

## MOVAX SIDE-GRIP SHEET PILER for Standard Excavator

### 1. WHAT THE INNOVATION IS; WHY IS IT INNOVATIVE / WHAT IS CHANGED?

First of all with Movax side-grip sheet-piler it is possible to grip the sheet pile/pipe and H-beam from the side of the pile. Therefore the handling of the long pile or pipe does not anymore depend on the max lifting height of the excavator. Secondly, on the Movax side-grip piler the excavator's bucket cylinder is connected to the piler. Now the excavator operator can separate the pile from the piling-stack as well as lift the pile, move it, lift it up or put it down, and drive or extract it without any extra manpower machinery or difficulties.

Until now all excavator mountable or crane suspendable sheet-pilers GRIP AT THE TOP OF THE PILE ONLY and the piler is hanging freely at the end of excavator's bucket boom or crane hook.

Why is it innovative?

- Patented side-grip \_the first excavator mountable piler able to drive/extract > 13 m long piles
- The first multi purpose piling vibrator which can be used as a steel-pipe driver/extractor, as well as a compactor, etc
- The piler in which the operator can control the direction and the angle of the pile / beam / pipe / anchor at any angle

### 2. COST COMPARISON CHART OF DIFFERENT PILE-DRIVING METHODS

<b>WORKING METHOD 0-14 m long piles</b>		<b>Total invest- ment needed</b>	<b>Man- power needed</b>	<b>Working performance per day</b>	<b>Canal work = <u>Extra costs</u></b>	<b>Cost factor compared with Movax</b>
A.	Crane suspendable pilers	300-600	4-5	20-60 piles	+ one cxc.	200-400
B.	Excavator + tele-boom + vibrator	300-400	3-4	10-40	+ one exc.	200-300
C.	"Silent" - piler	300-400	3-4	5-20	+oneexc.	400-1000
<b>D.</b>	<b>Movax + Excavator</b>	<b>100</b>	<b>1-2</b>	<b>40-100</b>	<b>No</b>	<b>100</b>

### 3. WHERE AND WHEN IT IS ORIGINATED, HAS...

Export started in 1993 and there are now Movax side-grip sheet-pilers in 31 different countries (about 50% of all Movaxes are sold to USA since 1998). In general, everywhere there are hydraulic excavators, there is also demand for the sheet-pilers, a global product.

Because of considerable decrease of piling costs and the working safety reasons the side-grip sheetpiler has taken a lot of market share from other trench-support systems like trench-boxes or "Berliner-wall" system.

Contact: Yrjö Raunisto • Unisto Oy • Tölkimäentie 11  
13130 Hämeenlinna • Finland • +358 3 616 1655 • Fax +358 3 616 1641 • [www.movax.com](http://www.movax.com)

# **MOVAX** Side Grip Sheet Piler for Standard Excavators



- Pile in control
- Driving under low headroom
- Tubes/pipes
- Horizontal driving
- Compacting



Lifting /separating piles -> Lifting upright -> Driving -> Extracting -> Compacting



- Side Grip
- Automatic steering
- Distance meter
- Angle meter
- Joystick



**M  
O  
V  
A  
X**



- Excavator
- Movax vibrator

•1 Excavator operator

**T  
R  
A  
D  
I  
T  
I  
O  
N  
A  
L**



- Crane
- Vibrator
- Power pack
- Excavator for digging

•1 Crane operator  
•2-4 Handymen

[www.movax.com](http://www.movax.com)