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OptiTower®

INSTALLATION AND OPERATING MANUAL

Revision 1.0 –April 2026

⚠ WARNING
IMPORTANT SAFETY INSTRUCTIONS



⚠ WARNING
READ ALL INSTRUCTIONS PRIOR TO USE. SAVE THESE INSTRUCTIONS.
FAILURE TO ADHERE TO THESE INSTRUCTIONS AND SAFETY PRECAUTIONS
COULD RESULT IN DEATH OR SERIOUS INJURY



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Foreword

This document provides installation and assembly instructions as well as safety information for the OptiTower line of products.

Read and understand all instructions before beginning assembly, installation or operation. Failure to follow these instructions may result in personal injury, property damage, or product malfunction.

Installation must be performed by **qualified personnel** familiar with applicable safety practices, codes, and regulations. The installer is responsible for ensuring that the product is installed in compliance with all applicable local, state, and federal requirements.

Warranty and Liability notice

Our warranty is a reflection of our commitment to a superior product as well as well as excellent customer experience. Warranty information can be found at our website below:

<https://Optitower.com/warranty>

The manufacturer's warranty is limited to defects in materials and workmanship under normal use and service, as defined in the applicable warranty documentation.

OptiTower is not be liable for damages or injuries resulting from:

- Improper installation
- Failure to follow these instructions
- Use of non-approved replacement parts or fasteners
- Unauthorized modification or misuse of the product
- Failure to inspect or maintain the product as recommended

Limitations

OptiTower has taken extensive efforts to ensure this manual is comprehensive and correct. However, this manual is subject to change without notice after the date of initial publication. You can always find the latest version of this manual at the QR code link on the OptiTower product or on our webpage at this link:

<https://optitower.com/>

Safety Information

OptiTower is designed with safety in mind. This installation manual includes relevant cautionary indicators based on ANSI Z535 as shown below:

⚠ DANGER: Indicates a hazardous situation which, if not avoided, WILL result in death or serious injury.

⚠ WARNING: Indicates a hazardous situation which, if not avoided, COULD result in death or serious injury.

⚠ CAUTION: Indicates a hazardous situation which, if not avoided, COULD result in minor or moderate injury.

⚠ NOTICE: Indicates information considered important, but not hazard-related (e.g., property damage).

⚠ IMPORTANT: Indicates critical installation or operation information that must be followed for proper performance.

⚠ WARNING CALIFORNIA PROPOSITION 65: This product can expose you to chemicals including *lead*, which is/are known to the State of California to cause **cancer, birth defects**, or other reproductive harm. For more information, go to www.P65Warnings.ca.gov

IMPORTANT SAFETY INSTRUCTIONS

- 1.) Read all Instructions
- 2.) Care must be taken as burns can occur from touching hot parts
- 3.) Do not operate the equipment if there is evidence of damaged electrical elements (e.g. cord) or if the unit has sustained impact damage until the unit is promptly evaluated by authorized service personnel
- 4.) Do not let a cord hang over the edge of the table, bench, counter, tower or come into contact with hot manifolds or moving fan blades
- 5.) If an extension cord is necessary, a cord with a current rating equal to or more than that of the equipment shall be used. Cords rated for less current than the equipment may overheat. Care should be taken to arrange the cord so that it will not be tripped over or pulled.
- 6.) Always unplug equipment from the electrical outlet when not in use. Never use the cord to pull the plug from the outlet. Grasp plug and pull to disconnect.
- 7.) Let the equipment cool completely before putting away. Loop cord loosely around equipment when storing.
- 8.) To reduce the risk of fire, do not operate equipment in the vicinity of open containers of flammable liquids or gases (e.g. Gasoline, Acetylene)
- 9.) Adequate ventilation should be provided when working on operating internal combustion engines.
- 10.) Keep hair, loose clothing, fingers, and all parts of the body away from moving parts
- 11.) To reduce the risk of electric shock, do not use on wet surfaces or expose to rain

- 12.) Use only as described in this manual. Use only manufacturer's recommended attachments.
- 13.) **ALWAYS WEAR SAFETY GLASSES** that conform to applicable safety rating requirements during installation and operation (e.g. ANSI Z87.1)
- 14.) Inspect the tower before each use for mechanical, electrical and otherwise functional issues such as damaged hinges or frayed wires
- 15.) To reduce the risk of injury, do not overload fixtures or shelves. Refer to loading instructions.
- 16.) To reduce the risk of electric shock or fire, never overload receptacles. Refer to markings for the proper load on receptacles
- 17.) Do not alter, modify or otherwise tamper with the OptiTower outside of the scope of this manual
Use only OptiTower approved fixtures / attachments

SAVE THESE INSTRUCTIONS

Product Overview

Shipping Notice: What's in the box?

OptiTower products are expertly crafted and evaluated for correctness and completeness from the factory prior to shipping. However, you should thoroughly inspect the package upon delivery and prior to signature release from the shipping provider.

▲ NOTICE: Upon receipt of this shipment, inspect all packaging and contents for visible damage or missing items **before signing the carrier's delivery receipt or bill of lading**. Any damage or shortages must be **noted on the delivery receipt** at the time of delivery. Failure to do so may result in the carrier denying a damage or loss claim. If damage is discovered after delivery, notify the carrier and the manufacturer immediately.

[Variant List](#)

These installation instructions cover the mounting of the base tower fixture as well as accessories located in the following product models:

Product Name: Assembly Line OptiTower
Model: T1



Product Name: Core Tower
Model: T2



Product Name: Warehouse OptiTower
Model: T3



Product Name: Engineering Optitower
Model: T4



Product Name: Programming OptiTower
Model: T5



Product Name: Charging OptiTower
Model: T6



Pre-checks and Installation

There are multiple prechecks, confirmations and steps required for a complete installation for the Optitower line of products. Perform them in the order listed to ensure complete satisfaction.

Please select an appropriate installation location that is indoors and not subject to rain or flooding

⚠ NOTICE: All towers mentioned above as covered by these instructions are intended for dry Indoor installation ONLY.

Electrical Preparation

⚠ DANGER: All Facility wiring and connection points must be performed by a licensed, certified and authorized electrician in accordance with all Federal, State, and Local laws and/or codes such as OSHA or NFPA requirements.

The Optitower line of products may require connection to a dedicated VAC electrical circuit to accommodate expected electrical loading. Please consult an authorized electrician to confirm facility current and amperage capabilities to accommodate expected Optitower electrical loading.

Install a power disconnect switch. Such switch is used to deactivate electrical power to the towers in times of service, electrical faults or in rare cases, emergencies.

Floor mounting Specifications

⚠ WARNING: Installation onto surfaces out of specification could result in injury or death. The mounting location must be flat, level and meet minimum strength capacity ratings. Be sure to abide by all concrete specifications and level requirements below

Air/Pneumatic Provisioning Specifications

⚠ WARNING: Air compressors and associated lines may be under pressure. Exercise caution when working around pressurized lines and ensure line whips are equipped where appropriate. Authorized and qualified personnel are required to service pressure vessels or lines.

Optitowers are capable of providing outlet compressed air for air tools or other pneumatic operations. This will require appropriately sized compressors and pre-installed routed lines within the shop space. Optitower air lines are rated up to 70 F and 300 psi. Other system

limitations may apply. Please consult Wiens Corp. or your compressor supplier to ensure an appropriate solution is available.

Concrete Specifications:

The floor mounted Optitower line of products are recommended to be installed into concrete with a minimum depth of 4"/10cm and a minimum compressive strength rating of 3,000 psi. For maximum safety and peace of mind we recommend the installation into concrete slabs 6"/15cm or thicker.

Do not install into 'fresh' concrete; all concrete must be cured for 28 days prior to installation.

Towers must be installed a minimum of 6" away from cracks, expansion joints or damaged concrete

⚠ WARNING: Damage to tension cables in tensioned concrete could result in severe injury or death. Some slabs may be pre-tensioned via the use of tensioned steel rods / wire. Consult the facility engineer or architect prior to installation to verify that the proposed location will not result in the damage to the slab or tension wires.

Level Requirements:

The mounting location must be flat and level. Do not install this product on a floor which deviates more than 3 degrees from the normal.

Checklist

Once a suitable location has been selected for concrete suitability and levelness, the pre-check and preparation may begin.

Gather necessary tools and personal protective equipment (PPE)

Tools Parts and PPE Required:

Tools

- Opti-tower Installation Template (i.e. tower base stencil)
- Marking Utensil (e.g. Pen, pencil, etc.)
- Concrete Anchors
- Hammer Drill
- Vacuum / Dust collector (a hand pump or compressed air are suitable as well)
- Bolt socket driver kit
- Torque Ratchet

Parts

- Optitower Product of choice

- appropriate concrete anchors (See Concrete Anchoring Installation Instruction)
- Accessories

PPE

- Gloves (leather or appropriate)
- Suitable work clothing
- Safety shoes (Steel-toed or appropriate)
- Safety glasses (ANSI rated)
- Dust mask / respirator approved for concrete dust
- Ear protection

Tower Installation

Once all tools are prepared, Installation may begin. Ensure PPE is equipped prior to the beginning of installation.

Stencil Layout

- 1.) Layout the appropriate tower installation template or temporarily place the base tower on the floor at the selected suitable location

⚠ CAUTION: Team Lifting is required for 50lbs and above. When temporarily placing or otherwise handling the Optitower, Ensure two people lift the tower into position with proper posture and technique.

- 2.) Once the stencil/tower is in place, mark the outline of the tower base as well as the concrete anchor locations to be drilled
- 3.) Remove tower/Stencil for further steps

Drilling the Holes

⚠ WARNING: You **MUST** wear all appropriate PPE. Exposure to concrete dust is hazardous and could lead to severe diseases such as silicosis. Always wear appropriate respirators or dust masks approved by OSHA when drilling/anchoring or otherwise exposed to concrete dust.

- 1.) Double check measurements against the installation template or tower base specifications in this guide to verify dimensions.
- 2.) Select a concrete drill bit (carbide) which is the same diameter as the concrete anchor provided

⚠ NOTICE: DO NOT DRILL COMPLETELY THROUGH THE CONCRETE SLAB. DOING SO MAY COMPROMISE FASTENER HOLDING CAPACITY. 3 ½” fasteners are required for 4” slabs while 5 ½” fasteners are required for 6” slabs. Optitower products are supplied with 13mm or ½” concrete anchors. Be sure to follow installation instructions provided by the fastener manufacturer

- 3.) Affix the drill bit in a hammer drill and carefully drill the 4 holes required on the outline whilst using the hammer functionality

⚠ NOTICE: Be sure to maintain the drill straight (perpendicular to the floor) and do not ‘wallow’ out the holes. The holes must be the appropriate diameter for the anchors.

- 4.) Once the holes are drilled, vacuum out the concrete dust or blow it out with a hand pump or compressed air

⚠ WARNING: Be sure to completely clean out each hole after drilling. Failure to do so could compromise anchor holding strength

Raising the Tower

- 1.) With the assistance of a second person, raise the tower into its final position over the pre-drilled holes for bolting.
- 2.) While the tower is firmly supported, continue with concrete anchoring

Anchoring the tower

There are several types of anchors such as sleeve, wedge, drop-in, and screw type anchors.

When working with concrete anchors, two important parameters include:

Nominal Embedment: This is the lowest depth within the hole that the anchor bolt reaches and is not related to holding force.

Effective Embedment: the depth within the hole where the lowest point of expansion sleeve of the sleeve-type anchor contacts the concrete. This generates holding force and increases with hole depth



⚠ WARNING: The installer is responsible to use appropriate fasteners according to local, state and regional building code. (e.g. ICC-ES, UL, FM, City of Los Angeles, and Caltrans) Be sure to utilize anchors rated for appropriate tensile and shear stresses encountered. Failure to use provided or appropriate fasteners may result in severe injury or loss of life

When installing wedge-type anchors, follow the below steps

- 1.) Once the predrilled holes are verified as clean and clear of debris, gently install the fastener into the hole while maintain the fasteners plumb
- 2.) Select an appropriate M10 concrete anchor that meets an ultimate tensile strength of 11kN or greater and an ultimate shear strength of 8kN or greater.

⚠ NOTICE: You may have to gently tap the fastener in place with a block of wood or rubber hammer, but avoid applying excessive force that may damage the floor or anchor

- 3.) Fit all fasteners into the concrete prior to tightening or torquing to ensure alignment

Tip: At this point, use a level to ensure the tower is plumb and level

- 4.) Torque anchors to the recommended torque mentioned by the anchor manufacturer

[Air system: Accessory Installation](#)

Some Optitowers may be equipped with air fittings or provisions for air hookups and will require additional steps to install.

⚠ NOTICE: Follow all air system pre-Installation requirements prior to hooking up the Optitower to compressed air systems

Typical Air system fittings include the following:

Air Inlet: Quick Connect Air Couplings 3/8 inch, Steel, Plug, Max. Working Pressure @ 70 F, 300 psi

Air Distribution: Quick Connect Hose Coupling, Industrial, Steel, Socket, Max. Working Pressure @ 70 F, 300 psi



Follow the below steps for fitting installation:

- 1.) Prior to mating of male and female couplings, ensure threads are sealed with the appropriate certified / rated product. (e.g. PTFE tape or other as required)
- 2.) Thread all fittings together carefully to prevent cross-threading. Typically, NPT or like fittings will 'self-seal' via the thread pitch with assistance of the sealing compound
- 3.) It is recommended to double check fitting connection with soapy water solution for leaks

Additional Accessory Installation

Optitowers are provisioned to accept a multitude of accessories to streamline workflows and improve efficiency.

⚠ WARNING: DO NOT use accessories that have not been approved for use on the Optitower via Wiens Corporation. Use of un-approved accessories, mounts or hardware may cause load exceedance and lead to severe injury or death and may void applicable warranties

Follow the below instructions for appropriate accessory installation

Computer mounting

Computer monitor mounts provided with select Optitowers are compatible with VESA patterns 75x75mm or 100x100mm.



Install Procedure:

- 1.) Remove mount from shipping packaging and confirm all hardware is included
- 2.) Install base plate to the tower in desired position and secure fasteners snug to affix the plate. DO NOT Over-tighten
- 3.) Place the first extension arm over the post on the base plate
- 4.) Fasten the monitor of choice to the second extension arm
- 5.) Place the second extension arm over the post on the first extension arm
- 6.) Place the securing cap over the base of the first extension arm to secure to the base plate post
- 7.) Using an appropriate hex key, fasten the base plate set screw and the extension arm set screw snug to prevent disengagement
- 8.) Route cables using cable management ties to keep cables free and clear of all obstructions

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Loading Requirements

Do not exceed the following loading allowances for any of the accessories offered for the assembly line, core, warehouse or engineering tower. Do not apply excess weight to charging towers outside of allowable fixtures for battery chargers.

| Fixture | Maximum weight (lbs) |
|---------------------|----------------------|
| Monitor Mount | 20.0 |
| Tool Arm | 45.0 |
| Keyboard Tray | 20.0 |
| Laptop Tray | 15.0 |
| Battery Tray | 10.0 |
| Printer Bottom Tray | 65.0 |



Maintenance Log

For any service related requests please contact Wiens Corporation helpdesk via our website:

<https://www.optitower.com/#contact>

| Maintenance Log | | | | | |
|-----------------|------|-------------------------------|------------------|----------------|-----------------|
| Date | Time | Service Personnel sign off | Action Performed | Parts Replaced | Recommendations |
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Installation Template

