT.

* The limits and the actual angle are given for demonstration purposes. PAGE 5

Check that the switch (11) is in position





Modification of the EXTENSION limit can be done in either the running or stopped position.

- Press the key



The display indicates | 15 EXT 35 120

- Press

until the display indicates the desired EXTENSION limit. *

- MINI : -9° - MAXI : 99°

Adjusted in 1° increments.

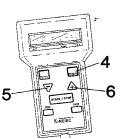
NOTE

After 3 seconds the KINETEC 4071 will beep and the display will flash once to confirm that one of the operation settings has been modified.

Adjusting the FLEXION limit

Check that the switch (11) is in position





Modification of the FLEXION limit can be done in either the running or stopped position.

- Press the key



The display indicates | 10 FLEX

32 120

- Press

until the display indicates the desired FLEXION limit. *

- MINI : -4°

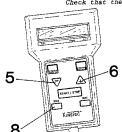
- MAXI : 120°

Adjusted in 1° increments.

NOTE

After 3 seconds the KINETEC 4071 will beep and the display will flash once to confirm that one of the operation settings has been modified.

^{*} The legend "5° LIMIT" will appear to indicate that the flexion limit is always 5° greater than the extension limit.



Check that the switch (11) is in position



n position

Modification of the SPEED can be done in either the running or stopped position.

- Press the key

The display indicates | 10 SPEED 65 90

- Press

until the display indicates the desired SPEED. *

- MINI : 20° per minute (°/m) - MAXI : 140° per minute (°/m) Adjusted in 15° increments.

NOTE

After 3 seconds the KINETEC 4071 will beep and the display will flash once to confirm that one of the operation settings has been modified.

Adjusting the PAUSE

This function allows the KINETEC 4071 to stop at the extension limit and indicates to the stimulator (not included) via the connection (12) (Fig.5 page 5) that it can operate.

Check that the switch (11) is in position



Modification of the PAUSE can be done in either the running or stopped position.

- Press the key

The display indicates | 10 PAUSE 90

- Press

until the display indicates the desired PAUSE. *

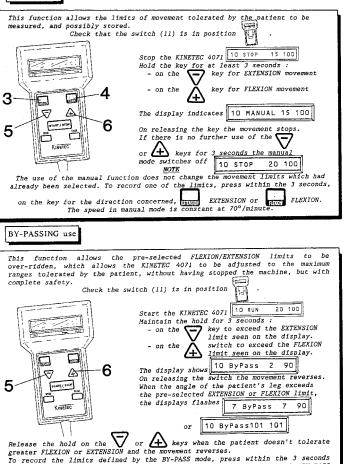
- MINI : 5 seconds - MAXI : 900 seconds

Adjusted in 5 seconds increments.

When the PAUSE is actived, the display indicates 10 PAUSE The time of the PAUSE counts in seconds.

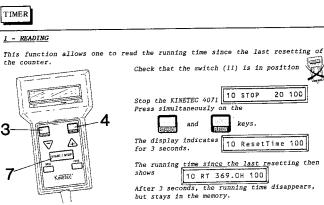
After 3 seconds the KINETEC 4071 will beep and the display will flash once to confirm that one of the operation settings has been modified.

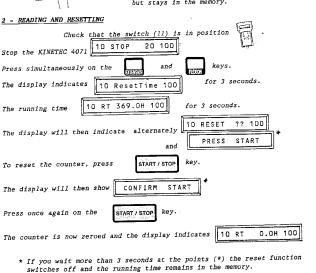
MANUAL use



on the switch for the direction concerned. If not, after 3 seconds the BY-PASS

mode switches off without changing the limits of movements.

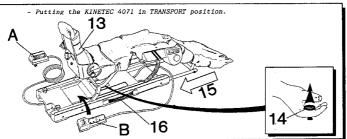




ΙV USING THE KINETEC 4071

TRANSPORT position

The KINETEC 4071 is "TELESCOPIC"? which allows it to be shortened for transport.



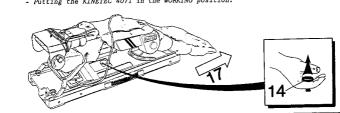
- Adjust the KINETEC 4071 to its smallest size. (mimi femur)
- Stop the machine at 40° of flexion.
- Swich off and unplug the transformer (A).
- Put the transformer (A) within the footpad (13) and wrap the cable around the footplate.
- Fold the footplate flat.
- Pull button (14).
- Slide the leg support (15) in the direction of arrow.
- Attach the handcontrol (B). (Velcro)
- Always use the carrying handle (16) for lifting the KINETEC 4071.

IMPORTANT

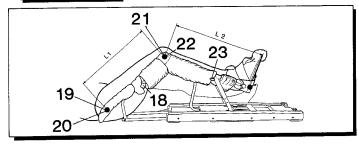
DO NOT START THE KINETEC 4071 IN THE TRANSPORT POSITION

WORKING position

- Putting the KINETEC 4071 in the WORKING position.



- Pull button (14).
- Slide the leg supports (17) out in the direction of the arrow.



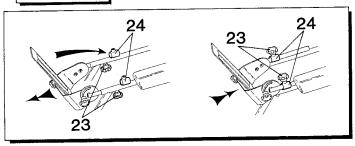
- Place the KINETEC 4071 between 40° and 90° of FLEXION.

IMPORTANT

ADJUST THE AXIS THE KNEE (21) WITH THE 4071 CPM
AXIS OF ROTATION (20) AND (22).

- Measure the length of the patient's femur (L1).
- Loosen the 2 knobs (18).
- Adjust the length (L1) on the unit (MINI : 30 cm, 11,8 inch) (MAXI : 55 cm, 21,7 inch)
- Tighten the 2 knobs (18).
- Measure the length of the patient's tibia (L2).
- Loosen the 2 knobs (23).
- Adjust the length (L2) on the unit (MINI : 32 cm, 12,6 inch) (MAXI : 50 cm, 19,7 inch)
- Tighten the 2 knobs (23).

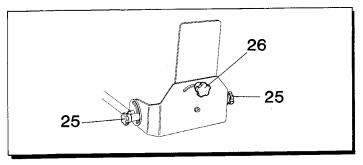
Setting up for a child



- Loosen and remove the 2 buttons (23).
- Remove the footplate and slide it into the 2 tubes (24).
- Put the 2 buttons (23) into the 2 tubes (24) and tighten them. Adjustment for the child's leg is carried out as for the adult leg.

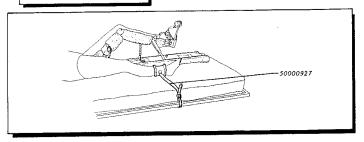
Positionning of the foot plate

The articulated footplate allows the positioning of the foot from 40° in PLANTAR FLEXION to 20° in DORSIFIEXION and 30° in EXTERNAL OR INTERNAL ROTATION.



- 1. To get the foot in DORSIFLEXION or PLANTAR FLEXION :
 - Loosen the 2 knobs (25).
 - Set the position of the foot.
 - Tighten the 2 knobs (25).
- 2. To get the foot in EXTERNAL or in INTERNAL ROTATION :
 - Loosen the knob (26).
 - Set the position of the foot.
 - Tighten the knob (26).

Protection of the opposite foot

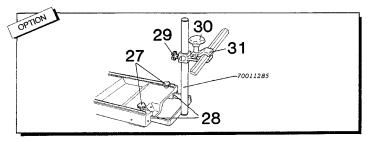


EXTRA SAFETY

When using the machine in bed it is recommended to restrain the opposite foot so that it does not impede the correct working of the KINETEC 4071. Use the strap supplied with the machine for this purpose. Order number for a replacement strap: 50000927.

Clamp for the foot-end of the bed

The clamp for the foot-end of the bed allows the KINETEC 4071 to be quickly and firmly attached to the foot of the bed.

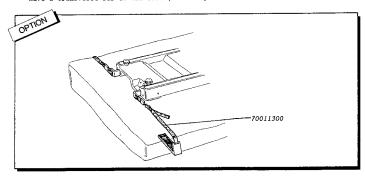


- Unscrew the 2 buttons (27).
- Slide the 2 arms of the clamp into the 2 holes (28)
- Re-tighten the 2 buttons (27).
- Unscrew the button (29) and the knob (30).
- Place the clamp (331) on the crossbar of the foot-end of the bed.
- Re-tighten the knob (30) and the button (29).

Order number for the clamp for the foot of the bed : 70011285.

Fixation straps (Home use)

The fixation straps allow the KINETEC 4071 to be fixed to a bed which does not have a transverse bar at the foot. (HOME BED)



Order number for the fixation straps of the bed : 70011300.

INSTRUCTIONS IN CASE OF A BREAKDOWN

After switching on the power supply to the KINETEC 4071 using the switch (2) (cf. Page 3):

- The KINETEC 4071 fails to operate, and if the handcontrol does not give any information :
 - Check the electrical connections.
 - Check at the mains socket that power supply is operational by using another electrical device.
- The KINETEC 4071 fails to operate, but the display indicate

15 STOP 25 120

- The KINETEC 4071 still fails to operate after that :
 - Return the machine to your nearest specialist.

GUARANTEE LIMITS

The KINETEC guarantee is strictly limited to free replacement or to repairs at the plant of the part or parts acknowledged as defective.

KINETEC guarantees is passive motion device for 1 year from the date of purchase by the consumer against any manufacturing defect.

KINETEC alone is qualified to judge as to the application of the guarantee on its device.

The guarantee cannot be applied if the apparatus has been subject to abnormal use or has been used in circumstances other than those stipulated in our user manual.

The guarantee will not be applied, either, in case of deterioration or accident due to negligence, lack of supervision or maintenance resulting from a transformation of the equipment or from an attempt to repair the equipment.