



## Dynamic Compaction™



Dynamic Compaction™ is a cost-effective technique used for deep ground densification. High energy waves, created by the repeated impact of heavy weights, compact areas of loose granular soils, uncontrolled fills, or waste to increase density and collapse voids. Dynamic Compaction efficiently increases the bearing capacity of granular soils, reduces the volume of landfills and lowers post-construction settlements. Dynamic Compaction is commonly used to treat old uncontrolled fills, waste material and native granular soils to depths up to 50 feet.

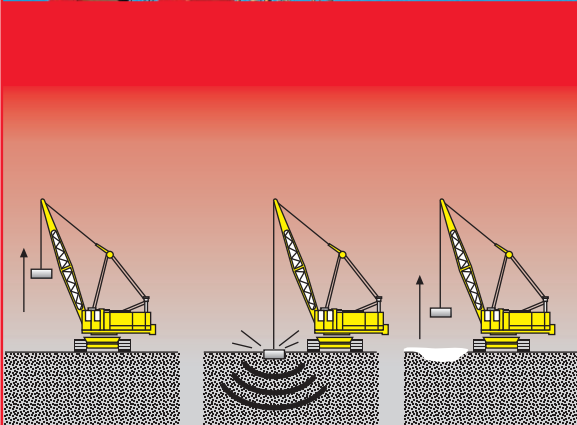
### Dynamic Compaction Applications

- Airport Runways
- Buildings
- Parking Lots
- Roads and Roadway Embankments
- Landfills
- Treatment Plants
- Marine Terminals
- Storage Tanks
- Liquefaction Mitigation

### Menard Dynamic Compaction

Menard Dynamic Compaction consists of repeatedly lifting and dropping heavy steel weights (pounders) weighing 15 to 40 tons from heights of 30 to 120 feet. The weights are dropped from a crane in virtual free fall. Results from a trial zone and the characteristics of the ground determine the location and grid spacing of impact points and other parameters such as energies, phasing and rest periods. Each point receives several blows per pass, and several passes may be required to achieve optimal results. When using Dynamic Compaction the removal and replacement of undesirable soil is not required. Dynamic Compaction applies energy at the ground surface and compacts relatively deep layers. The process is efficient, economical, and can be used to improve a wide range of soil types.

The Dynamic Compaction technique was originally invented and developed by Mr. Louis Menard and Menard Soltraitement, Menard's French affiliate. Dynamic Compaction was introduced in the US, by Menard in 1978 and has been used successfully in numerous projects.



*Dynamic Compaction involves dropping heavy pounders (15 to 40 tons) on the ground from a significant height (30 to 120 feet) in accordance with a predetermined grid pattern. High-energy impacts create shock-waves that increase soil density at great depths.*

### Menard

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