

Ram-Drop Compaction Method

The Ram-Drop Compaction Method uses a ram made of steel (steel + concrete), mounted on a crane and dropped from a height repeatedly to the ground.

The impact of weight to the ground surface is capable of compacting the ground to a depth that strengthen its stability.

Features

- ★ Economical method requiring non expensive material with simple operation.
- ★ Deals with non-homogenous ground containing debris, boulder stones and the like or refuse ground.
- ★ Can also be used for compaction of rubble foundation of breakwater, quaywall, etc.

Working Procedure

A ram is dropped from a predetermined height to the ground repeatedly.

The height is usually 10 to 20 m.

Leveling of recesses resulting from ram impact and finishing by tamping or bulldozer.

Equipment to be Used



Ram (25t)



Front Stay Type Ram Dropper



Recesses from a ram impact

Completed Projects Record

Project Name	Duration	Project Site	Client	Objective	Thickness of Improvement Layer/Area
Chugoku Electric Power Co. Mi-sumi Ground Improvement Work	94.11~95.3	Shimane	Chugoku Electric Power Company	To increase tank foundation ground strength	6.0~8.0m/4,540m ²
Off Mino Reclaimed Land Capacity Reduction Work	94.12~95.9	Hiroshima	Fukuyama City	Capacity reduction of reclaimed landfill site	29,000m ²