

Manual



# Digitower

## SAFETY



### Important Information

Digitower is intended for temporary illumination. Digitower is designed to protect the operator as much as possible and all-important safety functions are clearly labeled. It is however a requirement that the operator understands the limitations of this equipment by reading this manual.

## READ THIS CAREFULLY BEFORE OPERATION TO AVOID PERSONAL INJURY OR VOID WARRANTY

- ALWAYS deploy the stabilizing legs, secure their locking and make sure Digitower is firmly secured to the ground and stands level before the armature and mast is raised.
- ALWAYS make sure the area above the unit is open and clear of overhead wires and obstructions.
- ALWAYS lower the mast when not in use, or if high winds or electrical storms are expected in the area.
- ALWAYS use electrical connections with protective earth and ground fault switch.
- ALWAYS keep area around the unit clear of people while raising and lowering the mast.
- ALWAYS wear helmet and correct PPE gear when operating mast.
- NEVER hold on to the armature or mast sections when raising the mast.
- NEVER start a unit in need of repair.
- NEVER operate a unit while tired, distracted, or under the influence of drugs or alcohol.
- NEVER put any extra weight/equipment on mast or armature.
- NEVER use chemical substances or high-pressure water to clean/rinse MLT. Use garden hose pressure only.

## SAFETY LABEL GUIDE

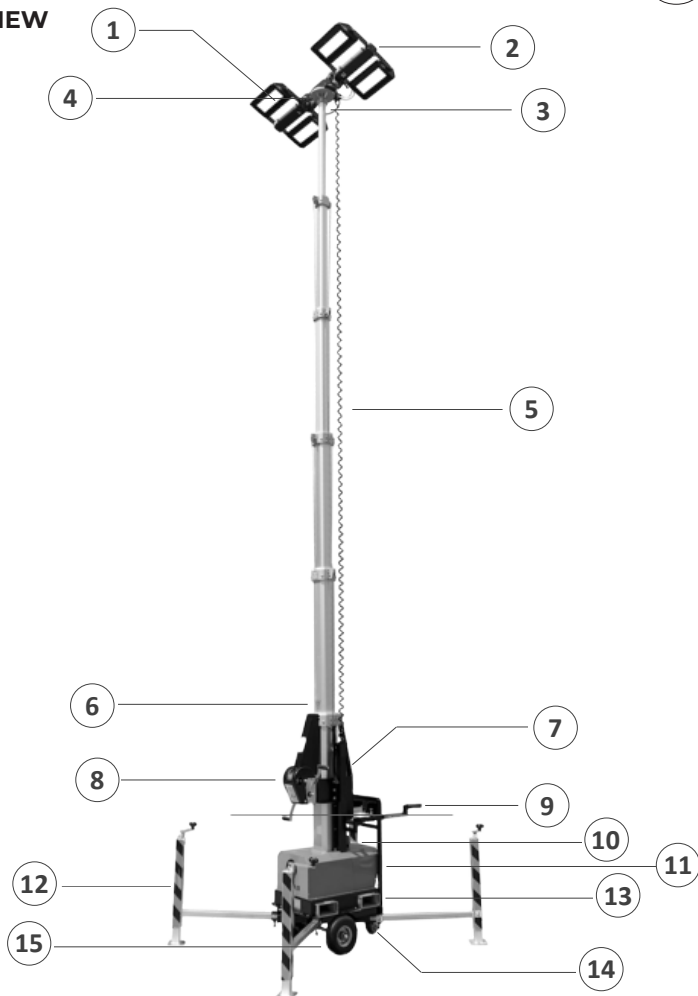
These signs inform the user of any danger which may cause damages to persons.

Signs	Meaning	Signs	Meaning
	Risk of electric shock		Read user manual before
	Danger of hand crush		Crane lifting point position
	Danger of hand crush		Lifting locations for forklift
	Input voltage range		Rotate crown to transport position before using crane
	Matching legs with base		Warning of safety check to ensure red safety wire is not
	Light direction indication		

The manufacturer is not responsible of any damage to things or persons, resulting as consequence of inobservance of safety norms.

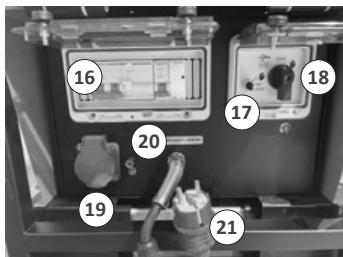
## COMPONENT OVERVIEW

1. Armature
2. Armature platform
3. Armature junction box
4. Top arm rotation
5. Spiral cable
6. Mast Safety lock
7. Crane hook
8. Mast winch (or motor)
9. Handles
10. Light Sensor
11. Control panel
12. Stabilizers
13. Forklift pockets
14. Castor wheel
15. Puncture proof wheels

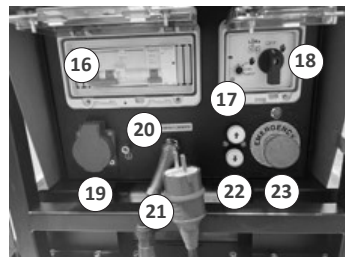


## CONTROL PANEL DESCRIPTION

16. Main Circuit Breaker
17. Manual Light Control
18. Lighting Control Selector
19. Outlet Socket
20. Additional Ground Terminal
21. Power Input Plug
22. Mast controls
23. Emergency Stop



Manual Winch



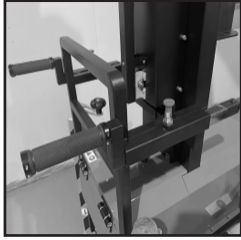
Electric Winch

# OPERATION INSTRUCTIONS

EN

## 1. HANDLING & TRANSPORT

There are multiple options to move or transport the Digitower



### MANUAL

Pull out the locking pins and extract handles. Check that the pins enter the locking holes of the handle, then raise the brake to unlock the caster and begin to move. The handles can be pulled out and twisted to adjust



### CRANE

Raise the structure using the central lifting point on the mast. Make sure armature is not above crane hook and remove the four light plugs from junction box on top of mast before lifting.



### FORKLIFT

Raise the structure through a forklift, using the lateral pockets for the insertion of the forks.

## 2. PRELIMINARY CHECK

Before every usage, the operator must check the mast, top arm, base and electrical wires for damage. This relates to: Main power cable & plug, Extension cable & plug, Armature cables & Spiral cable.

Any damage found on these items requires immediate service. Do not proceed with operations until fault is removed.

## 3. GROUNDING

For operators' safety, both the input plug and output socket of Digitower are grounded. If the incoming power supply is not grounded, the grounding of the machine always needs to be done. Always use the terminal located on the control panel (page 2, item 20) and pay attention on the section of the cable used is never less than 10 mm<sup>2</sup>. Always perform grounding operations in compliance with local/

## 4. LEG ASSEMBLY

Each leg and section of light tower base are marked either L1 or L2.

Make sure that the correct legs are inserted into the correct sections of the base:

L1 stabilizer leg to L1 base section

&

L2 stabilizer leg to L2 base section



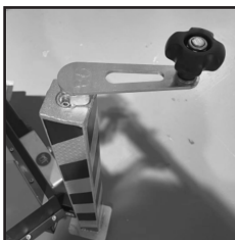
## 5. POSITIONING LIGHT TOWER

Angle the Digitower base so the power supply is accessible to the control panel and the light heads are aiming in the direction you require the light to be. When satisfied with the position, step on the brake of the caster to lock the light tower in position.

## 6. STABILIZING LIGHT TOWER



1. Extract the stabilizers by releasing the locking pins. The pins should automatically lock back into place when stabilizers are fully extended.



2. Make sure the pins are locked in and then lower the stabilizers through the handles.



3. Refer to the spirit level for the correct stability of the structure.

### WARNING!

**DO NOT RAISE THE MAST IF ALL STABILIZERS ARE NOT CORRECTLY DEPLOYED.**

## 7. ARMATURE CONFIGURATION



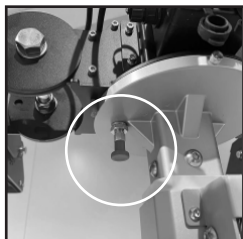
### 4. RAISING ARMATURES

Pull out the lock pins and raise the two armature arms up until the lock pin drops into position and the armature arms are horizontal.



### 5. TILT

Loosen the handle and tilt the armatures upward to get far throw of the lights. The fixtures can also be faced to the ground but throw length will be shorter



### 6. ROTATING TOP ARM

If required, pull out the lock pin and rotate crown to the desired direction. Make sure the lock pin drops back in to secure the position.

## 8. ELECTRICAL CONNECTION

7. Connect the input power cable to mains socket
8. Turn on the main breaker
9. Select light control function
10. Use the electrical outlet to connect additional Digitowers. Do not connect more than two additional units.

## 9. MAST OPERATION

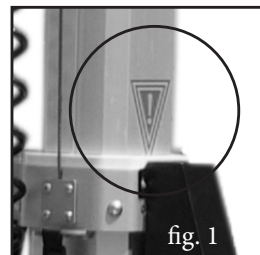
The stabilizers **MUST** remain extended while the mast is up. Failure to level the unit or extend the stabilizers will severely reduce the stability and could allow the light tower to tip and fall.

### MANUAL MAST

**11 a.** Rotate manual winch to raise mast until safety pin clicks in. The inverse red triangle (fig 1.) indicates the MAX height approaching. **DO NOT** attempt to raise the mast past the MAX height. Failure to not follow this instruction could cause serious injury.

### ELECTRIC MAST

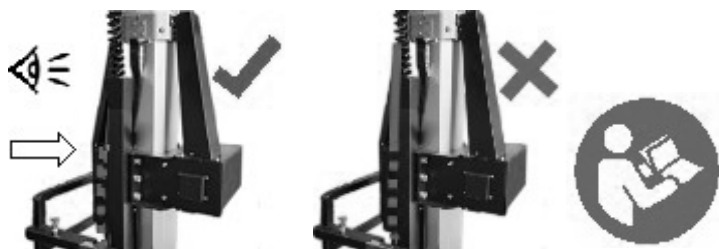
**11 b.** Raise the mast by pressing the UP button on control panel. The motor will cut out once the mast has reached the MAX height.



## 10. STOPPING (LOWERING MAST)

- Turn Lights to OFF.
- Perform Safety Check:

Ensure Red Safety Wire is Not Visible outside of chamber before lowering mast

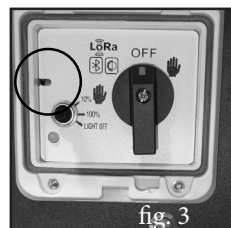


- **MANUAL MAST** Pull out the mast safety pin (fig.2), then lower the mast down until it is fully retracted.
- **ELECTRIC MAST** Press the **DOWN** button on the control panel to lower the mast down until it is fully retracted.
- Rotate crown to transport position
- Pull out the red locking pins to fold down armatures
- Tighten transport straps to armatures
- Retract stabilizers, to minimum position



### EMERGENCY LOWERING OF ELECTRIC MAST

In case of power outage or emergency, use a small screwdriver to press and hold the button inside the hole (fig.3), and simultaneously press the MAST DOWN button to lower the mast.



1. Download the plaid app by scanning the QR code.



2. Scan the QR code: "Plaid tutorial". Follow the instructions to create users and configure your device in the app.



## TECHNICAL DATA

	Electric Winch	Manual Winch
Illuminated Surface > 5 lux	4.452 m <sup>2</sup>	4.452 m <sup>2</sup>
System Power	1.200 W (Luminair) 300 w (motor)	1.200 W
Luminous Flux	173 600 lm	173 600 lm
Lumen/W	140	140
Beam Angle	Ultra assymetric light image	Ultra assymetric light image
Colour Temperature (CCT)	5 000	5 000
Operating Voltage	100-305 VAC/50Hz	100-305 VAC/50Hz
Power Factor	6,000 K	6,000 K
Electrical Class	Class 1	Class 1
Protection	Over Voltage, Short Circuit, Thermal	Over Voltage, Short Circuit, Thermal
Dimmable	Yes	Yes
Plug (input)	0.3 m Schuko 230 V	0.3 m Schuko 230 V
Socket (output)	Schuko 230 V	Schuko 230 V
Ambient Operating Temp. Range	-40C° +45C°	-40C° +45C°
Storage Temp. Range	-40C° +80C°	-40C° +80C°
Elevation System	Electric	Manual
Fully Extended Hight	7 Meters	7 Meters
IK Classification	8/9 (PC protection on luminaires)	8/9 (PC protection on luminaires)
Mast Rotation	340°	340°
Trailer	Handcart	Handcart
Dimensions (min.)	788 x 658 x 2046 mm	788 x 658 x 2046 mm
Dimensions (max.)	1455 x 1752 x 6930 mm	1455 x 1752 x 6930 mm
Wind Resistance	110 km/h	110 km/h
Housing Finish	UV Stabilised Powder Coated	UV Stabilised Powder Coated
Weight	240 kg	217 kg
Service Life L80 B50 (LED)	>100 000 h	>100 000 h

## MAINTENANCE

Maintenance operations shall be carried out on the unit at rest. Ordinary and/or extraordinary maintenance shall always be carried out by authorized, skilled personnel. Maintenance personnel shall be equipped with proper Personal Protective Equipment (PPE).

The recommended maintenance is as follows:

### **Lubrication of mast sections.**

Each year the inside of the mast sections should be lubricated with silicon spray.

1. Spray silicon inside the external mast collar sections for about 3 seconds.
2. Repeat procedure for each mast section.

### **Lubrication and check of steel cables**

1. Make a visual inspection of the steel cables
2. Spray silicon on to the winch cable on each wheel joint of the mast
3. Repeat procedure for each cable wheel joint.

### **Lubrication of wheel axel**

1. Spray silicon to the axel of the wheels for about 3 seconds.
2. Repeat procedure for each wheel.

### **Period of inactivity**

If the Digitower is not used for a period more than 5 months, when the machine is turned on to work again, it must have a visual inspection conducted of the electric connections, floodlights, steel cables and serrations of telescopic mast. Any damage found on these items requires immediate service. Do not proceed with operations until fault is removed.

For electric winch model, after inactive for >3 months, connect Digitower to mains power to charge the battery for a minimum of one hour before using light tower.



## DISPOSAL AND RECYCLING



After end of the lifetime this machine shall be disposal according to the national rules. It's recommended that it is disposal by waste management companies certified according to ISO 14001. The ISO 14001 defines global valid criteria for efficient environmental management system



All energies from the machine are to cut off.

Clean the machine from hazardous environment deposits.

Basically, any machine should be dividing in follow waste classes:

Any kind of fluids is to separate in container and accordingly to label. Other, Light metal, bronze. Steel, synthetic material, electronic components, and so on.

The drive contains raw material that should be recycled to preserve energy and natural resources. The package material is environmentally compatible and recyclable. All metal parts can be recycled. The plastic parts can either be recycled or burned under controlled circumstances, according to local regulations. Most recyclable parts are marked with recycling marks.

If recycling is not feasible, all parts excluding electrolytic capacitors and printed circuit boards can be landfilled. The DC capacitors contain electrolyte and, if the drive is not provided with the RoHS marking, the printed circuit boards contain lead, both of which are classified as hazardous waste within the EU. They must be removed and handled according to local our representative.

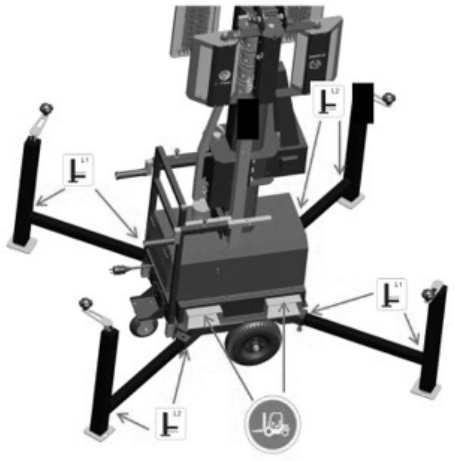
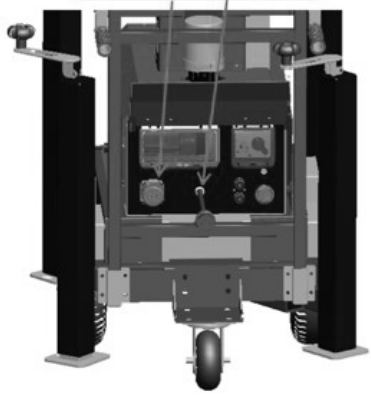
### Note:

**There are several certified waste management companies which takes the complete machine,**

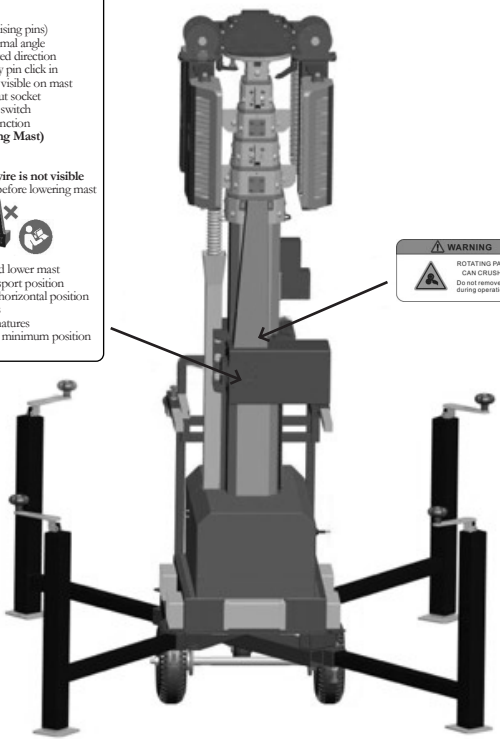
Machine waste	Disposal
Oil (e.g Lubrication oil)	The differed kind of oil are considered to be special waste, and must be disposed of through a certified company
Filter	Oil-filter: The filter is contaminated with oil, is considered to be special waste, and must be disposed of through a certified company.  Air-filter: From the electrical cabinet and filter from engine can be desposal as normal waste
Spare parts	Spare parts from the machine need to separate according to the materials. Afterwards handover to a certified company.
Complete Machine	There are several certified waste management companies which takes the complete machine, deconstructed and recycling the raw materials.

# WARNING LABEL LOCATION

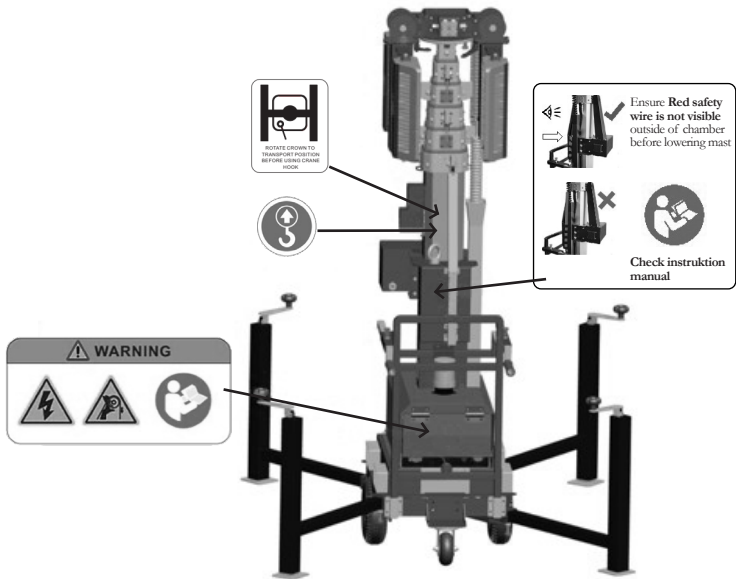
1~/230V/50Hz/1.3KW/PE



- (STARTING (Raising Mast))**
1. Fully extend all legs
  2. Check spirit level
  3. lift armatures up (realising pins)
  4. Tilt armatures to optimal angle
  5. Rotate crown in desired direction
  6. Raise mast until safety pin click in and check warning is visible on mast
  7. Connect power to input socket
  8. Turn on main power switch
  9. Select light control function
- (STOPPING (Lowering Mast))**
1. Turn lights off
  2. Perform safety check
- Ensure **Red safety wire is not visible** outside of chamber before lowering mast
- 
3. Pull out safety pin and lower mast
  4. Rotate crown to transport position return optimal tilt to horizontal position
  5. Fold down armatures
  6. Tighten straps to armatures
  7. fully retract all legs to minimum position
  8. Disconnect power



**WARNING**  
 ROTATING PARTS  
 CAN CRUSH  
 Do not remove cover  
 during operation







**El-Björn AB**

Box 29, SE-334 21 Anderstorp, Sweden, +46 (0)371-588 100  
info@elbjorn.se, www.elbjorn.com

