SAFETY RECOMMENDATIONS

- Before use, please read this document.

- The physician defines the protocol and ensures that it is correctly implemented (adjustments, session durations and frequency of use).

- We recommend that you lock the hand control when you give it to the patient.

- For optimum safety, always give the hand control to the patient before starting the system.

- Explosion hazard: KINETEC Centura is not designed for use in the presence of flammable anesthetics.

- Check that the electrical socket is in good condition and is suitable for the splint power supply cord. The latter complies with current standards and has a grounding socket. The plug may be connected to any standard socket. The socket must however have a grounded pin. To connect the power supply, only use the original cable supplied with the machine. Check that the cables remain free around the device so that they do not get damaged.

Manual №: 467896270 – Updated April 2002
KINETEC Centura – Series 2

KINETEC and Centura are trademark of AbilityOne.
DESCRIPTION

DEFINITION

The KINETEC Centura is a upper extremity PASSIVE mobilization device enabling the following movements:

- Extension 20°  Flexion 180°.
- Adduction 20°  Abduction 160°.
- Internal Rotation 60°  External Rotation 90°.
- Synchronized Abduction + Rotation
  Adduction 20°  Abduction 160°.
  Internal Rotation 30°  External Rotation 90°.
- Horizontal Abduction from −30° to 110° (available on Centura 5)

• Indications

- Total shoulder replacement.
- Repeated dislocation of the humerus.
- Rotator cuff injury.
- Upper humerus fractures.
- Scapula fractures.
- Acromioplasty.
- Capsulotomy.
- Arthrolysis.
- Synovectomy for Rheumatoid Arthritis.
- All type of shoulder stiffness joint.

• Clinical Benefits

- Breaks the cycle of trauma, inflammation and the loss of range of motion.
- Prevents joint stiffness.
- Speeds the recovery of post-operative range of motion.
- Maintains the quality of the articular surface.
- Reduces pain and edema.
- Promotes articular cartilage healing.
- Reduces hospitalization time.
- Reduces the need for pain medication.

• Contraindications

- Unstable fractures.
- Spastic paralyses.
- Uncontrolled infection.
- The machine are not adapted for patients height more 2m(6'7") or under 1.4m(4'7")
**DESCRIPTION**

**ELECTRICAL CONNECTION**

KINETEC Centura is a type B class I device. Before connecting the device to the power supply, check that the mains voltage matches that shown on the plate (100-240 V~/ 50-60 Hz) below switch ON (2).

Connect the power supply cable (1).

**IMPORTANT**

Check that the electrical socket is in good condition and is suitable for the splint power supply cord. The latter complies with current standards and has a grounding socket. The plug may be connected to any standard socket. The socket must however have a grounded pin. To connect the power supply, only use the original cable supplied with the machine. Check that the cables remain free around the device so that they do not get damaged.

The cables (motors and hand control) can be plugged in any of the connectors.

**Starting the unit**

Switch on (2). While the unit begins an auto diagnostic, the display shows the following:

- KINETEC CENTURA V3.0
- MOVEMENT VERIF. M1 M2
- disc / ext 50 STOP 15 100

Your KINETEC Centura is ready to be used.

**SAFETY**

The physician defines the protocol and ensures that it is correctly implemented (adjustments, session durations and frequency of use). The patient must know the start/stop/reverse function on the control handle. Hand control must be accessible to patient at all times. See page 8. KINETEC Centura complies with Directive 93/42/CEE and UL 2601.

**EXPLOSION HAZARD:**

KINETEC Centura is not designed for use in the presence of flammable anesthetics.

In case of electromagnetic interference with other devices move the device. KINETEC Centura is in compliance with standards in force (IEC 601.1.2), electromagnetic compatibility standard for medical devices.
KINETEC Centura consists of the following components:

1 - Chair
2 - Frame
3 - Wheels
4 - Transport handle
5 - Arm rest knobs
6 - Arm rest
7 - Hand control support

8 - Locking of the right/left sliding
9 - Locking of the up/down sliding
10 - Chair locking knob
11 - Locking of the abduction motor
12 - Abduction motor
13 - Shoulder depth sliding lock
### Description

**Abduction associated with rotation splint**

- 14 – Arm length setting lock
- 15 – 90° elbow splint
- 16 – 90°elbow splint lock
- 17 – Rotation motor
- 18 – Rotation motor lock
- 19 – Forearm length setting lock
- 20 – Forearm slider
- 21 – Right/left bean swivel lock
- 22 – Forearm splint

**Abduction or flexion splint**

- 18 – Swiveling splint support lock
- 23 – Swiveling splint support
- 24 – Elbow flexion setting lock
- 25 – Arm splint
- 26 – Arm splint lock
- 27 – Forearm length setting lock

**Horizontal Abduction splint (available on Centura 5)**

- 28 – Horizontal abduction column
- 29 – Arm length setting lock
- 30 – Elbow splint support lock
- 31 – Elbow support older
- 32 – 90°elbow splint lock
- 33 – Forearm length setting lock
- 34 – Forearm slider
DESCRIPTION

1 – Supply cable connector switch
2 – Fuse
3 – ON/OFF switch
4 – Hand control lock switch
5 – Defect or power light
6 – Motor or hand control connectors
7 – Hand control location for transport
8 – Hand control

9 – Liquid-crystal display
10 – Flexion/extension
11 – Abduction/adduction
12 – Rotation
13 – Abduction/adduction synchronized with rotation
14 – Lower limits setting
15 – Upper limits setting
16 – Increase / decrease
17 – START
18 – STOP
19 – FORCE
20 – SPEED
21 – PAUSE
22 – TIMER
23 – PROGRAM access
24 – Horizontal abduction
ASSEMBLY & TRANSPORT

Base assembly

Remove all the components from their packaging.
Unscrew the chair locking knob (3).
Position the chair (1) on the base (2) with the back of the chair at the wheel and screw the chair locking knob (3) to secure it in place.

Place the elevation motor (4) on right or left, depending on the limb be moved.

The other components to be used depend on the selected movement.

Unit transport

For easy transport of the unit, it features 2 wheels (5) and a handle (6).

Place the arm support as close as possible to the chair to limit the overall dimensions and help balance the unit.

Place your foot as indicated to balance the unit.

You can adjust the height of the handle with knob (7).
USE OF THE HAND CONTROL

Locking the hand control setting

The hand control allows the patient to control the machine as appropriate.

The switch (4) has 3 positions:

- **LOCKED POSITION (1)**
  
The operational settings can be read and the START/STOP/REVERSE function operated.

- **UNLOCKED POSITION (2)**
  
  All adjustments are possible.

- **HALF-LOCKED POSITION (4)**
  
  It is possible to switch the program and modify the upper and lower movement limits. The START/STOP/REVERSE function is always accessible.

**Double locking**

Simultaneously press the \( + \) and \( - \) keys to lock the hand control.

The display reads LOCK. To unlock the hand control, simultaneously press the same keys. The display reads UNLOCK.

You can not change the parameters, if you try the display reads:

- LOCK 1: if locked with only the switch (4)
- LOCK 2: if only double locked
- LOCK 12: if locked with the switch (4) and double locked.

**WARNING:**

We recommend that you lock the hand control when you give it to the patient.

**START/STOP/REVERSE function**

As with all KINETEC systems, KINETEC Centura is equipped with a START/STOP/REVERSE function.

When the unit is running, the display reads RUN.

Press the \( \text{stop} \) key of the hand control. The movement stops. The display reads STOP.

Press the \( \text{start} \) key of the hand control. The movement starts in the opposite direction and the display reads RUN.

**Caution:**

For optimum safety, always give the hand control to the patient before starting the system.
USE OF THE HAND CONTROL

Reset time function

This function allows one to read the running time since the last resetting of the counter.

<table>
<thead>
<tr>
<th>Beginning</th>
<th>Keys to press</th>
<th>Display</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>To stop the unit</td>
<td><img src="image" alt="stop" /></td>
<td><img src="image" alt="FLEX/EXT" /> 50 STOP 15 100</td>
<td>Check if the locking switch is in the following position <img src="image" alt="1" /> or <img src="image" alt="2" /></td>
</tr>
<tr>
<td>Press simultaneously on the 2 keys</td>
<td><img src="image" alt="limit" /> <img src="image" alt="reset" /></td>
<td><img src="image" alt="RESET TIME" /> 125H Reset: limit low</td>
<td>The display indicates the running time since the last resetting.</td>
</tr>
<tr>
<td>To reset the counter, press the key</td>
<td><img src="image" alt="limit" /></td>
<td><img src="image" alt="RESET TIME" /> 125H Reset is done</td>
<td>The counter is now reset.</td>
</tr>
<tr>
<td>Or After 5 seconds, the reset function switches off and the running time remains in the memory.</td>
<td><img src="image" alt="limit" /></td>
<td><img src="image" alt="FLEX/EXT" /> 50 STOP 15 100</td>
<td></td>
</tr>
</tbody>
</table>

How to choose a movement

First switch the machine off ![stop](image) and put the switch in the position in order to change the movement.

You can select a movement by pressing the appropriate button. The LED is on.

When a movement is first selected, the system returns to the original parameters of the movement (default settings).

Default settings:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Abduction</th>
<th>Flexion/Extension</th>
<th>Rotation</th>
<th>Abduction + Rotation</th>
<th>Horizontal abduction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower limit</td>
<td>30°</td>
<td>30°</td>
<td>0°</td>
<td>30°</td>
<td>0°</td>
</tr>
<tr>
<td>Upper limit</td>
<td>60°</td>
<td>100°</td>
<td>60°</td>
<td>100°</td>
<td>60°</td>
</tr>
<tr>
<td>Speed</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Load</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Extension pause</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Flexion pause</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Timer</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Possible values for each parameter:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Abduction</th>
<th>Flexion/Extension</th>
<th>Rotation</th>
<th>Abduction + Rotation</th>
<th>Horizontal abduction*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower limit</td>
<td>20° to 155°</td>
<td>20° to 175°</td>
<td>-60° to 85° extern</td>
<td>20° to 155°</td>
<td>-30° to 105°</td>
</tr>
<tr>
<td>Upper limit</td>
<td>25° to 160°</td>
<td>25° to 180°</td>
<td>-55° to 90° extern</td>
<td>25° to 160°</td>
<td>-25° to 110°</td>
</tr>
<tr>
<td>Speed</td>
<td>1 to 5 (from 30° to 120° per minute)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Load</td>
<td>1 to 6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Extension pause</td>
<td>0 to 900 seconds (15 minutes)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flexion pause</td>
<td>0 to 900 seconds (15 minutes)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Timer</td>
<td>No time (00H00) to 24H00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Available on Centura 5 or in option.
**USE OF THE HAND CONTROL**

How to adjust the parameters of single movements

<table>
<thead>
<tr>
<th>Beginning</th>
<th>Keys to press</th>
<th>Display</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>To stop the unit</td>
<td>🛑stop🛑</td>
<td>0 <strong>ROTATION</strong> &lt;br&gt; STOP 0 60</td>
<td>Check if the locking switch is in the following position:</td>
</tr>
<tr>
<td>To choose the movement</td>
<td>🛑add/abdw</td>
<td>30 <strong>Abd/add</strong>&lt;br&gt; STOP 90 90</td>
<td>The display shows the new movement selected and the default settings of the upper and lower limits of this movement.</td>
</tr>
<tr>
<td>Or</td>
<td>🛑Rotation</td>
<td>0 <strong>Rotation</strong>&lt;br&gt; STOP 0 60</td>
<td></td>
</tr>
<tr>
<td>Or</td>
<td>🛑flex/ext</td>
<td>30 <strong>FLEX/EXT</strong>&lt;br&gt; STOP 89 100</td>
<td>The display shows &quot;not available&quot; if you don't have the horizontal abduction module.</td>
</tr>
<tr>
<td>Or</td>
<td>🛑abd hor</td>
<td>30 <strong>ABD HOR</strong>&lt;br&gt; STOP 50 60</td>
<td></td>
</tr>
<tr>
<td>To display the lower limit of the movement</td>
<td>🔼lim</td>
<td>30 <strong>FLEX/EXT</strong>&lt;br&gt; STOP 89 100</td>
<td>The value blinks.</td>
</tr>
<tr>
<td>To change the lower limit if necessary</td>
<td>🔼or ◼️</td>
<td>50 <strong>FLEX/EXT</strong>&lt;br&gt; STOP 89 100</td>
<td>The new value blinks.</td>
</tr>
<tr>
<td>To validate the new value, press another key or wait more than 3 seconds</td>
<td>🔼limit&lt;br&gt; timer&lt;br&gt; speed&lt;br&gt; force</td>
<td>50 <strong>FLEX/EXT</strong>&lt;br&gt; STOP 89 100</td>
<td>While the value blinks press the 🔼or ◼️key to change if necessary.</td>
</tr>
<tr>
<td>Or to display pause</td>
<td>🛑pause</td>
<td>50 <strong>FLEX/EXT</strong>&lt;br&gt; PAUSE HIGH 95</td>
<td>The pause value in upper limit of movement blinks.</td>
</tr>
<tr>
<td>To change pause value in upper limit of movement if necessary</td>
<td>🔼 Or ◼️</td>
<td>50 <strong>FLEX/EXT</strong>&lt;br&gt; PAUSE HIGH 95</td>
<td>The new pause value in upper limit of movement blinks.</td>
</tr>
<tr>
<td>To validate and display the pause value in lower limit of movement</td>
<td>🛑pause</td>
<td>50 <strong>FLEX/EXT</strong>&lt;br&gt; PAUSE LOW 95</td>
<td>The pause value in lower limit of movement blinks.</td>
</tr>
<tr>
<td>To change the pause value in lower limit of movement if necessary</td>
<td>🔼 Or ◼️</td>
<td>50 <strong>FLEX/EXT</strong>&lt;br&gt; PAUSE LOW 95</td>
<td>The new pause value in lower limit of movement blinks.</td>
</tr>
<tr>
<td>To validate the new value press another key or wait more than 3 seconds. The display shows the selected movement.</td>
<td>🛑flex/ext</td>
<td>30 <strong>FLEX/EXT</strong>&lt;br&gt; STOP 89 100</td>
<td>The unit is ready to start with the new parameters.</td>
</tr>
</tbody>
</table>
USE OF THE HAND CONTROL

How to set the synchronized movement parameters

<table>
<thead>
<tr>
<th>Beginning</th>
<th>Keys to press</th>
<th>Display</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>To stop the unit</td>
<td>stop</td>
<td>FLEX/EXT 50 STOP 15 100</td>
<td>Check if the locking switch is in the following position.</td>
</tr>
<tr>
<td>To select the combined</td>
<td></td>
<td>SYNC ABD ROT 30 STOP 5 100</td>
<td>The indication “ABD” blinks and the display shows the values for the</td>
</tr>
<tr>
<td>movement</td>
<td>+</td>
<td></td>
<td>abduction movement. To change it, proceed as for a single movement.</td>
</tr>
<tr>
<td>To press a second time on</td>
<td>+</td>
<td>SYNC ABD ROT 0 STOP 0 60</td>
<td>The indication “ROT” blinks and the display shows the values for the</td>
</tr>
<tr>
<td>the key</td>
<td></td>
<td></td>
<td>rotation movement. To change it, proceed as for a single movement.</td>
</tr>
</tbody>
</table>

Synchronization rules:
- The degrees of rotation are lower than or equal to the degrees of abduction.
- 1° of abduction means 1° of rotation.
- When the degrees of rotation are lower than the degrees of abduction, the synchronization applies to the upper degrees of the movement.

Example: abduction from 30° to 100°
rotation from 50° to 90°

![Abduction and Rotation Synchronization Diagram]

Comments:
- Speed, load, pauses and timer are the same for both of the movement components. The setting is the same as for a single movement.
- Pauses can be set at the lower and/or the upper limits of the abduction movement.
- You will have successive displays of abduction movement limits, or associated rotation movement, by repeatedly pressing the synchronized movement button.
- You cannot change the settings while the machine is running.
USE OF THE HAND CONTROL

Using Programs

The KINETEC Centura allows you to store up to 16 programs, including the type of movement, ROM, speed, load, pauses and timer.

The original parameter values of the program are empty. These values can be modified and recorded at any time (see 'How to enter a program' p 14).

To select a program:

<table>
<thead>
<tr>
<th>Beginning</th>
<th>Keys to press</th>
<th>Display</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>To stop the unit</td>
<td>stop</td>
<td>FLEX/ext STOP 89 100</td>
<td>Check if the locking switch is in the following position: □ or □</td>
</tr>
<tr>
<td>To access the program mode</td>
<td>program</td>
<td>PROGRAM EMPTY</td>
<td>The program number blinks.</td>
</tr>
<tr>
<td>To change the program if necessary</td>
<td>or</td>
<td>PROGRAM 3 ROTATION 90</td>
<td>The new program number blinks.</td>
</tr>
<tr>
<td>To exit and validate the selected program</td>
<td>start</td>
<td>ROTATION 0 STOP 0 60</td>
<td>The current parameters have been recorded in program 3.</td>
</tr>
<tr>
<td>To exit without validation of selected program</td>
<td>stop</td>
<td>FLEX/ext STOP 89 100</td>
<td>Back to the starting parameters.</td>
</tr>
<tr>
<td>Start the unit</td>
<td>start</td>
<td>FLEX/ext RUN 89 100</td>
<td>The value change at the speed of the movement.</td>
</tr>
</tbody>
</table>

Comments:
• The values show in the 'Display' column are examples. They actually depend on the stored programs.
• The current movement parameters can be changed while using that program but no data will be stored in the original program. See the programming mode (p 14) to modify programs.
## USE OF THE HAND CONTROL

**Reading the values of a program: example SPEED**

<table>
<thead>
<tr>
<th>Beginning</th>
<th>Keys to press</th>
<th>Display</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>To stop the unit</td>
<td>stop</td>
<td>![Rotation 90°]</td>
<td>Check if the locking switch is in the following position:</td>
</tr>
<tr>
<td>To access the program mode</td>
<td>program</td>
<td>![Program 90°]</td>
<td>The program number blinks.</td>
</tr>
<tr>
<td>To change the program if necessary</td>
<td>+ or -</td>
<td>![Program 3]</td>
<td>The new program number blinks.</td>
</tr>
<tr>
<td>To read the speed value</td>
<td>speed</td>
<td>![Program 3]</td>
<td>Displaying the speed value.</td>
</tr>
<tr>
<td>After 15 seconds or after pressing on another key</td>
<td></td>
<td>![Program 3]</td>
<td></td>
</tr>
<tr>
<td>To exit and validate the selected program</td>
<td>start</td>
<td>![Rotation 90°]</td>
<td>The current parameters have been recorded in program 3.</td>
</tr>
<tr>
<td>Start the unit</td>
<td>start</td>
<td>![Rotation 90°]</td>
<td>The value change at the speed of the movement.</td>
</tr>
</tbody>
</table>

**Comments:**

- The values showed in the 'Display' column are examples. They actually depend on the stored programs.

- The current movement parameters can be changed while using that program but no data will be stored in the original program. See the programming mode (p 14) to modify programs.
## USE OF THE HAND CONTROL

### How to modify programs PROGRAM MODE:

<table>
<thead>
<tr>
<th>Beginning</th>
<th>Keys to press</th>
<th>Display</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>To switch off the unit</td>
<td></td>
<td>KINETEC CENTURA V3.0</td>
<td>Check if the locking switch is in the following position: ?</td>
</tr>
<tr>
<td>To press the two keys at the same time to switch the unit on</td>
<td></td>
<td>PROGRAM EMPTY 1</td>
<td>Welcome text during 3 seconds.</td>
</tr>
<tr>
<td>Then</td>
<td></td>
<td>PROGRAM EMPTY</td>
<td>The program number blinks.</td>
</tr>
<tr>
<td>To change the program if necessary</td>
<td></td>
<td>PROGRAM EMPTY 10</td>
<td>The new program number blinks.</td>
</tr>
<tr>
<td>To choose the movement</td>
<td></td>
<td>PROGRAM 30 ABD ADD 10 90</td>
<td></td>
</tr>
<tr>
<td>Or</td>
<td></td>
<td>PROGRAM 0 ROTATION</td>
<td>The display indicates the selected movement, the program number blinks again.</td>
</tr>
<tr>
<td>Or</td>
<td></td>
<td>PROGRAM 30 FLEX EXT 10 90</td>
<td></td>
</tr>
<tr>
<td>Or</td>
<td></td>
<td>PROGRAM 30 SYNC ABD 10 90</td>
<td></td>
</tr>
<tr>
<td>Or</td>
<td></td>
<td>PROGRAM 30 ABD HOR 10 90</td>
<td>The display shows &quot;not available&quot; if you don't have the horizontal abduction module.</td>
</tr>
<tr>
<td>To display the lower limit of the movement</td>
<td></td>
<td>PROGRAM 30 SYNC ABD 10 100</td>
<td>The value blinks.</td>
</tr>
<tr>
<td>To change the lower limit of the movement if necessary</td>
<td></td>
<td>PROGRAM 30 SYNC ABD 10 100</td>
<td>The new value blinks.</td>
</tr>
<tr>
<td>To validate the new value, press another key</td>
<td></td>
<td>PROGRAM 50 SYNC ABD 10 100</td>
<td>The value blinks. Press the  or  key to change if necessary.</td>
</tr>
<tr>
<td>Or display pauses</td>
<td></td>
<td>PROGRAM PAUSE HIGH 0</td>
<td>The pause value in upper limit of movement blinks.</td>
</tr>
<tr>
<td>To change pause value in upper limit of movement if necessary</td>
<td></td>
<td>PROGRAM PAUSE HIGH 10</td>
<td>The new pause value in upper limit of movement blinks.</td>
</tr>
</tbody>
</table>
# USE OF THE HAND CONTROL

## How to modify programs PROGRAM MODE (continued)

<table>
<thead>
<tr>
<th>Beginning</th>
<th>Keys to press</th>
<th>Display</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>To validate and display the pause lower limit of movement</td>
<td>pause</td>
<td>PROGRAM PAUSE low 0</td>
<td>The pause value in lower limit of movement blinks.</td>
</tr>
<tr>
<td>To change the pause lower limit of movement if necessary</td>
<td>+ or -</td>
<td>PROGRAM PAUSE low 20</td>
<td>The new pause value in lower limit of movement blinks.</td>
</tr>
<tr>
<td>To validate and display of the combined rotation setting</td>
<td>+</td>
<td>PROGRAM 10 sync rot 60</td>
<td>The program number blinks and the display indicates the rotation values combined with abduction.</td>
</tr>
<tr>
<td>To change the lower limit of the movement</td>
<td>+ limit</td>
<td>PROGRAM 10 sync rot 60</td>
<td>The value blinks.</td>
</tr>
<tr>
<td>To change the lower limit if necessary</td>
<td>+ or -</td>
<td>PROGRAM 10 sync rot 60</td>
<td>The new value blinks.</td>
</tr>
<tr>
<td>To validate and display the upper limit of the movement</td>
<td>- limit</td>
<td>PROGRAM 10 sync rot 60</td>
<td>The value blinks.</td>
</tr>
<tr>
<td>To change the upper limit if necessary</td>
<td>+ or -</td>
<td>PROGRAM 10 sync rot 75</td>
<td>The new value blinks. (see page 11 for more information about combined movement)</td>
</tr>
<tr>
<td>To record the program 10</td>
<td>program</td>
<td>PROGRAM 10 Save: + clear: -</td>
<td></td>
</tr>
<tr>
<td>Then</td>
<td>+</td>
<td>PROGRAM Saving 10</td>
<td>The program 10 has been recorded and the display indicates the next program so you can change another program.</td>
</tr>
<tr>
<td>OR</td>
<td>-</td>
<td>PROGRAM empty 11</td>
<td>The program 10 has been cancelled and the display indicates the next program so you can change another program.</td>
</tr>
<tr>
<td>To cancel the program</td>
<td></td>
<td>PROGRAM clearing empty 11</td>
<td></td>
</tr>
<tr>
<td>To exit program mode, switch off and switch on the unit</td>
<td></td>
<td>KINETEC CENTURA V3.0</td>
<td>To use the modified program see page 12.</td>
</tr>
</tbody>
</table>
USE OF THE HAND CONTROL

Comments:

- When a program has been deleted, the display shows "PROGRAM EMPTY".
- The values shown in the 'Display' column are examples. They actually depend on the stored programs.

Program table:

<table>
<thead>
<tr>
<th>Program number</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Movement type</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Lower limit</td>
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<td></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper limit</td>
<td></td>
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<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Speed</td>
<td></td>
<td></td>
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<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Load</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pause on upper limit</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pause on lower limit</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Timer</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
USE OF THE HAND CONTROL

How to define the upper and lower movement limits

**At the start of a session**

The MANUAL MODE is a way to set within the tolerance of a patient at the beginning of a session.

Proceed as below:

<table>
<thead>
<tr>
<th>Beginning</th>
<th>Keys to press</th>
<th>Display</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Switch the unit on</td>
<td>OI</td>
<td><img src="image-url" alt="Image" /></td>
<td>Check if the locking switch is in the following position or</td>
</tr>
<tr>
<td>To select the MANUAL MODE for upper limits by continually holding pressure on the key</td>
<td><img src="image-url" alt="Image" /></td>
<td>FLEX/EXT 50 MANUAL 15 100</td>
<td>The unit is moving to the upper limit of the movement.</td>
</tr>
<tr>
<td>To set the pain level when reached, immediately press</td>
<td><img src="image-url" alt="Image" /></td>
<td>FLEX/EXT 50 MANUAL 150 150</td>
<td>The new upper value limit of the movement is recorded.</td>
</tr>
<tr>
<td>To select the manual mode for lower limits</td>
<td><img src="image-url" alt="Image" /></td>
<td>FLEX/EXT 50 MANUAL 100 150</td>
<td>The unit is moving to the lower limit of the movement</td>
</tr>
<tr>
<td>To set the pain level when reached, immediately press</td>
<td><img src="image-url" alt="Image" /></td>
<td>FLEX/EXT 25 MANUAL 25 150</td>
<td>The new lower value limit of the movement is recorded.</td>
</tr>
<tr>
<td>To start the session with the new movement limits</td>
<td><img src="image-url" alt="Image" /></td>
<td>FLEX/EXT 25 run 30 150</td>
<td>The angle display changes with current movement.</td>
</tr>
</tbody>
</table>

**Specific rules for synchronized movement:**
- You can only change the upper limit of the movement through the manual mode and only beyond the synchronization point.

**Comments:**
- The values shown in the 'Display' column are examples. They actually depend on the stored programs.
USE OF THE HAND CONTROL

**During the session**

The BY-PASS MODE is a way to record the pain threshold of a patient during a session.

<table>
<thead>
<tr>
<th>Beginning</th>
<th>Keys to press</th>
<th>Display</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>The unit is running</td>
<td>start</td>
<td>FLEX/EXT 25 RUN 30 150</td>
<td>The angle display changes with current movement. Check if the locking switch is in the following position: ⬇️ or ⬆️</td>
</tr>
<tr>
<td>To select the BY-PASS MODE</td>
<td></td>
<td>FLEX/EXT 25 BYPASS 160 150</td>
<td>The unit exceeds the recorded upper limit.</td>
</tr>
<tr>
<td>To set the new pain level when reached,</td>
<td></td>
<td>FLEX/EXT 25 BYPASS 160 160</td>
<td>The new upper value limit of the movement is recorded.</td>
</tr>
<tr>
<td>immediately press</td>
<td></td>
<td>FLEX/EXT 25 BYPASS 20 160</td>
<td>The unit is moving to the lower limit of the movement.</td>
</tr>
<tr>
<td>To select the BY-PASS mode for lower limits</td>
<td></td>
<td>FLEX/EXT 25 BYPASS 20 160</td>
<td>The new lower value limit of the movement is recorded.</td>
</tr>
<tr>
<td>To set the new pain level when reached,</td>
<td></td>
<td>FLEX/EXT 20 BYPASS 50 60</td>
<td>The angle display changes with current movement.</td>
</tr>
<tr>
<td>immediately press</td>
<td></td>
<td>FLEX/EXT 20 BYPASS 20 160</td>
<td></td>
</tr>
<tr>
<td>Continue the session with the new movement</td>
<td></td>
<td>FLEX/EXT 20 BYPASS 50 60</td>
<td></td>
</tr>
<tr>
<td>limits.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Specific rules for synchronized movement:**

- You can only change the upper limit of the movement through the manual mode and only beyond the synchronization point.

**Comments:**

- The values shown in the 'Display' column are examples. They actually depend on the stored programs.
INSTRUCTIONS FOR USE

How to use the pads

KINETEC Centura is delivered with 7 straps:
Part number to order the complete set: 4650001397

- 4 straps on the abduction combined with the rotation or horizontal abduction splint.

- 3 straps on the abduction or flexion splint.

All these straps are used the same way (see pictures).

Do not tighten the straps too much.

To meet optimal hygiene, clean the straps after each patient.
INSTRUCTIONS FOR USE

Patient set up

Make sure the straps are clean.
Put the unit in the position that is the most comfortable for the patient.

Position the patient in the chair in a comfortable position and supporting the affected arm.
Slide the arm supports toward the patient and put the arm in the supports.
Secure pads.
Adjust the lengths:
a - arm
b - forearm.

Adjusting the shoulder joint axis

c – Vertical adjustment:
• Loosen the 2 knobs (1).
• With the handle (2), adjust the height of the entire mechanism.
• Tighten the 2 knobs (1).
d – Side to side adjustment:
• Loosen the knob (3)
• Slide the entire mechanism
• Tighten the knob (3)
e – Scapula plan choice
• Loosen the knob (4)
• Rotate the arm support
• Tighten the knob (4)
• Adjust the arm rest.

Starting the unit

• Adjustment of the rotation position:
  - Press and find the right position with the MANUAL MODE (see page 17)

• Choice of the abduction/adduction motion:
  - Press and adjust your parameters (see page 10).
  - Or select a program (see page 12).
INSTRUCTIONS FOR USE

Adjustments for ABDUCTION/ADDITION
with fixed ELBOW EXTENSION / FLEXION

The KINETEC Centura provides motion from 20° to 160° of abduction.

During this motion the elbow flexion settings are fixed.

Parts needed

- Chair
- Abduction or flexion splint
- Hand control

Assembling the parts

A

2 1

Loosen the knob (1) and slide the motor support (2) to the right or the left. Plug in the hand control.

B

3

Assemble the abduction motor (3) and tighten the screw (4). Plug in the motor.

C

5

Use the color code to assemble the forearm splint (red for right, blue for left). The assembly is secure when you hear a "click."

D

7 6

Use the color code to assemble the forearm splint (7). Tighten the knob (6).

E

8

Position arm splint (8). The assembly is secure when you hear a "click."

F

The KINETEC Centura is shown assembled for left shoulder mobilization.
INSTRUCTIONS FOR USE

Patient set up

Make sure the straps are clean.
Put the unit in the position that is the most comfortable for the patient.

Position the patient in the chair in a comfortable position and supporting the affected arm.

Slide the arm supports toward the patient and put the arm in the supports.
Secure pads.

Adjust the lengths:
- arm
- forearm.

Adjusting the shoulder joint axis

- Vertical adjustment:
  - Loosen the 2 knobs (1).
  - With the handle (2), adjust the height of the entire mechanism.
  - Tighten the 2 knobs (1).

- Side to side adjustment:
  - Loosen the knob (3)
  - Slide the entire mechanism
  - Tighten the knob (3)

- Scapula plan choice
  - Loosen the knob (4)
  - Rotate the arm support
  - Tighten the knob (4).
  - Adjust the arm rest.

Starting the unit

- Adjustment of the elbow flexion position:
  - Unscrew the knob (6) and adjust the flexion as appropriate.

- Choice of the abduction/adduction motion:
  - Press [ ] and adjust your parameters (see page 10)

  - Or select a program [program] (see page 12).
INSTRUCTIONS FOR USE

Adjustments for ABDUCTION/ADDUCTION with ASSOCIATED ROTATION

The KINETEC Centura provides motion from 20° to 160° of abduction associated with 120° of rotation in maximum.

Parts needed
- Chair
- Abduction with associated rotation splint
- Hand control

Assembling the parts

A
Loosen the knob (1) and slide the motor support (2) to the right or the left. Plug in the hand control.

B
Assemble the abduction motor (3) and tighten the screw (4). Plug in the motor.

C
Use the color code to assemble the rotation motor (red for right, blue for left). The assembly is secure when you hear a 'click'. Plug in the motor.

D
Use the color code to assemble the elbow splint (6). The assembly is secure when you hear a 'click'.

E
Use the color code to assemble the forearm splint (7). Tighten the knob (8).

F
The KINETEC Centura is shown assembled for left shoulder mobilization.
INSTRUCTIONS FOR USE

Patient set up

Make sure the straps are clean.
Put the unit in the position that is the most comfortable for the patient.

Position the patient in the chair in a comfortable position and supporting the affected arm.
Slide the arm supports toward the patient and put the arm in the supports.
Secure pads.

Adjust the lengths:
a - arm
b - forearm.

Adjusting the shoulder joint axis

- Vertical adjustment:
  - Loosen the 2 knobs (1).
  - With the handle (2), adjust the height of the entire mechanism.
  - Tighten the 2 knobs (1).

- Side to side adjustment:
  - Loosen the knob (3)
  - Slide the entire mechanism
  - Tighten the knob (3)

- Scapula plan choice
  - Loosen the knob (4)
  - Rotate the arm support
  - Tighten the knob (4).
- Adjust the arm rest.

Starting the unit

- Choice of the abduction/adduction associated with rotation motion:
  - Press [e adduct] and adjust your parameters (see page 11).
  - Or select a program [program] (see page 12).
The KINETEC Centura provides motion from 60° of internal rotation to 90° of external rotation.

During this motion the abduction settings are fixed.

**Parts needed**
- Chair
- Abduction rotation splint
- Hand control

**Assembling the parts**

**A**
Loosen the knob (1) and slide the motor support (2) to the right or the left. Plug in the hand control.

**B**
Assemble the abduction motor (3) and tighten the screw (4). Plug in the motor.

**C**
Use the color code to assemble the rotation motor (red for right, blue for left). The assembly is secure when you hear a 'click'. Plug in the motor.

**D**
Use the color code to assemble the elbow splint (6). The assembly is secure when you hear a 'click'.

**E**
Use the color code to assemble the forearm splint (7). Tighten the knob (8).

**F**
The KINETEC Centura is shown assembled for left shoulder mobilization.
INSTRUCTIONS FOR USE

Patient set up

Make sure the straps are clean.
Put the unit in the position that is the most comfortable for the patient.

Position the patient in the chair in a comfortable position and supporting the affected arm.
Slide the arm supports toward the patient and put the arm in the supports.
Secure pads.
Adjust the lengths:
   a - arm
   b - forearm.

Adjusting the shoulder joint axis

c - Vertical adjustment:
   • Loosen the 2 knobs (1).
   • With the handle (2), adjust the height of the entire mechanism.
   • Tighten the 2 knobs (1).

d - Side to side adjustment:
   • Loosen the knob (3)
   • Slide the entire mechanism
   • Tighten the knob (3)

e - Scapula plan choice
   • Loosen the knob (4)
   • Rotate the arm support
   • Tighten the knob (4).
   • Adjust the arm rest.

Starting the unit

Adjustment of the abduction position:
   • Press and find the right position with the MANUAL MODE (see page 17)

• Choice of the rotation motion:
   • Press and adjust your parameters (see page 11).
   • Or select a program (see page 12).
INSTRUCTIONS FOR USE

Adjustments for EXTENSION / FLEXION

The KINETEC Centura provides motion from 20° to 180° of flexion.

During this motion the elbow flexion settings are fixed.

Parts needed

- Chair
- Abduction or flexion splint
- Hand control

Assembling the parts

A

Loosen the knob (1) and slide the motor support (2) to the right or the left.
Plug in the hand control.

B

Assemble the abduction motor (3) and tighten the screw (4).
Plug in the motor.

C

Use the color code to assemble the forearm support (red for right, blue for left).
The assembly is secure when you hear a 'click'.

D

Use the color code to assemble the forearm splint (6). Tighten the knob (7).

E

Position arm splint (8).
The assembly is secure when you hear a 'click'.

F

The KINETEC Centura is shown assembled for left shoulder mobilization.
INSTRUCTIONS FOR USE

Patient set up

Make sure the straps are clean.
Put the unit in the position that is the most comfortable for the patient.

Position the patient in the chair in a comfortable position and supporting the affected arm.

Slide the arm supports toward the patient and put the arm in the supports.
Secure pads.

Adjust the lengths:
a - arm
b - forearm.

Adjusting the shoulder joint axis

c – Vertical adjustment:
• Loosen the 2 knobs (1).
• With the handle (2), adjust the height of the entire mechanism.
• Tighten the 2 knobs (1).
d – Side to side adjustment:
• Loosen the knob (3)
• Slide the entire mechanism
• Tighten the knob (3).
e – Shoulder depth adjustment:
• Loosen the knob (4).
• Slide the entire mechanism.
• Tighten the knob (4).
f – Scapula plan choice
• Loosen the knob (5)
• Rotate the arm support
• Tighten the knob (5).

• Adjust the arm rest.

Starting the unit

• Choice of flexion/extension:
  - Press and adjust your parameters (see page 10).
  - Or select a program (see page 12).
INSTRUCTIONS FOR USE

Adjustments for HORIZONTAL ABDUCTION

Available on Centura 5 or in option, Contact your nearest KINETEC distributor.

The KINETEC Centura provides motion from -30° to 110° of horizontal abduction.

Parts needed:
- Chair
- Horizontal abduction splint
- Hand control

Assembling the parts

Assemble the horizontal abduction column to the unit. Use the colour code to turn the column in the right position. Fasten the screw.

Assemble the motor M1 to the column. You need to see the red point on the M1 part for a right side set up (blue for left). Several positions are possible to adjust the plan of the motion (horizontal to more or less inclined).

Insert the elbow support holder into the extremity of the M1 part. The required colour point (red for right and blue for left) needs to be positioned internally. For safety reason, this part cannot be removed from the lower part and must be so lifted when removed.

Insert the elbow splint into the elbow support holder respecting the colour code.
INSTRUCTIONS FOR USE

Patient set up

Make sure the straps are clean.
Put the unit in the position that is the most comfortable for the patient.

Position the patient in the chair in a comfortable position and supporting the affected arm.

Slide the arm supports toward the patient and put the arm in the supports.
Secure pads.

Adjust the lengths:
a - arm
b - forearm.

Adjusting the shoulder joint axis

c – Vertical adjustment:
  • Loosen the 2 knobs (1).
  • With the handle (2), adjust the height of the entire mechanism.
  • Tighten the 2 knobs (1).
d – Side to side adjustment:
  • Loosen the knob (3)
  • Slide the entire mechanism
  • Tighten the knob (3).
e – Shoulder depth adjustment:
  • Loosen the knob (4).
  • Slide the entire mechanism.
  • Tighten the knob (4).
f – Plan of the motion: from horizontal to inclined
  • Loosen the knob (5)
  • Rotate the arm support
  • Tighten the knob (5).

• Adjust the arm rest.

Starting the unit

• Choice of Horizontal abduction:
  - Press and adjust your parameters (see page 10).
  - Or select a program (see page 12).

Page 31
Options

Horizontal abduction Module

Seat height adjuster

Shoulder fixation

Head rest

Recharger

Scales kit

Transport bag
PRODUCT INFORMATION

MAINTENANCE
After 2,000 hours of operation, KINETEC Centura requires a few lubrication and maintenance operations (lubrication of the joints, pointer stops and ball screws). The need for maintenance is indicated by display of the message SERV. MOTOR when the system is switched on. Despite that warning, you can continue to use your KINETEC by pressing START, but you should contact your nearest KINETEC technician to have the maintenance operations conducted as soon as possible. When the system is no longer in operating order, kindly return it to us with the accessories for destruction.

TROUBLE SHOOTING
A spare parts list and technical catalog are available to you on request from your KINETEC distributor. If, after connecting the power supply cable to the power supply and switching on KINETEC Centura:
• The display does not indicate any information:
  - Check that the electrical socket is live using another device.
  - Replace the fuse(s) of the connector with fuses of the same type and caliber: 2 fuses T 750 mA 250V (6.3 x 32) (KINETEC order: 4610007434).
  - If the display still does not indicate any information, contact your nearest KINETEC technician.
If, after switching on your KINETEC:
• Your KINETEC does not work and the display indicates 50 STOP 25 115, Press START again.
• Your KINETEC still does not function:
  Contact your nearest KINETEC technician.
• Your KINETEC does not function and the display indicates:
  ANGULAR POSI.: angle measurement function failure,
  or NO MOVEMENT: no movement,
  or BAD WAY: motor rotation failure,
  or LOAD MAXI: abnormal consumption,
  or POWER SUPPLY: power failure;
Contact your nearest KINETEC technician if the same message is displayed after having switched the device off, then on, and started it by pressing START.

CLEANING
Before conducting any cleaning operation, SWITCH OFF the unit and disconnect the power supply.

Use a DISINFECTANT (PROPANOL/ISOPROPANOL or ALDEHYDE-based solution). Spray the disinfectant on the SURFACES (plastic shells and metal components).

In order to ensure optimal hygiene, you are advised to clean the covers for each new patient. All the consumables enable hazard-free disposal.

Recommendations to obtain a maximum hygiene of the pads:
• Sterilization of the pads (if necessary):
  Sterilizer at 134 °C during 18 minutes.
• Desinfection of the pads:
  Washing at 30 °C with use of a disinfection solution during the rising cycle. Example of product which can be used:
  Solution "Bactinge" at 0.125 % or "Souplanios" at 0.125% from ANIOS Laboratory.
  A complete list of distributors in your country is available on request.
### PRODUCT INFORMATION

#### TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Product</th>
<th>Electricity</th>
<th>Environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight: 22 Kg / 48lb</td>
<td>Power supply: 100-240 V-</td>
<td>- Storage/transport conditions:</td>
</tr>
<tr>
<td>Split dimensions: 56x100x76cm / 22&quot;x39.5&quot;x30&quot;</td>
<td>Frequency: 50-60 Hz</td>
<td>Temperature: 40 to 70°C / -40 to 160°F</td>
</tr>
<tr>
<td>Angular limits: see page 2</td>
<td>Power consumption: 50 VA</td>
<td>Relative humidity: up to 90%</td>
</tr>
<tr>
<td>Speeds: from 30 to 120/min</td>
<td>Device of type B class I</td>
<td>- Operating conditions:</td>
</tr>
<tr>
<td>Patient height: from 1.40 to 2m</td>
<td>IP 20</td>
<td>Room temperature: 10 to 40°C / 50 to 105°F</td>
</tr>
<tr>
<td>47&quot; to 67&quot;</td>
<td>Fuse T 750mA 250V 6.3x32mm</td>
<td>Relative humidity: up to 80%</td>
</tr>
<tr>
<td>KINETEC order: 4610007434</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### SYMBOLS USED

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🧘‍♂️</td>
<td>TYPE B device (protection against electric shocks)</td>
</tr>
<tr>
<td>⚠️</td>
<td>Caution (consult the accompanying documents)</td>
</tr>
<tr>
<td>⏹️</td>
<td>STOP (power off)</td>
</tr>
<tr>
<td>🔥</td>
<td>ON (power on)</td>
</tr>
<tr>
<td>🔄</td>
<td>Start movement</td>
</tr>
<tr>
<td>🟥</td>
<td>Stop movement</td>
</tr>
<tr>
<td>🐠</td>
<td>Program access</td>
</tr>
<tr>
<td>🚀</td>
<td>Speed</td>
</tr>
<tr>
<td>⌚️</td>
<td>Timer</td>
</tr>
<tr>
<td>🤏</td>
<td>Force</td>
</tr>
<tr>
<td>⏯️</td>
<td>Pause</td>
</tr>
<tr>
<td>🔹</td>
<td>Increase</td>
</tr>
<tr>
<td>🔴</td>
<td>Decrease</td>
</tr>
<tr>
<td>⬆️</td>
<td>Lower limit</td>
</tr>
<tr>
<td>⬇️</td>
<td>Upper limit</td>
</tr>
<tr>
<td>⬆️</td>
<td>Flexion movement</td>
</tr>
<tr>
<td>⬇️</td>
<td>Rotation movement</td>
</tr>
<tr>
<td>⬇️</td>
<td>Abduction movement</td>
</tr>
<tr>
<td>📚</td>
<td>Combined movement</td>
</tr>
<tr>
<td>🟠</td>
<td>Horizontal abduction movement</td>
</tr>
<tr>
<td>🚪</td>
<td>Hand control locked</td>
</tr>
<tr>
<td>🛡️</td>
<td>Hand control unlocked</td>
</tr>
<tr>
<td>▼</td>
<td>Hand control half locked</td>
</tr>
<tr>
<td>🔴</td>
<td>Switch on LED and defect signal when the LED blinks</td>
</tr>
<tr>
<td>~</td>
<td>Alternative current</td>
</tr>
</tbody>
</table>

### WARRANTY

The KINETEC warranty is strictly limited to the replacement free of charge or repair in the plant of the component or components found to be defective.

KINETEC guarantees its joint passive mobilization systems for 1 year against all defects of manufacture from the date of purchase by the consumer.

KINETEC is the only organization able to assess the application of the warranty to its systems.

The warranty will be considered null and void if the device has been used abnormally or under conditions of use other than those indicated in the user's manual.

The warranty will also be considered null and void in the event of deterioration or an accident due to negligence, inappropriate surveillance or inappropriate maintenance, or due to transformation of the equipment or an attempt to repair the equipment.
DECLARATION "CE" DE CONFORMITE
"EC" DECLARATION OF CONFORMITY

Nous AbilityOne Kinetec
(von du fabricant ou de son mandataire dans la Communauté Européenne)
(House of manufacturer or his representative established within the European Community)
Zone Industrielle de Tournes-Cîron - TOURNES - F 08090

déclarons sous notre seule responsabilité que le produit
declare on our own responsibility that product

KINETEC d'épaule CENTURA
SHOULDER KINETEC model CENTURA

(som, type ou modèle, (eventuellement n° de lot, d'égalisation ou de série, numéro et nombre d'exemplaires))
(Brand name, model, (N° of lot or series if necessary)

satisfait aux dispositions des Directives du Conseil :
complies with the assessment criteria of Council's Directives:
- n° 93/42/CEE du 14 juin 1993 - DISPOSITIFS MEDICAUX (selon l'annexe II)
- n° 93/42/CEE of June 14, 1993 - MEDICAL DEVICES (Annex II)
  obligatoire à partir du 14 Juin 1998 / mandatory date : June 14, 1998
- n° 89/336/CEE du 3 mai 1989 - COMPATIBILITE ELECTROMAGNETIQUE
- n° 89/336/CEE of May 3, 1989 - ELECTROMAGNETIC COMPATIBILITY
  obligatoire à partir du 1er janvier 1996 / mandatory date : January 1, 1996

et que le système qualité du fabricant est conforme aux normes ou autres documents normatifs suivants :
and the quality system of the manufacturer is in conformity with the following standard(s) :

EN 46001/96 - ISO 9001/94
Certificate n° 0214/46001/9001/1 established by Gmed on 15/10/97

Attestation de conformité à l'annexe II3 délivrée par le Gmed N°0214/B2P3/1

Information complémentaire :
Fiche Produit Centura du 04/04/2002
Additional information :
Product file Centura dated 04/04/2002

Année d'apposition du Marquage CE :
Year in which CE mark was affixed :

P. SONNET
Directeur Général / General Manager
(Numée, titre et signature du signataire autorisé)
(Name, function and sign of authorized person)

TOURNES, le 4 Avril 2002
Tournes, April 4th, 2002
(Lieu et date / place and date)
# SELECT YOUR LANGUAGE

<table>
<thead>
<tr>
<th>Beginning</th>
<th>Keys to press</th>
<th>Display</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Switch ON the unit</td>
<td></td>
<td>KINETEC CENTURA V3.0 VERIFICATION MVT ATTENDEZ S.V.P</td>
<td>Check if the locking switch is in the following position</td>
</tr>
<tr>
<td></td>
<td></td>
<td>VERIFICATION MVT MOTEUR: M1 M2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>FLEX/EXT 30 STOP 89 100</td>
<td></td>
</tr>
<tr>
<td>Press the 2 keys in the same time</td>
<td>speed force</td>
<td>Language FRENCH</td>
<td>The display indicate the language selected.</td>
</tr>
<tr>
<td>To change the language</td>
<td></td>
<td>Language ENGLISH</td>
<td>The English language is selected.</td>
</tr>
<tr>
<td>To validate the new language.</td>
<td></td>
<td>OK Switch on/off</td>
<td>To exit and confirm the new language, switch OFF and Switch ON the unit.</td>
</tr>
</tbody>
</table>

![GB](GB.png)

KINETEC

AbilityOne
Pads for Kinetec® Centura® Shoulder CPM Machine:
5315-0130

COMPONENTS
The following pads and straps (labeled at left) are included in the pad kit:
- a. elbow pad
- b. wrist pad
- c. hand strap
- d. biceps pad

- Components

Abduction/adduction
- Rotation
- Synchronized abduction/adduction with rotation

- Flexion/extension
- Hand strap and wrist pad attachment

SETTING UP THE MACHINE
Each set-up requires only some of the pads, as follows:
- Set-up for abduction/adduction requires pads a, b, and c.
- Set-up for rotation requires a, b, and c.
- Set-up for synchronized abduction/adduction with rotation requires a, b, and c.
- Set-up for flexion/extension requires b, c, and d.
Attach the pads and straps to the CPM machine as follows:
- **Elbow pad**: Position it in the elbow support with the seam distal and the straps and D-rings toward the elbow support. Thread the straps and D-rings through the slots in the elbow support.
- **Wrist pad**: Position it on the wrist support with the strap and D-ring toward the wrist support. Thread the strap and D-ring through the slots in the wrist support.
- **Hand strap**: Turn the hand support so the rod is up. With the hook material on the strap facing up, thread the D-ring end of the strap under the rod.
- **Biceps pad**: Position it on the biceps support with the strap and D-ring toward the biceps support. Thread the strap and D-ring through the slots in the biceps support.

After patient has been placed in the supports, secure straps by threading them through the D-rings and securing the hook closures. Be sure the straps are snug but not so tight that they impair circulation.

The pads are intended for single-patient use only.
EC CERTIFICATE

APPROVAL OF FULL QUALITY ASSURANCE SYSTEM
ANNEX II point 3 DIRECTIVE 93/42/EEC concerning medical devices

Device(s) category : Immobilization, mobilization and testing devices of the human joints
Identification of device(s) : See EC declaration of conformity of the manufacturer authenticated by G-MED
Manufacturer(name and address) : SMITH & NEPHEW - KINETEC S.A.
Zone Industrielle de Tournes - Cliron
BP 19
F - 08090 TOURNES
E.U. Responsible : SMITH & NEPHEW - KINETEC S.A.
Zone Industrielle de Tournes - Cliron
BP 19
F - 08090 TOURNES

The G-MED certifies that, on the basis of the results contained in the file referenced 30273304, the quality assurance system - for design, production and final inspection - of medical devices designated above is in conformance with the requirements of the directive 93/42/EEC, annex II point 3.

This certificate is valid until : November 12th, 2002 (included)

In compliance with clause 17, CE marking shall be accompanied by our identification number: 0459
This certificate is issued under the following conditions:
1. It is valid only to the designated devices listed above.
2. Copies are available upon request by the manufacturer.

G-MED General Manager

[Signature]