

SGV-200 fits at grand scale of Sheet Pile Job in SIHWA MTV



BRUCE VIBRATORY HAMMER SGV-200

Just before entering into Sihwa seawall from Oido, With your head turn left, you may find that huge reclamation works are under way with the state of water won't go yet down the sea. It is a job site of Sihwa Multi-Techno Valley located at northern land of the lake of Sihwa. It is showed that 10 % of process rate of reclaimed land so far at the present since the first reclamation construction has started last year.

Upon completing reclamation construction, all the needed infrastructures will go up here step by step. By the time of year 2016 which estimated as a whole project termination the MTV will turn to a one of future oriented multifunctional city coexisting with human and nature, high-technology and ecological environment system.

The Sihwa MTV has a first priority that provides metropolitan city with industrial complex and improves water and air pollution in the Sihwa district. This is a clear answer that accounted for the start of the project. One of the crane suspended type of BRUCE Vibratory Hammer Model SGV-200 with 73 tons of Centrifugal Force, which is equal to 147 Kw of power, will take a main role of laying out a sequence of sheet pile sections here.

The BRUCE SGV-200 Vibratory Hammer is being suspended by the 70 ton capacity of cranes to undertake a task of space of restriction by providing structural resistance with 10 meters of sheet piles just before deep excavation or reinforced concrete sheet piles and afterwards it will go into the task of extracting a 20 meters of H-beam in the previously constructed area located just near from the present job site.

BRUCE SGV-200 for grand scale of canal construction with long piles

The width of job section is so wide and deep for normal sized excavators to access to get down the work. The auxiliary steel rope of 70 tons capacity of crane continues to grip a long sheet pile as soon as one sheet pile driving job ends. BRUCE SGV-200 boasted of a high powered hydraulic clamp with 100 tons of clamping force that it once grip a pile, never let it go until the clamp switch is pressed off by the operators.



- ▷ SGV-200 Performs a sequence of 10 meter Sheet Pile section in Sihwa MTV
Engine RPM can be adjusted by the Remote Control Box depends on soil conditions on site.



- ▷ SGV-200 is being suspended by the crane with a long hydraulic hoses in Sihwa MTV

BRUCE PQ-400V Power Pack mounted on the crane with easy transportation

BRUCE SGV-200 Vibratory Hammer is matched with and powered by PQ-400V Power Pack with 350 HP engine power and 1900 rpm of engine speed. It features a closed loop top hydraulic system for reliability and quick and simple equipment serviceability and is designed to easy be transported with mounted on the crane.



▷ Power Pack PQ-400V is designed to be mounted on the crane for easy transportation.

SGV-200 Vibratory Hammer Specification	
Centrifugal Force	73 tons (731 kN)
Max. Frequency	1700 vpm
Extension Arm Length	2740 mm (8.99 ft)
Amplitude (free hanging)	22 mm (0.866 inch)
Max. Line Pull for Extraction	37 tons (369 Kn)
Max. Hydraulic Power	350 HP (261 kW)
Max. Operating Pressure	320 bar (4641 psi)
Max. Oil Flow	360 lpm (95 gpm)
Total Weight with Clamp	4400 kg (3109 lbs)

PQ-400V Power Pack Specification	
Engine -Doosan	350 HP (261 kW)
Engine Speed	1900 rpm
Max. Pressure	320 bar (4641 psi)
Max. Flow	400 lpm (106 gpm)
Hydraulic Tank Capacity	800 liter (211 gal)
Fuel Tank Capacity	500 liter (132 gal)
Weight with operating	5000 kg (11023 lbs)

Job Briefing	
Job Title	Canal Section Construction
Materials of Piles	Steel Sheet Piles
Pile Length	10 ~20 meter
Pile Size	400(L)*150(H)*13.1(T)