

## **WARNING VIBRATORY PLATE**

Any piece of equipment can be dangerous if not operated properly. **YOU** are responsible for the safe operation of this equipment. The operator must carefully read and follow any warnings, safety signs and instructions provided with or located on the equipment. Do not remove, defeat, deface or render inoperable any of the safety devices or warnings on this equipment. If any safety devices or warnings have been removed, defeated, defaced, or rendered inoperable, **DO NOT USE THIS EQUIPMENT!!!**

**APPLICATION:** This vibratory plate is designed for compacting loose, *granular soils\**, gravel, and paving stones. It is intended to be used in confined areas and areas next to structures such as walls, curbs, and foundations. Plates that are equipped with water tanks can be used for compacting asphalt.

** WARNING:** Operating, servicing, and maintaining this equipment can expose you to chemicals including engine exhaust, carbon monoxide and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize your exposure, avoid breathing exhaust, do not idle the engine except as necessary, operate and service your equipment in a well-ventilated area and wear gloves or wash your hands frequently when servicing your equipment. For more information go to [www.P65warnings.ca.gov](http://www.P65warnings.ca.gov)

**Use extreme caution whenever operating, moving, loading, or unloading this equipment. During and after operation the Muffler and other components are Extremely Hot and will cause Serious Burns.**

### **DANGER: THIS EQUIPMENT HAS MULTIPLE PINCH POINTS SMI Dust and Silica Warning**

Using this equipment generates dust, this dust may contain Grinding/cutting/drilling particles from masonry, concrete, metal & other materials, mists & fumes containing chemicals known to cause serious or fatal injury or illness, such as respiratory disease, cancer, birth defects or other reproductive harm. If you are unfamiliar with the risks associated with the particular process and/or material being cut or the composition of the tool being used, review the material safety data sheets and/or consult your employer, the manufacturers/suppliers, governmental agencies such as OSHA & NIOSH & other sources on hazardous materials. California & some other authorities, for instance, have published lists of substances known to cause cancer, reproductive toxicity, or other harmful effects. Control dust, mist, & fumes at the source where possible. In this regard use good work practices & follow the recommendations of the manufacturers/suppliers, OSHA/NIOSH, & occupational & trade associations. Water should be used for dust suppression when wet grinding/cutting/drilling is feasible. When the hazards from inhalation of dust, mists & fumes cannot be eliminated, the operator & any bystanders should always wear a respirator approved by NIOSH/MSHA for the material being used. Grinding/cutting/drilling of masonry, concrete, & other materials with silica in their composition may give off dust or mists containing crystalline silica. Silica is a basic component of sand, quartz, brick clay, granite and numerous other minerals & rocks. Repeated and/or substantial inhalation of airborne crystalline silica can cause serious or fatal respiratory diseases, including silicosis. In addition, California & some other authorities have listed respirable crystalline silica as a substance known to cause cancer. When grinding/cutting/drilling such materials, always follow the respiratory precautions mentioned above.

## **IMPORTANT SAFETY RULES TO FOLLOW**

1. Never allow anyone to operate this equipment without proper training.
2. Never touch the engine or muffler while the engine is on or immediately after it has been turned off. These areas get hot and may cause severe burns.
3. Never operate machine with the belt guard missing.
4. Never leave machine running unattended.
5. Always wear protective clothing when operating plate. Goggles or safety glasses will protect your eyes from flying objects.
6. Always close the fuel valve on engines equipped with one when machine is not being used.
7. Always operate machine with all safety devices and guards in place and working.
8. Do not smoke while operating machine or refueling machine.
9. Do not refuel when engine is hot or running.
10. Do not refuel engine near an open flame.
11. Do not run indoors or in an enclosed area. Exhaust gases contain carbon monoxide.
12. Always replace fuel cap after refueling.
13. Operate from designed location only.

### **\*Granular soils**

Granular soils range in particle size from .003" to .08" (sand) and .08" to 1.0" (fine to medium gravel). Granular soils are known for their water-draining properties.

### **Characteristics**

Sand and gravel obtain maximum density in either a fully dry or saturated state. Testing curves are relatively flat so density can be obtained regardless of water content.

### **GUIDE TO SOIL TYPES**

<b>What to look for</b>	<b>Appearance/feel</b>	<b>Water movement</b>	<b>When moist...</b>	<b>When dry...</b>
<b>Granular soils,</b> fine sands and gravel.	Coarse grains can be seen. Feels gritty when rubbed between fingers.	When water and soil are shaken in palm of hand, they mix. When shaking is stopped, they separate.	Very little or no plasticity.	Little or no cohesive strength when dry. Soil sample will crumble easily.
<b>Cohesive soils,</b> clays, silts and mixed soils.	Grains cannot be seen by naked eye. Feels smooth and greasy when rubbed between fingers.	When water and soil are shaken in palm of hand, they will not mix.	Plastic and sticky. Can be rolled.	Has high strength when dry. Crumbles with difficulty. Slow saturation in water.

If the person receiving this handout will not be the user of the equipment, forward these instructions to the operator. If there is any doubt as to the operation or safety of the equipment, **DO NOT USE!!! CALL A TOOL SHED IMMEDIATELY!!! FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN INJURY OR DEATH**