



PILING DRILLS

TECHNICAL
SPECIFICATION

VALID
FROM
JAN25



INTRODUCTION

PILING DRILL TECHNOLOGY

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

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.

MOVAX piling drills are operated by transferring the torque and crowd force from a rotary drive tool to the drilling tool. MOVAX utilises two different designs: a telescopic design (TAD-models) and a kelly bar design (KB-models).

Kelly bar piling drill technology

MOVAX kelly bar-design piling drills utilize interlocking-type kelly bars which have drive ribs welded with lock devices utilized to transfer the maximum amount of torque to each section. The standard kelly bars are manufactured as a fully lockable system with a mechanical locking mechanism between each element, the outer bar and the rotary drive.

The kelly-bar design piling drill can also be used for cased drilling

Telescopic piling drill technology

MOVAX telescopic-design piling drills are cylinder/chain driven. The piling drills consists of one or two moving sections.



Interlocking
kelly bar





PILING DRILLS

FEATURES

EXCAVATOR-MOUNTED

- Suitable for 20-50 ton excavators.
- Utilizing the hydraulic power and lifting capacity of the excavator or rail roader
- Designed to work on any and all wheeled and crawler-type excavators and rail roaders by utilising and commanding the standard auxiliary hydraulics and/or by connecting to the electronic control of the excavator.

TELESCOPIC

- Light weight, telescopic type piling drills with a maximum drilling depth of 9 meters intended primarily for basic rail roaders and smaller excavators.

KELLY BAR

- Heavy duty, kelly bar type piling drills with a maximum drilling depth of 20 meters intended primarily for heavy duty rail roaders and large excavators.

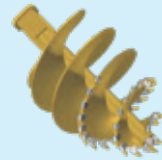
MOVAX MODULAR SYSTEM

- Versatility based on the MOVAX Modular System™ which enables the use of the same unit for a wide range of different piling requirements.
- The modular system includes a wide range of lead augers in different sizes and for different soil conditions.
- Service winch (optional, KB-models only)
- Casing adapter and cardan joint for cased drilling

MOVAX CONTROL SYSTEM

- mControl+ LITE
- mControl+ PRO

LEAD AUGERS



Heavy duty/conical



Rock/cylindrical

SERVICE WINCH



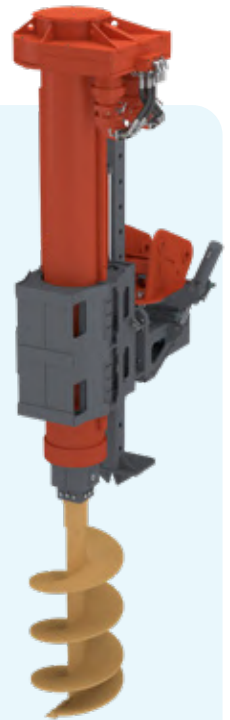
CASED DRILLING



Cardan joint



Casing adapter



CAST-IN SITU CONCRETE PILING & SOIL REMOVAL



PILING DRILLS

TECHNICAL DATA

Models KB-70L & 70S

| Model | | KB-70L | KB-70S |
|--------------------|-------|-----------|------------|
| Drilling depth* | m | 20-25 | 9-15 |
| Weight** | kg | 6700-7100 | 5300-5800 |
| Height** | mm | 5550 | 4500 |
| Oil flow rate | l/min | 100-200 | 100-200 |
| Oil pressure | bar | 350 | 350 |
| Hole diameter | mm | 420-1500 | 420-1500 |
| Drill speed range | rpm | 10-120 | 10-120 |
| Side tilt angle | ° | ±15 | ±15 |
| Torque | kNm | 70 | 70 |
| Extraction force | kN | 75 | 57 |
| Crowd force | kN | 190 | 190 |
| Excavator class*** | t | 35-50 | (30) 35-50 |

Lead augers

| | | |
|----------------|----|--------------------|
| Model | | rock or heavy duty |
| Outer diameter | mm | 420-1500 |

Accessories (optional)

| | |
|----------------|---|
| Service winch | 2,5 ton for handling rebar or reinforcement steel |
| Casing adapter | tailor-made according to customer specifications |
| Cardan joint | tailor-made according to customer specifications |

* drilling depth dependent on length of kelly bar

** excluding adapter and lead auger

*** stick or boom mounted; excavator suitability to be checked





PILING DRILLS

TECHNICAL DATA

Models TAD-32 & 51

| Model | | TAD-32 | TAD-51 |
|-------------------|-------|----------|----------|
| Drilling depth | m | 9 | 6 |
| Weight* | kg | 3200 | 3200 |
| Height* | mm | 3855 | 3855 |
| Oil flow rate | l/min | 75-250 | 75-250 |
| Oil pressure | bar | 350 | 350 |
| Hole diameter | mm | 400-1000 | 400-1000 |
| Drill speed range | rpm | 11-74 | 11-74 |
| Side tilt angle | ° | ±30 | ±30 |
| Torque | kNm | 30 | 50 |
| Extraction force | kN | 30 | 60 |
| Crowd force | kN | 15 | 15 |
| Excavator class** | | 24-35 | 24-35 |

Lead augers

| | | |
|----------------|----|--------------------|
| Model | | rock or heavy duty |
| Outer diameter | mm | 400-1000 |

* excluding adapter and lead auger

** stick or boom mounted; excavator suitability to be checked







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.*

