GB/US . . . LP7 & LP7+ Lifting platform

Vers. 2.00
LP7 & LP7+

Item numbers:
LP7: 5582-xx
LP7+: 5583-xx

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1.00 Purpose and use

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1.02 Purpose and use

Purpose
The lifting platform can be used to lift people in need of help with negotiating height differences.

Use
The LP7 & LP7+ are designed for permanent installation indoors and outdoors.

Entering and exiting the platform takes place at each end of the lifting platform. The access ramp and doors serve to protect the user by keeping him/her from rolling off during use. There are also handrails on both sides of the lifting platform. The LP7+ is fitted with doors as a standard feature. The lifting platform is designed and manufactured in relation to applicable norms.

LP7 can lift up to 800 mm.
LP7+ can lift up to 1500 mm.
The lifting interval of the LP7 and the LP7+ can be adjusted between heights of 50-1500 mm.

The lifting platform may be used in temperatures from -10 to +40 degrees. In temperatures of less than zero, the application of suitable heating beneath the platform is recommended.

Great importance is attached to the design and implementation to achieve attractive and harmonious installation in different environments, private and public. Public environments are institutions, public buildings, etc., where the lifting platform is subject to a certain amount of supervision. In these environments, the lifting platform should be locked, protecting it against unintentional use or games.
1.03 Important/warnings

- All of the operating instructions must be read before the product is used.
- The LP7 & LP7+ must be assembled by the Guldmann Service Team, or by an engineer approved by Guldmann.
- The LP7 & LP7+ are controlled by a microprocessor print which can be damaged by static electricity if touched without the necessary precautions. The electronics must therefore be serviced by trained technicians only.
- The accompanying safety chain must be used when the service engineer moves around beneath the lifting platform.
- The platform’s secondary power source (battery) must be disconnected via the key switch when the service engineer is working beneath the platform.
- The MAXIMUM load of 350 kg (770 lbs.) must not be exceeded.
- The lifting platform and access ramp must be swept clean of gravel, fallen leaves, snow, etc. before use.
- The lifting platform is to be used to transport people, and must be used in accordance with the descriptions in this manual.
- The lifting platform must not be used during fire.
- Safety equipment must only be reset by qualified assistance.
- All playing by and with the lifting platform is forbidden.

1.04 Unpacking and preparation

Visual check
If the packaging is damaged on receipt, the parts of the LP7 & LP7+ must be carefully examined for visible deficiencies, defects, or faults. If damage is suspected, the LP7 & LP7+ must not be used until qualified service personnel or the Guldmann Service Team have approved this.

Any type of damage or defects on the packaging must always be noted in the shipping documents.
1.05 Safety rules
When working beneath the platform, there is a risk of becoming trapped between the moving parts of the platform. The following safety rules must therefore be observed:

1. The safety chain/strap must always be used while working beneath the platform.
2. The secondary power source (battery) must be disconnected via the key switch while working beneath the platform.
3. The lifting platform may NOT be raised/lowered while work is being performed beneath the platform. This rule applies even if safety devices are in place.
4. Once the platform has been installed, connected and can be raised/lowered only one person must work at the platform at a time.

Safety equipment
When working beneath the platform, a safety stop MUST be used to mechanically block the platform from descending.
1.06 Assembly
The LP7 & LP7+ must be assembled by the Guldmann Service Team or an engineer approved by Guldmann according to Guldmann’s instructions.

1.07 Electrical connection

- Input: 100-240V AC, 50-60 Hz
- Maximum consumption: 0.35 A

Connect the platform to the mains network via the fitted rubber cable. The cable can be used both indoors and outdoors.

- Brown lead: Phase lead
- Blue lead: 0 lead
- Green/yellow lead: Earth clamp

**Important!**
For safety reasons, the lifting platform must always be earthed.

2.00 Description of functions

2.01 Labels
(positioned on the lifting platform).

**max xxx kg/xxx lbs**

**max x**

**Stepless**

Emergency lowering label

- Turn the key to (O) to turn the platform off.
- Turn the key to (I) to turn the platform on.
- Turn the key to the and hold it for 10 sec to activate the emergency lowering function.
2.02 The operating panel
The lifting platform is operated by means of the operating panel.
The lifting platform is logical and unproblematic to operate and use, even with
no prior knowledge.
When the platform is parked at the lower level, the ramp/doors can be
opened by pressing and holding the DOWN button.

1. UP
2. DOWN

Raising the lifting platform from the lower level
1. When the lifting platform is at the lowest level and the access ramp has been
   lowered to the proper level, users can freely drive up on to the
   lifting platform.
2. Activate the control panel by pressing (1), and the access ramp will go up /
   the doors will close; this way, the access ramp serves to protect the user from
   rolling off.
3. When the access ramp is all the way up and (1) is held in, the platform will
   begin its ascent. The platform only ascends when (1) is actively held down
   (hold-to-run).
4. When the lifting platform is level with the landing, the platform stops automati-
   cally and the user can drive onto the landing.
5. When using the safety gate, it is opened automatically. It is electronically
   secured and cannot be opened until the lifting platform is in the highest posi-
   tion.

Lowering the platform from the upper level
1. The user drives onto the lifting platform.
2. When using the safety gate, it must be closed before the platform can be
   operated. This is done by activating (2).
3. Activate the operating panel by pressing button (2) to lower the lifting platform.
   The platform only descends when (2) is actively held down (hold-to-run).
4. When the lifting platform is at its lowest level, the access ramp will be low-
   ered/the doors open, and the user can drive off the lifting platform.
Error situation
The lifting platform may indicate multiple error situations on the control panel. This is indicated on the raise and lower buttons by one or more flashes followed by a pause. The following is a description of error situations along with possible solutions. See section 5.3 Troubleshooting for additional information.

1 flash: Overload activated. Remove load so that the platform can be operated again.
2 flashes: Contact the supplier
3 flashes: Contact the supplier
4 flashes: Overheating – allow the lifting platform to cool off for 20 minutes, and contact the supplier if problems continue
5 flashes: Contact supplier
6 flashes: Contact supplier
7 flashes: Contact supplier
8 flashes: Contact supplier

Lasting flash: Contact supplier

2.03 Safety functions

Important!
Individual and specific consideration must be given to how an emergency summoning system must work. One or more responsible people should be appointed to help with the correct use of the lifting platform. It should always be possible to call those responsible in any emergency situation. The users must be informed of who holds this responsibility.

Description of emergency stop
The emergency stop must be used in emergencies only. If the emergency stop is activated owing to a malfunction, the dealer must be contacted before the LP7 & LP7+ are used again. The emergency stop button (3) is located at the top of the right tower. It stops all movement when activated.

Important!
The emergency stop button must be pulled out, and the LP7/LP7+ can be restarted by pressing the control buttons. Activate the emergency stop button for 5 seconds and then release it to restart the control system.
Description of electrical emergency lowering – lifting platform

*Great attention and the required mobility is needed to use the emergency lowering, which is why the person responsible for the use of the lifting platform should be called.*

*The person responsible must have read the manual so that he can be called at any time to assist a user.*

The emergency lowering must be used in emergencies only. This requires qualified assistance.
You must contact the dealer before using the LP7 & the LP7+ again. Remove the key after installation and keep it with the manual.

The electric emergency lowering device is activated by turning the key switch to the left for 10 seconds. The platform will then begin its descent. The platform will stop if the key is released. If the key is not activated for 10 seconds, the electrical emergency lowering device will be deactivated, after which it can be activated again.
The switch is located in the left tower on the lifting platform.

Description of emergency lowering – access ramp

The access ramp is fitted with a hexagonal screw on the left side.
Remove this screw and the access ramp can be closed up.

*Important!*
When the screw is removed from the access ramp, the ramp can no longer be secured. Hold onto the access ramp when removing the screw.

Safety curtain
The safety curtain ensures that nobody can move in beneath the platform when it is at its highest level and thereby risk getting caught when the lifting platform is lowered. The safety curtain is fitted upon delivery.
If the safety curtain has not been installed, or if it is damaged and the area beneath the platform cannot be accessed, the platform cannot be used until the problem has been solved.
Safety cut-out function
If anyone or anything gets caught beneath the platform when it is lowered, the descent will stop as soon as the safety safety list is activated.
The safety function is reset by pressing "Raise" (1), which will raise the platform. Next, remove the object that activated the safety list.

Overload protection
The platform is designed so that it is protected against overloading. In the event of overload, the platform will issue a visual alert on the control panel. The platform cannot be used in the event of an overload. Remove load so that the platform can be operated again.

2.04 Accessories

Extra operating panel
External control panels with "Raise" or "Lower" buttons for wall or free-standing installation.
The control panel is fitted with a lock. The control panel is also available in a wireless version.

Wireless operation
Use this when there are one or more independent users.
This allows users to control the lifting platform without being dependent on a helper.
Heating cable
The lifting platform is delivered without heating. Heating cables can be embedded in a concrete foundation beneath the base frame. The purpose of heating is to keep the lifting platform free of snow and ice.

Recessing the Platform
It is possible to recess the platform to provide access without changing levels. If the platform is for recessing, please order it on at special item No.
Be aware that when the platform is recessed, the lifting height is reduced by that amount.
Proper drainage must be provided for outdoor recessed installations.

3.00 Dismantling and transport

3.01 Transport
The lifting platform is delivered assembled on a transport pallet.

3.02 Packaging during transport
The lifting platform must always be transported in its original packaging.

4.00 Maintenance and storage

4.01 Cleaning
The LP7 & LP7+ are cleaned with a sponge or brush and soapy water. The LP7 & LP7+ can be sprayed or rinsed at ordinary water pressure; they must not be rinsed under high pressure.
Never use acids, bases or solvents for cleaning.

4.02 Storage and keeping
No special requirements. Please note, however, that the batteries’ life span is shortened if they are not connected to the charger for a long period of time.
4.03 How is corrosion avoided?
The LP7 & LP7+ are made of corrosion-resistant materials and require no further corrosion prevention.

Avoid using salt on the platform as it will reduce the platform’s lifetime.

4.04 What maintenance is required by the owner?
The owner is responsible for ensuring that legally mandated service inspections are performed.

Cleaning as required.

Keep the space around the lifting platform clean to avoid interruptions caused by foreign objects.

5.00 Servicing and useful life

5.01 Useful life and servicing
The LP7 & LP7+ must be inspected in accordance with the national law and at least twice a year.

Attention: Please note that there can be specific demands if there is public access to the lifting platform.

• The LP7 & LP7+ have an expected life span of 15 years with regular daily use.
• The lifting actuator must be replaced after 10 000 lifts.

The life span is based on correct usage, cleaning, and maintenance, as well as two annual inspection and maintenance by qualified personnel or the Guldmann Service Team. After this period, the LP7 & LP7+ must be assessed by qualified personnel before future use.
Spare parts lists and drawings can be ordered from the manufacturer or the distributor.
## 5.02 Troubleshooting

<table>
<thead>
<tr>
<th>Fault</th>
<th>Possible cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>None of the electrical functions works.</td>
<td>The emergency stop button has been pressed.</td>
<td>Turn the emergency stop button to the right.</td>
</tr>
<tr>
<td></td>
<td>The platform is off.</td>
<td>Turn on the platform using the key switch. The key must be vertical to turn the platform on.</td>
</tr>
<tr>
<td></td>
<td>The platform has been shut off.</td>
<td>Wait about three hours for the batteries to recharge.</td>
</tr>
<tr>
<td></td>
<td>The fuse has blown.</td>
<td>Change the fuse or reset the residual current device.</td>
</tr>
<tr>
<td>The lifting platform does not go all the way down.</td>
<td>Foreign objects below the lifting platform/lift basket.</td>
<td>The safety list is activated. Clear away snow/ice or other foreign objects.</td>
</tr>
<tr>
<td>The lifting platform shows overload.</td>
<td>Remove some of the load from the lifting platform.</td>
<td>Do not exceed the maximum load of the platform.</td>
</tr>
<tr>
<td>The lifting platform won’t start after the lower door has been closed.</td>
<td>The lower door does not indicate closed and locked.</td>
<td>Press the DOWN button until the door is completely open. Check that there are no foreign objects between the door and the lifting platform. Run the lifting platform as normal. If the problem continues, contact the supplier to adjust the door lock.</td>
</tr>
<tr>
<td>The lifting platform does not go down after the upper door has been closed.</td>
<td>The upper door shows no sign that it has been closed and locked.</td>
<td>Press the UP button until the door is open. Check that there are no foreign objects between the door and the lifting platform. Run the lifting platform as normal. If the problem continues, contact the supplier to adjust the door lock.</td>
</tr>
<tr>
<td>The control panel flashes</td>
<td>1 flash: Over load activated.</td>
<td>Remove load so that the platform can be operated again.</td>
</tr>
<tr>
<td></td>
<td>2 flashes: Error on EOS inputs</td>
<td>Contact supplier</td>
</tr>
<tr>
<td></td>
<td>3 flashes: Error on hall elements or magnet</td>
<td>Contact supplier</td>
</tr>
<tr>
<td></td>
<td>4 flashes: Overheating</td>
<td>Allow the lifting platform to cool off for 20 minutes, and contact the supplier if problems continue</td>
</tr>
<tr>
<td></td>
<td>5 flashes: Error on Power_Hbridge</td>
<td>Contact supplier</td>
</tr>
<tr>
<td></td>
<td>6 flashes: Low voltage</td>
<td>Contact supplier</td>
</tr>
<tr>
<td></td>
<td>7 flashes: Power supply error</td>
<td>Contact supplier</td>
</tr>
<tr>
<td></td>
<td>8 flashes: Overvoltage</td>
<td>Contact supplier</td>
</tr>
<tr>
<td></td>
<td>Lasting flash: Lost position</td>
<td>Contact supplier</td>
</tr>
</tbody>
</table>
6.00 Technical specifications

Dimensions
LP7 exterior dimensions (LxWxH) .................. 1609 x 1246 x 1206 mm
LP7 interior dimensions (LxW) .......................... 1560 x 900 mm

LP7+ exterior dimensions (LxWxH) .................. 1609 x 1246 x 1206 mm
LP7+ interior dimensions (LxW) ......................... 1520 x 900 mm

Safety door (WxH) .................................. 970 x 1100 mm

Lifting height
LP7 and LP7+ ........................................ 50 til 1500 mm**

* Be aware of local regulations in relation to lifting height.

Weight
LP7 ...................................................... 225 kg / 495 lbs.
LP7+ .................................................. 275 kg / 605 lbs.
Safety door ........................................... 55 kg / 121 lbs.

Maximum load ......................................... 350 kg / 770 lbs.
Lifting speed .......................................... 28 mm/sec.
Electrical connection ..................... 230V/115V (USA: 120V/115V)
Power consumption on stand-by ....................... 3 W
Power consumption in use .............................. 14.7 W
Batteries .............................................. 2 x 12V/7.2 Ah
Gastight and maintenance-free

Cap class
Lifting platform – components ....................... IP 65
Operating panel ....................................... IP 54
Permissible connection time/intermittence factor
(Work/Break ratio in per cent) ......................... 10/90

7.00 EC-declaration of conformity

A. Users guide
Before using the product, read the entire operation manual including warranty.

B. WARRANTY
Guldmann warrants its equipment is free from material defects under normal use, and will perform substantially in accordance with the specifications set forth in documentation provided with the equipment.

This express warranty shall be in effect for one year from the date of original purchase and installation (the “Warranty Period”). If a valid claim is made during the Warranty Period for malfunction or equipment defect, Guldmann will repair or replace the equipment at no additional cost to you. Guldmann retains sole discretion as to whether the equipment will be repaired or replaced.

This warranty shall be null and void if the equipment is operated and maintained in any manner inconsistent with its intended use or the instructions provided with the product. Further, in order for the warranty to remain in effect for the full Warranty Period, all service to the equipment must be provided by a Guldmann designated technician. Any parts or components repaired or replaced by a Guldmann designated technician will be guaranteed for the remainder of the Warranty Period.

The warranty does not cover any part of the equipment which has been subject to damage or abuse by the user or others. The warranty does not cover any part of the equipment which has been altered or changed in any way by the user or others. Guldmann does not warrant that the lifting device functions will meet your requirements, be uninterrupted or error free.

The warranty set forth is in lieu of all other express and implied warranties, whether oral, written or implied, and the remedies set forth above are your sole and exclusive remedies. Only an authorized officer of Guldmann may make modifications to this warranty, or additional warranties binding on Guldmann. Accordingly, additional statements such as advertising or presentations, whether oral or written, do not constitute warranties by Guldmann.

Service or Repair
Contact Guldmann Repair for an authorization to return any defective item during the Warranty Period. You will be provided with a return authorization number and address for returning the item for warranty service or replacement. Do not return items to Guldmann under warranty without receiving a Return Authorization Number.

If mailing the item, pack it carefully in a sturdy carton to prevent damage. Include your Return Authorization Number, a brief description of the problem and your return address and phone number. Guldmann does not assume the risk of loss or damage while in transit, so it is recommended you insure the package.