



MOVAX

Total Piling Solutions

MULTI-TOOL PILING LEADERS, MPL-200

TECHNICAL SPECIFICATION



VALID FROM JAN 2023



HIGHER PRODUCTIVITY – SIGNIFICANT SAVINGS

Efficient. Fast. Versatile. Accurate. Safe. Reliable.

MOVAX WAY-OF-PILING

INTRODUCTION

Movax Oy, established in 1993, is a Finnish-based, privately-owned world-leading innovator, developer and manufacturer of excavator-mounted piling and foundation equipment with highly advanced automatic control systems and information management solutions.

A TOTAL SOLUTION

Movax Oy focuses solely on solutions for the piling & foundation industry. The comprehensive range of excavator-mounted piling & foundation equipment and customized solutions cover a complete range of piling technologies - including both driven and bored piles.

UNIQUE, VALUE-ADDING TECHNOLOGY

Movax Oy's piling and foundation equipment provide the optimum way-of-working - **MOVAX WAY-OF-PILING™** - when constructing foundations, building retaining walls, both temporary and permanent, cofferdams and when performing trenching and excavation work and soil stabilisation in a wide range of applications.

QUALITY BUILT-TO-LAST

MOVAX is made with high-class materials, equipment and components – and modern, state-of-the-art production technologies and machinery ensuring the highest possible quality of manufacture. Movax Oy's Quality Management Systems is certified in accordance with ISO 9001:2015.

GLOBALLY PROVEN

With almost **30 years of experience** and more than **3000 units delivered** to all over the world and with a clear focus on the piling and foundation industry, MOVAX has a deep understanding and know-how of varying site and soil conditions - and of all kinds of different type of excavators and rail roaders. Movax Oy's experience also covers a wide range of applications ranging from Rail, Road and Civil to Waterways & Piers, Utilities and Environmental & Energy.

GLOBALLY LOCAL CUSTOMER CARE

Movax Oy focuses on superior customer service and support together with a world-wide network of local partners, established in more than 30 countries all over the world, performing trenching and excavation work in a wide range of applications from civil/structural, rail and road to waterways & piers, utilities and environmental.



INNOVATION & CONTINUOUS DEVELOPMENT

Movax Oy is the inventor of the modular, vibratory side grip pile driver technology. Movax Oy's inventions have resulted in numerous patents (50+) and its trademark, MOVAX®, is registered and well known for the quality it represents all over the world.

Movax Oy is strongly committed to continuously develop its products and services in close cooperation with its customers and local partners.



TOTAL SOLUTION

PILING, FOUNDATION & SOIL STABILISATION

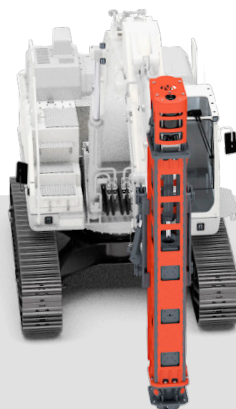
MOVAX excavator mounted piling equipment and customised solutions are available for different piling technologies, including both driven and bored piles, and for varying site and soil conditions and requirements.

The MOVAX Control System links the excavator with the MOVAX piling equipment and customised solutions whereas the MOVAX Information Management System (MIMS) provides essential information about the piling process and the pile installation - and about the MOVAX piling equipment.



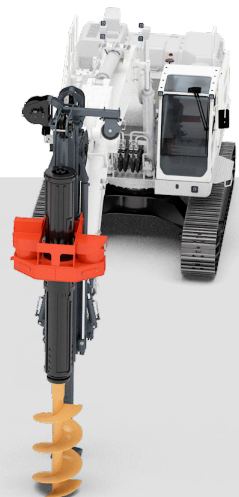
PILE DRIVERS

Side grip vibratory-type pile driver for handling, pitching, driving & extracting a complete range of driven piles, including sheet piles, H-beams, tubular steel piles and timber piles.



PILING HAMMERS

Hydraulic, double-acting impact-type piling hammers for driving load-bearing piles or assisting in sheet pile driving in even the most difficult soil conditions.



PILING DRILLS

Telescopic/kelly bar-type piling drills for bored, cast-in-situ (concrete) piles.



MOVAX CONTROL SYSTEM

The **MOVAX Control System (mControl+)** controls all MOVAX piling equipment and customised solutions. The system controls the auxiliary hydraulics of the excavator and all the functions of MOVAX's piling equipment.



MULTI-TOOL PILING LEADERS

Customised multi-purpose piling leaders with tooling including vibratory pile driver, piling hammer and rotary drives for pre-augering and CFA piling.



COLUMN STABILISATION LEADERS

Customised column stabilisation leader for increasing strength, improving deformation properties and to increase stiffness of soft soil.



INFORMATION MANAGEMENT

The **MOVAX Information Management System (MIMS)** provides essential information about the piling process and the pile installation – mLogbook - as well as about the MOVAX piling equipment itself – mFleet Management.

MULTI-TOOL PILING LEADERS

MPL-200

FEATURES

- Excavator stick-, boom- or chassis-mounted Multi-tool piling leader, designed especially for micropiling and solar piling applications. Mounting option depends upon tooling and excavator class
- Tooling alternatives include vibratory pile driver, hydraulic hammer and rotary drives for pre-augering
- Suitable for a wide range of piling applications, including pre-augering and driven piles (sheet piles, tubular steel piles, H-beams and precast concrete piles) Effective pile length six (6) meters (for driven piles per single pile section)
- Multi-tool piling leader and tooling designed to work on a standard excavator with normal auxiliary hydraulics. All leader related hydraulics are integrated onto the leader itself. Tooling can be changed easily and fast and the Multi-tool piling leader can also easily, fast and flexibly be attached and detached enabling other usage of the excavator
- The Multi-tool piling leader and the tooling is controlled with the MOVAX Control System mControl+ Pro

DISCLAIMER

MPL Multi-tool piling leaders are customised solutions. Hence the features and technical data of a specific MPL delivery might differ from the data presented in this catalogue.



Multi-tool piling leaders for DRIVEN PILES



MULTI-TOOL PILING LEADERS, MPL-200

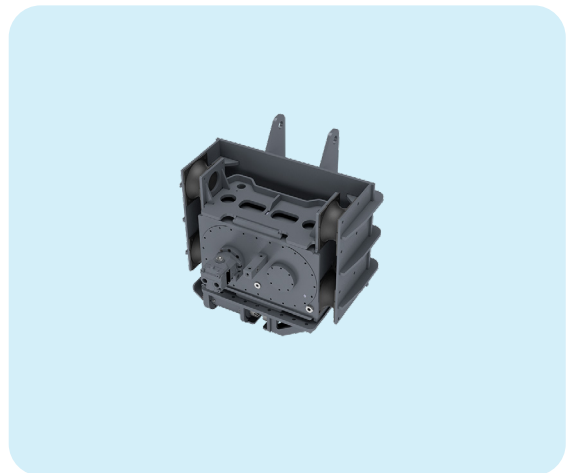
TECHNICAL DATA

Multi-tool piling leader, MPL-200

Model		MPL-200
Weight (excl. adapter & tooling)	kg	1800
Height	m	7,8
Excavator class	t	8-30

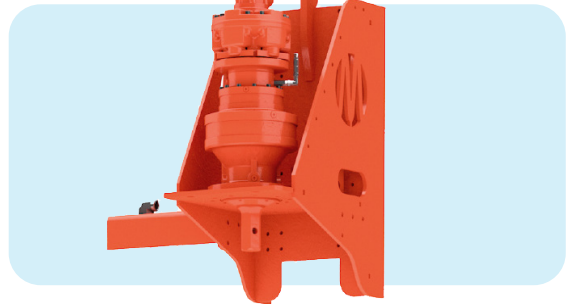
Vibratory pile driver

Model		TG-15
Frequency	Hz	50
Eccentric moment	kgm	1,6
Centrifugal force, max	kN	150
Excavator class, min	t	
Chassis mounted*		8
Boom mounted		16
Stick mounted		23
Suitable piles		
Sheet piles	size	U and Z piles / 6 m
H-beams	size	up to H200 / 6 m
Tubular steel piles	size	up to Ø 220 mm / 6 m



Rotary drive for pre-augering

Model		PD-6
Rotation speed	rpm	20-43
Torque		12
Excavator class	t	
Chassis mounted*		8
Boom mounted		16
Stick mounted		23



Hydraulic hammers

Model		IH-1200	IH-2500	IH-3400
Blows per minute	1/min	570-1180	460-940	400-870
Energy	Nm	1200	2500	3400
Excavator class, min	t			
- Chassis mounted		8	16	18
- Boom mounted		16	20	20
- Stick mounted		23	26	30
Suitable piles				
Sheet piles	size	U and Z piles / 6 m		
H-beams	size	up to H200 / 6 m		
Tubular steel piles	size	up to Ø 220 mm / 6 m		



NOTE! excavator class is limited by hydraulic power rather than excavator lifting capacity



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