MULTI-GRIP PILE DRIVER

Equipment - Specialised Pile Diver

TAMS GROUP

EQUIPMENT SPECIFICATION

OVERVIEW

Primary	
Machine	Movax SG-60V &
Excavator Class	28-40t
Weight	2478kg
Frequency	2300-3000 1/min
Eccentric moment	6,1 kgm
Centrifugal Force	600 Kn
Swing/tilt angle	360/30 degrees
Sheet piles	400-1200 mm wide
H Beams	H180-500mm diam
Timber Piles	160-420mm diam
Tubular Piles	up to 1200mm diam
Piling Capacity	16m x 2300kg

Description

The diversity of Side Grip Pile Drivers can provide multiple benefits over conventional pile driving methodology on your project. The benefits are quickly realised in applications where access is restricted or difficult due to terrain. TAMS owns two Movax Side Grip Pile Drivers and has multiple dedicated platforms to operate them from including Conventional excavator, Turret excavator and Amphibious excavator. Owning all the equipment means mobilisation is streamlined saving time and costs associated with setup and fitment in a hire scenario.

The agility of the units removes the requirement for piling frames / guides and in some circumstances can be used them selves to pitch and set piles for driving by a conventional hammer.

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FUNCTIONAL

The Side grip Pile Driver is multi-functional and replaces the need for multiple machines and processes in the pile driving sequence. MOVAX side grip pile drivers are capable of taking care of the entire piling process from handling,pitching and driving to exctracting piles without the need for manual handling or assisting machinery and personnel.The One machine is able to complete the job from start to finish.

HANDLING

PITCHING

DRIVING (SIDE GRIP ARMS/CLAMPS)

DRIVING (BOTTOM CLAMP)

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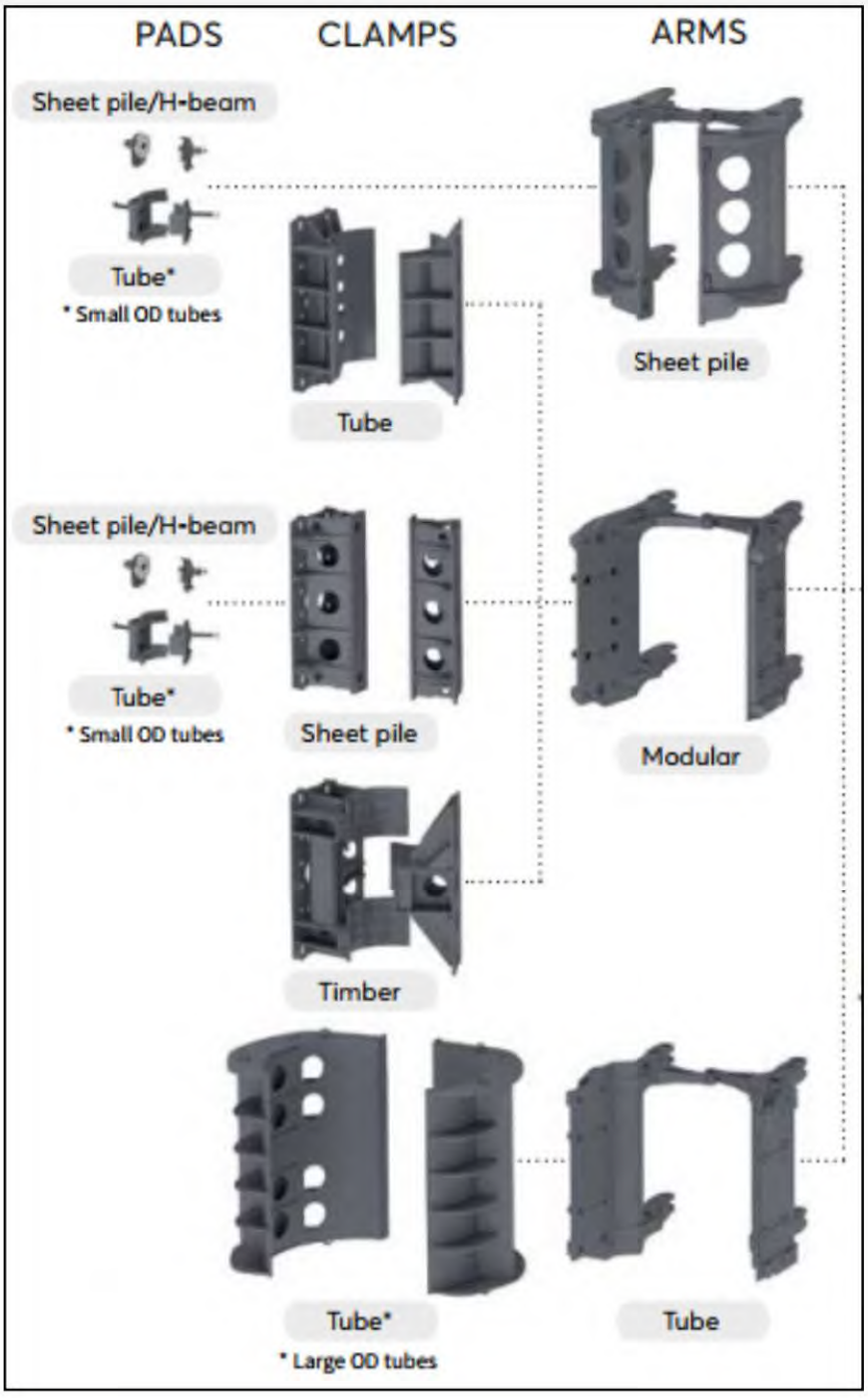
VERSATILITY

Due to the MOVAX Modular System (MMS™) - with interchangeable arms, clamps and pads - the same side grip pile driver can furthermore be utilised to handle a wide range of different type of piles ranging from sheet piles, tube piles and H- beams to timber piles.



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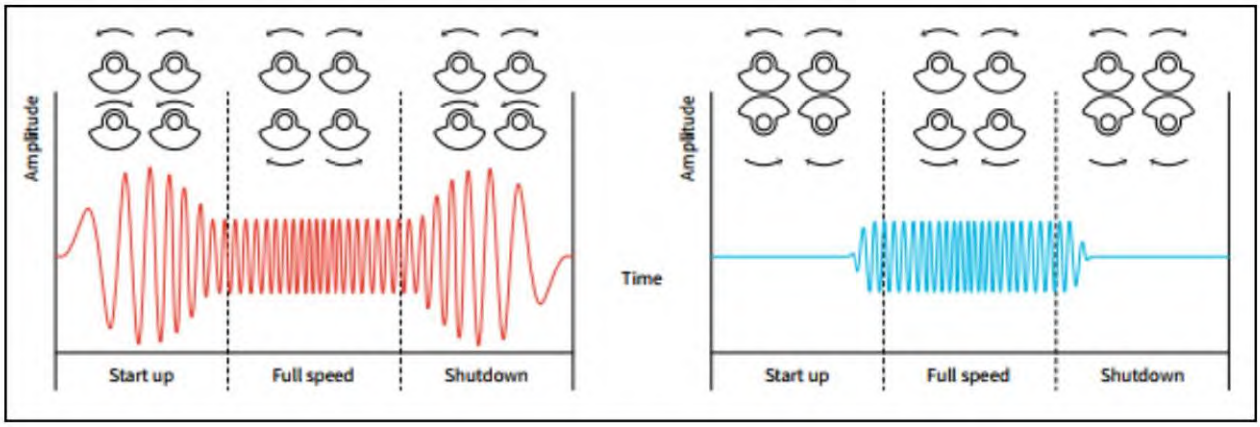
ENVIRONMENTALLY FRIENDLY

Resonance Free Option

The SG-60V is resonance free on start-up and shut down making it the ideal solution when working in urban areas or in sensitive environments. In addition to safer vibration, the SG-V-models also cause less noise and are faster and more comfortable to use.

Disturbances to the surrounding environments can be minimised by operating at high frequencies to avoid oscillation at the natural frequencies of the surrounding structures. MOVAX SG-V-models are high frequency (38–50 Hz) resonance-free vibratory pile drivers which allow starting up and shutting down the side grip pile driver without vibration. This is achieved by shifting the upper row eccentrics with respect to the lower row eccentrics. The total eccentric moment of the side grip pile driver can thus be varied between 0% and 100%; hence variable eccentric moment.



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MOVAX CONTROL SYSTEM

The system controls the auxiliary hydraulics of the excavator and all the functions of MOVAX's piling equipment. The system utilises inclination and pressure sensors to monitor the pile driving process, assisting the operator to achieve better efficiency, increased productivity and higher accuracy The visual user interface of the MCS Pro+auto is based on a 7" display with easy-to-read graphical symbols for the position, vibro frequency or piling hammer impact energy rate, and hydraulic pressure. It has user-friendly menus for calibrating and optimising the performance of both the Movax equipment and the excavator hydraulics. The MCS Pro+auto provides full system diagnostics directly on the screen and can be set to remind the operator of critical maintenance tasks, such as changing oil and oil filter.

The MCS Pro+auto control feature makes the excavator mounted MOVAX side grip pile drivers and piling hammers travel in a straight line by taking over a demanding part of the boom control. The system is based on angle sensors on the excavator and the MOVAX piling equipment and proportional pilot valves mounted on the excavator. The smart user interface allows the operator to switch the automatic control on or off at any time while keeping his/her hands on the controls at all times.