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Rolyan[®] Smart Handle

User Manual







1. INTRODUCTION

The Rolyan smart handle is designed to promote high-quality therapeutic exercise for physiotherapy patients, members of fitness/wellness centers and those exercising at home. Used with elastic exercise bands, the Rolyan smart handle is a practical and simple digital interface for resistive exercise.

When used by therapists the Rolyan smart handle provides real-time feedback by displaying force and repetition data. This enables therapists to see and record the specific data needed for reliable, evidence-based exercise programs that help maximize patient strength and function in the shortest period of time possible.

Use the Rolyan smart handle to:

- Guide strengthening exercises.
- Objectively measure and set precise resistance levels.
- O Count and indicate the number of repetitions of a specific exercise.
- Encourage quality exercise by setting resistance targets and using immediate audio & visual signals to cue range of motion and resistance targets.
- Record detailed exercise information to document skilled therapy services.

For additional information and online education, please visit www.pattersonmedical.com

2. THERAPY ADVANTAGES



OBJECTIVITY

Therapists constantly face challenges that limit their ability to help patients achieve therapy goals. Limited treatment times, an insufficient number of patient visits and capped payments can all affect successful patient outcomes. It is therefore vital that the therapist provides evidence-based treatments that are designed to maximize patient outcome in the shortest period of time.

Resistance exercises with elastic bands designed to improve muscle strength are one of the most essential and frequently provided forms of physiotherapy treatment. Research demonstrates that excellent muscle strengthening is achieved when specific exercise parameters, including body/limb position and range of motion, are precisely replicated each time the exercise is performed. Most critically, the intensity of the exercise (resistance level) must be sufficiently challenging to the patient, and as the patient strengthens over time, the resistance increased. In other words, to be effective the exercise must be both consistent and progressive; the term Progressive Resistance Exercise, (PRE), a well-known method of increasing the ability of muscles to generate force, has also been demonstrated to be a safe and efficacious intervention for many patients with muscle force deficits contributing to their motor disability in physical therapy.

Keeping track of specific exercise resistances is easy when using cuff weights, dumbbells, and weight machines because the amount of resistance, or weight, is usually clearly labeled. However, this objectivity currently does not exist when using resistive elastic bands.

When having patients exercise with elastic bands, the Rolyan smart handle helps therapists simply and quickly determine specific exercise resistance by displaying the actual forces generated during each exercise.

When attached to the resistive elastic band, the Rolyan smart handle displays the **peak force** generated by the patient (or therapist) during a single repetition. This information provides the therapist with detailed information needed to determine the optimal resistance appropriate for that exercise and patient.





Strength exercise research suggests that when a patient momentarily fatigues a muscle group between 8 to 12 repetitions of a strength exercise, the resistance is roughly 70% to 80% of one repetition maximum (1RM). This intensity is recommended in many clinical exercise guidelines as it represents a level of difficulty that is not too stressful to patients yet sufficient to generate rapid strength gains. The Rolyan smart handle helps therapists to determine an actual 1RM value used to calculate the specific targeted exercise intensity.

For example, if the patient's 1RM is 5kg (11lbs) and the prescribed exercise intensity is 80% of RM, then the initial resistance load is 4kg (9lbs).

In addition, research demonstrates that resistance must be progressed for muscles to strengthen. So, progressive increases in resistance levels are necessary over subsequent exercise sessions. The Rolyan smart handle enables these increases to be made systematically and accurately. Let us look at how this is accomplished.

70% to 80% of a 1RM is challenging enough so that when exercising at that intensity most people experience momentary muscle fatigue between 8 and 12 repetitions. If exercising to momentary fatigue, a patient demonstrates increased strength when they perform more repetitions at the same resistance level. If initially a patient fatigues between 8 and 12 repetitions and during a subsequent exercise session performs more than 12 repetitions, the intensity is then less than the target intensity of 70% to 80% of a 1RM. Therefore after 12 or more repetitions the resistance should be increased. The challenge is to know when to increase the resistance and by how much.

Research suggests that when progressing resistance for those exercising from 70% to 80% of a 1RM the appropriate amount of an increase is 5%. An increase of 5% usually results in patients performing no fewer than 8 repetitions during the subsequent exercise session. Limiting the increase to 5% helps protect patients from over-exertion and ensures that they continue to exercise at the resistance range/dosage of 70% to 80% of 1RM.

Here's an example of how objective data from the Rolyan smart handle can provide the objectivity necessary to present high-quality, evidence based strength exercise.

A patient performs elbow flexion with the Rolyan smart handle. During the initial exercise session, the therapist determines that the appropriate resistance for the patient is 5 kg (11 lbs). The patient fatigues during the 11^{th} repetition. Because this is fewer than 12 repetitions the resistance is kept the same at 5 kg (11 lbs) during the next exercise session. When performing the same exercise during the second exercise session, the patient fatigues during the 14^{th} repetition. Since this is more than the 12 reps for the third exercise session; the resistance for the exercise is increased by 5% (. x 1.05) to 5.25 kg (11.5 lbs). The therapist chooses either a stronger level of band or sets the length of the band within the Rolyan smart handle so the new resistance is level can be set at 5.25 kg (11.5 lbs). This is precise dosing of resistance helps optimize both patient safety and treatment outcomes.

BIOFEEDBACK

People typically perform at a higher capacity when they receive useful feedback relevant to their performance. Therapy patients are no different. The Rolyan smart handle provides patients with specific feedback:

- (a) The peak force of each repetition.
- (b) The number of repetitions performed.
- (c) Adjustable audio signals & synchronously visual signals to cue the patient when repetition or peak force targets are achieved.

Furthermore, patients are naturally engaged and motivated by technology. While resistive elastic bands are 'low-tech' products and may be perceived by some patients as very simple form of exercise, they are none-the-less a very economical and user-friendly exercise tool. The Rolyan smart handle not only adds clinical value, but sophistication to band exercise, thereby influencing patient perceptions and enhancing the professionalism of a therapy clinic.



CONTROL

Without close oversight and detailed monitoring, patients performing strength exercises with resistive elastic bands often use poor technique: this can be in the form of incomplete range of motion, inadequate (or excessive) resistance, and/or improper body/limb position and substitute movements. The Rolyan smart handle technology, along with the band attachments, inherently encourages the performance of good-quality exercise. The Rolyan smart handle provides patients with exercise targets, guiding them with audio cues when resistance and/or repetition goals are achieved, thus promoting high-quality resistance exercise.

DEFENDABLE DOCUMENTATION

Health Services, governmental agencies and medical insurance companies have steadily increased therapy documentation requirements. They want to see objective data that reflects progress, or lack thereof. This includes an increased focus on therapeutic exercise therapy procedures with reviewers closely scrutinizing if exercises are skilled in nature, versus rote unskilled activities. The Rolyan smart handle provides essential, detailed resistance data and repetition figures that can be recorded at each therapy session to reflect the mindful and skilled therapy services provided to govern strength exercise. For some clinical environments, which don't have the smartphone/tablet, the blank evaluation sheet is now available to download. Please visit the website www.pattersonmedical.com Users can print this sheet to record each exercise protocol in different prescriptions and dates.

EXERCISE (70-80% of 1RM)	DATE	2/4	2/6	2/8	2/11	2/13	2/15	2/18	2/20	2/22	2/25	
Elbow Flexion. Right arm. Elastic resistance (lb)	RES	10	10	12	13	14	15	15	16	16	17	
Use cuff attachment on wrist	REPS	14	17	22	18	21	22	13	15	20	19	
Terminal Knee extension, Right leg Elastic resistance (lb)	RES	17	17	18	18	19	19	20	21	21	21	
Medium Bolster under knee Encourage full extension	REPS	9	13	11	14	8	11	13	12	9	10	
3.	RES											
	REPS											
4.	RES											
	REPS											
				6	;							



The captured information efficiently and effectively guides therapists to better tailor a patient's treatment plan based on the logical progression of strength exercises. This level of detail can result in optimal therapy results, shorter time to maximal patient function, and better clinical patient outcomes overall.

For example: Compare these two patient therapy notes describing a single strength exercise:

- 1. Elbow flexion performed with green band. 2 sets of 10. Increased resistance from red band last week.
- 2. Elbow flexion performed with blue band using 3.15kg (6.9 lbs) of resistance. Patient receiving cues to insure full repetition each repetition. Resistance increased from 3 kg (6.6 lbs) last week.

CLINICAL BENEFITS

The Rolyan smart handle can be used as part of an exercise program to:

o Improve muscle strength o Improve gait

o Improve muscle power o Enhance grip strength

o Improve range of motion o Improve cardiovascular function

o Improve posture o Increase blood circulation

Improve balance and proprioception

3. SAFETY



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- The Rolyan smart handle should only be used with good quality resistive bands designed to withstand the forces being applied. Check with the band manufacturer to ensure your band is appropriate for your intended use.
- Always follow the specific safety directions issued by exercise band manufacturer.
- Be extra cautious when using exercises that involve stretching the resistive band toward the face and head as sudden release of tension could cause injury to the face or eyes. Protective eyewear should be worn if performing this type of exercise.
- Avoid any exercise that could cause the patient or band user to lose balance and fall if the band attached to the Rolyan smart handle should suddenly snap or slip during the exercise.
- Avoid any exercise that could cause the patient's limbs to move back rapidly and hit a close object or person should the band attached to the Rolyan smart handle suddenly snap or slip during the exercise.
- The Rolyan smart handle is meant to be used as an attended therapy. The therapist should be present to assure therapy regimens are followed as well as safety protocols.
- The Rolyan smart handle is not a toy and should not be left alone with children present.
- The Rolyan smart handle and its accessories can act as projectiles when the band is stretched. Make sure no one is in direct proximity while the product is being used to avoid injury. Letting go of the Rolyan smart handle while in use can damage the device.
- Inspect the resistive band before use for small nicks, tears, or punctures that may cause the band to break. If you find any such damage in the resistive band, discard it and replace with a new band before performing any exercises. Always examine the surface of the bands for signs of damage (i.e. cracks or tears) before use.
- Ensure a proper length of band to provide better user control and to avoid high pull forces.
- Never use bands that have been cut down in width.
- Make sure the resistive band is securely gripped and locked in the Rolyan smart handle or its attachment before use. (i.e. you will hear a 'click' sound when the clip is locked.)

- When using the accessories such as the door anchor or the extremity cuff, make sure the accessory is fixed securely between the door and the door frame. Always position the exerciser so that the door opens away from the user. If the door has a lock, lock it to prevent unexpected door opening by another person. Tug on the anchor to test for stability before exercise to make sure the anchor does not slip during exercise.
- o Always use a fresh piece of band for each and every exercise session.
- To avoid excessively high resistance levels do not use a band that is too short. The minimum band length between the grips should always be greater than 30cm (12").
- Some brands of exercise bands have a fine wax bloom or powder coating on the surface (this is to preserve the band) and this coating can affect the grip. Follow the band manufacturer's instructions for cleaning any surface contamination from the band.
- o If the resistance band is slipping from the band clamp, use a light wipe with alcohol (isopropanol) to clean the <u>inside face of the clamp grips</u>. NEVER APPLY ALCOHOL OR OTHER ORGANIC SOLVENTS DIRECTLY ON THE BANDS, only on the clamp grip surfaces. If the clamp mechanism or the clamp faces are damaged in any way contact your local Rolyan smart handle agent for repair.
- Do not overstretch any band by more than 3 times its resting length. Example: a 30cm (12") band should not be stretched to more than 90cm (35") total length.
- Do not use the Rolyan smart handle while charging the battery. The system will beep and automatically turn off when the charge signal is detected
- Do not tamper with the casing or change/remove any of original parts. This will
 VOID the warranty.
- Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

PRECAUTIONS







Always consult a physician or therapist before starting any exercise program.



To prevent possible disruption of function, keep Rolyan smart handle at least 10 feet from microwave or shortwave diathermy equipment.



For patients, your physician or therapist should develop an individualized exercise program to meet your needs and abilities.



Rolyan smart handle and resistive elastic bands are not toys; consult a physician or therapist before allowing children to exercise with elastic resistance bands.



With any exercise program, muscle soreness may be experienced over the first few days. If considerable muscle soreness persists for more than 3-4 days, consult your physician or therapist. Do not exercise if experiencing pain.

If you experience sharp pain, shortness of breath, dizziness or light-headedness with any of these exercises, stop immediately and contact your healthcare provider.

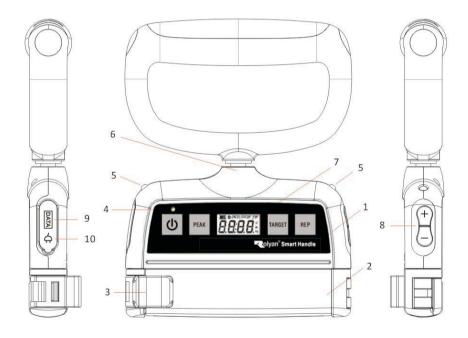
MAINTENANCE

- Always inspect the band before use for small nicks, tears, or punctures that may cause the band to break. If you find any flaws, discard the product and replace before performing any exercises. For band maintenance, please follow its manufacturer's instructions.
- Store the Rolyan smart handle and accessories out of direct sunlight and away from extreme temperatures.
- o After each use, wipe the Rolyan smart handle with a clean damp cloth.

4. PRODUCT COMPOSITION

ROLYAN SMART HANDLE

- 1- Control Panel
- 2- Band Clamp
- 3- Locking Clip
- 4- Charge Indicator
- 5- Operation Indicator
- 6- Attachment Connector
- 7- LCD Indicator
- 8- Up/Down Button
- 9- Data Connector
- 10-Charge Connector







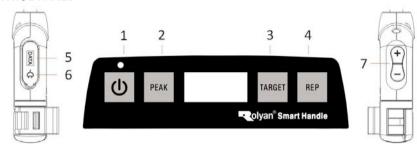
- 1- Door Anchor
- 2- Extremity Strap
- 3- Dumb Handle
- 4- USB to DC Jack charging cable
- 5- DC Charger (*optional)
- 6- Webbing handles (*optional)

^{*}For safety, please select the DC charger recognized in compliances with IEC60601-1 Requirements of Medical Electrical Equipment or IEC60950-1 Requirements of Information Technology equipment.





CONTROL PANEL

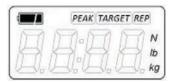


1	POWER	Press and hold the button to power on and off.
2	PEAK	The Peak Hold function is to allow user to measure the repetition maximum (RM), which is the most weight user can lift for a defined number of exercise movements.
3	TARGET	This function is to allow user to set the target force by pressing (+/-) up/down button. The unit will continue beeping when the target force is achieved.
4	REP	This function is to allow user to set the number of repetition by pressing (+/-) up/down button. The unit performs like a combo training with Target force. An effective cycle only happens when the target force is achieved. The training is ended when the number of REP is counted down to zero.
5	DATA	Upgrade the firmware and calibrate the transducer through DATA port if necessary.
6	CHARGE	Charge the battery, the "CHARGE" indicator is lit when charge is activated through the USB charging cable or DC charger.
7	UP/DOWN	Press (+/-) up/down to select the MODE and Parameter.
8	MODE SELECTION	Press and hold the PEAK button for 2 sec to get into the mode selection. Press the TARGET button to confirm the mode or parameters. F-0: Volume Control (0: off; Level 1-5) F-1: Unit Setting (N/lb/kg)





LCD DISPLAY



	Battery Indicator
PEAK	PEAK: Display in real-time and peak force
TARGET	TARGET: Target force setting
REP	REP: Repetition Setting
Ν	Newton increment by 1 N
lb	Pounds increment by 0.1 lb
kg	Kilograms increment by 0.1 kg
A.	Digital display of measured force

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BAND GRIP RANGE

- The Rolyan smart handle has been designed to grip resistant bands with a specific thickness between 0.17 to 1.2mm to perform the progress training.
- The Rolyan smart handle has been designed to grip single layer resistant band, the thickness should remain between 0.17 to 1.2mm.
- The band can be folded at the edge, if the width exceeds 11cm (4 1/3"). Ensure the band is secure and the clip is locked.
- To avoid slipping risk due to band overstretch make sure to retain a safe grip length (about the width of a hand palm) on the loose end of the band when fastening the band into the grip.
- Note: Do not overstretch the elastic band by more than 3 times its resting length.
 Example: a 30cm (12") band should not be stretched to more than 90cm (30") total length.



LABELLING





Attention



Consult instructions for use



BF type applied part (grip)



Manufacturer and Manufacturing Date



European Union Directive on Waste from Electrical and **Electronic Equipment**



CE compliance mark



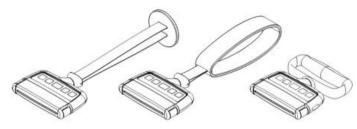
EU Authorized Representative



RoHS compliance

5. INSTALLATION FOR USE

INSTALLATION OF ACCESSORIES



Each attachment has a "Y-shaped" KEY structure (see pictures below). User can easily find the arrow mark on the key and the surface of socket.

Y-shaped Key



Socket



Installation:

Plug the "key" (arrow pin) into the "Socket" from either start end of arrow, and then press and rotate (60°) to lock the KEY along the direction of arrow.

Uninstallation:

Press and rotate (60°) to release the KEY, and then pull up the attachment.

Tip: Using palm instead of fingers to press and rotate the hard piece of attachment is easier.







o Door Anchor







*For safety, place the door anchor between the door and the door frame. Always position the exerciser so that the door opens away from the user. If the door has a lock, lock it to prevent unexpected door opening by another person. Tug on the anchor to test for stability before exercise to make sure the anchor does not slip during exercise.

Upper/Lower Extremity Strap



*For safety, please make sure the hook and loop are firmly attached. For the people who suffer from muscular dystrophies, diseases, or muscle weakness, it is highly recommended to use extremity strap instead of handle to hold the device.



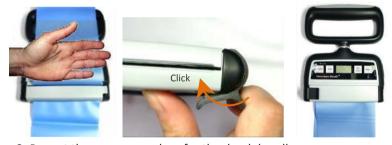
INSTALLATION OF ELASTIC BAND

Step 1: Locate the locking clip on the Rolyan smart handle and use your thumb to open up the Locking Clip.



Step 2: Place the resistant band between the clamp and locking clip. For safety, the band should always extend beyond the clamp by at least the width of a palm.

Close the Locking Clip by index finger to lock the clamp until hearing it click.



Step 3: Repeat the same procedure for the dumb handle.





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6. OPERATION INSTRUCTIONS

⚠ MAKE SURE THE BATTERY IS FULLY CHARGED PRIOR TO FIRST USE.

ROLYAN SMART HANDLE QUICK SETTING

- Step 1: Press and hold the **POWER** button for 2 sec to power on the device. The LCD display will show the software version and initialize settings, when complete, default then returns to measurement display status.
- Step 2: Press the **PEAK** button to measure the repetition maximum (RM).
- Step 3: Press either TARGET or REP button to set target force and number of repetition. Start the resistance exercise.

Note:

When the device idles over 30 seconds, the LCD backlight will dim but the unit is still active. When the device idles over 2 minutes, the unit will automatically shut down for saving battery power.

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HOW TO APPLY THE VARIOUS FUNCTIONS TO CLINICAL PRACTICE

PEAK: Use to calculate specific exercise intensity dosage (N, lb, kg)

Perform a single repetition through the full range of motion (ROM). The peak force is displayed, wherever it occurs in the ROM. Multiply that figure by the desired strength exercise intensity to calculate the target peak force.

*Example - Peak force during the repetition is 22.2 lbs. The exercise intensity is 80% of 1RM. Therefore, the exercise-specific resistance dosage is: 22.2 x 0.80 = 17.8 lbs (approximately 18lbs).

TARGET: Use to provide feedback to patient that target force is achieved

This mode enables the patient and you to receive audio (and/or visual) feedback each time the specific strength exercise resistance dosage is met or exceeded. This mode is particularly beneficial when the peak force occurs toward the maximum elongation of the elastic band. Therefore, the patient is prompted to move through his/her full ROM while exercising.

*Example – Using the same exercise data as in PEAK function, choose the color elastic band that offers around 15 to 20 lbs of resistance. Anchor the ends of the band so that a single repetition provides 18 lbs of force (NOTE: use PEAK function to determine this). Once the band color and length is determined, using TARGET function, enter the peak force target of 18 lbs. Have the patient exercise to momentary fatigue or for a set number of repetitions (SEE: REP function).

REP: Use to set number of repetition, and work with target force

This function enables you to set the repetition goal for the specific exercise. This function is used when you want a particular limit on the number of repetitions, do not want them to exercise to momentary fatigue, but do want motivate them to achieve a specific force target for each repetition.



Example of Evaluation Sheet

For some clinical environments, which don't have the smartphone/tablet, the blank evaluation sheet is also now available to download at www.pattersonmedical.com User can print this sheet to record each exercise protocol in different prescription and date.

EXERCISE (70-80% of 1RM)	DATE	2/4	2/6	2/8	2/11	2/13	2/15	2/18	2/20	2/22	2/25	
Elbow Flexion. Right arm. Elastic resistance (lb)	RES	10	10	12	13	14	15	15	16	16	17	
Use cuff attachment on wrist	REPS	14	17	22	18	21	22	13	15	20	19	
2. Terminal Knee extension, Right leg Elastic resistance (lb)	RES	17	17	18	18	19	19	20	21	21	21	
Medium Bolster under knee Encourage full extension	REPS	9	13	11	14	8	11	13	12	9	10	
3.	RES											
	REPS											
4.	RES											
	REPS											

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7. SPECIFICATIONS

Trade Name Rolyan® Smart Handle

Model Name ZSH-RB (Basic)

Software Version V1.0

Power Supply 3.7 V/900mAh Lithium-ion Battery

charged by USB to DC Jack charging cable

Adaptor GlobTek, GTM41078-0605-USB

(Optional) 100-240V, 50-60Hz, 0.3A

Output: 5VDC, 1.2A (6W)

Dimension L6.02"xW5.31"xH0.98" (L153 mm x 135 mm x 25 mm)

Weight: Main Handle: 324 g

Dumb Handle: 229 g

Battery Life: up to 100 hours of use on a full charge

Capacity Indicator

: ≥50%

.**=**: 50%-20%

: 20%-5% (flashing)

 $\stackrel{\perp}{\sim}$: \leq 5% (flashing)

LCD White Backlight L1.02"xW0.49" (L26mmxW12.5mm)

Force Range 0-50 lb / 0-22.7 kg / 0-222.5N

Unit lb/kg/N

Band Thickness Limit 0.17mm - 1.2mm

Maximum Recording 1000 cycles per exercise

Power Saving If idle for 30 sec, the LCD backlight automatically turns off

If idle for 2 min, the system automatically turns off

Compliances MDD 93/42/EEC Class I

IEC60601-1:2005, IEC60601-1-2:2007,

Operation Condition 0 to 40°C (32 to 104°F)/ 90 %R.H under (Non-condensing)

Storage Condition -10 to 40°C (14 to 104°F)/ 90%R.H under (Non-condensing)

40 to 50°C (104 to 122°F)/ 70%R.H under (Non-condensing)





8. TROUBLESHOOTING

Error	Message	Action					
E-1	Internal Power Failure	Restart the system, if the error still happens, call your local distributor, or agent for repair.					

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9.MANUFACTURED FOR, EU REPRESENTATIVE, DISTRIBUTORS &WARRANTY

Manufactured for:



Patterson Medical Supply, Inc. W68 N158 Evergreen Blvd., Cedarburg. WI 53012, USA Telephone: 800-228-3693

Fax: 262-387-8748

TUX: 202 307 0740

Web: www.pattersonmedical.com

Email: customersupport@pattersonmedical.com

Authorised Representative in the European Union



Patterson Medical Ltd Nunn Brook Road Huthwaite, Sutton-in-Ashfield Nottinghamshire NG17 2HU, UK

UK telephone: 08444 124 330

International telephone: +44 1623 448 706

Web: www.pattersonmedical.co.uk

^{*}For detailed troubleshooting, please refer to the service manual.



Distributors

Patterson Medical ANZ Unit 3, 3 Basalt Road Pemulwuy NSW Australia 2145

Patterson Medical Canada 6675 Millcreek Dr, Unit 3 Mississauga, ON L5N 5M4 Canada

Patterson Medical France
Zone Industrielle de Montjoly
11 Avenue de l' Industrie – CS40712
08013 Charleville-Mézières Cedex, France

Warranty

The Rolyan smart handles are fully self-contained units which should provide many years of accurate, dependable service to the user. The Rolyan smart handles are warranted for 12 months (1 year) from date of purchase against faulty workmanship or materials. The warranty is limited to repair or replacement of defective product. Patterson Medical is not responsible for any damage or injury caused by misuse or non-observance of the instructions set out in this manual.

Should you experience any questions or problems regarding this instrument, please contact Patterson Medical, your distributor or an approved agent.

Should it be necessary to return the Rolyan smart handle, it is essential it is adequately packed to protect it in transit, preferably in its own purpose made original box, otherwise Patterson Medical cannot accept any responsibility for transit damage to the unit.

Full details of your Patterson Medical country office can be found on page 25 to 26 of this manual.