

Dynamic Compaction (DC) is a a Ground Modification techniquee whereby loose soils can be effectively and economically densified to improve its mechanical characteristics and allow construction of structures directly on compacted soil, without need of deep foundations or soil replacement.

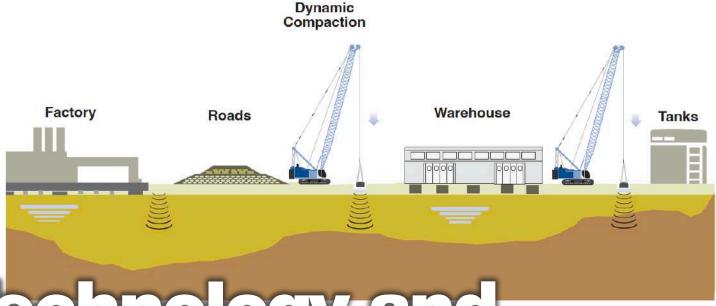
The method involves dropping heavy steel pounders repeatedly on the ground at regularly spaced intervals. The weight and height of pounding depends on the degree of compaction desired. The usual range of pounder weight is between 12 Ton to 25 Ton and the drop height can be up to 25m.

Very fast production (more than 50,000 sq.m /crane/shift/month)

Applicable for wide range of soils with fines content up to 35%

Very sustainable technique:

- no disposal,
- no aggregate,
- no cement



## Technology and fields of application

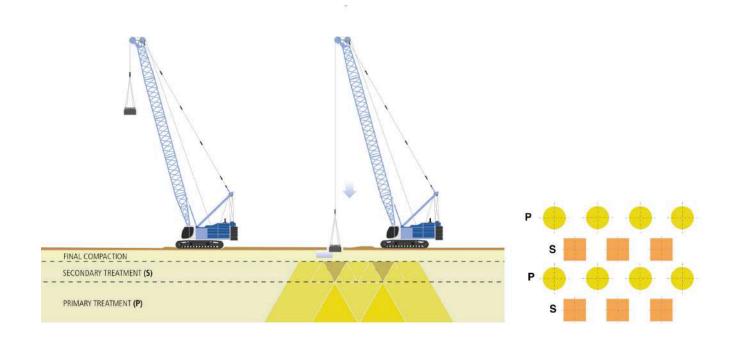






Dynamic Compaction (DC) technique is well suited for a wide range of applications and projects with different sizes up to several million sq.m, covering Industrial buildings, oil & Gas facilities, Infrastructure constructions, Platforms and logistics facilities, commercial and residential buildings, tanks, artificial islands, road and railway embankments, land reclamations...

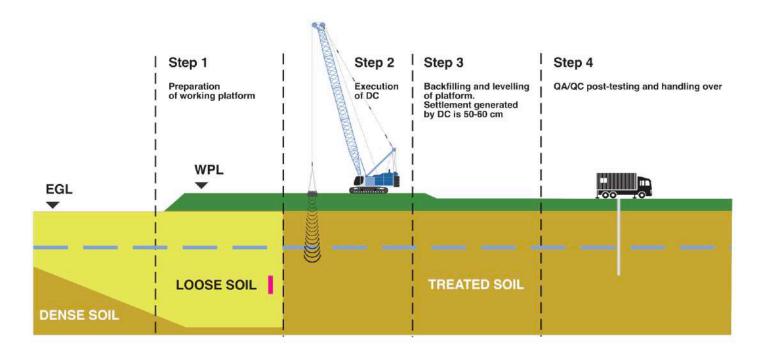
Dynamic Compaction (DC) technique was implemented as value engineering alternative to deep foundation or soil replacement for a large number of structures throughout the world.



## Dynamic Compaction operational sequence

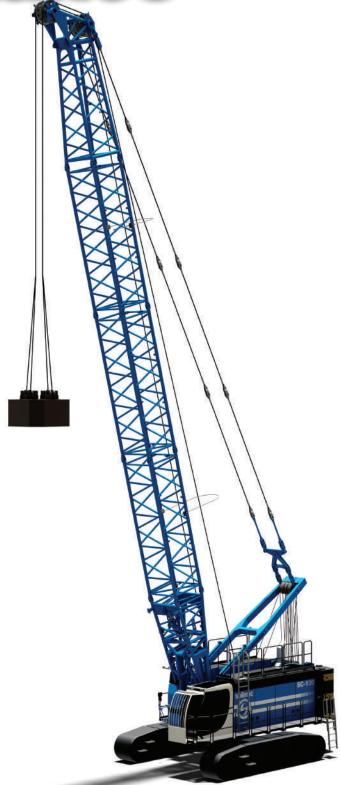
The method involves dropping heavy steel pounders repeatedly on the ground several times, following a pre-set grid (usually a square grid), split into a primary grid (P) and a secondary grid (S).

The weight and height of pounding depends on the degree of compaction desired. The usual range of pounder weight is between 12 Ton to 25 Ton and the drop height can be up to 25 m.

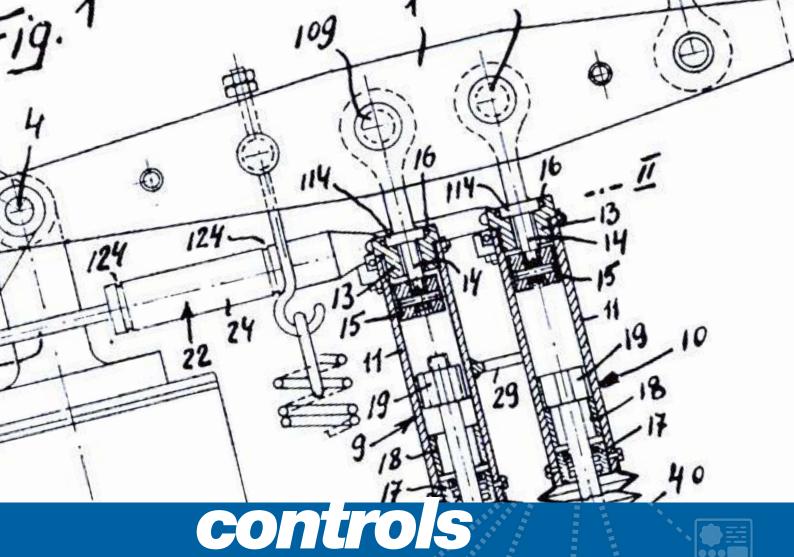


performance

Drilling rig performance



working	Boom length			
radius 20 r	n 23 m	26 m	29 m	32 m
8 m 30	t 30 t	30 t	28,4 t	24,8 t
9 m 30	t 30 t	27,5 t	25,8 t	23,7 t
10 m 29,6	t 26,8 t	25,1 t	23,4 t	21,8 t
working	Boom length			
radius 66 f	t 75 ft	85 ft	95 ft	105 ft
26 ft 66139	lb 66139 lb	66139 lb	62611 lb	54675 lb
30 ft 66139	lb 66139 lb	60627 lb	56879 lb	52249 lb
33 ft 65257	7 lb 59084 lb	55336 lb	51588 lb	48061 lb



## **DMS** suite for DC

- Parameter displayed: height of fall, depth of the crater generated, number of impacts performed, number of passes, cycle duration, braking, etc.
- Automatic sequence of the complete fall cycle
- Job planning and progress tracking in real time
- Condition monitoring and maintenance management software
- Worldwide remote assistance





