

MOVAX

SOLUTIONS



VALID
FROM
JAN25

TOTAL SOLUTION for

PILING, FOUNDATION & SOIL IMPROVEMENT

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 complete range of technological solutions covers vibratory pile drivers and hydraulic piling hammers for driven piles, telescopic/kelly bar piling drills for bored – cast-in-situ concrete – piles and multi-tool piling leaders with tooling for driven and bored piles, CFA (continuous flight auger) concrete piling and DTH (down-the-hole) drilled piles. Soil improvement (dry method) is done with the column stabilisation leader.



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 pile drivers, piling hammers and rotary drives for pre-augering, CFA and DTH 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.

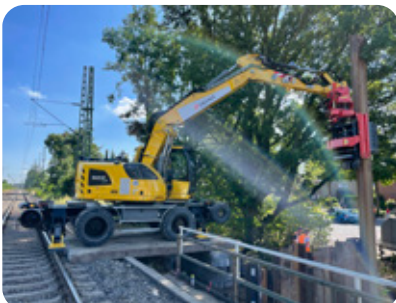
DRIVEN PILES

SIDE GRIP VIBRATORY PILE DRIVERS



MOVAX side grip vibratory pile drivers are the optimum solution for a wide range of piling requirements and a variety of site and soil conditions – especially in the most demanding conditions when a high-degree of precision is required, and for piling in sensitive environments and when limited space or access is available.

The same side grip vibratory pile driver can handle, pitch and drive piles – and extract - and is capable of accomplishing the whole process without the need of assisting machinery or manual handling, without additional manpower, work, material and tools, and with less and cheaper logistics.





FEATURES

- **Excavator-mounted**
Models available for a complete excavator size range from 8 to 50 ton.
- **High frequency**
- **Variable active/resonance free and fixed eccentric**
- **Suitable for a Complete range of piles**
for sheet piles - trench sheets - H-beams - tubular steel piles - timber pile
- **Based on the MOVAX Modular System**
The same unit can be used for different type of pile and piling works.
- **MOVAX Control System**
- **MOVAX FleetManagement**
- **MOVAX mLogbook**



DRIVEN PILES

HYDRAULIC PILING HAMMERS



MOVAX Piling Hammers are hydraulic, double acting impact-type, piling hammers utilised for driving load-bearing piles or assisting in sheet pile driving in even the most difficult soil conditions.

MOVAX piling hammers can be utilised to complete a pile installation after reaching refusal with a side grip pile driver or when load testing is required.

MOVAX piling hammers can further be utilised independently for driving a wide range of piles including sheet piles, H-beams, tubular steel piles, timber piles or pre-cast concrete piles.





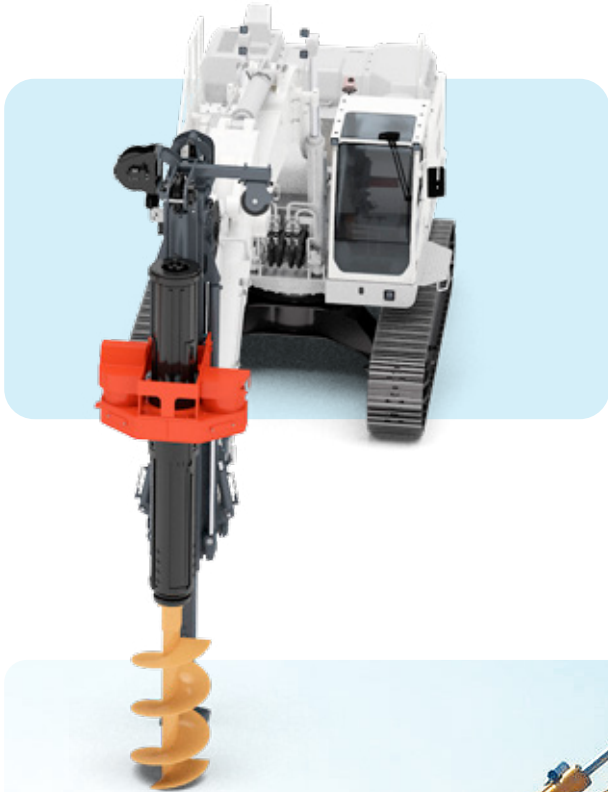
FEATURES

- **Excavator-mounted**
Models available for a complete excavator size range from 8 to 50 ton.
- **Double-acting, impact type, hydraulic**
- **Suitable for a Complete range of piles**
For sheet piles - trench sheets - H-beams - tubular steel piles - timber piles - precast concrete piles. Also load bearing piles.
- **Based on the MOVAX Modular System**
The same unit can be used for different type of pile and piling works.
- **MOVAX Control System**
- **MOVAX FleetManagement**
- **MOVAX mLogbook**



BORED PILES

TELESCOPIC/KELLY BAR PILING DRILLS



MOVAX Piling drills are excavator-mounted, telescopic/kelly bar-type auger drive attachments for cast in-situ (concrete) piling. MOVAX Piling drills are explicitly designed for soil removal tasks.

MOVAX piling drills are especially suitable for work in confined spaces while still being good at reaching over obstacles. The telescopic/kelly bar design keeps the drill height low and allows working on sites with limited headroom without compromising on drilling depth.





FEATURES

- **Excavator-mounted**
Models available for an excavator size range from 24 to 50 ton.
- **Telescopic**
Light weight models for max 9 meter drilling depth & 1000 mm diameter.
- **Kelly bar**
Heavy duty models for max 25 meter drilling depth & 1500 mm diameter. Available with (optional) casing adapter/ cardan joint and service winch.
- **Based on the MOVAX Modular System**
The same unit can be used for different type of pile and piling works.
- **MOVAX Control System**
- **MOVAX FleetManagement**
- **MOVAX mLogbook**



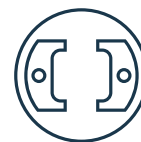
HANDLING OF PILES, POLES & MASTS

MANIPULATORS



MOVAX manipulators are designed for fast, flexible and efficient handling of different kinds of masts, gantries, and poles as well as a wide range of piles. Based on the patented side grip technology, the MOVAX manipulator is designed for superior maneuverability, safety and accuracy.





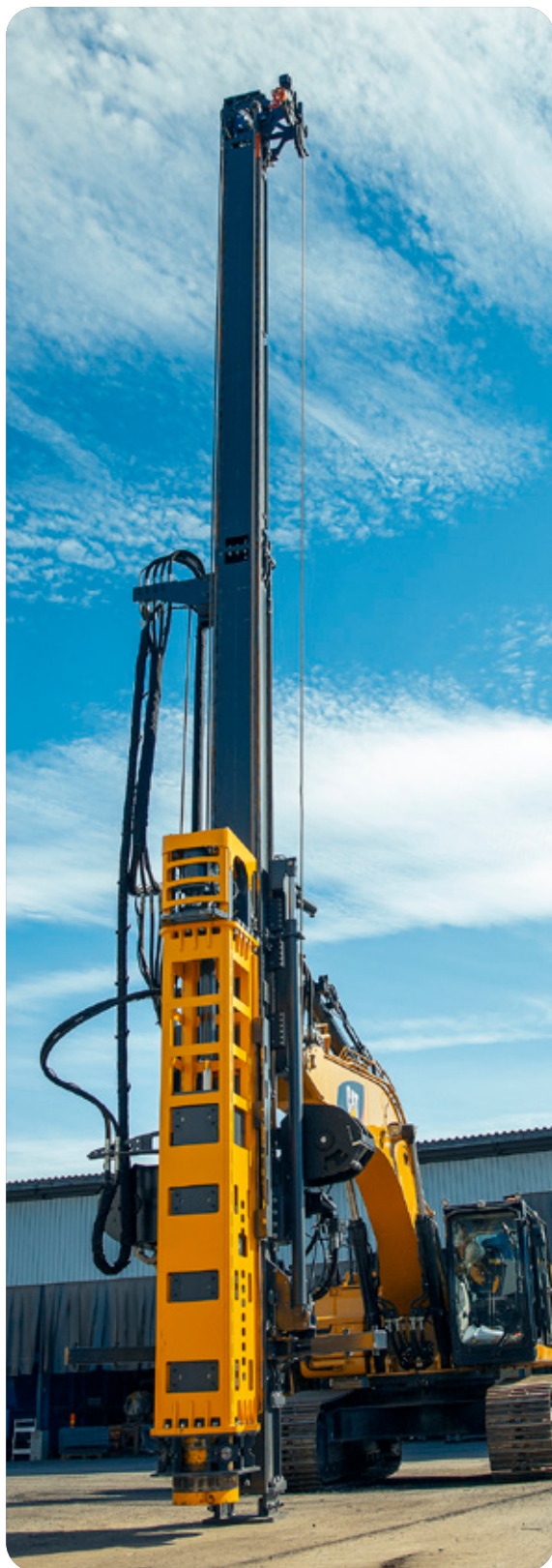
FEATURES

- **Excavator mounted**
Available for a complete excavator size range from 18 to 50 ton
- **Suitable for a wide range of profiles – round, square, hexagonal, conical**
 - Sheet piles
 - H-beams
 - Tube piles
 - Timber piles
 - Precast concrete piles
 - Masts
 - Gantries
 - Poles
- **Available with customised clamps and pads, with soft gripping surfaces and other customised features**
- **MOVAX control system**



DRIVEN, DRILLED & BORED PILES

MULTI-TOOL PILING LEADERS



MOVAX multi-tool piling leaders provide a fast, efficient and versatile, multi-tool solution for a wide range of piling requirements in a variety of site and soil conditions, and for different types of piles and piling technologies.

MOVAX MPL multi-tool piling leaders are available with a wide range of tooling for different piling and foundation applications ranging from different type of driven piles, such as sheet piles, tubular steel piles and precast concrete piles, driven and bored piles (CFA) to drilled (casings/DTH) piles.





FEATURES

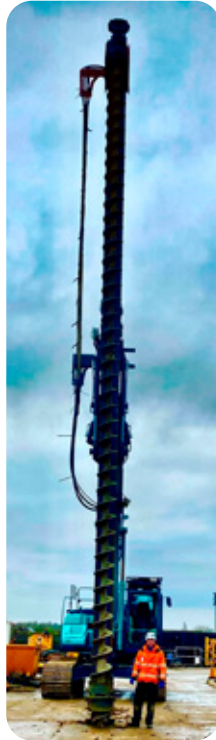
- **Excavator-mounted**
Available for an excavator size range from 30 to 50 ton.
- **Tooling for driven, bored and drilled piles**
 - Vibratory pile drivers
 - Hydraulic impact-type piling hammers
 - Rotary drives for CFA
 - Rotary drives for pre-augering
 - Rotary drives for casings/DTH
- **MOVAX Control System**
- **MOVAX FleetManagement**
- **MOVAX mLogbook**



DRIVEN, DRILLED & BORED PILES

MULTI-TOOL PILING LEADERS

PRE-AUGERING

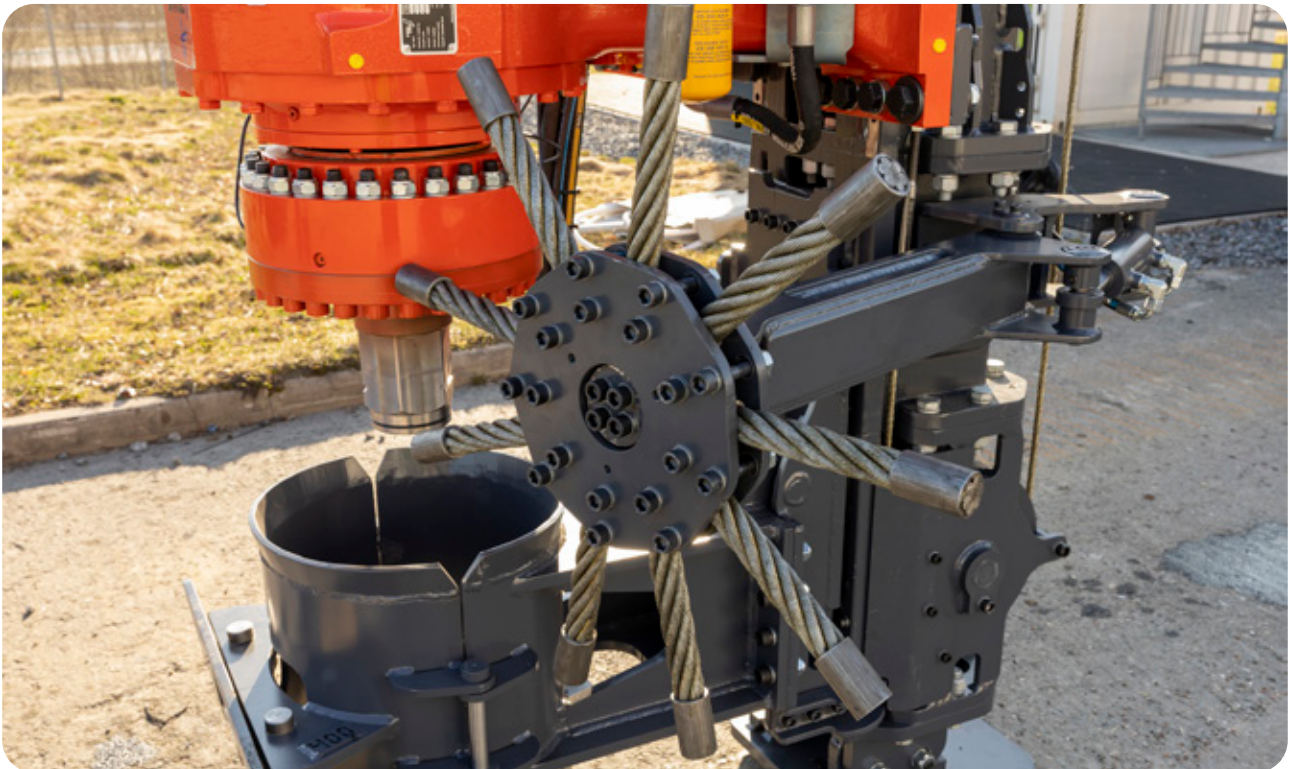




DRIVEN, DRILLED & BORED PILES

MULTI-TOOL PILING LEADERS

CFA





DRIVEN, DRILLED & BORED PILES

MULTI-TOOL PILING LEADERS

IMPACT DRIVING





DRIVEN, DRILLED & BORED PILES

MULTI-TOOL PILING LEADERS

VIBRATORY DRIVING

for sheet piles, H-beams, tubular steel piles and stone columns





DRIVEN, DRILLED & BORED PILES

MULTI-TOOL PILING LEADERS

DTH





SOIL IMPROVEMENT

COLUMN STABILISATION LEADERS



MOVAX column stabilisation leaders provide a fast, efficient and versatile solution for column stabilisation utilising both dry and wet binder material.

MOVAX column stabilisation leaders are based on a modular concept and always customised to meet customer-specific requirements.





FEATURES

- Excavator-mounted
Suitable for 30 to 50 ton excavators.
- Max stabilisation depth 20-25 meters with
column diameters between 500 and 800 mm
depending on excavator model & size.
- Controlled with the MOVAX Control System
- Monitored with MOVAX FleetManagement
and mLogbook



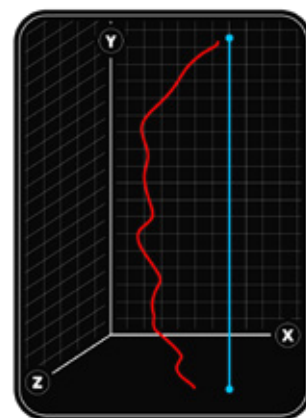
CONTROL & INFORMATION

MOVAX CONTROL SYSTEM



The MOVAX Control System, mControl+, links the carrier (excavator, railroader or equal) with the MOVAX piling equipment and customised solutions. The system controls the auxiliary hydraulics of the excavator which in turn is utilised to control the MOVAX piling equipment, the MOVAX multi-tool piling leaders including the tooling connected to the leader and the MOVAX column stabilisation leader.

The MOVAX Control System is integral to - and inseparable from - the MOVAX piling equipment and customised solutions - and thus a vital part of the many benefits of the unique and innovative MOVAX way-of-piling.



FEATURES

- **State-of-the-art, advanced MOVAX control system**
Automatic control system with autoT™ tip-control, mControl+ PRO and manual control system, mControl+ LITE
- **Commanding the auxiliary hydraulic circuit**
Excavator's auxiliary pilot circuit is controlled optionally: Hydraulically, Electronically, or, through a CAN interface
- **Ergonomic and informative user interface**
 - Easy-to-read graphical symbols for different functions
 - User-friendly menus for calibration and performance optimisation
 - Colour display
 - All functions effortlessly controlled with custom control grips
- **Available with connectivity to MOVAX Information Management System**
mFleetManagement and mLogbook





MOVAX INFORMATION MANAGEMENT SYSTEM

FEATURES

- **mLogbook**
Provides essential information about the piling process and the pile installation.
- **mFleet Management**
Provides all the necessary information about the MOVAX piling equipment itself.





MOVAX WAY-OF-PILING

MOVAX excavator-mounted piling & foundation equipment and customized solutions for driven, drilled and bored piles.



CIVIL



ROAD



RAIL



UTILITIES



ENERGY &
ENVIRONMENT



WATERWAYS



MOVAX WAY-OF-PILING™ provides the optimum way of working when constructing load bearing 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.

MOVAX WAY-OF-PILING

UNIQUE, INNOVATIVE & VALUE-ADDING SOLUTIONS

MOVAX way-of-piling™ provides a most efficient, fast, flexible and versatile, accurate, safe and reliable way-of-working which results in a higher productivity and thus significant overall time and cost savings in a wide range of piling and foundation – soil improvement - applications.

THE MANY BENEFITS OF MOVAX WAY-OF-PILING

- **A total piling & foundation solution**
A complete range of piling equipment and customised solutions for driven, bored and drilled piles
- **Unique, value-adding technology**
Fast. Efficient. Versatile. Accurate. Safe. Reliable.
- **Globally proven technology & solutions**
 - Since 1993
 - Over 3000 deliveries
 - All over the world
 - Site & soil conditions from the arctic to the tropic
 - Numerous applications from rail, road and civil to waterways & piers, environmental & utilities
- **Globally supported sales and service**



HIGHER PRODUCTIVITY – SIGNIFICANT SAVINGS

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



CIVIL



ROAD



RAIL



UTILITIES



ENERGY &
ENVIRONMENT



WATERWAYS



HIGHER PRODUCTIVITY - SIGNIFICANT SAVINGS
fast. efficient. versatile. accurate. safe. reliable.

Movax Oy

Tölkimäentie 10
FI-13130 Hämeenlinna, Finland

Tel. +358 3 628 070
marketing@movax.fi | movax.com

*Please refer to www.movax.com
for worldwide, certified partners.*