



User manual

Before use, please read this document.
Kinetec reserves the right to effect technical modifications.

EN

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MAESTRA



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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 Maestra 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.

Definition

The KINETEC Maestra is used for passive mobilization of the hand and wrist and permits a wide range of possible joint movements for:

- The forearm
- The wrist
- The thumb
- The long fingers

• Indications

- Flexor and extensor tenolysis.
- Aponeurectomies for Dupuytren disease.
- Metacarpophangeal arthrolysis.
- Open reduction and internal fixation of intra-articular, diaphyseal, metaphyseal and epiphyseal fractures of the phalanges.
- Prosthetic replacement of the MCP, PIP and DIP joints.
- Rheumatoidal/neurological or after-burn stiffness.
- Capsulotomies, arthrolysis and tenolysis for post-traumatic stiffness of MCP, PIP and SIP joints.
- Synovectomies.

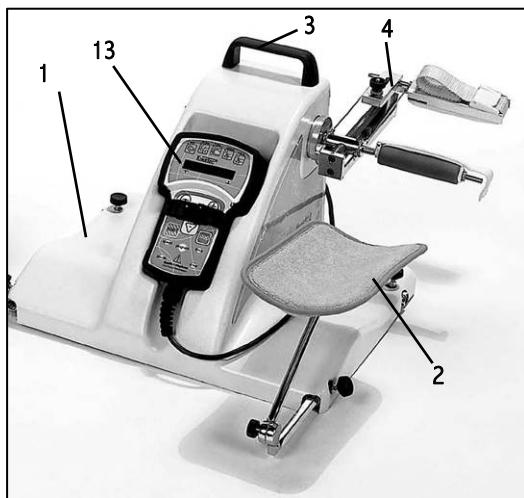
• Clinical Benefits

- 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

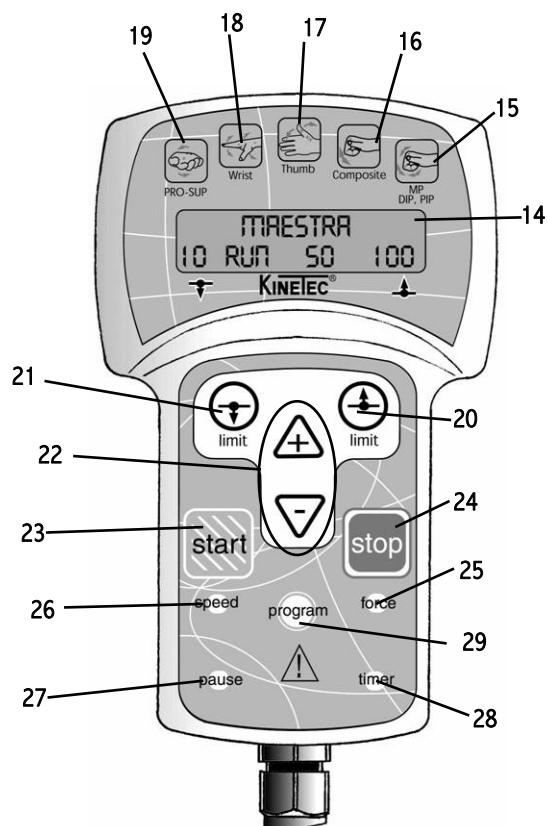
Bone Cancer, Warped joint surfaces, Spastic paralyses, Unstable fractures, Uncontrolled infection.

The KINETEC Maestra is a portable machine, single unit device that can be used on a table. It consists of the following components:



- 1 • Casing encloses the motor and the power PCB.
- 2 • Forearm support.
- 3 • Transport handle.
- 4 • Driving mechanism

- 5 • Case
- 6 • Wrist mobilization accessories.
- 7 • Thumb mobilization accessories.
- 8 • Long fingers mobilization accessories.
- 9 • Spare parts.
- 10 • Miscellaneous textiles.
- 11 • Ulnar deviation mobilization accessories
- 12 • Power supply cable transport position.



- 13 • Hand control
- 14 • Liquid-crystal display (2 lines of 16 characters).
- 15 • Selective movement of long fingers key.
- 16 • Complete fist key.
- 17 • Thumb opposition key.
- 18 • Wrist key.
- 19 • Pronation / supination key.
- 20 • Upper limits setting.
- 21 • Lower limits setting,
- 22 • Increase / decrease keys.
- 23 • START key.
- 24 • STOP key.
- 25 • FORCE key.
- 26 • SPEED key.
- 27 • PAUSE key.
- 28 • TIMER key.
- 29 • PROGRAM access key.

Safety

The physician defines the protocol and ensures that it is correctly implemented (adjustments, session duration 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 5).

KINETEC Maestra complies with Directive 93/42/CEE.

EXPLOSION HAZARD:

KINETEC Maestra is not designed for use in the presence of flammable anaesthetics.

In case of electromagnetic interference with other devices move the device.

KINETEC Maestra 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 Maestra 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 (1)

Connect the power supply cable (2).

IMPORTANT

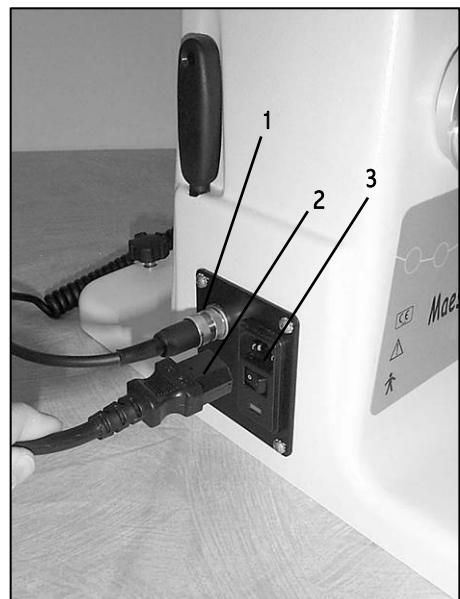
Check that the electrical socket is in good condition and is suitable for the splint power supply cord. The latter complies with current standards and has a grounding socket.

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.



Starting the unit

Switch on (3).

While the unit begins an auto diagnostic, the display shows the following



Your KINETEC Maestra is ready to be used.

Select your language

Beginning	Keys to press	Display	Remarks
Switch the unit ON		KINETEC MAESTRA VO1.0 PLEASE WAIT PRORR/SUPINRATION -10 STOP 5 10	Check if the hand control is not locked (See page 5).
Press the 2 keys in the same time	 	LANGUAGE: ENGLISH	The display indicate 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.



Simultaneously press the  and  keys to lock the hand control,

The display reads "LOCK", you can not change the parameters, if you try the display reads "LOCK".

To unlock the hand control, simultaneously press the  and  keys, The display reads "UNLOCK".

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

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

START/STOP/REVERSE function

As with all KINETEC systems, KINETEC Maestra 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

Quick Start

Set up the patient and proceed as below:

Beginning	Keys to press	Display	Remarks
Switch the unit ON		KINETEC MAESTRA V01.0 PLEASE WAIT PRONA/SUPINATION -10 STOP 5 10	Check if the hand control is not locked (See page 5).
To choose the movement	    	PRONA/SUPINATION -10 STOP 5 10 WRIST EXT/FLEX -20 STOP 94 20 WRIST+MP EXT/FLEX 0 STOP 94 60 ULNAR DEV.RD/RB 0 STOP 94 40 THUMB OPPOSITION 0 STOP 94 90 TPM EXT/FLEX 0 STOP 94 50 INTRIN.+ EXT/FLEX 0 STOP 94 40 INTRIN.- EXT/FLEX 0 STOP 94 90 DIP EXT/FLEX 0 STOP 94 40	The display shows the new movement selected and the default settings of the upper and lower limits of this movement. Successive presses on the keys  or  allows to select different movements.
Start the session with the original parameters of the movement (default setting).		DIP 0 RUN 	The value change at the speed of the movement.

Possible values for each parameter:

		1 st press		2 nd press	3 rd press			1 st press		2 nd press	3 rd press
• Lower limit	-90°	-50°	-50°	-30°	0°	-30°	0°	0°	0°	0°	0°
• Upper limit	90°	90°	140°	60°	180°	225°	90°	180°	70°	180°	70°
• Speed	1 to 9 (from 150° to 440° per minute)										
• Force	1 to 6										
• Extension Pause	0 to 900 seconds (15 minutes)										
• Flexion Pause	0 to 900 seconds (15 minutes)										
• Timer	No timer (00H00) to 24H00										

Default setting values for each parameter

		1 st press		2 nd press	3 rd press			1 st press		2 nd press	3 rd press
• Lower limit	-10°	-20°	0°	0°	0°	0°	0°	0°	0°	0°	0°
• Upper limit	10°	20°	60°	40°	90°	50°	40°	90°	40°	90°	40°
• Speed	2										
• Force	6										
• Extension Pause	0										
• Flexion Pause	0										
• Timer	0										

How to adjust the basic parameters of the movement?

Beginning	Keys to press	Display	Remarks
To stop the unit		PRONR/SUPINRATION -10 STOP 5 10	Check if the hand control is not locked (See page 5).
To choose the movement	 	PRONR/SUPINRATION -10 STOP 5 10 WRIST EXT/FLEX -20 STOP 94 20 WRIST+MP EXT/FLE 0 STOP 94 60 ULNAR DEV.RD/RB 0 STOP 94 40 THUMB OPPOSITION 0 STOP 94 90 TPM EXT/FLE 0 STOP 94 50 INTRIN.+ EXT/FLE 0 STOP 94 40 INTRIN.- EXT/FLE 0 STOP 94 90 DIP EXT/FLE 0 STOP 94 40	The display shows the new movement selected and the default settings of the upper and lower limits of this movement. Successive presses on the keys or allows to select different movements.
To display the extension or flexion limit of the movement	 or 	DIP EXT 94 40 DIP FLEX 94 <40	The value blinks.
To change the limit if necessary	Or	DIP EXT/FLEX 15 <70	The new value blinks.
To validate the new value, press another key or wait more than 3 seconds.	 	DIP EXT/FLEX SPEED 2 LORD NO TIMER	While the value blinks press the or key to change if necessary.
Or		DIP EXT/FLE PAUSE HIGH 0 PAUSE LOW 0	Successive presses on this key selects the pause at the extension or flexion limit.
Or to display pause in extension or flexion limit			
To change the pause if necessary	or	DIP EXT/FLEX 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.		DIP EXT/FLEX 20 STOP 94 70	The unit is ready to start with the new parameters.

Comments:

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

Use of the hand control

How to modify programs PROGRAM MODE

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 MESTRA VO1.0	Welcome text during 3 seconds.		
Then		PROGRAM  EMPTY	The program number blinks.		
To change the program if necessary	 or 	PROGRAM  EMPTY	The new program number blinks.		
To choose the movement		 PRO-SUP  Wrist  Thumb  Composite  MP DIP, PIP PRONA/SUPINATION -10 PRG NR 10 10 WRIST EXT/FLEX -20 PRG NR 10 20 WRIST+MP EXT/FLEX 0 PRG NR10 60 ULNAR DEV.ROD/RB 0 PRG NR10 40 THUMB OPPOSITION 0 PRG NR10 90 TPM EXT/FLEX 0 PRG NR10 50 INTRIN.+ EXT/FLEX 0 PRG NR10 40 INTRIN.- EXT/FLEX 0 PRG NR10 90 DIP EXT/FLEX 0 PRG NR10 40	The display shows the new movement selected. Successive presses on the keys  or  allows to select different movements..		
To display the extension or flexion limit of the movement	 limit or  limit	 DIP EXT/FLEX 0 PRG NR10 40  DIP EXT/FLEX 20 PRG NR10 40	The value blinks.		
To change the limit of movement if necessary	 or 	DIP EXT/FLEX 20 PRG NR10 70	The new value blinks.		
To validate the new value, press another key or wait more than 3 seconds	   	DIP EXT/FLEX SPEED: 2 LORD : - - - - - NO TIMER PAUSE LOW 0	While the value blinks press the  or 	DIP EXT/FLEX SSAVE:+ 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 MESTRA VO1.0	To use the modified program see page 10.		

Comments:

- When a program has been deleted, the display shows

PROGRAM
EMPTY ::

Program table:

• Program number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Movement type																
Lower limit																
Upper Limit																
Speed																
Force																
Pause																
Pause on lower limit																
Timer																

Use of the hand control

Using Programs

program

The KINETEC Maestra 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 10).

Beginning	Keys to press	Display	Remarks
To Stop the Unit		PRONR/SUPINATION -10 STOP 5 10	Check if the hand control is not locked (See page 5).
To access the program mode		WWRIST EXT/FLEX -30 PRG PR2 30	The program number blinks.
To change the program if necessary		THUMTB OPPOSITION 0 PRG PR 5 30	The new program number blinks.
To exit and validate the selected program		THUMTB OPPOSITION 0 STOP 10 30	The current parameters have been recorded in program 3.
To exit without validation of selected program		PRONR/SUPINATION -10 STOP 5 10	Back to the starting parameters.
Start the unit		THUMTB OPPOSITION 0 STOP 20 30	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		WWRIST EXT/FLEX 25 STOP 20 90	Check if the hand control is not locked (See page 5).
To access the program mode		PRONR/SUPINATION -10 PRG PR 4 30	The program number blinks.
To change the program if necessary		THUMTB OPPOSITION 0 PRG PR 3 50	To change the program if necessary.
To read the speed value		THUMTB OPPOSITION SPEED : 2	Displays the speed value.
After 5 seconds or after pressing on another key		WWRIST EXT/FLEX 25 STOP 20 90	
To exit and validate the selected program		THUMTB OPPOSITION 0 STOP 20 50	The current parameters have been recorded in program 3.
Start the unit		THUMTB OPPOSITION 0 RUN 20 50	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 (p 8) to modify programs.

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.

Set up the patient and proceed as below:

Beginning	Keys to press	Display	Remarks
Switch the unit on		KINETEC MESTRA VO 1.0 PLEASE WAIT PRONA/SUPINATI -10 STOP 5 10	Check if the hand control is not locked (See page 5).
To select the MANUAL MODE for upper limits by continually holding pressure on the key	continuous press	PRONA/SUPINATI -10 MANUAL 15 15	The unit is moving to the upper limit of the movement.
To set the pain level when reached, immediately press		PRONA/SUPINATI -10 MANUAL 15 15	The new upper value limit of the movement is recorded.
To select the manual mode for lower limits	continuous press	PRONA/SUPINATI -10 MANUAL 5 15	The unit is moving to the lower limit of the movement
To set the pain level when reached, immediately press		PRONA/SUPINATI -5 MANUAL 5 15	The new lower value limit of the movement is recorded.
To start the session with the new movement limits		PRONA/SUPINATI -5 MANUAL 5 15	The angle display changes with current movement.

• 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		PRONA/SUPINATI -10 STOP 5 10	Check if the hand control is not locked (See page 5).
To select the BY-PASS MODE	continuous press	PRONA/SUPINATI -10 BYPAS 40 45	The unit exceeds the recorded upper limit.
To set the new pain level when reached, immediately press		PRONA/SUPINATI -10 BYPAS 40 40	The new upper value limit of the movement is recorded.
To select the BY-PASS mode for lower limits	continuous press	PRONA/SUPINATI -30 BYPAS 30 40	The unit is moving to the lower limit of the movement.
To set the new pain level when reached, immediately press		PRONA/SUPINATI -30 BYPAS 30 40	The new lower value limit of the movement is recorded.
Continue the session with the new movement limits.		PRONA/SUPINATI -30 RUN 10 40	The angle display changes with current movement.

Comments:

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

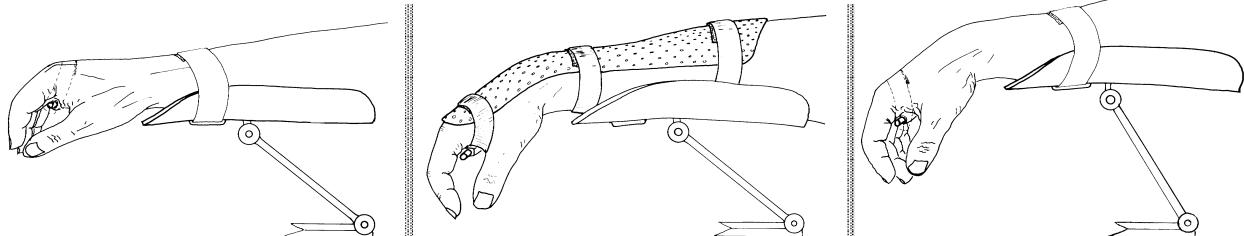
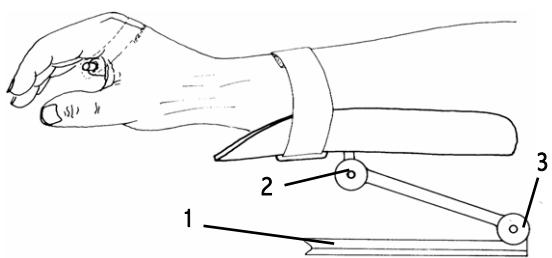
Start up

Setting up the forearm support

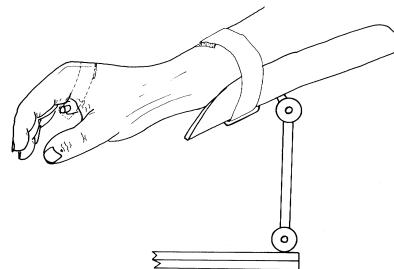
The forearm support should be attached on the RIGHT for the LEFT Hand on the LEFT for the RIGHT Hand. For Pronation-supination of the wrist, the support should be attached to the base directly IN FRONT of the motor axis.

The support is set on a telescopic rod (1) which has two notched joints (2 and 3). These joints enable placement of the wrist in any of following positions:

- Dorsal flexion,
- ZERO position,
- Palmer flexion



The joints also permit the forearm support to be tilted up or down. However, if this is done, the angle of tilt should be taken into account when setting the range of motion on the display.



Setting up the driving mechanism

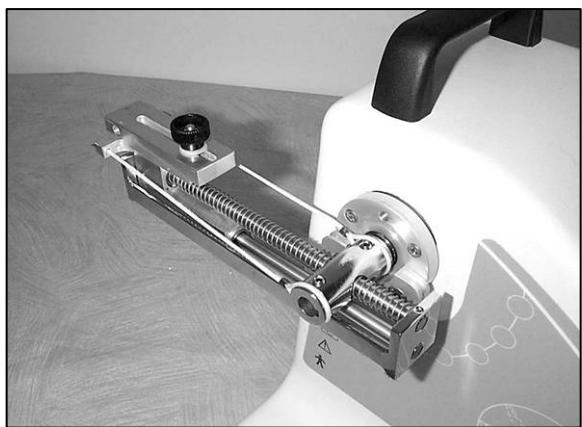
The driving mechanism should be attached to the motor axis.

In order to facilitate the setting up of the driving mechanism, use the intrinsic + movement and to stop the unit at 0°.

LEFT Hand

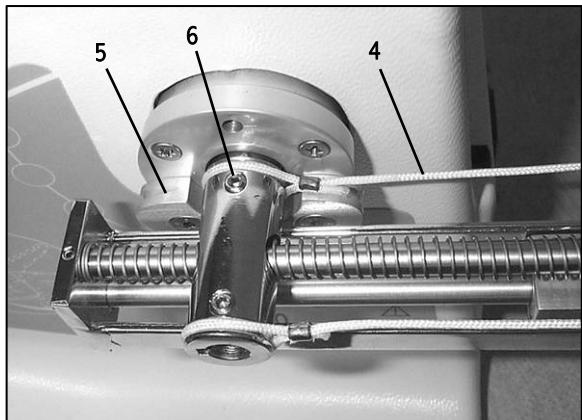


RIGHT hand



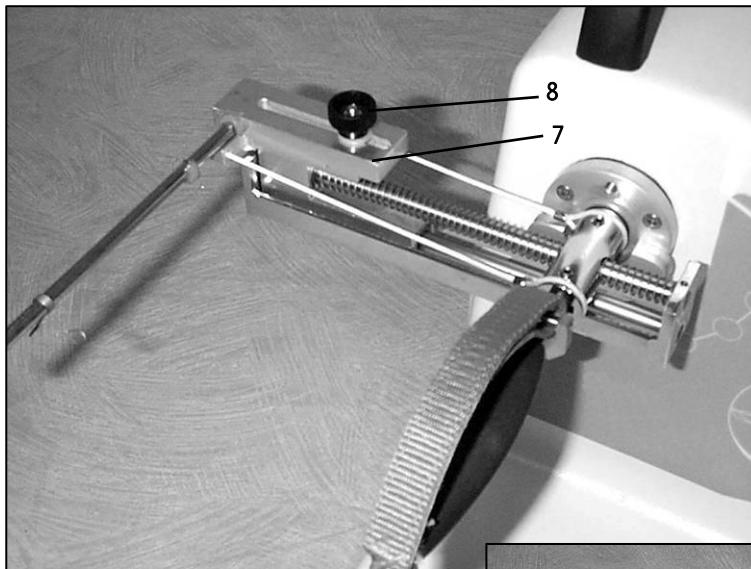
CAUTION

Make sure that when the driving mechanism is inserted on the motor axis, the cable (4) is ABOVE the groove of the cam (5). The driving mechanism should then be locked in place by tightening the screw (6) with the Allen key included in the accessory case.

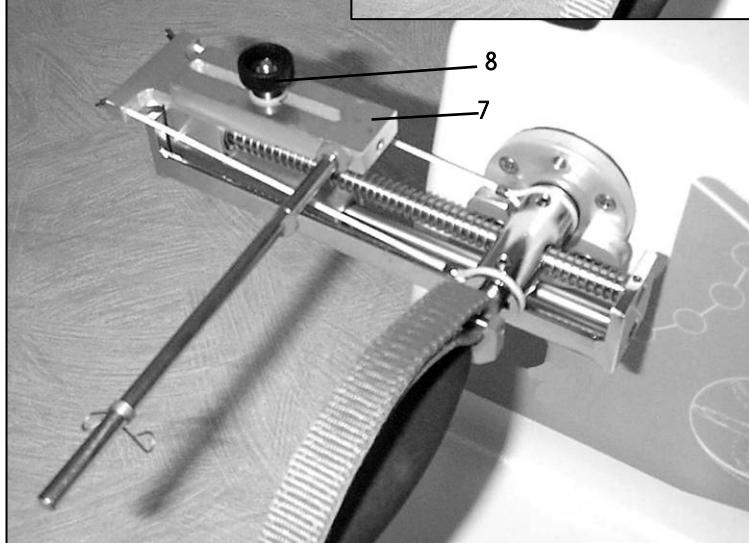
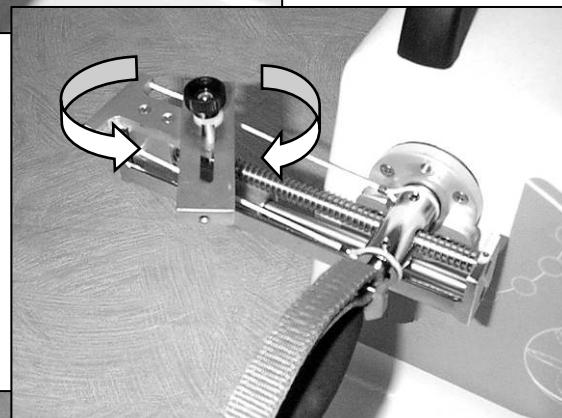


Adjusting the length finger

To better fit individual hand lengths and polar radii depending on the fingers or thumb to be mobilized the guide will be oriented as follows by unscrewing the nut (8) and lifting the guide (7), in position (A) or in position (B).



Guide in position A



Guide in position B

Possible movements

Pronation / Supination

The KINETEC Maestra provides a motion from 90° of pronation to 90° of supination



- Choice of the Pronation / Supination movement:

- Press and adjust your parameters (see page 7).
- Or select a program (see page 10).

Extension / Flexion of the wrist

The KINETEC Maestra provides a motion from -50° to 90°.



- Choice of the 1st movement of the wrist:

- Press and adjust your parameters (see page 7).
- Or select a program (see page 10).

Extension / Flexion of the wrist and the MP joints of the fingers

The KINETEC Maestra provides a motion from -50° to 140°.



- Choice of the 2nd movement of the wrist:

- Press 2 times and adjust your parameters (see page 7).
- Or select a program (see page 10).

Ulnar deviation

The KINETEC Maestra provides a motion from -30° to 60°.



- Choice of the 3rd movement of the wrist:

- Press 3 times and adjust your parameters (see page 7).
- Or select a program (see page 10).

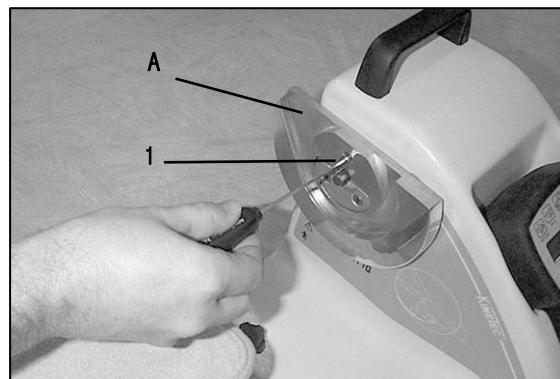
Possible movements

Thumb opposition

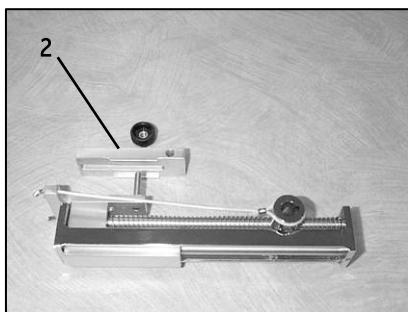
The Kinetec Maestra provides a motion from 0° to 180°.



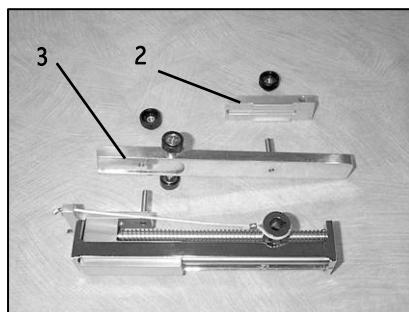
- Select the accessories



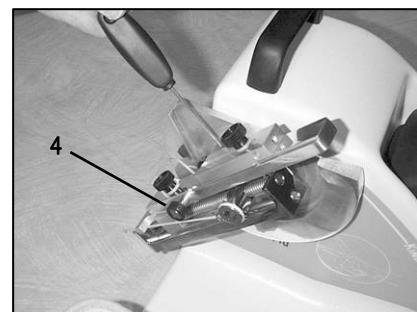
- Set up the guide disc for the thumb movement
- Make sure that the opening (A) is correctly positioned.
- Screw the guide with the screw (1).



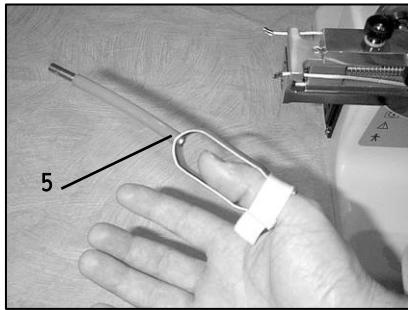
- Remove the guide (2) from the driving mechanism



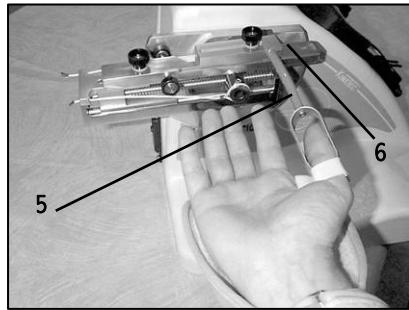
- Set up the extension (3) of guide.
- Set up the guide (2).



- Set up the driving mechanism on the motor hub.
(see p 12 for more details)



- Set up the thumb attachment (5)



- Fix the thumb attachment (5) on the driving mechanism.
- Screw tightly (6).



Starting the unit

- Choice of the thumb opposition movement:

- Press and adjust your parameters (see page 7).
- Or select a program (see page 10).

Complete fist

The KINETEC Maestra provides a motion from -30° to 225°.



- Choice of the complete fist movement:

- Press and adjust your parameters (see page 7).
- Or select a program (see page 10).

Intrinsic +

The KINETEC Maestra provides a motion from 0° to 90°.



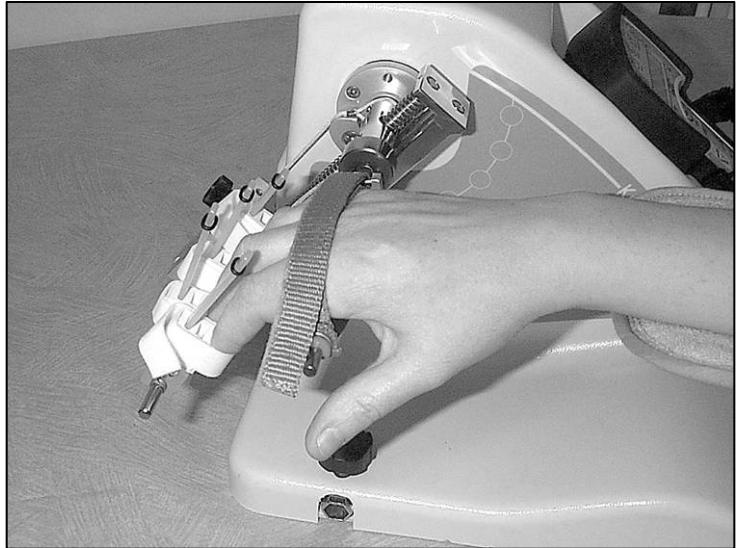
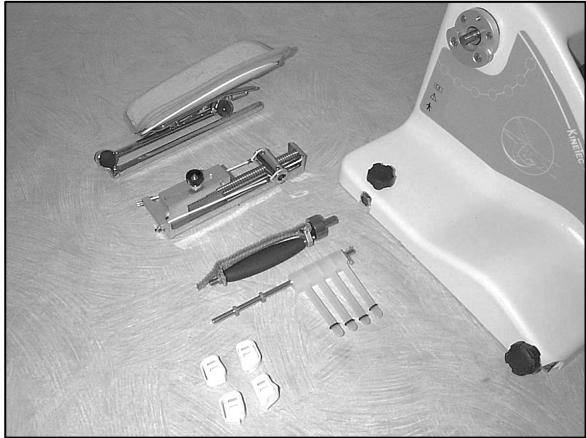
- Choice of the intrinsic + movement:

- Press 1 time and adjust your parameters (see page 7).
- Or select a program (see page 10).

Possible movements

Intrinsic -

The KINETEC Maestra provides a motion from 0° to 180°.

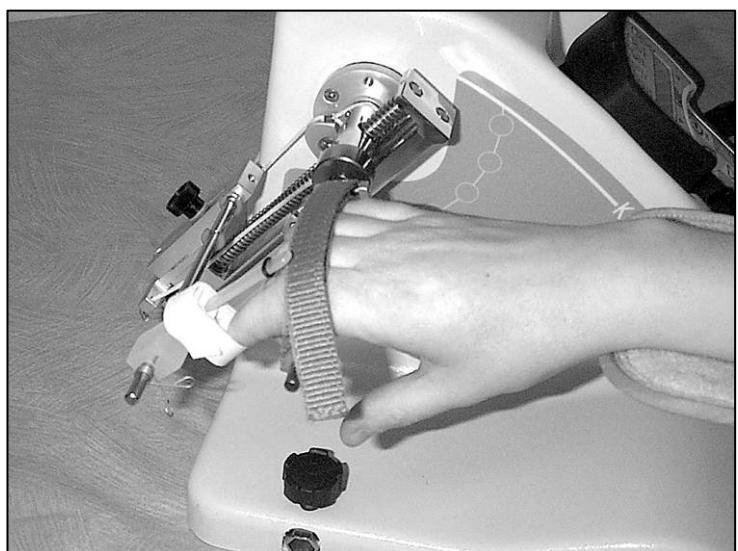


- Choice of the intrinsic - movement:

- Press 2 times  and adjust your parameters (see page 7).
- Or select a program  (see page 10).

Selective mobilization of the DIP joint

The KINETEC Maestra provides a motion from 0° to 70°.



- Choice of the Selective mobilization of the DIP joint movement:

- Press 3 times  and adjust your parameters (see page 7).
- Or select a program  (see page 10).

Maintenance

After 2,000 hours of operation, KINETEC Maestra 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 Maestra 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 resetting 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.

Technical specifications

Product:
Weight: 17.6lbs (8 Kg) (without case)
Unit dimensions:
14 x 16 x 12 inches
35 x 41 x 30cm
Angular limits: see page 6
Speed: from 150 to 440°/min
Patient sizing:
all hand sizing until 7 years old

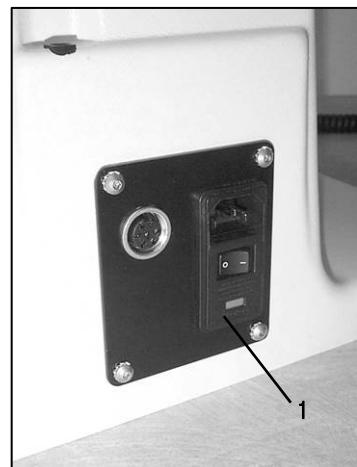
Electrical:
Power supply: 100-240 V~
Frequency: 50-60 Hz
Power consumption: 50 VA
Device of type B class I
IP 20.
Fuse T 750mA 250V 6.3x32mm
(KINETEC order: 4610007434)

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 Maestra:

- The display does not indicate any information:
 - Check that the electrical socket is live using another device.
 - Replace the fuse(s) (32) 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 Maestra does not work and the display indicates 50 STOP 25 115,
Press START again.
Your KINETEC Maestra still does not function: Contact your nearest KINETEC technician.
- Your KINETEC Maestra 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.



Product information

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
	Pronation / supination movement
	Wrist movement
	Thumb movement
	Complete fist movement
	Selective movement
	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 2 years 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.

Maintenance sheet

Serial number: _____

Purchasing date: _____

Date: _____ Operations done: _____

Technician: _____

Running time (see page 18): _____

Exchange parts: _____

Date: _____ Operations done: _____

Technician: _____

Running time (see page 18): _____

Exchange parts: _____

Date: _____ Operations done: _____

Technician: _____

Running time (see page 18): _____

Exchange parts: _____