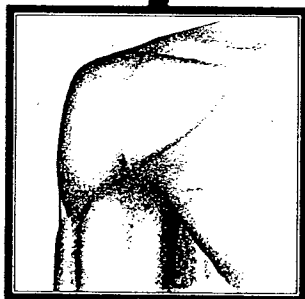
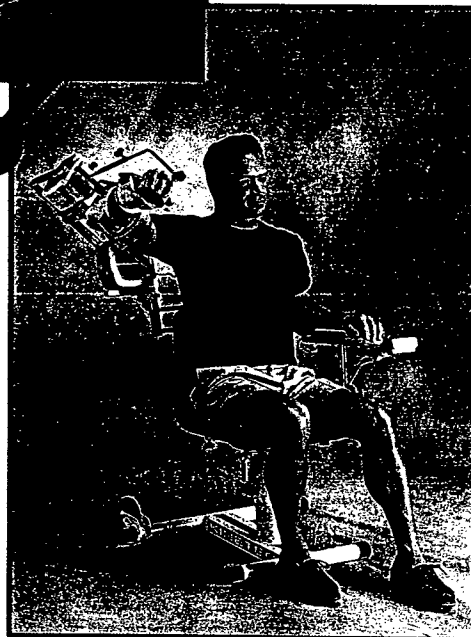
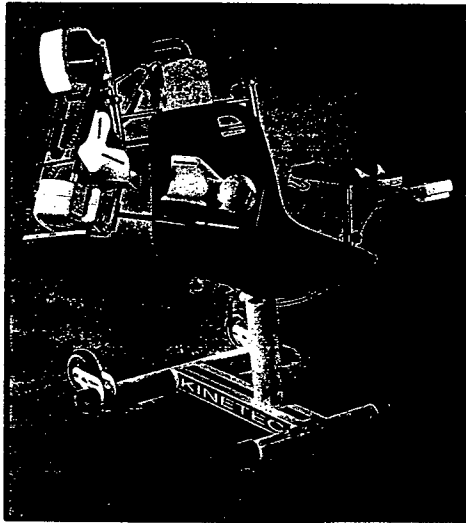


Shoulder C.P.M Machine

Centura

- Manuel d'utilisation • User manual • Bedienungsanleitung •
- Istruzioni per l'uso • Manual de empleo • Gebruikershandleiding •
- Bruksanvisning • Bruksanvisning • Brugervejledning •
- Manual de utilização • Εγχειρίδιο Οδηγίων Χρήσης •



Smith+Nephew
First Choice in Rehabilitation

• Manuel d'utilisation • EPAULE

Avant toute utilisation lire ce document.
Smith & Nephew Kinetec se réserve le droit de toutes modifications techniques.

• User manual • SHOULDER

Before use, please read this document.
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Smith & Nephew Kinetec behält sich das Recht vor, jegliche technische Änderung durchzuführen.

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Prima di mettere in funzione l'apparecchio leggere con attenzione il presente documento.
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• Manual de empleo • HOMBRO

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• Gebruikershandleiding • SCHOUDER

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• Bruksanvisning • SHULDRA

Läs denna bruksanvisning noga innan Du använder apparaten.
Smith & Nephew Kinetec förbehåller sig rätten att göra tekniska ändringar på produkten.

• Bruksanvisning • SKULDER

Les denne bruksanvisningen før du tar apparatet i bruk.
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• Brugervejledning • SKULDER

Inden ibrugtagning skal denne vejledning læses igennem.
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• Manual de utilização • ESPADUA

Recomenda-se a leitura deste documento antes de iniciar a utilização do aparelho.
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• Εγχειρίδιο Οδηγιών Χρήσης • παθητικής

Πριν από οιαδήποτε χρήση διαβάστε αυτό το εγχειρίδιο οδηγιών χρήσης.
!! Smith & Nephew Kinetec διατηρεί το δικαίωμα να προβάλλει σε οιαδήποτε τεχνικές τροποποιήσεις

Smith & Nephew Kinetec S.A.

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SUMMARY

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Manual N°: 467896228 – Updated 29 June 2000

KINETEC Centura – Series 1

KINETEC and Centura are trademark of Smith & Nephew.



Smith+Nephew

Page 1



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DESCRIPTION

DEFINITION

The KINETEC Centura is an 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°

Indications

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

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

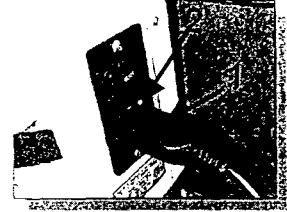
- Unstable fractures.
- Spastic paralyzes.
- Uncontrolled infection.

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)

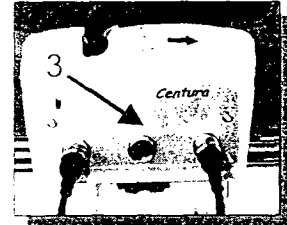
Connect the power supply cable (1)



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:

S & N KINETEC
CENTURA 1002

MOVEMENT VERIF
PLEASE WAIT

MOVEMENT VERIF
MOTEUR 1/1/2

50 FLEX / EXT
STOP 15 100

Your KINETEC Centura is ready to be used

SAFETY

The physician defines the protocol and ensures that it is adapted to the patient's adjustments, session durations and frequency of use.

The patient must know the start/stop/reverse function on the foot control. The hand control must be accessible to patient at all times. See page 3.

KINETEC Centura complies with Directive 93/42 CEE and CE 012011.

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

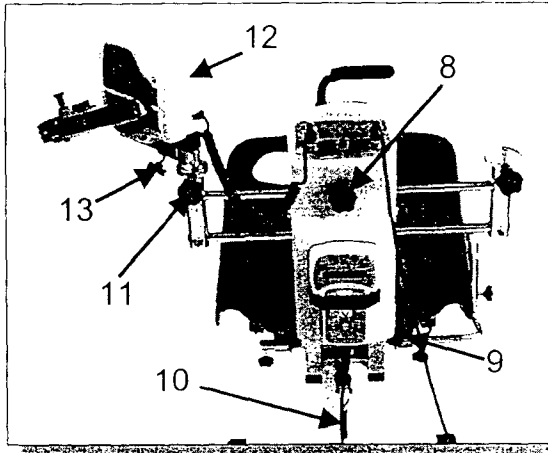
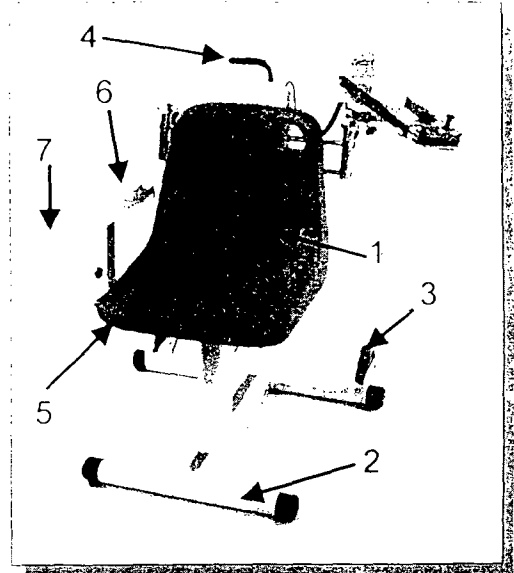
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DESCRIPTION

DESCRIPTION • COMPONENTS

KINETEC Centura consists of the following components

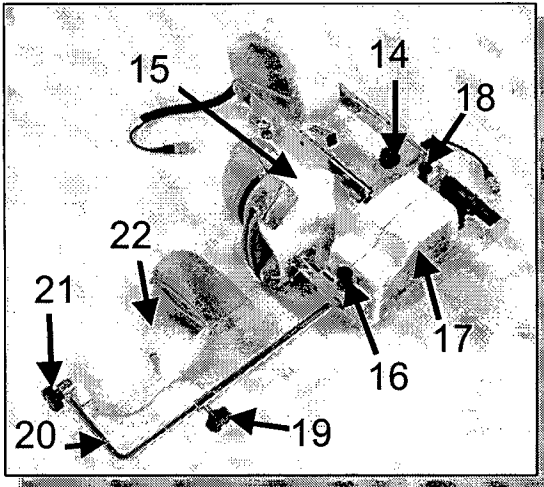
- 1 - Chair
- 2 - Frame
- 3 - Wheels
- 4 - Transport handle
- 5 - Arm rest knobs
- 6 - Arm rest
- 7 - Hand control support



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

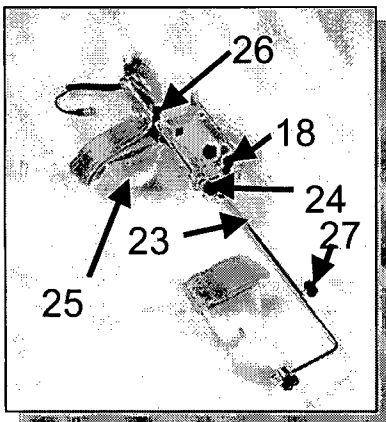
DESCRIPTION

Abduction associated with rotation splint



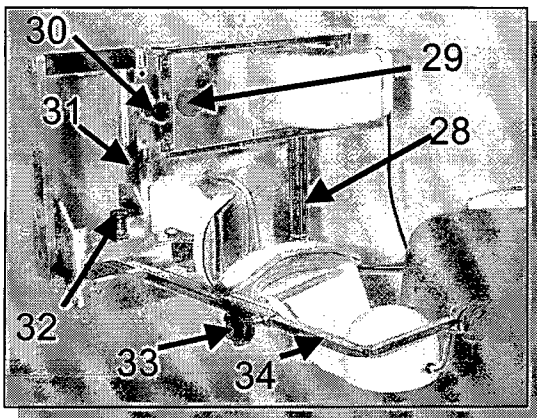
- 14 – Arm length setting lock
- 15 – 90° elbow splint
- 16 – 90° elbow splint lock
- 17 – Rotation motor
- 18 – Rotation motor lock
- 19 – Forearm length setting lock
- 20 – Forearm slider
- 21 – Right/left bean swivel lock
- 22 – Forearm splint

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

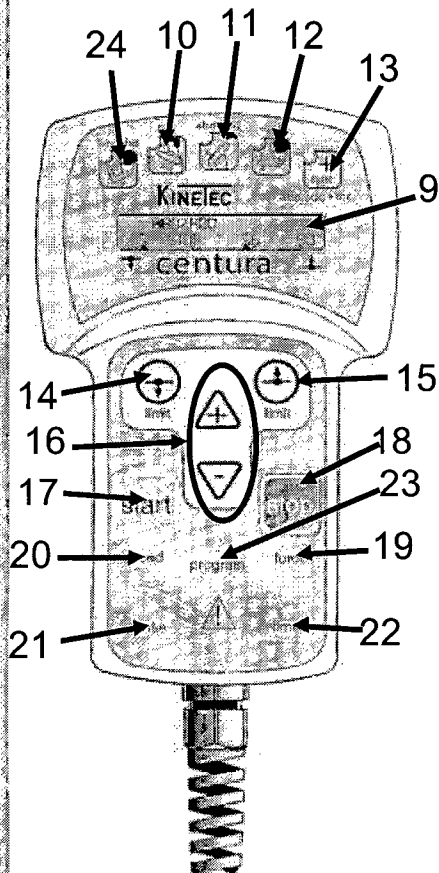
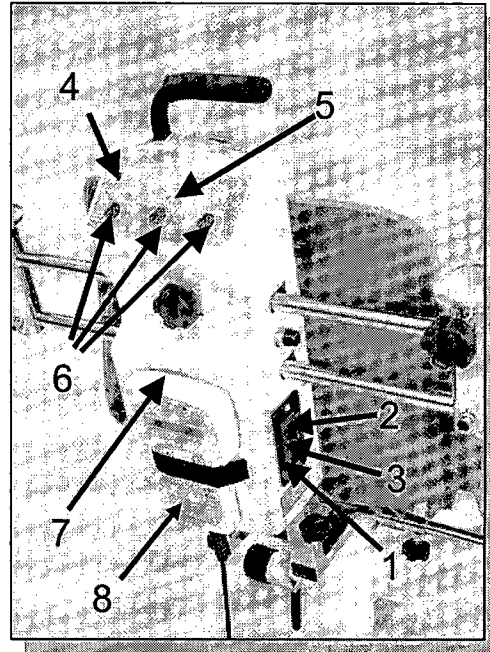
GB

DESCRIPTION

DESCRIPTION • ELECTRICAL

GB

- 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

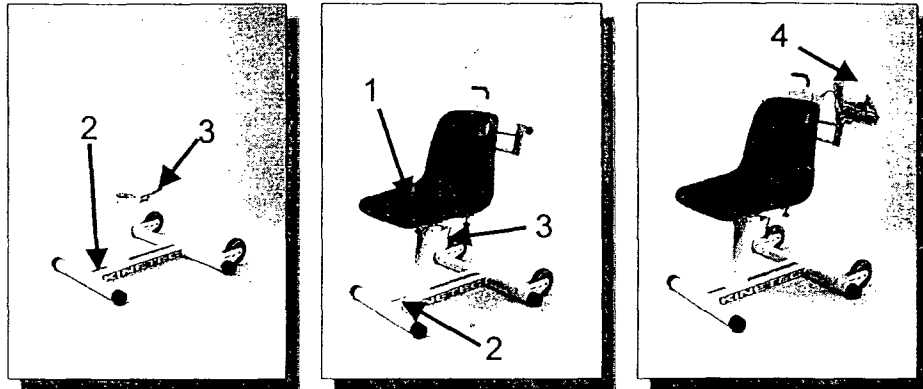
Base assembly

Remove all the components from their packaging.

Position locking lever (3) in an extended position

Position the chair (1) on the base (2) with the back of the chair at the wheel and push down on the locking lever (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).



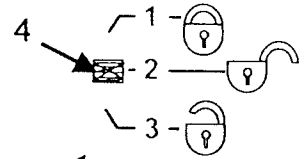
GB

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



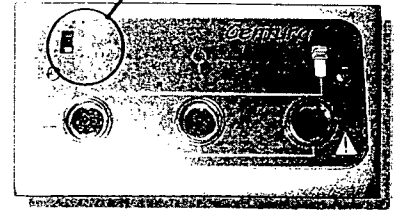
UNLOCKED POSITION (2)

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


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  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


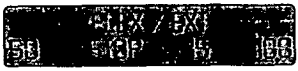




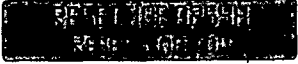



Caution:

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

USE OF THE HAND CONTROL



Reset time function

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

Beginning	Keys to press	Display	Remarks
To stop the unit			Check if the locking switch is in the following position  or 
Press simultaneously on the 2 keys	 		The display indicates the running time since the last resetting.
To reset the counter, press the key			The counter is now reset.
Or After 5 seconds, the reset function switches off and the running time remains in the memory.			





How to choose a movement



First switch the machine off  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:

	 Abduction	 Flexion/Extension	 Rotation	 Abduction + Rotation	
• Lower limit	30°	30°	0°	30°	0°
• Upper limit	90°	100°	60°	100°	60°
• Speed	3	3	3	3	
• Load	3	3	3	3	
• Extension pause	0	0	0	0	
• Flexion pause	0	0	0	0	
• Timer	0	0	0	0	

Possible values for each parameter:

	Abduction	Flexion/Extension	Rotation	Abduction + Rotation	
• Lower limit	20° to 155°	20° to 175°	-60° to 85° extern	20° to 155°	-30° to 85° extern
• Upper limit	25° to 160°	25° to 180°	-55° to 90° extern	25° to 160°	-25° to 90° extern
• Speed	1 to 5 (from 30° to 120° per minute)				
• Load	1 to 6				
• Extension pause	0 to 900 seconds (15 minutes)				
• Flexion pause	0 to 900 seconds (15 minutes)				
• Timer	No time (00H00) to 24H00				

USE OF THE HAND CONTROL

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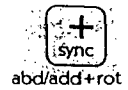
How to adjust the parameters of single movements



Beginning	Keys to press	Display	Remarks
To stop the unit			Check if the locking switch is in the following position:
To choose the movement			The display shows the new movement selected and the default settings of the upper and lower limits of this movement.
Or			
Or			
To display the lower limit of the movement			
To change the lower limit if necessary			The new value blinks
To validate the new value, press another key or wait more than 3 seconds	 		While the value blinks press the or key to change if necessary
Or to display pause			The pause value in upper limit of movement blinks.
To change pause value in upper limit of movement if necessary			The new pause value in upper limit of movement blinks.
To validate and display the pause value in lower limit of movement			The pause value in lower limit of movement blinks.
To change the pause value in lower limit of movement if necessary			The new pause value in lower limit of movement blinks.
To validate the new value press another key or wait more than 3 seconds. The display shows the selected movement.			The unit is ready to start with the new parameters.

USE OF THE HAND CONTROL

How to set the synchronized movement parameters

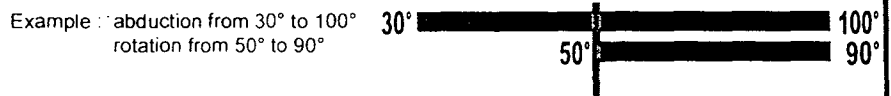


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Beginning	Keys to press	Display	Remarks
To stop the unit			Check if the locking switch is in the following position:
To select the combined movement	 abd/add+rot		The indication "ABD" blinks and the display shows the values for the abduction movement. To change it, proceed as for a single movement.
To press a second time on the key	 abd/add+rot		The indication "ROT" blinks and the display shows the values for the rotation movement. To change it, proceed as for a single movement.

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.



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.

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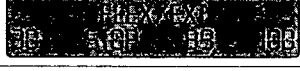


USE OF THE HAND CONTROL

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:

Beginning	Keys to press	Display	Remarks
To stop the unit			Check if the locking switch is in the following position:  or 
To access the program mode			The program number blinks.
To change the program if necessary	 or 		The new program number blinks.
To exit and validate the selected program			The current parameters have been recorded in program 3.
To exit without validation of selected program			Back to the starting parameters.
Start the unit			The value change at the speed of the movement.

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.

