

# Facilities Requirements

In order to prepare our customers for a smooth installation of our equipment, we have detailed what requirements are necessary for the installation of our equipment in your facility. The following details the requirements and necessary activities before installation of our equipment.

## A. Preparations for Installation

Before your Superior Bridge Saw can be installed, several issues must be resolved in preparation. **We must receive a signed copy of the Customer Installation Confirmation form before our technician can install your equipment.** Your responsibilities are as follows:

### 1) Foundations

The supporting foundations must be carefully prepared to properly install your bridge saw. **All supporting foundation surfaces must be level to within ½” of the lowest.** The four (4) steel stand foot plates (two on each stand) are 16” x 16” and the foundation supporting them must be able to sustain a static compressive load of 250 lbs/in<sup>2</sup>. The table base is roughly 33” x 33” and the foundation supporting it must also be able to sustain a static compressive load of 250 lbs/in<sup>2</sup>. If a table foundation is necessary, it should be a minimum of 48” x 48” and must be positioned as shown on the Foundation Plan, drawing INS-2. This foundation for the table must also be able withstand a moment load of 75,000 ft-lbs. on the rear anchoring bolts during the raising of tilting table.

If your foundations are not satisfactorily level, you will be required to provide the necessary adjustments to the foundation in order to achieve **level support on the entire foot plate.** A poor foundation can lead to excess vibration and poor performance from an otherwise perfect machine. Superior Stone Equipment cannot be held responsible for poor machine performance due to an inadequate foundation. **If the foundations are not adequate, we will not install the machine until the appropriate measures are taken. All costs associated with rescheduling the installation will be your responsibility.**

### 2) Electrical Supply Power

You will need to supply 100 amps of 230 Volt, 3 Phase power, with a ground wire, to the electrical panel located on the right steel stand. If you have 460 volt power, you will need to provide 50 amps. **Once you have notified us of your choice of 230 volt or 460 volt power via the “Customer Installation Confirmation Form”, any voltage changes to the machine after shipment will result in additional expense for you.** Based upon the layout of your facility and your local electrical code, you may need to provide a disconnect located near the machine. **A disconnect is not provided on the machine.** You should have a certified electrician plan your electrical installation. Any work required to bring power to the bridge saw must be done before we arrive for the installation. Your electrician will be required to bring the three (3) power wires and the ground wire into the electrical panel in a way that meets your local electrical code. The electrical installation must be completed by the end of the first day of the installation. **You should schedule your electrician to perform the hook-up to the machine between 2:00 PM and 4:00 PM on the first day of the installation.**

### 3) Water Supply

You will need to supply 10 GPM of clean, filtered water at a minimum pressure of 50 PSI a maximum pressure of 75 PSI. The water connection to the machine is made at the bottom side of a solenoid valve that is mounted in the middle of the right stand. The solenoid valve has a female ½” NPT fitting for inlet water.

## B. During the Installation

### 1) Unloading and Placing the Bridge Saw and Table

Superior will handle the unloading and placing of the components. **The unloading and placing of the equipment is scheduled to begin at 8:00 AM on the first day of the installation and typically will require four (4) hours of time to complete.**

### 2) Foundation Anchors

Before the bridge is placed on the stands, our technician will check level, plumb, and square for the machine. **If the machine requires leveling due to the foundation, it will be your responsibility to provide whatever materials and labor are necessary.**

Once the machine components are deemed level, plumb, and square, the saw and table must be anchored to the foundation. There are anchor holes located on the steel stand footplates (total of 8) and the table base (total of 4) available for this purpose. **Superior will provide all tools and labor to properly anchor the machine.**

### 3) Electrical Power Connection

Between 2:00 PM and 4:00 PM on the first day of the installation, your electrician will be required to complete the electrical power connection to the machine. This consists of bringing the three (3) power leads and a ground wire into the electrical panel located at the rear of the right stand and terminating them in the proper location. Our technician will advise where and how to make these connections.

### 4) Water Connection

Between 2:00 PM and 4:00 PM on the first day of the installation, you will be required to connect your water supply to the machine. The water connection to the machine is made at the bottom side of a solenoid valve that is mounted in the middle of the right stand. The solenoid valve has a female ½" hose barb fitting for inlet water.

### 5) Stone for Test Cuts

On the 2<sup>nd</sup> and 3<sup>rd</sup> days of the installation, test cuts will be performed to check the final adjustments of the machine and facilitate operator training. A Superior Super-Titanium blade is provided with your saw for this purpose. **You must provide the granite to be cut. The stone used needs to be either 2 cm or 3 cm thickness, and at least 6' by 6' in dimension.** For any miter cuts, a solid core (non-silent) diamond blade of 14" diameter is highly recommended (not provided by Superior). Mitering with the Superior Super-Titanium blade provided will void its warranty

### 6) Miscellaneous

In addition to the above, our technician must be provided with the following in order to complete the installation:

- Access to a 110 Volt, single phase, electrical outlet.
- Adequate lighting in order to make electrical and mechanical connections within the equipment package.
- Use of a shop vacuum.

## C. Training

The key to successful operation of your bridge saw is an understanding of how it works and how it must be maintained. For this reason, a large portion of the 2<sup>nd</sup> and 3<sup>rd</sup> days of the installation are dedicated to training your personnel.

**You are required to have the appropriate personnel available for training on the 2<sup>nd</sup> and 3<sup>rd</sup> days of the installation in order to validate your warranty.**

## **D. Estimated Installation Schedule**

### **Day One**

- 8:00 AM Flatbed truck will arrive. Equipment should be inspected for damage during shipping. The stands will be unloaded first, followed by the table and lastly the bridge. During the unloading, the table and stands will be positioned and checked for level, plumb, and square.
- 10:30 AM Stands rechecked for proper position (plumb, level and square). The right stand is anchored to the foundation.
- 11:00 AM The bridge will be placed on the stands.
- 11:30 AM Left stand anchored to the floor by the customer.
- 1:00 PM Table anchored to floor. Superior technician will complete the mechanical and electrical installation.
- 2:00 PM Electrical and water connections made by the customer.
- 4:00 PM Initial testing of machine operation and test cuts on granite.

### **Day Two**

- 8:00 AM Testing continued by Superior technician.
- 10:00 AM Customer training on the operation and maintenance of the saw.

### **Day Three**

- 8:00 AM Supervised cutting and operation.
- 4:00 PM Signed completion and departure of Superior personnel.