

Advisories

Compaction Types

Soil Type	Recommended Compactor
Cohesive Soils (Mainly silts and clays)	Upright Tamp or Sheepfoot Vibratory Roller
Granular Soils (Mainly sands & gravels)	Flat Plate Tamp or Smooth Drum Vibratory Roller; Upright Tamps
Mixed Soils	Upright Tamps, Sheepfoot Vibratory Rollers, Smooth Drum, Vibratory Rollers, Plate Tamps

Definitions

Grinder

Grinders use horizontally rotating discs to level, smooth or clean the top surface of a concrete slab. Grinders come with a multi-accessory disc that can be loaded with long lasting Dyma-Serts, Strip-Serts, grinding stones or star wheels to remove rough finishes, flatten uneven areas or clean concrete slabs of sealers, paints or mastics. Primarily designed to work the top surface of a floor over large areas, grinders can also be used effectively to level uneven joints or high spots of 1/16" to 1/8" where small areas are the only concern. Grinders provide contractors a smoother finish than scarifiers or scabblers.

Scarifier

Scarifying machines apply a cutting wheel to the concrete surface, by the way of a cutting drum that flails the surface, leaving a clean, textured or roughened finish. Scarifiers are also referred to as planers, milling machines, rotary cutters or simply surface-preparation machines. Scarifiers allow you to control the various styles of interchangeable cutter assemblies, that can be used for cleaning, grinding and light or heavy milling. Production rates range from 350 to 1,500 square feet per hour (dependant on machine size and horsepower for a 1/8" removal depth of 3,500 PSI concrete

Scabbler

Scabblers use compressed air to hammer piston-mounted bits into the concrete surface. They tend to roughen the concrete surface more than grinding or scarifying. Scabblers can remove up to 1/4" of concrete surface in a single pass. The actual production rate depends on the strength of the concrete. A typical removal rate for a machine with a 12" working width is 200 to 250 square feet per hour at 1/8" depth.