



Lining Drum 550 / 780 / 780 Wide

OPERATION & SAFETY MANUAL



WARNING

These instructions are for your personal safety. Always ensure that you have read and understood these instructions before using the equipment.
SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.

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SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE

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To watch practical demonstration videos, take a course, or to download an electronic copy of these Instructions, please visit www.picoteinstitute.com. Please note that videos and courses are not intended as a replacement or alternative to this operating and safety manual, but only as an additional learning tool.

SAFETY INFORMATION

SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE



WARNING

This section contains important safety information.
Failure to comply could result in serious injury or death.

Safety Symbols

Safety symbols are used throughout this manual to draw attention to potential hazards.



Danger risk of serious injury, follow instructions.



Danger risk of serious injury from moving parts, follow instructions.



Danger risk of serious injury from hot parts, follow instructions.



Danger do not touch. Risk of injury, follow instructions.

Personal Protective Equipment (PPE)

Always use Personal Protective Equipment including suitable protective clothing, footwear, plus:



Suitable eye protection to protect against injuries and chemicals from irritating eyes.



Suitable heat and cut-resistant gloves to help prevent any hand injuries. Any open injuries or skin irritations should always be covered to avoid contact with sewage, chemicals or dust.



Suitable respirator to prevent any dust or fumes being inhaled or consumed, which could cause occupational asthma or dermatitis.



Suitable ear protection to protect against hearing loss.

SAFETY INFORMATION

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- The working pressure for the compressed air is to be adjusted with a precision pressure regulator and should not exceed the maximum allowed pressure of 1,7 bar / 25 PSI gauge pressure. At higher pressure the safety valve will open.
- In case of any defect on the safety valve, it may only be replaced by Picote original spare parts with the same opening pressure. Do not use the drum, if the safety valve does not work.
- Maximum allowable air flow from the compressor is 3.8 m³ / min
- Always use the brakes to lock the front wheels when the Lining Drum is stationary. It is important that the Lining Drum is standing still during operation.
- Always use the Lining Drum on an even surface to prevent it from tipping
- Lining Drums should be pressure and leak tested at a certified testing facility if it has been dropped, knocked over or is otherwise suspected to be damaged.
- Picote Lining Drums should only be used for the installation of flexible CIPP liners and Calibration Tube and related CIPP accessories related to CIPP Inversion.
- During steam or hot water curing Lining Drums may get very hot to the touch.
- Always depressurize the Lining Drum before attempting to open the hatch.
- Picote Lining Drums may not be modified without consultation and written agreement from the Picote Solutions representative.

TRANSPORT, STORAGE & DISPOSAL

SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE

TRANSPORT:

Always transport the Lining Drums firmly secured with the vessel tilt break engaged.

STORAGE:

It is recommended that inversion drums be stored indoors to protect them from rain and sunlight, and also in a constant ambient temperature.

DISPOSAL:

The Lining Drums can be recycled at as metal waste.

Always follow local, regional, and national waste handling rules and regulations.

ENVIRONMENTAL:

Operational Ambient Temperature Range: 0 to 50°C (32 to 122°F) frost and condensation free.

Storage Ambient Temperature Range: -20 to 60°C (-4 to 140°F) frost and condensation free.

EU DECLARATION OF CONFORMITY

DoC DoC No.: DOC-PED-550-003

We:

Company Name: Picote Solutions Oy
Postal Address: Pienteollisuustie 24
Postcode: 06450
City: Porvoo
Country: Finland
Telephone number: +358 415459054
E-Mail address: support@picotesolutions.com

This DoC is issued under our sole responsibility and refers to the following subject:

Apparatus model: Picote 550 Inversion Drum
Part Number: 2300000551 / 2300000552, including variants identified by additional suffixes
Type: Lining Inversion Drum
Serial number: Individually assigned, see product plate
Production: Series production

Conformity assessment procedure applied:

Module A (Internal production control) according to Annex III of directive 2014/68/EU

This object is in conformity with the following Union harmonisation legislation:

Pressure Equipment Directive (PED) 2014/68/EU

The following harmonised standards and technical specification have been fully applied:

EN 13445-8:2021, Unfired pressure vessels – Part 8: Additional requirements for pressure equipment of aluminium and aluminium alloys (if applicable)
EN 13445-4:2021, Unfired pressure vessels – Part 4: Fabrication
EN 13445-5:2021, Unfired pressure vessels – Part 5: Inspection and testing

The following harmonised standards and technical specification have been partially applied:

EN 13445-3:2021, Annex C, Unfired pressure vessels – Part 3: Design

Signed for and on behalf of:

Porvoo, Finland

1.9.2026


Lauri Kellokumpu, Senior Operations Director.

Place of issue

Date of issue

Name, title, signature

EU DECLARATION OF CONFORMITY

DoC No.: DOC-PED-780-003

We:

Company Name: Picote Solutions Oy
Postal Address: Pienteollisuustie 24
Postcode: 06450
City: Porvoo
Country: Finland
Telephone number: +358 415459054
E-Mail address: support@picotesolutions.com

This DoC is issued under our sole responsibility and refers to the following subject:

Apparatus model: Picote 780 Inversion Drum
Part Number: 2300000781 / 2300000782, including variants identified by additional letter suffixes
Type: Lining Inversion Drum
Serial number: Individually assigned, see product plate
Production: Series production

Conformity assessment procedure applied:

Module A2 (Internal production control with supervised pressure equipment check at random intervals) according to Annex III of directive 2014/68/EU

This object is in conformity with the following Union harmonisation legislation:

Pressure Equipment Directive (PED) 2014/68/EU

The following harmonised standards and technical specification have been fully applied:

EN 13445-8:2021, Unfired pressure vessels – Part 8: Additional requirements for pressure equipment of aluminium and aluminium alloys (if applicable)
EN 13445-4:2021, Unfired pressure vessels – Part 4: Fabrication
EN 13445-5:2021, Unfired pressure vessels – Part 5: Inspection and testing

The following harmonised standards and technical specification have been partially applied:

EN 13445-3:2021, Annex C, Unfired pressure vessels – Part 3: Design

Notified body involved:

Company Name and address: Kiwa Tarkastus Oy
PL1000, 00581 Helsinki Finland
4 digit notified body number: 0424

Signed for and on behalf of:

Porvoo, Finland

1.9.2026


Lauri Kellokumpu, Senior Operations Director.

Place of issue

Date of issue

Name, title, signature

EU DECLARATION OF CONFORMITY

DoC DoC No.: DOC-PED-780-Wide-002

We:

Company Name: Picote Solutions Oy
Postal Address: Pienteollisuustie 24
Postcode: 06450
City: Porvoo
Country: Finland
Telephone number: +358 415459054
E-Mail address: support@picotesolutions.com

This DoC is issued under our sole responsibility and refers to the following subject:

Apparatus model: Picote 780 Inversion Drum Wide
Part Number: 2300000781W / 2300000782W, including variants identified by additional letter suffixes
Type: Lining Inversion Drum
Serial number: Individually assigned, see product plate
Production: Series production

Conformity assessment procedure applied:

Module A2 (Internal production control with supervised pressure equipment check at random intervals) according to Annex III of directive 2014/68/EU

This object is in conformity with the following Union harmonisation legislation:

Pressure Equipment Directive (PED) 2014/68/EU

The following harmonised standards and technical specification have been fully applied:

EN 13445-8:2021, Unfired pressure vessels – Part 8: Additional requirements for pressure equipment of aluminium and aluminium alloys (if applicable)
EN 13445-4:2021, Unfired pressure vessels – Part 4: Fabrication
EN 13445-5:2021, Unfired pressure vessels – Part 5: Inspection and testing

The following harmonised standards and technical specification have been partially applied:

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Notified body involved:

Company Name and address: Kiwa Tarkastus Oy
PL1000, 00581 Helsinki Finland
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Signed for and on behalf of:

Porvoo, Finland

1.9.2026


Lauri Kellokumpu, Senior Operations Director.

Place of issue

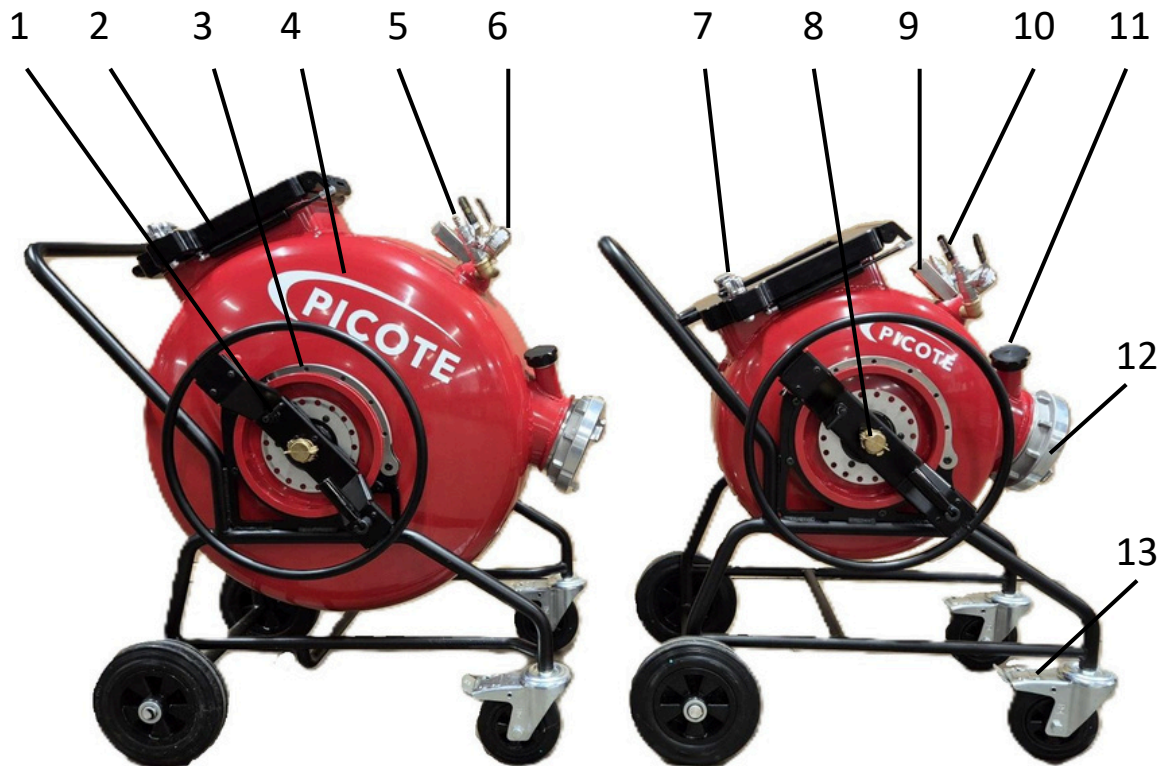
Date of issue

Name, title, signature

GENERAL INFORMATION

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No.	Description
1	Wheel Lock
2	Hatch with Sight Glass
3	Vessel Tilt Brake
4	Vessel
5	Compressed Air Connections
6	Pressure Gauge
7	Hatch Lock Handles
8	Through Axle Feed Port
9	Safety Valve
10	Valve Handles
11	Auxiliary Port
12	CAMLOCK / Storz Port
13	Front Wheel Brake



TECHNICAL DATA

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Lining Drum 550

Size (mm/inches)	Pipe Range (dn/in)	Liner Capacity (m/ft)	Drain Diameter (mm/inches)	Min / Max Operating Pressure	Connection
590x917x1030mm 23.2x36x40.5"	DN50-225 2-9"	45m / 147' DN100 / 4"	DN50-225 2-9"	0-1.7 bar 0-25 PSI	6" Storz or Camlock
Allowable Operating Temperature Range	Volume	Maximum allowable airflow	Weight (kg/lbs)	Curing	Operating Cycles (under max pressure 1,75 bar)*
0 to 100°C 32 to 212°F	78 L 20.6 gal	3.8 m ³ / min	53.8 kg / 118.6 lbs	Ambient, Hot Water, Steam	less than or equal to 500 cycles

Lining Drum 780

Size (mm/inches)	Pipe Range (dn/in)	Liner Capacity (m/ft)	Drain Diameter (mm/inches)	Min / Max Operating Pressure	Connection
625x917x1131mm 24.6x36x44.5"	DN50-225 2-9"	101m / 331' DN100 / 4"	DN50-225 2-9"	0-1.7 bar 0-25 PSI	6" Storz or Camlock
Allowable Operating Temperature Range	Volume	Maximum allowable airflow	Weight (kg/lbs)	Curing	Operating Cycles (under max pressure 1,75 bar)*
0 to 100°C 32 to 212°F	180 L 47.5 gal	3.8 m ³ / min	69 kg / 152.1 lbs	Ambient, Hot Water, Steam	less than or equal to 500 cycles

Lining Drum 780 Wide

Size (mm/inches)	Pipe Range (dn/in)	Liner Capacity (m/ft)	Drain Diameter (mm/inches)	Min / Max Operating Pressure	Connection
843x1054x1201mm 33.2x41.5x47.3"	DN50-300 2-12"	30m / 101' DN300 / 12"	DN50-300 2-12"	0-1.7 bar 0-25 PSI	8" Storz or Camlock
Allowable Operating Temperature Range	Volume	Maximum allowable airflow	Weight (kg/lbs)	Curing	Operating Cycles (under max pressure 1,75 bar)*
0 to 100°C 32 to 212°F	264 L 69.7 gal	3.8 m ³ / min	82 kg / 180.8 lbs	Ambient, Hot Water, Steam	less than or equal to 500 cycles

*Fatigue, number of cycles considered:

P1=1,75 bar / N1=60 cycles

P2=1,0 bar / N2=1065 cycles

P3=0,5 bar / N3= 9450 cycles

The number of full pressure cycles or equivalent full pressure cycles is less than or equal to 500.

INTENDED USE

This machine is intended for the following uses:

1. Installing CIPP Inversion Liners

PARTS & ACCESSORIES

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Picote 550/780/780W Lining Drum Parts & Accessories	
Part Number	Description
2301100050	Inversion Head DN50/2" with 6" Storz Coupling
2301100070	Inversion Head DN70/3" with 6" Storz Coupling
2301100100	Inversion Head DN100/4" with 6" Storz Coupling
2301100150	Inversion Head DN150/6" with 6" Storz Coupling
2301100200	Inversion Head DN200/8" with 6" Storz Coupling
2301100001	Inversion Head Elbow 45° with two 6" Storz Couplings
2301100002	Inversion Head Elbow 90° with two 6" Storz Couplings
2301200050	Inversion Head DN50/2" with 6" Male Camlock Coupling
2301200070	Inversion Head DN70/3" with 6" Male Camlock Coupling
2301200100	Inversion Head DN100/4" with 6" Male Camlock Coupling
2301200150	Inversion Head DN150/6" with 6" Male Camlock Coupling
2301200200	Inversion Head DN200/8" with 6" Male Camlock Coupling
2301200001	Inversion Head Elbow 45° with two 6" Camlock Couplings
2301200002	Inversion Head Elbow 90° with two 6" Camlock Couplings
2301600001	Storz reducer from 8" to 6"
2301700001	Camlock reducer from 8" to 6"
2301700250	Inversion Head DN250/10" with 8" Storz
2301600300	Inversion Head DN300/12" with 8" Storz
2301700250	Inversion Head DN250/10" with 8" Camlock
2301700300	Inversion Head DN300/12" with 8" Camlock
2300000002	Inversion Tank Key for Storz

Always follow the Picote Solutions instructions when installing and using the Lining Drum with accessories.

OPERATING INSTRUCTIONS

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⚠ WARNING

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Visually check the Lining Drum for damage. Do not use if the unit has clearly been damaged!
Ensure proper inflow of compressed air and that the pressure regulator is functioning properly.
Make sure the Lining Drum is on a level surface to avoid it from tipping over.

Before Use:

There are multiple different nozzles available for the Lining Drums. To make installing and removing different nozzles easier, make sure the seals are clean.

Changing Side of the Turning Wheel

NOTE! Never remove the Turning Wheel when the Drum is pressurized! The Turning Wheel can be moved to either side of the drum. To disconnect the wheel, turn the axle pass through connector counter clockwise. Do the same to the star knob on the other side. The middle hubs will come off after couple turns after which the Wheel can be removed from the axle.



OPERATING INSTRUCTIONS

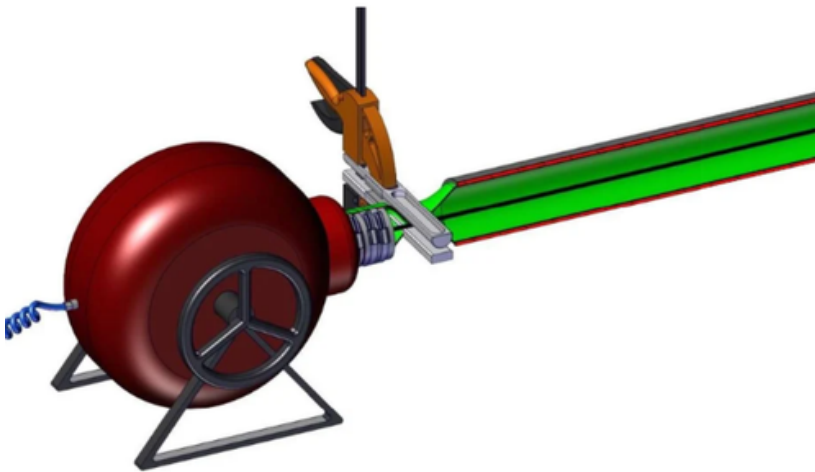
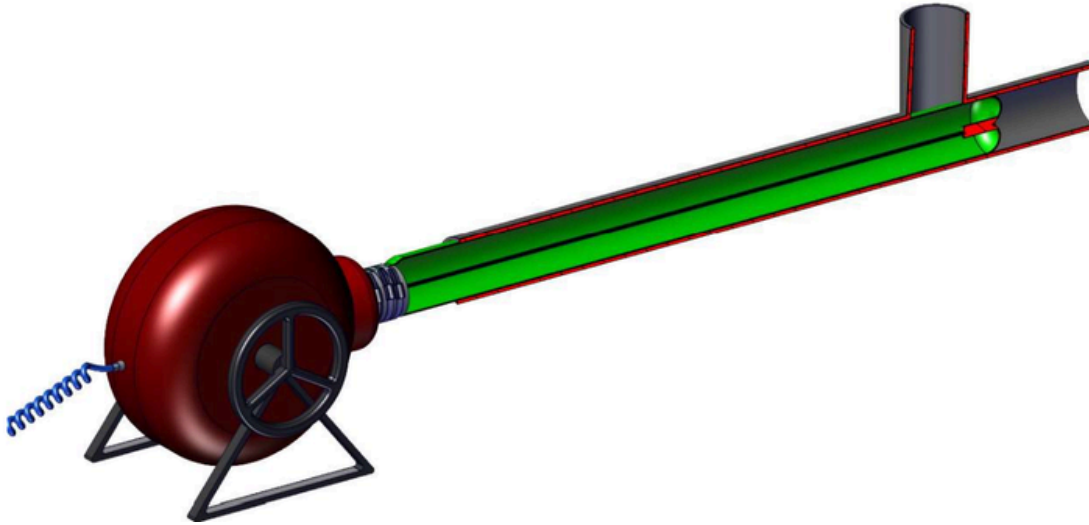
SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE

During Use:

Control the flow of the liner with the Turning Wheel and by adjusting the installation pressure.

The Lining Drum can be left attached to the liner or alternatively a Liner Compressor can be used to prevent the liner from collapsing during the installation of Picote Curing Cap.

Either the auxiliary port or the Centre Axle pass through can be used to hot water or steam cure the liner.



After Use:

Depressurize the Lining Drum before attempting to open the hatch.

Clean up possible resin stains.

MAINTENANCE

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WARNING

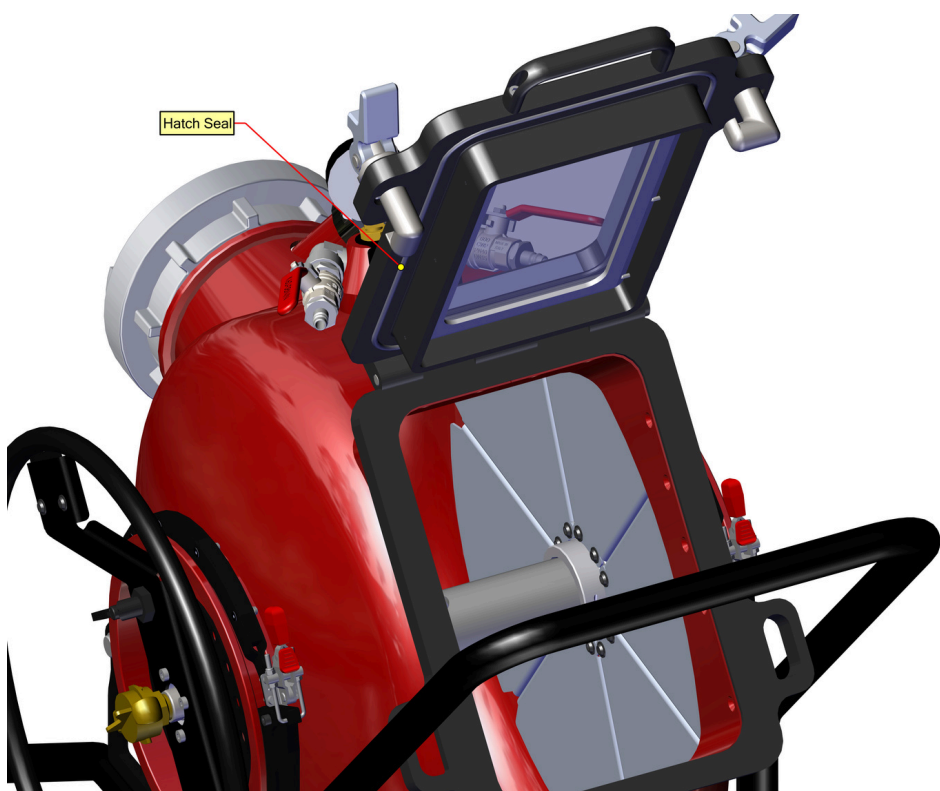
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Seal Maintenance:

Visually inspect the door hatch and Camlock or Storz seal condition. Clean if necessary. If it appears damaged or is leaking, order a replacement part from you reseller. Silicone grease can be used for dry seals if required.

Hatch Seal:

The Hatch Seal can be pried out and replaced with a new one. The replacement needs to be cut down during the installation process and the ends should be glued together. **NOTE! Do not lubricate the groove.**

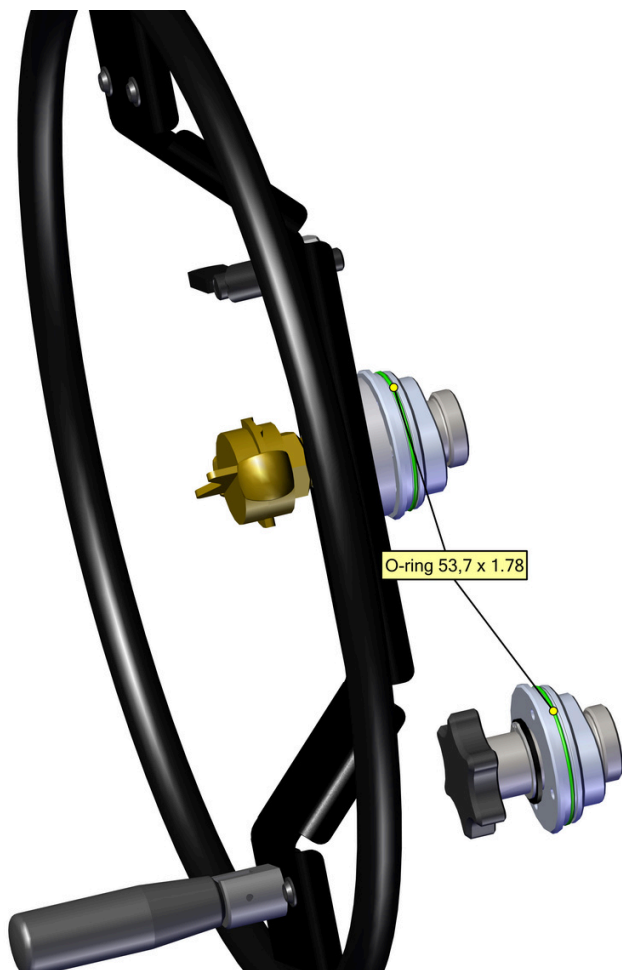


Storz Seal / Camlock Seal:

Pry out the old seal, clean the groove if it is dirty and push in the new seal. Lubricant or soapy water can be used to make fitting a Storz seal easier.

Turning Wheel and Center Hub seal replacement:

Pry out the old seal, clean the groove if it is dirty and push in the new seal.



MAINTENANCE

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Cart Brake Pad & Cart Side Retaining Plate Replacement

To replace the Brake Pad, loosen the five hex screws, open the lever and pry out the brake pad. Replace part and assemble in reversed order.

To remove the four hex screws and nuts holding the side retaining plates. Replace both Side Retaining Plates and assemble in reversed order.



MAINTENANCE - SPARE PARTS

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Picote 550/780/780W Lining Drum Spare Parts	
Part Number	Description
900004542	Hatch Seal. Sold per meter. Minimum 1,25 m /4.1 ft
900004573	6" Storz Seal
900004572	6" CAMLOCK Seal
900004538	Gas Spring for Hatch
900004521	Wheel With Brake
900004520	Wheel Without Brake
900004507	Cart Brake Pad
900004499	Cart Side Retaining Plate
900004548	O-Ring 53,7 x 1,78

WARRANTY POLICY & PROCEDURE

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Limited Warranty:

Picote warrants to the original End User that the Product purchased by such End User will operate in accordance with, and substantially conform to their published specifications when shipped or otherwise delivered to the End User and for a period of one (1) year, except electric motors for which the warranty period shall be six (6) months, provided, however, that Picote does not warrant any claim or damage under this Warranty if such claim or damage results from:

1. Consumable parts or normal wear and tear resulting from use of the Products,
2. Product overload or overheated motor,
3. Regular periodic maintenance of Products,
4. Misuse, neglect, or improper installation or maintenance of the Products, or use of Products not for their intended purpose,
5. Products that have been altered, modified, repaired, opened or tampered with by anyone other than Picote or an authorized Picote Service Centre, or unsuitable or unauthorized spare parts, accessories or third party products when using the Products or;
6. the use of the Products not in compliance with their respective Documentation, user manuals, safety and maintenance instructions, and any usage restrictions contained therein, or
7. accident, fire, power failure, power surge, or other hazard.

Otherwise, the Products are sold AS IS. End User is responsible for using the Products within their specifications and instructions as contained in the Documentation.

EXCEPT AS SPECIFIED IN THIS WARRANTY, ALL EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS, AND WARRANTIES INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NON INFRINGEMENT, SATISFACTORY QUALITY OR ARISING FROM A COURSE OF DEALING, LAW, USAGE, OR TRADE PRACTICE, ARE HEREBY EXCLUDED TO THE EXTENT ALLOWED BY APPLICABLE LAW. TO THE EXTENT AN IMPLIED WARRANTY CANNOT BE EXCLUDED, SUCH WARRANTY IS LIMITED IN DURATION TO THE WARRANTY PERIOD. BECAUSE SOME STATES OR JURISDICTIONS DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, THE ABOVE LIMITATION MAY NOT APPLY. This disclaimer and exclusion shall apply even if the express warranty set forth above fails of its essential purpose.

TRAINING

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TRAINING CENTERS:

- Phoenix, Arizona, **USA**
- Porvoo, **Finland**
- Sandhurst, England, **UK**



Visit our website at www.picotegroup.com or contact us at training@picotesolutions.com to find out about course offerings, pricing, and scheduling.





Latest Revision Date: Sept 14, 2026
Revision number: 5



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Your Reseller/Salesperson or Picote

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