



C.E.M
Centura Elbow Module

The



CEM

concept



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SAFETY RECOMMENDATIONS

- The physician defines the protocol and ensures that it is correctly implemented (adjustments, session time 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 C.E.M. 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 N°467896292 - Update 03/11/05

Definition

The KINETEC C.E.M. is used for passive mobilization of the ELBOW and permits the Extension/Flexion from -10° to 135° with fixed pronation/supination, all in the abducted plane.

• Indications

- Intra-articular fractures of the Elbow with O.R.I.F.
- Metaphyseal fractures in Elbow area with O.R.I.F.
- Arthrolysis for post-traumatic stiffness with limitation of elbow joint motion.
- Release for extra-articular adhesions.
- Prosthetic Elbow joint replacement.
- Synovectomy of the Elbow.
- Arthrotomy and drainage of acute septic Elbow Joint

• Clinical Benefits

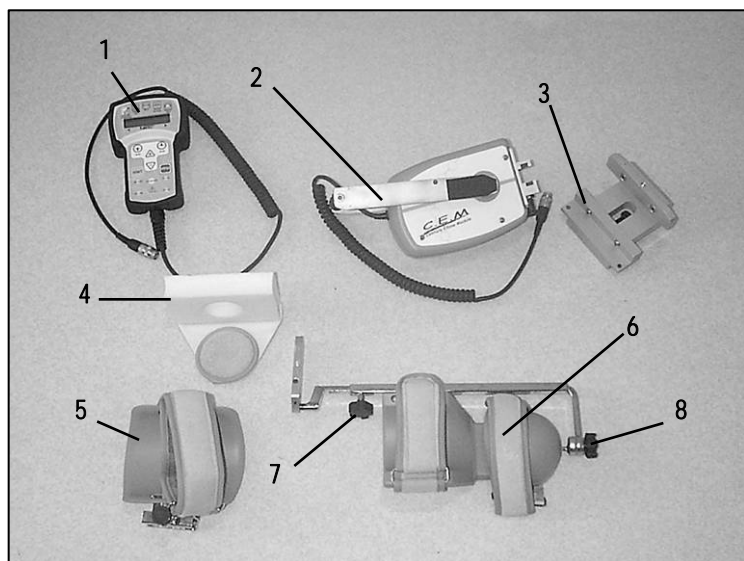
- Breaks the cycle of trauma, inflammation and the loss of range of motion.
- Prevents joint stiffness.
- Speeds the recovery of post-operative range of motion.
- Maintains the quality of the joint surface.
- Reduces pain and edema.
- Promotes joint cartilage healing.
- Reduces hospitalization time
- Reduces the need for pain medication.
- Provides immediate post-operative continuous passive motion.
- Digital ROM readout on the patient hand control for positive reinforcement.
- Maintains desired positions for stretching and muscular rest

• Contraindications

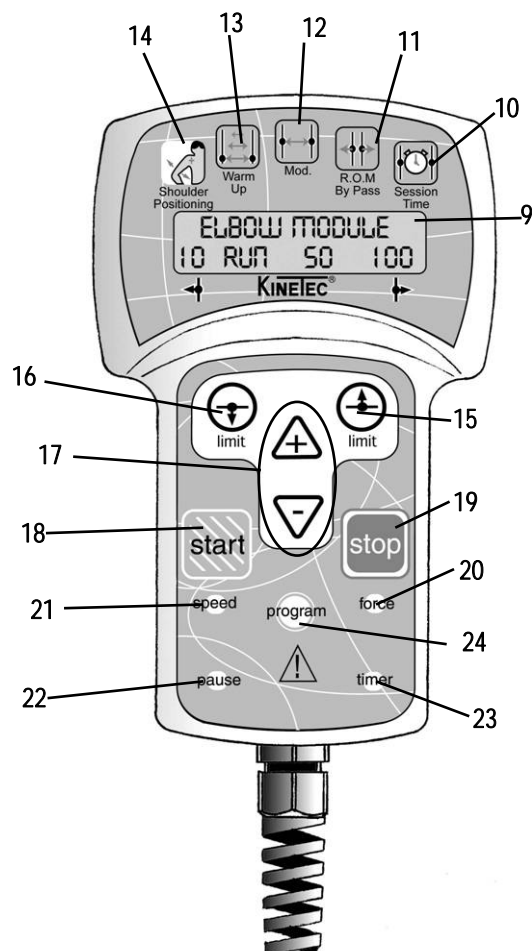
Bone Cancer, Warped joint surfaces, Spastic paralyses, Unstable fractures, Uncontrolled infection.

The Kinetec C.E.M. does not adapt to Centura Series 1 systems.
The C.E.M. can only be used with Kinetec Centura Series 2 or later.

It consists of the following components:



- 1 • Hand control
- 2 • Extension – Flexion motor
- 3 • Elbow motor support
- 4 • Elbow protection
- 5 • Arm splint
- 6 • Forearm splint
- 7 • Adjustment of the forearm length setting lock
- 8 • Adjustment of the Prono-Supination position setting lock



- 9 • Liquid-crystal display (2 lines of 16 characters)
- 10 • SESSION TIME display key
- 11 • BYPASS mode key
- 12 • MODULATION key
- 13 • WARM UP key
- 14 • Shoulder positioning key
- 15 • Upper limits setting
- 16 • Lower limits setting
- 17 • Increase / decrease keys
- 18 • START key
- 19 • STOP key
- 20 • FORCE key
- 21 • SPEED key
- 22 • PAUSE key
- 23 • TIMER key
- 24 • PROGRAM access key

Base assembly

Remove all the components from their packaging.

Assembling of the KINETEC Centura machine's useful parts:
(for more details, please refer to your KINETEC Centura's user manual)



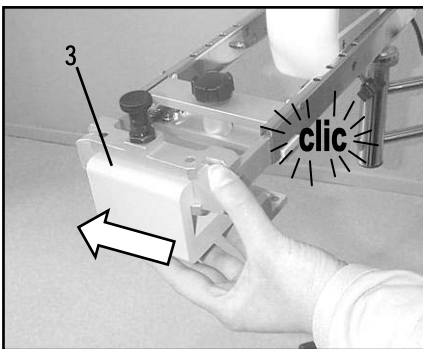
Position the base.



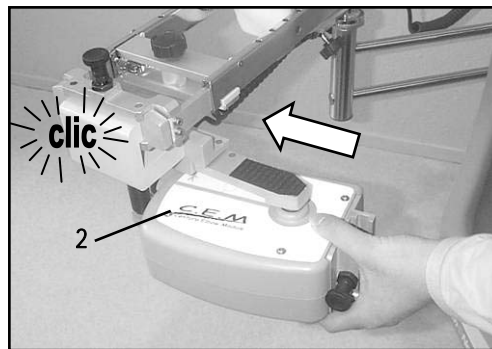
Position the chair on the base.



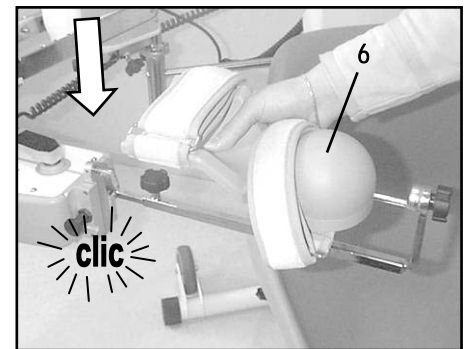
Place the abduction motor either left or right then the armrest.



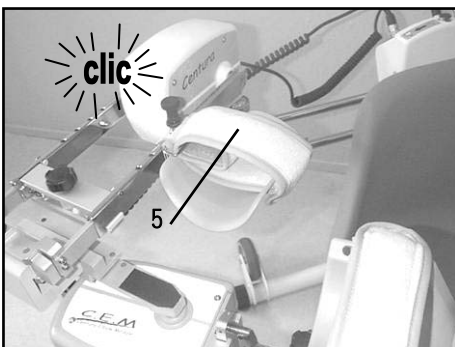
Position the elbow motor support (3).
Use the color code (blue for left and red for right). The assembly is secure when you hear a "click".



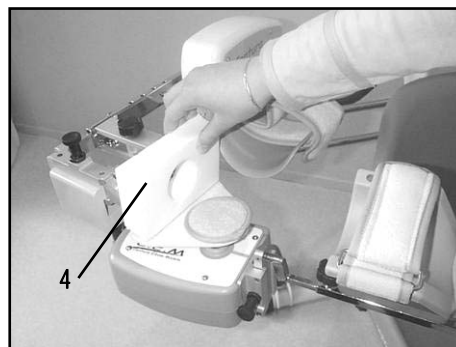
Position the elbow motor (2).
Use the color code.
The assembly is secure when you hear a "click".



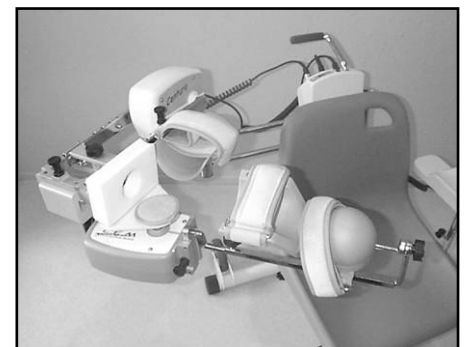
Position the forearm support (6)
The assembly is secure when you hear a "click".



Position the arm support (5).
The assembly is secure when you hear a "click".



Position the elbow protection (4).



The Kinetec C.E.M. is ready for an elbow mobilization
(this procedure indicate the assembling for the right elbow).

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

The first cycle of the movement need to be done without the patient.

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 7).

KINETEC C.E.M. complies with Directive 93/42/CEE.

EXPLOSION HAZARD:
KINETEC C.E.M. is not designed for use in the presence of flammable anesthetics.

In case of electromagnetic interference with other devices move the device.
KINETEC C.E.M. is in compliance with standards in force (IEC 601.1.2), electromagnetic compatibility standard for medical devices.
Please, do not touch the moving parts while the unit is running, pinching risk.

Electrical Connection

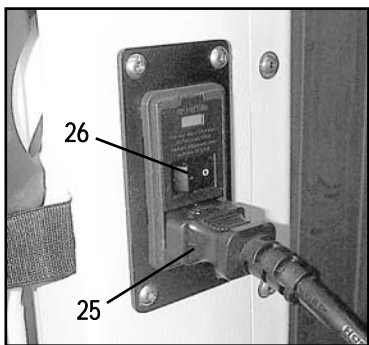
KINETEC C.E.M is a type B class I device.

Before connecting the device to the power supply, check that the mains voltage matches that shown on the identification plate (100-240 V~ 50-60Hz).

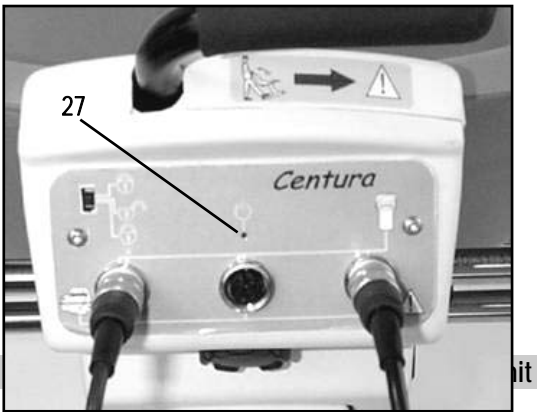
Connect the hand control and motors.

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

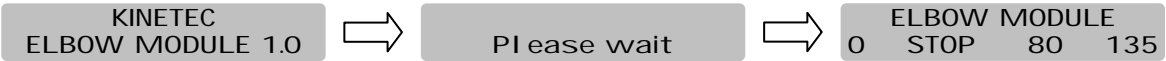
Connect the power supply cable (25).



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.



Switch on (26). The light (27) is ON
While the unit begins an auto diagnostic, the display shows the following








Your KINETEC C.E.M. is ready to be used.

Comment: The values of the movements are record when the machine is switched on/off (except Timer and Warm Up mode).

Use of the hand control

Select your language

Beginning	Keys to press	Display	Remarks
Switch the unit ON		KINETEC ELBOW MODULE 1.0 Please wait ELBOW MODULE 0 STOP 80 135	
Press the 2 keys in the same time	 	Language: english	The display indicates the language selected.
To change the language	 or 	Language: french	The English language is selected. English French German Italian Spanish
To validate the new language.		Ok Switch on/off	To exit and confirm the new language, switch OFF and Switch ON the unit.

Locking the hand control setting

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

The switch (28) has 3 positions:



LOCKED POSITION (Lock 2)

The operational settings can be read and the START/STOP/REVERSE function operated.



UNLOCKED POSITION

All adjustments are possible.



HALF-LOCKED POSITION (Lock 1)

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



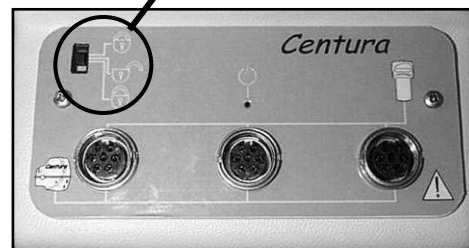
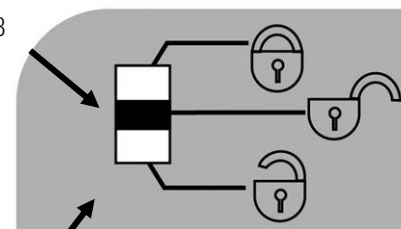
Simultaneously press the  and  keys to lock the hand control.

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

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



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

Comment: The hand control is already locked when you switch the unit ON/OFF.

START/STOP/REVERSE function

As with all KINETEC systems, KINETEC C.E.M. is equipped with a START/STOP/REVERSE function. When the unit is running, the display reads RUN


Press the  key of the hand control. The movement stops. The display reads STOP.

Press the  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.

Quick Start















Set up the patient and proceed as below:

Beginning	Keys to press	Display	Remarks
Switch the unit ON		<div style="border: 1px solid gray; padding: 2px; text-align: center;">KINETEC ELBOW MODULE 1.0</div> <div style="border: 1px solid gray; padding: 2px; text-align: center;">Please wait</div> <div style="border: 1px solid gray; padding: 2px; text-align: center;">ELBOW MODULE 0 STOP 80 135 OU</div> <div style="border: 1px solid gray; padding: 2px; text-align: center;">WARM UP 0 STOP 80 135</div>	
Start the session with the original parameters of the movement (default setting).		<div style="border: 1px solid gray; padding: 2px; text-align: center;">ELBOW MODULE 10 RUN 10 135</div>	The value change at the speed of the movement.

Possible values for each parameter

	Possible values	Default setting
• Treatment Mode		Normal
• Shoulder positioning	60° to 90°	-
• Extension limit	-10 to 130°	-10°
• Flexion limit	-5° to 135°	135°
• Speed	1 to 5 (from 50° to 140° per minute)	2
• Force	1 to 6	6
• Extension pause	0 to 900 seconds (15minutes)	0
• Flexion pause	0 to 900 seconds (15minutes)	0
• Timer	No timer(00H00) to 24H00	0






















How to adjust the basic parameters of the movement?

Beginning	Keys to press	Display	Remarks
To stop the unit		ELBOW MODULE 80 STOP 85 100	Check if the hand control is not locked (See page 6).
To display the upper or lower limit of the movement	 Or 	ELBOW MODULE 80 Ext 85 100 ELBOW MODULE 40 Flex 85 100	The value blinks.
To change the limit if necessary	 Or 	ELBOW MODULE 40 Flex 85 60	The new value blinks.
To validate the new value, press another key or wait more than 3 seconds.	  	ELBOW MODULE SPEED 2 LOAD  No timer	While the value blinks press the  or  key to change if necessary.
Or Or to display pause in extension or flexion limit		ELBOW MODULE PAUSE HIGH 0 Pause low 0	Successive presses on this key selects the pause at the extension or flexion limit.
To change the pause if necessary	 Or 	ELBOW MODULE PAUSE low 15	The new pause value blinks.
To validate the new value press another key or wait more than 3 seconds. The display shows the selected mode		ELBOW MODULE 40 STOP 0 60	The unit is ready to start with the new parameters.

Comments:

- The values shown in the 'Display' column are examples.

How to enter a PROGRAM ?

Beginning	Keys to press	Display	Remarks
To switch off the unit			
Press the two keys at the same time and switch the unit ON	 	KINETEC ELBOW MODULE 1.0	Welcome text during 3 seconds
Then		Program 2 EMPTY	The program number blinks.
To change the program if necessary	 Or 	Program 10 EMPTY	The new program number blinks.
To choose the treatment mode	Or  Or 	Program 10 10 ext/Flex 90 Program 10 10 warm up 90	The display shows the new movement selected. After the selection of the movement press the Warm Up key to validate it.
To display the extension or flexion limit of the movement	Or  Or 	Program 10 10 Ext/Flex 90 Program 20 20 Ext/Flex 120	The value blinks.
To change the limit of movement if necessary	 or 	Program 10 -20 Ext/Flex 120	The new value blinks.
To validate the new value, press another key or wait more than 3 seconds	   	Program 10 SPEED: 2 Load :  No timer Pause low 0	While the value blinks press the  or  key to change if necessary.
To record the program 10		Program 10 Save:+ clear:-	
Then		Program 10 Saving Program 11 EMPTY	The program 10 has been recorded and the display indicates the next program so you can change another program.
OR		Program 10 clearing Program 11 EMPTY	The program 10 has been cancelled and the display indicates the next program so you can change another program.
To cancel the program			
To exit program mode, switch OFF and switch ON the unit.		KINETEC ELBOW MODULE 01.0	To use the modified program see page 10.

Comments:

- The values shown in the 'Display' column are examples.

Use of the hand control

Comments:

- When a program has been deleted, the display shows

Program 11
EMPTY








Program table:

Program number	Treatment mode	Lower limit	Upper limit	Speed	Load	Pause on upper limit	Pause on lower limit	Timer
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								








The KINETEC C.E.M. 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' page 9)

Beginning	Keys to press	Display	Remarks
To Stop the Unit		El bow module 10 STOP 0 110	Check if the hand control is not locked (See page 6).
To access the program mode		Program 10 20 Ext/Flex	The program number blinks.
To change the program if necessary	 or 	Program 3 -10 warm up	The new program number blinks.
To exit and validate the selected program		Warm up -10 stop 0 130	The current parameters have been recorded in program 3.
To exit without validation of selected program		ELBOW MODULE 10 STOP 0 110	Back to the starting parameters.
Start the unit		Warm up -10 STOP 0 130	The value change at the speed of the movement.

Reading the values of a program: example SPEED

Beginning	Keys to press	Display	Remarks
To Stop the Unit		ELBOW MODULE -10 STOP 0 50	Check if the hand control is not locked (See page 6).
To access the program mode		Program 3 -10 warm up	The program number blinks.
To change the program if necessary	 or 	Program 10 50 Ext/Flex	To change the program if necessary.
To read the speed value		Program 10 SPEED: 2	Displays the speed value.
After 5 seconds or after pressing on another key		El bow module -10 STOP 0 50	
To exit and validate the selected program		Warm up -10 STOP 0 130	The current parameters have been recorded in program 3.
Start the unit		Warm up -10 RUN 8 130	The value change at the speed of the movement.

Comments:

- The values shown 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 (page 9) to modify programs

Use of the hand control

How to use the WARM UP key?



Beginning	Keys to press	Display	Remarks
To stop the unit		ELBOW MODULE -10 STOP 15 50	Check if the hand control is not locked (See page 6).
To select the Warm Up mode		Warm up -10 STOP 15 50	
Start the movement		Warm up -10 RUN 20 50	The value change at the speed of the movement.

Warm Up rules:

The Kinetec C.E.M. starts at 70% of the full ROM, increasing 5% of the range every other cycle until the pre-set ROM is reached.

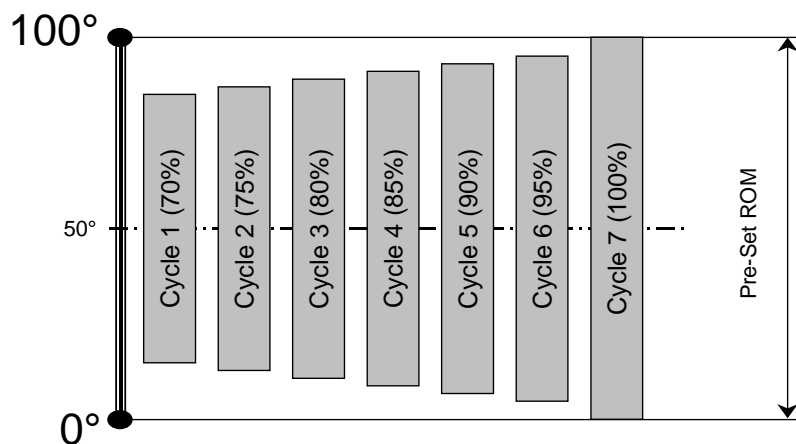
Comments:

- The parameters modification should always be done while the unit is stopped.
- Pauses and By-Pass mode are not available during warm up cycles.
- The Warm Up cycles are only working when the movement first begins.
- To start new Warm Up sessions press twice the « Warm Up » key.
- The calculation mode used enables reaching the pre-set ROM in approximately seven full cycles.

Example:

For a Warm Up treatment with a pre-set ROM from 100° to 0°.

The first cycle starts from 15° to 85° to 15° and increase 5% each cycle





How to define the patient tolerance • At the start of a session

This function, MODULATION Mode is a way to set within the tolerance of a patient at the beginning of a session.

Set up the patient and proceed as below:

Beginning	Keys to press	Display	Remarks
Switch the unit ON		KINETEC ELBOW MODULE 1.0 Please wait ELBOW MODULE 10 STOP 0 90 Or Warm up 10 STOP 0 90	If the Warm Up mode is selected, switch OFF this mode by pressing on the key. Check if the hand control is not locked (see page 6)
To select the MODULATION Mode		MODUL: use + oR - 10 STOP 0 90	The display indicates the keys to be used to drive the machine; this message is displayed 3 seconds.
To select the Modulation level (key + for flexion, key - for extension)	Or Continuous press	MODUL: use + oR - 10 manual 0 90	The unit is moving to the selected way. It is waiting for you to select new limits.
To select the Modulation level when reached, immediately press	Or	MODUL: use + oR - 7 manual 7 50	The new limit of the movement is recorded
To start the session with the new movement limits		El bow module 7 RUN <10> 55	The angle display changes with current movement.

Comment: arrived at the limit max (-10° or 135°) the angle max is automatically recorded and exit of the function.



How to define the patient tolerance • During the session

This function, The BY-PASS MODE is a way to address the pain threshold of a patient during a session.

IMPORTANT: Can be used only when the machine RUN.

Beginning	Keys to press	Display	Remarks
The unit is running		El bow module 7 RUN <10> 55	Check if the hand control is not locked (See page 6).
To select the BYPASS mode		BYPASS: use + oR - 7 run 10 55	The display indicates the keys used to run the machine. This message is displayed 3 seconds.
To select the new discomfort level	Or Continuous press	BYPASS: use + oR - -5 bypass -5 55	The unit is moving to the selected way. It is waiting for you to select new limits.
To select the new discomfort level when reached, immediately press	Or	BYPASS: use + oR - -5 bypass 10 70	The new limit of the movement is recorded.
Continue the session with the new movement limits		El bow module -5 RUN <50> 70	The angle display changes with current movement.

Comment: This function is not available during the warm Up cycles. Arrived at the limit max (-10° or 135°) the angle max is automatically recorded and exit of the function.



Session Time

This function shows the running time (in minutes) of the session (motor functioning).

• It directly accessible by the key the display shows

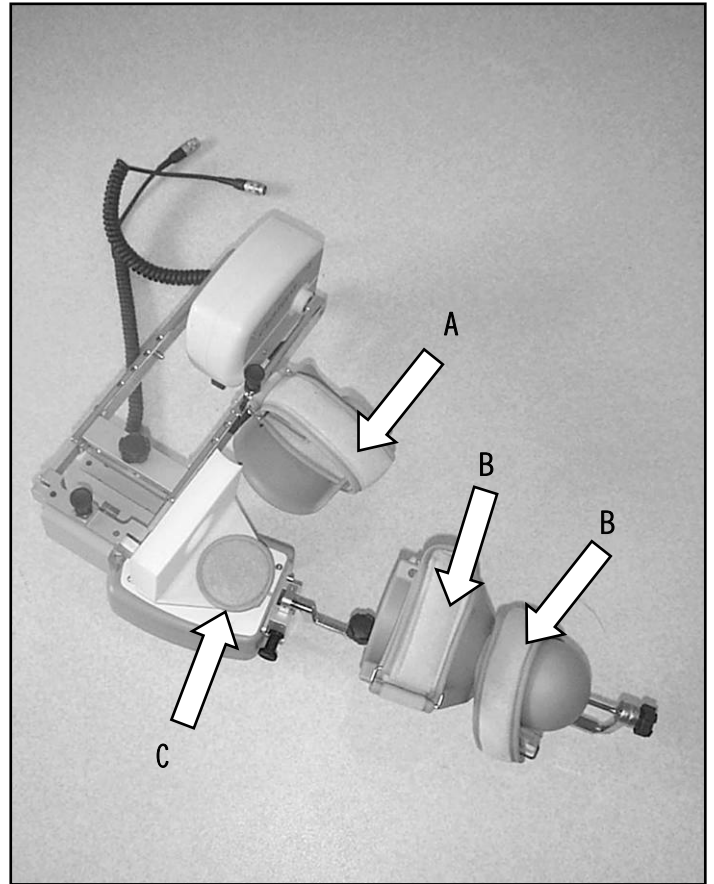


This counter is reset each time the unit is switched ON.

How to use the pads

KINETEC C.E.M. is delivered with 3 straps:

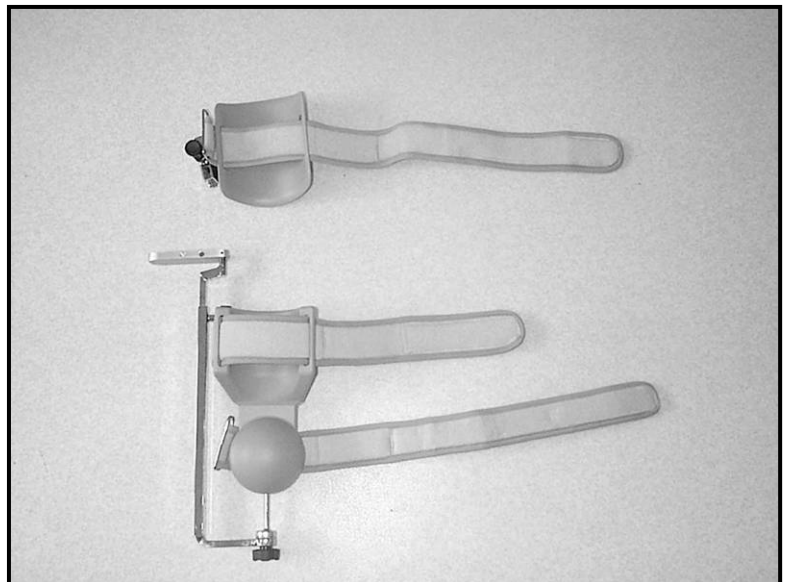
- 1 – Arm strap (A)
- 2 – Forearm strap (B)
- 1 – Elbow protection (C)



Positioning and use of straps.

Do not tighten the straps too much.

For best results replace the straps after each patient (see page 16 for cleaning).





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

Adjustment of the shoulder axis

Press the key



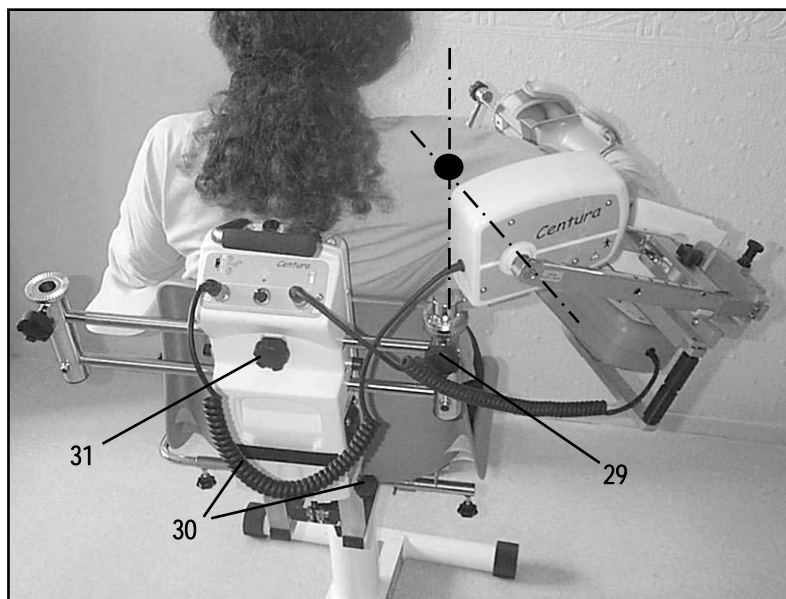
Then press continuously the keys  or 

The abduction motor allows a shoulder positioning between 60° to 90° of abduction. This function will stop, if one of those two keys is not pressed more than 3 seconds.

The knob (29) allows the adjustment of the abduction plane, for best results; position on the scapular plane.

The knobs (30) allow the height adjustment.

The knob (31) allows the shoulder wide adjustment.



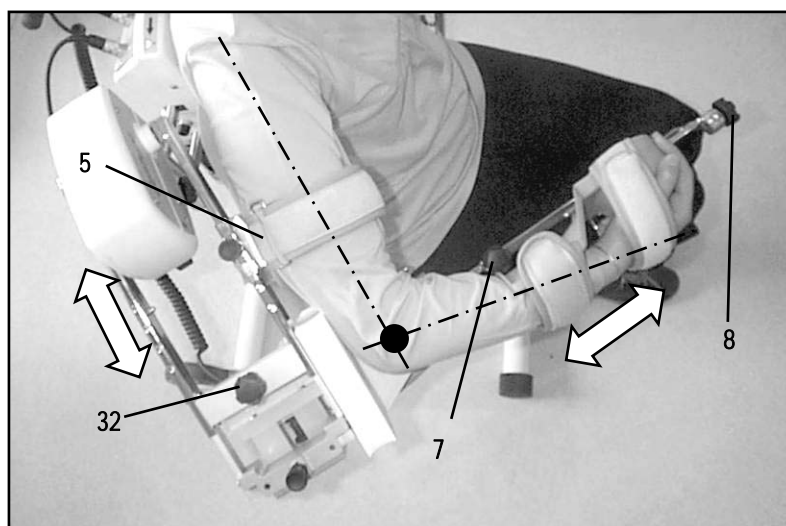
Adjustment of the lengths.

The knob (32) allows the length adjustment of the arm.

The knob (7) allows the length adjustment of the forearm.

The knob (8) allows the positioning of the pronation-supination.

Position the arm support (5).



• Starting the unit:



- Adjust the movement parameters (see page 8). Then press the key



- or select a program  (see page 11).

Maintenance

After 2,000 hours of operation, KINETEC C.E.M. 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 C.E.M. by pressing START, but you should contact your nearest KINETEC technician to have the maintenance operations conducted as soon as possible.

- A motor running time counter is available. Simultaneously press keys  and  the displays shows

RESET TIME 924H
Reset: Limit Low

this counter can be reset by pressing the key



Cleaning

Before conducting any cleaning operation, SWITCH the unit OFF 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.
- Disinfection of the pads:
Washing at 30°C with use of a disinfection solution during the rising cycle.

Technical specifications

Product:

Weight: 4,6kg (10,1lb)
Unit dimensions: 20x18x62cm
(7,9x7,1x24,41inches)
Angular limits: -10 to 135°
Speed: from 50° to 140°/min
Patient sizing: from 4'7" to 6'7"
1,40 to 2m

Electrical:

Power supply: 100-240 V-
Frequency: 50-60 Hz
Power consumption: 50 VA
Device of type B class I
IP 20.
Fuse T 750mA 250V 6.3x32mm
(KINETEC order: 4610007434)

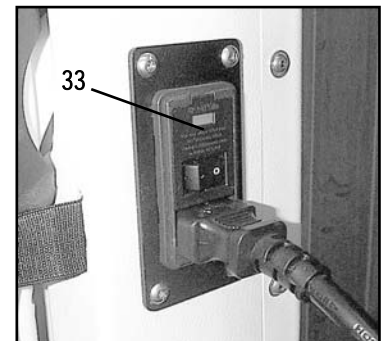
Environment

- Storage/transport conditions:
Temperature: -40 to 160°F / -40 to 70°C
Relative humidity: up to 90%
- Operating conditions:
Room temperature: 50 to 105°F / 10 to 40°C
Relative humidity: up to 80%.








Troubleshooting








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 C.E.M.:








- The display does not indicate any information:
 - Check that the electrical socket is live using another device.
 - Replace the fuse(s) (33) 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.
- Your KINETEC C.E.M. does not work and the display indicates 50 STOP 25 115,
Press START again.
Your KINETEC C.E.M. still does not function: Contact your nearest KINETEC technician.
- Your KINETEC C.E.M. does not function and the display indicates:
SERVICE D1: angle measurement function failure,
or SERVICE D2: no movement,
or SERVICE D3: abnormal consumption,
or SERVICE D4: motor connection 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.



Symbols used

	TYPE B device (protection against electric shocks)
	Caution (consult the accompanying documents)
	STOP (power off)
	ON (power on)
	Start movement
	Stop movement
	Program access

	Speed
	Timer
	Force
	Pause
	Increase
	Decrease
	Lower limit

	Upper limit
	Shoulder Positioning
	Warm up
	Modulation
	ByPass
	Session Time
	Alternative current

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 continuous passive motion 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.

Guidance and manufacturer's declaration

Electromagnetic emissions		
The « KINETEC Centura Elbow Module» is intended for use in the electromagnetic environment specified below. The customer or the user of the « KINETEC Centura Elbow Module» should assure that it is used in such an environment.		
Emissions test	Compliance	Electromagnetic environment – guidance
Radio-Frequency emissions CISPR 11	Group 1	The « KINETEC Centura Elbow Module» uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment. The « KINETEC Centura Elbow Module» is suitable for use in all establishments including domestic and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Radio-Frequency emissions CISPR 11	Class B	
Harmonic emissions IEC 61000-3-2	Class A	
Voltage fluctuations / Flicker emissions IEC 61000-3-3	Complies	

Electromagnetic immunity			
The « KINETEC Centura Elbow Module» is intended for use in the electromagnetic environment specified below. The customer or the user of the « KINETEC Centura Elbow Module» should assure that it is used in such an environment.			
Immunity test	IEC 60601 Test level	Compliance level	Electromagnetic environment – guidance
Electrostatic discharge (ESD) IEC 61000-4-2	±2 kV, ±4 kV, ±6 kV contact	±2 kV contact	There is a reset of the « KINETEC Centura Elbow Module». After turning on, check up the operating parameters, then push START to begin the session.
	±2 kV, ±4 kV, ±8 kV air	±2 kV, ±4 kV, ±8 kV air	
Electrical fast transient / burst IEC 61000-4-4	±2 kV for power supply lines	±2 kV for power supply lines	Mains power quality should be that of a typical commercial or hospital environment.
	±1 kV for input/output lines	±1 kV for input/output lines	
Surge IEC 61000-4-5	±0,5 kV, ±1 kV differential mode	±0,5 kV, ±1 kV differential mode	Mains power quality should be that of a typical commercial or hospital environment.
	±0,5 kV, ±1 kV, ±2 kV common mode	±0,5 kV, ±1 kV, ±2 kV common mode	
Voltage interruptions CEI 61000-4-11	< 5% U_T (>95% dip in U_T) for 5 seconds	< 5% U_T (>95% dip in U_T) for 5 seconds	At the interruption, there is a reset of the « KINETEC Centura Elbow Module». After turning on, check up the operating parameters, then push START to begin the session.
	< 5% U_T (>95% dip in U_T) for 0,5 cycle	< 5% U_T (>95% dip in U_T) for 0,5 cycle	
Voltage dips and voltage variations on power supply input lines CEI 61000-4-11	40% U_T (60% dip in U_T) for 5 cycles	40% U_T (60% dip in U_T) for 5 cycles	Mains power quality should be that of a typical commercial or hospital environment.
	70% U_T (30% dip in U_T) for 25 cycles	70% U_T (30% dip in U_T) for 25 cycles	
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3A/m	3A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
NOTE : U_T is the a.c. mains voltage prior to application of the test level.			

Serial number: _____
Purchase date: _____

Date: _____ Operations done: _____
Technician: _____
Running time (see page 16): _____
Exchange parts: _____

Date: _____ Operations done: _____
Technician: _____
Running time (see page 16): _____
Exchange parts: _____

Date: _____ Operations done: _____
Technician: _____
Running time (see page 16): _____
Exchange parts: _____
