



Pile Driving Equipment

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W D S E R I E S

WD 28 - 43

Bottom Driven "Wick Drain Insert Machine"



The OMS Wick Drain Insert Machine is a soil improvement machine that to be used for quick consolidation of the cohesive soils. The machine is consisting of; hydromotors, sprocket gears, mandrel and a high frequency vibro hammer. It is very usefull equipment to drain the water in the cohesive soils, thus, the liquefaction risk minimal and settlement time higher then standard procedures.

Operation Procedure

The hydromotor driven sprocket gears insert the mandrel with Prefabricated Vertical Drain (PVD) in to the cohesive soil until the hard formation. The operator can use the high frequency vibro hammer if necessary to insert the mandrel deeper. The mandrel insert the Prefabricated Vertical Drain up to desired depth and drain stays in the soil then empty mandrel pull out and re-fill with PVD and insertion process starts again.



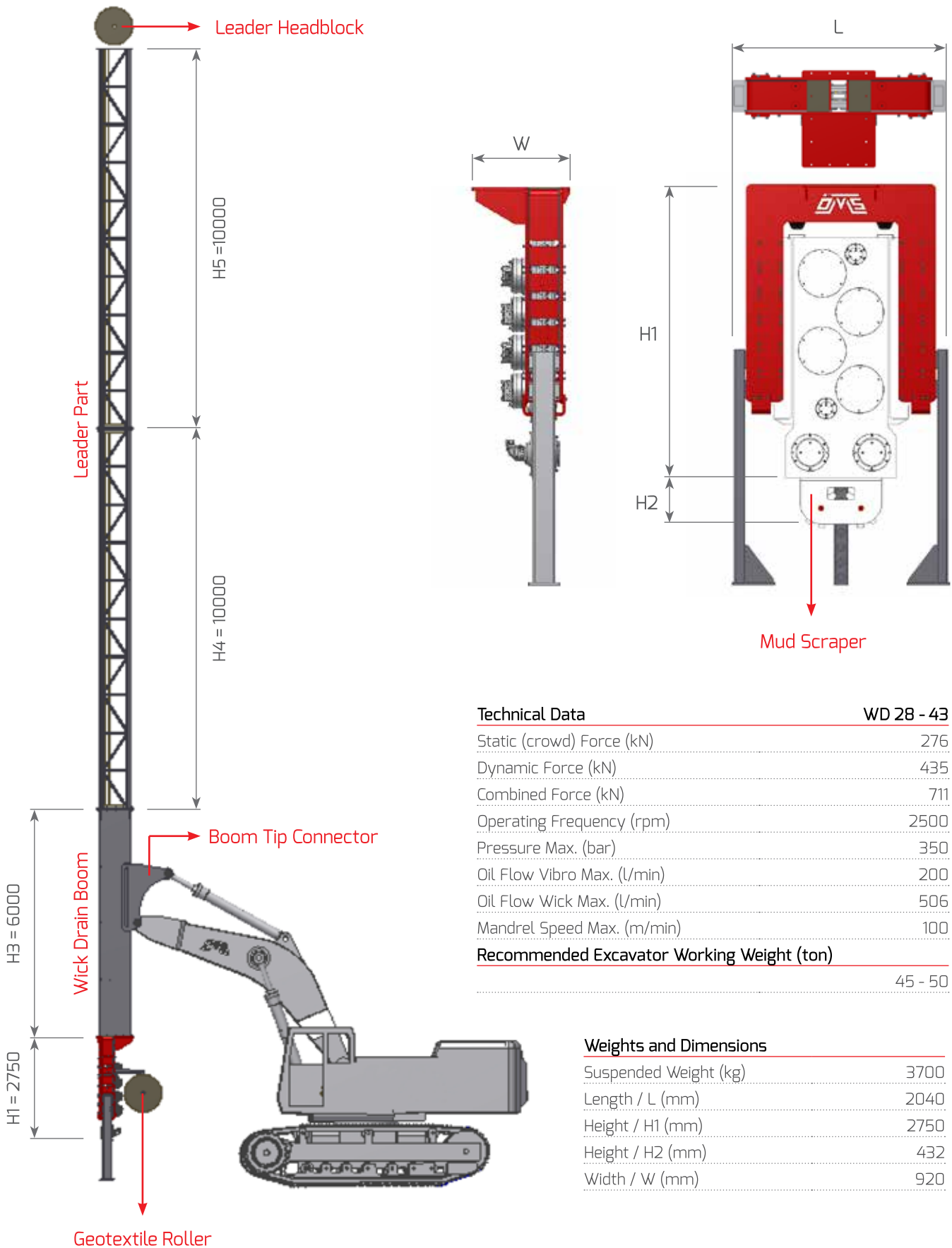
Advantages

- To prevent excessive settlement of cohesive soils when it is being utilised for construction purposes (roads, airports, bridge and other foundations),
- To enhance the soil stiffness in order to prevent liquefaction and subsequent damage to structures in seismic - sensitive regions,
- To succeed the project in a short time and low cost.



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Specification



Technical Data

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Static (crowd) Force (kN)	276
Dynamic Force (kN)	435
Combined Force (kN)	711
Operating Frequency (rpm)	2500
Pressure Max. (bar)	350
Oil Flow Vibro Max. (l/min)	200
Oil Flow Wick Max. (l/min)	506
Mandrel Speed Max. (m/min)	100

Recommended Excavator Working Weight (ton)

45 - 50

Weights and Dimensions

Suspended Weight (kg)	3700
Length / L (mm)	2040
Height / H1 (mm)	2750
Height / H2 (mm)	432
Width / W (mm)	920