

# *Raphael* 606

(Auto Flexion Auto Drop Table)

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## OUTLOOK








Name	Orthopedic Adjustment Equipment
Model	Raphael 606 PR <b>Auto/Manual 3 Drop</b> <b>Auto Flexion</b> <b>Lateral Banding</b> <b>Elevation</b>
	Raphael 606 LU <b>Auto/Manual 3 Drop</b> <b>Auto Flexion</b> <b>Lateral Banding</b>
	Raphael 606 DE <b>Manual 3 Drop</b> <b>Auto Flexion</b> <b>Lateral Banding</b>
	Raphael 606 ST <b>Auto Flexion</b> <b>Lateral Banding</b>
Purpose of Use	Adjust human body to correct and right position
Permission Number	No. 19-4154
Characteristics	<p>This equipment is to adjust human body into a normal position and has 5 different mattresses(cervical, lumbar, pelvic, ankle, armrest) with control panel to control operation, switches, levers, etc. Main functions like drops and flexion can be controlled by control panel. With foot switch, elevation, cocking and flexion of pelvic mattress can be controlled. Also , safety function for emergency stop is adopted for patient's protection.</p>



2019 \_ Raphael 606 PR

# SAFETY INFORMATION

## SAFETY SIGN

Sign	Explanation
	Caution : Can be causes of light electric shock, damage, malfunction.
	Refer to the Instruction Manual : Offer additional information in the enclosed document (recommended)
	Refer to the Instruction Manual : Accomplish offered information in the enclosed document (safety signal)
	Electric Protection : Type B applied part
	Don't push
	Don't seat
	Don't put foot on the device



### CAUTION

Use after reading the instruction manual well



### CAUTION

Don't allow patient to sit on or lean on the front part and rear part of the equipment.



### CAUTION

Explain fully to patient regarding instant noise when dropping and cocking.



### CAUTION

When patient or equipment has problem or malfunction, stop immediately the equipment and make adequate measures.

## SAFETY INFORMATION



### CAUTION

Only experienced professional must use the equipment operation under doctor's prescription and supervision.



### CAUTION

Do not remodel the equipment randomly.



### CAUTION

Be careful next requirements after use.

- Unplug when you don't use the equipment for a long time.
- Make adequate check and ask repair technician (manufacturer) when malfunction occurs.



### CAUTION

Be careful next requirements when install the equipment.

- Install when you can remove cord easily.
- Install in the waterless area.
- Do not install in the high humidity, high temperature, direct sunlight or dusty area where bad influence doesn't happen.
- Be careful of safety conditions like slope, vibration, shock (including transportation).
- Do not install where chemicals storage place or where gas doesn't occur.
- Be careful of frequency and rated voltage.
- Connect ground connection right.
- Install where interference by other medical device, like electronic wave, doesn't influence.



### CAUTION

Be careful next requirements before use the equipment.

- Check all code connection is exact and safe.
- Be sure the ground connection is fully connected.
- Be fully careful of common use which leads to overcurrent easily and brings danger.
- Be careful where ground is flat, make table level.
- Check emergency button's condition.  
(Equipment doesn't operated when it's pressed)

### Prohibition

Prohibit the equipment use next persons or patients.

- ① malignant tumor      ② pregnant women      ③ fracture, joint problem
- ④ blood pressure problem      ⑤ cardiac disorder      ⑥ injury
- ⑦ abdomen area when menstruation      ⑧ polio patient
- ⑨ heart disease patient      ⑩ brain hemorrhage patient

### Essential Requirement

There's no essential requirement decided through individual standard, clinical function and risk assessment.

### Environment Condition

Temperature Range : (10 ~ 40) °C

Humidity Range : (20 ~ 75) %

### Packing and Transportation

We packed this equipment for the most suitable condition to transport. When you move or transport this equipment randomly, it may bring damage to the equipment. When you need to move or transport the equipment, please ask our sales department or the point of purchase.

### Waste Disposal

Follow relevant region's disposal rule.

## Product Information

SECTION	SPECIFICATIONS	
Size(mm)	length1,860~2,260mm × width 640mm × height 585~735mm(± 100mm)	
Rating	220 ~ 240V, 50/60Hz, 1500VA	
Weight(kg)	approx. 142kg	
Max. permissible weight(kg)	approx150kg	
Electric classification	1	
Embedded part type	B type embedded part	
Operation type	batch operation(column: 10%, Max.2min operate/min.18min stop)	
software name and version	Raphael-606-V1.0	
Angle(° )	Cervical mattress	-28° (bottom) ~ 18° (top) (±5°)
	Cervical, Thoracic Mattress	20°(left) ~ 20°(right) (±5°)
	Thoracic Mattress	-15° (bottom) , 0° (top) (±5°)
	Pelvic mattress	Flexion (Mattress Level Standard): -15°(bottom) ~ 0°(top)(±5°)
		Minimum Height Standard : 0°(bottom) ~ 20°(top)(±5°)
		Maximum Height Standard : -20°(bottom) ~ 0°(top) (±5°)
Size(mm)	cervical handle	0 ~ 200mm (±50mm)
	ankle mattress	0 ~ 200mm (±50mm)
Flexion Time Setting	0 ~ 30 (min) ± 3 (min)	
Flexion Speed Setting	0 ~ 26 count /(min) ± 5 count /(min)	
Packing unit	SET	

## Product Information

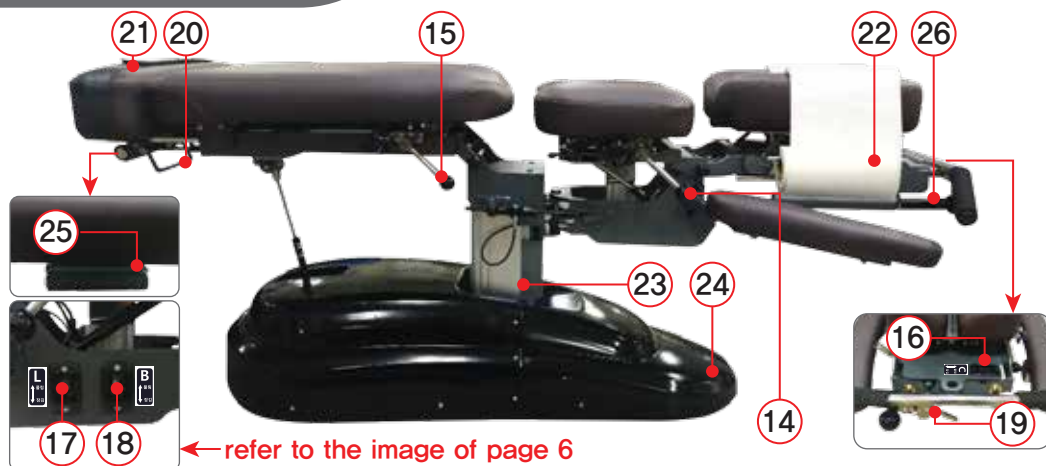
\* All mattress's upper part is mounting



NO.	NAME	FUNCTION	Applicable Model
01	cervical mattress	supports patient's head	All
02	lumbar mattress	supports patient's lumbar	All
03	pelvic mattress	supports patient's pelvic	All
04	ankle mattress	supports patient's ankle	All
05	armrest mattress	supports patient's arm	All
06	cervical handle	patient or doctor can grab on	All
07	emergency button	a button which patient can cut the power of the table for himself	All
08	DP switch	a switch which can adjust elevation of the table	RAPHAEL 606 PR
09	Control Panel	a panel which controls flexion speed and time, selects auto and semi-auto of drop, selects mattress and controls cocking	All
10	tension adjustable knob ( <b>cervical</b> )	a knob which can adjust drop strength of cervical mattress	RAPHAEL 606 PR RAPHAEL 606 DE RAPHAEL 606 LU
11	tension adjustable knob ( <b>Thoracic</b> )	a knob which can adjust drop strength of Thoracic mattress	RAPHAEL 606 PR RAPHAEL 606 DE RAPHAEL 606 LU
12	tension adjustable knob ( <b>pelvic</b> )	a knob which can adjust drop strength of pelvic mattress	RAPHAEL 606 PR RAPHAEL 606 DE RAPHAEL 606 LU
13	Cervical Mattress Cocking Handle	a lever which cocks cervical mattress manually	RAPHAEL 606 PR RAPHAEL 606 DE RAPHAEL 606 LU

## Product Information

\* All mattress' s upper part is mounting



NO.	NAME	FUNCTION	Applicable Model
14	Thoracic Mattress Cocking Handle	a lever which cocks thoracic mattress manually	RAPHAEL 606 PR RAPHAEL 606 DE RAPHAEL 606 LU
15	Pelvic Mattress Cocking Handle	a lever which cocks pelvic mattress manually	RAPHAEL 606 PR RAPHAEL 606 DE RAPHAEL 606 LU
16	Cervical Mattress Angle Adjustment Lever	a lever which can adjust up-down angle of cervical mattress	All
17	Cervical, Thoracic Mattress Angle Adjustment Lever	a lever which can adjust left-right angle of cervical, thoracic mattress	All
18	Thoracic Mattress Fall Control Lever	a lever which adjusts drop control of thoracic mattress	All
19	length adjustable lever (cervical handle)	adjusts length of cervical handle	All
20	length adjustable lever (ankle)	a lever which can adjust length of ankle mattress	All
21	Ankle belt	a belt which fixes patient's ankle	All
22	Paper roll	a paper which covers cervical mattress	All
23	Column	a motor which adjust table height	RAPHAEL 606 PR
24	Protection case	a case which protects frame and interior	All
25	Pelvic Mattress Up-Down Angle Adjustment Lever	a lever which adjusts up-down angle of pelvic mattress	All
26	Flexion rod	a rod which controls left-right angle of cervical and thoracic mattress	All

## Product Information

### Components(Parts)



#### Control Panel A type

##### Usage

device control

##### Size

L235 × W90mm

##### Weight

RAPHAEL606 ST  
RAPHAEL606 DE



#### Control Panel B type

##### Usage

device control

##### Size

L235 × W90mm

##### Weight

RAPHAEL606 LU  
RAPHAEL606 PR



#### Emergency button

##### Usage

device power block and stop

##### Size

Ø40mm



#### DP switch

##### Usage

device height control

##### Size

L180 × W140mm



#### Foot switch1

##### Usage

Semi-Auto Cocking Control

##### Size

L64 × W110 × H35mm

##### Weight

300g



#### Foot switch2

##### Usage

Flexion Control

##### Size

L64 × W110 × H35mm

##### Weight

300g

### Indication Label

**Manufacturing Permission Number** : No. 839

**Item Name(Model Name)** : Orthopedic Adjustment Table (R606-P)

**Manufacturing Item Permission(Certification) Number** : No. 19-4154

**Purpose of Use** : a device which adjusts a human body  
into correct and right position

**Manufacturing Number** : Serial Number

**Manufacturing Date** : 0000year 00month 00date

**Rating** : 220 ~ 240V, 50/60Hz, 260VA

**Device electric classification** : 1

**Company Name** : YOUNG IL M Co., Ltd.

**Address** : 7F Starwood plaza, 400 Dunchon-daero, Jungwon-gu,  
Seongnam-si, Gyeonggi-do, Republic of Korea 13229

**Telephone** : 1544-8501

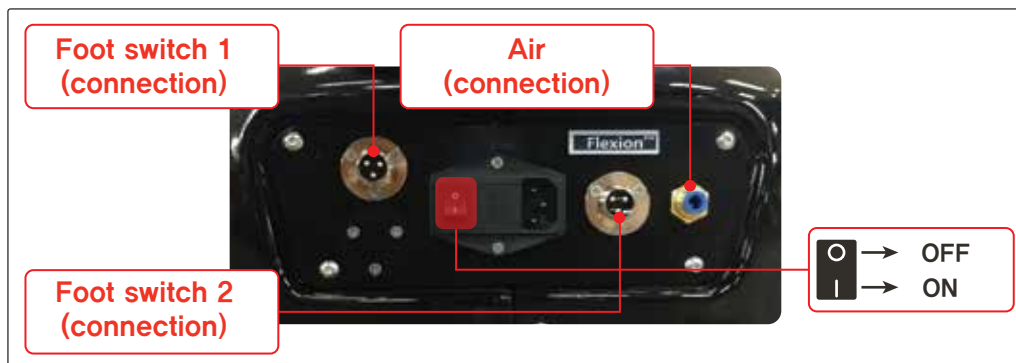
**Website** : <http://www.01m.co.kr>



■ This product is a “medical device”

### 1 Power On

- . Connect power cord with approved voltage.
- . Check the connection status of power cord, foot switch cable and air hose behind base part.
- . Turn On Power.



### 2 Roll paper set-up

1. Pull the edge of roll paper.
2. Fix roll paper with paper holder among cervical mattress.
3. Cut roll paper with embedded cutter and fix it simultaneously.



## 3 Elevation

. Adjust convenient height for doctor's adequate treatment with DP switch and foot switch.



DP switch

▲ Ascending

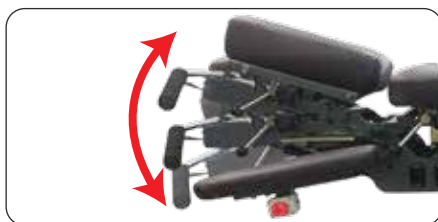
▼ Descending

applicable model

RAPHAEL 606 PR

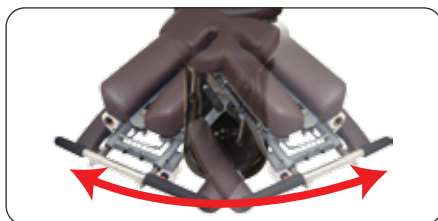
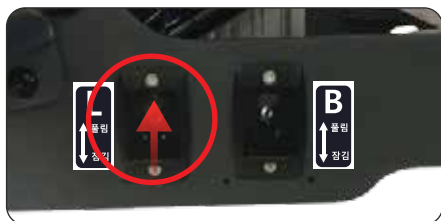
## 4 Mattress angle adjustment

**\*applicable for all models**



Pulling angle adjustment lever for cervical mattress, adjust up and down angle and then release lever.

**\*applicable for all models**



Push up a lever (marked 'L' )which is located under thoracic mattress to release locking, adjust left and right angle of cervical and thoracic mattress and then push down the lever to fix.

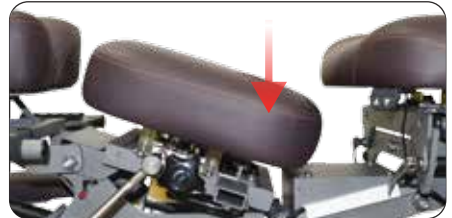
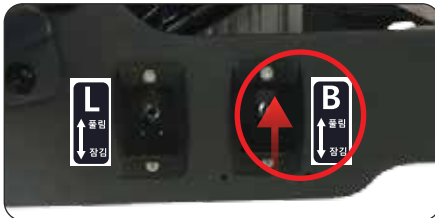
### 4 Mattress angle adjustment



**\*applicable for all models**

With pulling a lever which is located under right part of ankle mattress, adjust up and down angle of pelvic mattress and then release the lever.

### 5 Mattress drop



**\*applicable for all models**

Push up a lever (marked 'B' ) which is located under thoracic mattress to release locking, and then fall the mattress.

### 6 Length Adjustment



**\*applicable for all models**

Pull a lever which is located under cervical mattress to release locking, pull a cervical handle to adjust length and then release the lever to fix.

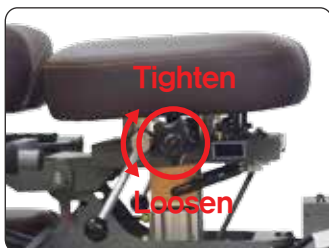
### 6 Length Adjustment

**\*applicable for all models**



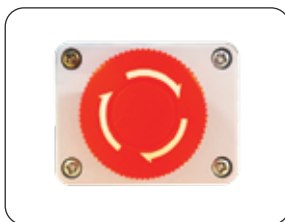
Grab ankle mattress' s handle and lever, pull a lever to adjust length and fix the mattress to recover the lever into the original position.

### 7 Drop intensity adjustment **\*applicable for all models**



Adjust drop tension with knobs.

### 8 Emergency Button **\*applicable for all models**



Push the emergency button to block power and to stop device operation. After using, turn the button to the arrow direction to clear power block.

### 9 Manual Cocking Mattress

After each mattress drop, cock the mattress with cocking lever.

**\*Applicable models :RAPHAEL 606 DE , RAPHAEL 606 LU , RAPHAEL 606 PR**

#### 1. Cervical Mattress



Drop



Lever



Cocking

#### 2. Thoracic Mattress



Drop



Lever



Cocking

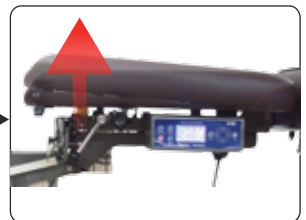
#### 3. Pelvic Mattress



Drop



Lever

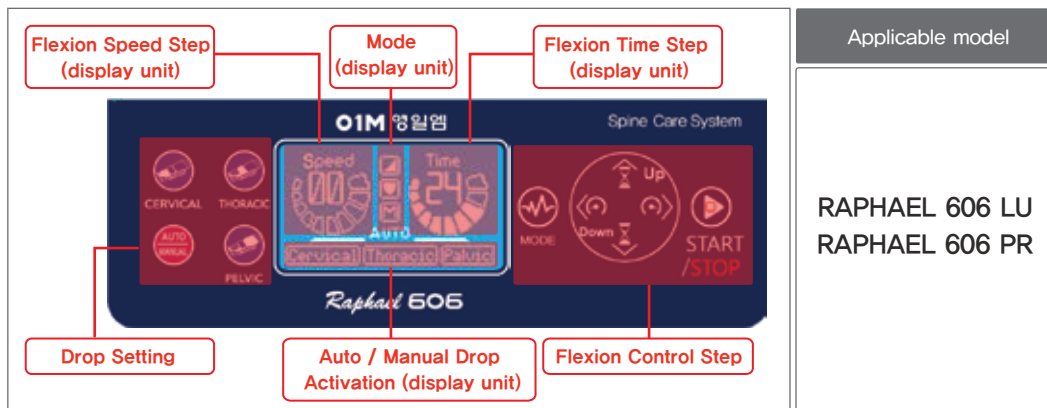









Cocking

## 10 Control Panel

### 1) Control display and function

#### • Control Panel A type



NO.	Button	Function	Explanation
01	 CERVICAL	Cervical Mattress Cocking	activates cervical mattress cocking
02	 THORACIC	Thoracic Mattress Cocking	activates thoracic mattress cocking
03	 PELVIC	Pelvic Mattress Cocking	activates pelvic mattress cocking
04		Auto/Manual	sets cocking type (semi-auto cocking is operated by extra foot switch)
05		Speed/Time	sets flexion speed and time (up&down: speed control, left&right: time control)
06	 MODE	Mode	selects preset flexion movement
07	 START /STOP	Start/Stop	controls device operation

## 10 Control Panel

### 1) Control display and function

#### • Control Panel B type

The diagram shows the Raphael 606 control panel. It has a blue background with a white '01M' and '영일엠' at the top. The main display is divided into three sections: 'Speed' (00), 'Time' (24), and 'MANUAL'. To the right is a red 'Flexion Control Step' with 'Up', 'Down', and 'START/STOP' buttons. The bottom of the panel says 'Raphael 606'.







Applicable model  
  
 RAPHAEL 606 ST  
 RAPHAEL 606 DE

NO.	Button	Function	Explanation
01		Speed/Time	sets flexion speed and time (up&down: speed control, left&right: time control)
02		Mode	selects preset flexion movement
03		Start/Stop	controls device operation

## 11 How to set function






NO.	Function	Explanation
01	Flexion   [Speed setting]	sets flexion speed with left/right button.  <div style="display: flex; align-items: center; justify-content: space-around;"> <div style="text-align: center;"> <p>[default]</p> </div> <div style="font-size: 2em;">~</div> <div style="text-align: center;"> <p>[10 steps]</p> </div> </div>

## 11 How to set function








NO.	Function	Explanation
01	Flexion	<p>sets flexion time with up/down button</p>  <p>[default] ~ [30 steps]</p>
		<p>operates table with start/stop button and foot switch2</p>  <p>(foot switch2)</p> <p>Set functions are operated when you push button. Push once again, then it stops.</p>
		<p>※Refer to each setting method for extra flexion function setting.</p>  <p>[A Style] [B Style] [Memory]</p>
02	Mode	<p>selects style when you touch mode button</p>  <p>selects A style   selects B style   Memory</p>
		<p>after selecting by touching mode button, operates table pushing start/stop button and foot switch2</p>  <p>[selection] [start/stop] [foot switch2]</p> <p>When pelvic mattress lowers to the lowest position, it stops for a while and then it operates.</p>
		<p>after selecting by touching mode button, operates table pushing start/stop button and foot switch2</p>  <p>[selection] [start/stop] [foot switch2]</p> <p>When pelvic mattress goes up to the highest position, it stops for a while and then it operates.</p>

\* How to Stop : unplug power, push power switch to OFF position, push emergency button

## 11 How to set function










NO.	Function	Explanation
02	Mode  [Memory]	<p>after selecting by touching mode button, operates table pushing start/stop button and foot switch2.</p> <div>     </div> <p>[Speed setting] [time setting] [start/stop] [foot switch2]</p> <p>Setting speed and time saves automatically and it brings the latest setting value when it comes to Memory Mode after other mode is operated.</p>

\* Applicable for Raphael 606 LU and Raphael 606 PR.

03	Cocking method selection	<div>  </div> <p>[selected button]</p> <div>  [Auto]            [Manual]         </div> <p>           Selects cocking method by touching auto/manual button.(auto/semi-auto)         </p> <p>           ※ Auto : dropped mattress cocks automatically.            ※ Semi-Auto : dropped mattress cocks semi automatically by using foot switch 2.         </p>
04	Cocking Speed Control	<div>  </div> <p>[beneath control panel]</p> <div>  </div> <p>[Volume]</p> <p>Controls cocking speed with twisting cocking speed adjustment volume beneath control panel.</p> <div>   </div> <p>[increases speed] [decreases speed]</p>

\* How to Stop : unplug power, push power switch to OFF position, push emergency button

## 11 How to set function

NO.	Function	Explanation
05	Cocking	<p>When you activate cocking by pushing button, you can cock mattress with the selected cocking method (auto/semi-auto).</p> <div> <div> <div>Cervical Thoracic Pelvic</div> <div>[activation]</div>  </div> <div> <div>Cervical Thoracic Pelvic</div> <div>[deactivation]</div>  </div> </div> <p>* Mattress goes up with pushing foot switch (marked 'Drop' ) when semi-automatic type.</p>  <p>[Foot Switch1]</p>
		<p>When you activate cocking by pushing button, you can cock mattress with the selected cocking method (auto/semi-auto).</p> <div> <div> <div>Cervical Thoracic Pelvic</div> <div>[activation]</div>  </div> <div> <div>Cervical Thoracic Pelvic</div> <div>[deactivation]</div>  </div> </div> <p>* Mattress goes up with pushing foot switch (marked 'Drop' ) when semi-automatic type.</p>  <p>[Foot Switch1]</p>
		<p>When you activate cocking by pushing button, you can cock mattress with the selected cocking method (auto/semi-auto).</p> <div> <div> <div>Cervical Thoracic Pelvic</div> <div>[activation]</div>  </div> <div> <div>Cervical Thoracic Pelvic</div> <div>[deactivation]</div>  </div> </div> <p>* Mattress goes up with pushing foot switch (marked 'Drop' ) when semi-automatic type.</p>  <p>[Foot Switch1]</p>

## Maintenance

### Check and Inspection

Check and inspect the device following standards for safe usage and patient protection.

check list	check contents	cycle
cable connection	check the cable is connected normally	once/day
emergency button	check the emergency button status (pushed or not pushed) -device doesn't operated when emergency button is pushed	once/day
part drop	part loss or drop around device	once/week
outlook	check overall device outlook	once/month
touch screen	check individual button's function	once/month
	check all button's function	once/month
tension adjustment	check tension strong/weak adjustment and quality	once/month

※Please ask solution to purchasing depot or manufacturer's sales department when malfunction occurs.

### Repair and Replacement

- We don't have any parts for customers or users can repair by himself of Raphael 606 table. Only service staff or authorized company(or person) can repair it.
- When power cable has got damaged, remove it to prevent danger like electric shock and fire. And replace with a new cable with same specifications.
- Our company doesn't have responsibilities the risk of replacing cable with unmatched specification. We recommend to replace with new cable from our company.

## Maintenance

### Washing and Sterilization

- Clean with soft fabric. Wipe smoothly.
- Washing liquid is prohibited for the safety of device, patient and user. But only in inevitable occasion, a little water on the fabric can be used to clean except for power part.

### Technical Support

- Please ask purchasing depot or manufacturer for technical support and information.

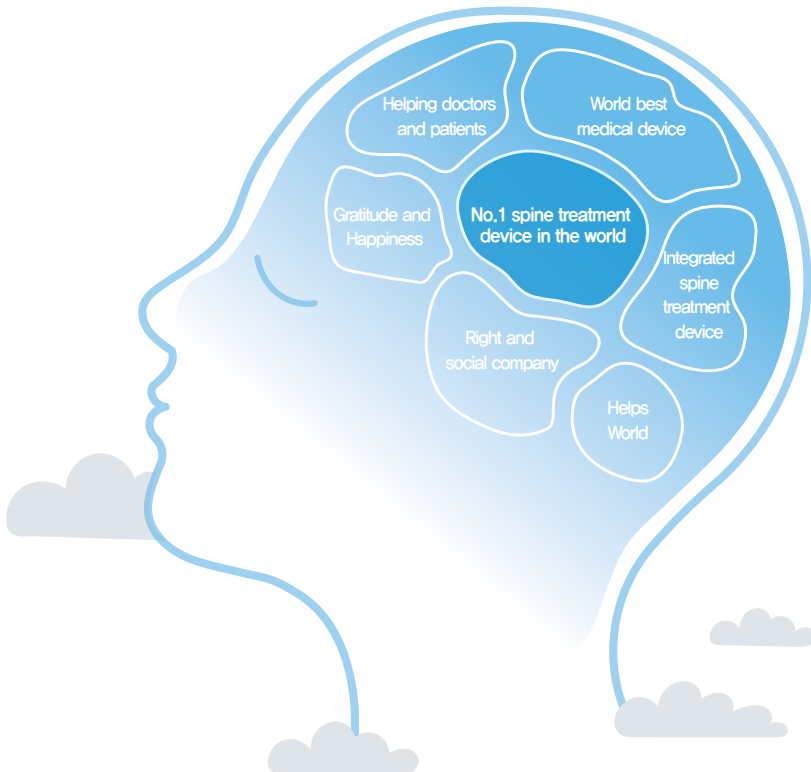
# Keep your spine alive~

Assisting patients and healthcare providers, YOUNG IL M  
inspires joy to customers, society and employees!

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## We think...

- ☑ Manual therapy, Chuna Korean treatment system expansion globally.
- ☑ Traction, decompression, drop, COX, device integration with efficiency increase.
- ☑ New product development leads to employment expansion, import substitution, export expectation.
- ☑ Supply convenience for doctors and patients.
- ☑ Non surgery spine care device derivation spine apparatus development.



· We want to be a small light in the world ·

# *Raphael* 606

(Auto Flexion Auto Drop Table)

## Contact

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(Monday through Friday)

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