

# EXCAVATOR POSITIONING SYSTEM INTRODUCTION

Advanced engineering with 100% of satisfaction warranty

## Kordil EPS

**Kordil EPS** is an integrated custom fitted positioning system for excavators and dredgers providing precision position information on a screen in 3D but in 2D form top and side view. With this screen, operator can see design profiles, survey profile and any other profiles uploaded. The survey profile is updated as dredged or as filled up. In addition, on completion of a part of work, excavator can perform an independent survey over the work area for surveyors to report.

With **Kordil EPS**, work performance is drastically improved because of no time consuming interruption by surveyors, and operation keeps going without any external assistance.

**Kordil EPS** also provides safety improvement when performing near and on hot/live lines or structures.

## Technical Data

Kordil supplies fully integrated excavator guidance system with below data. The RTK is standard system capable of performing 3D dredging and filling operation precisely, whereas optional DGPS is provided only for limited budgets that works with tide height and suitable for dredging flat areas at certain depths.

Horizontal Accuracy	0.10 m with RTK
Vertical Accuracy	± 5 cm @ 20 m total boom length
Heading Accuracy	0.05°

## High Dynamic Accuracy

## Applications

Applicable to all works where excavators utilized, but providing great performance on below applications experimented.

- \* Dam construction
- \* Water-break construction
- \* Flood protection barriers
- \* Ice protection barriers
- \* Shore protection works
- \* Road construction
- \* Seabed levelling
- \* Access channel
- \* Grading and reclamation
- \* Offshore installation
- \* Underwater installation
- \* Mining works
- \* Complicated slope shaping
- \* Pipeline trenching
- \* Topographic surveying

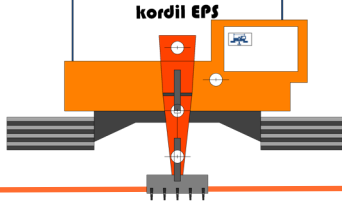


***Kordil EPS** providing all you need on a screen to perform precision dredging. With **Kordil EPS**, performance can be increased twice more than an excavator without **Kordil EPS** or similar.*

*Left view shows top and side view of excavator captured from a real work screen.*

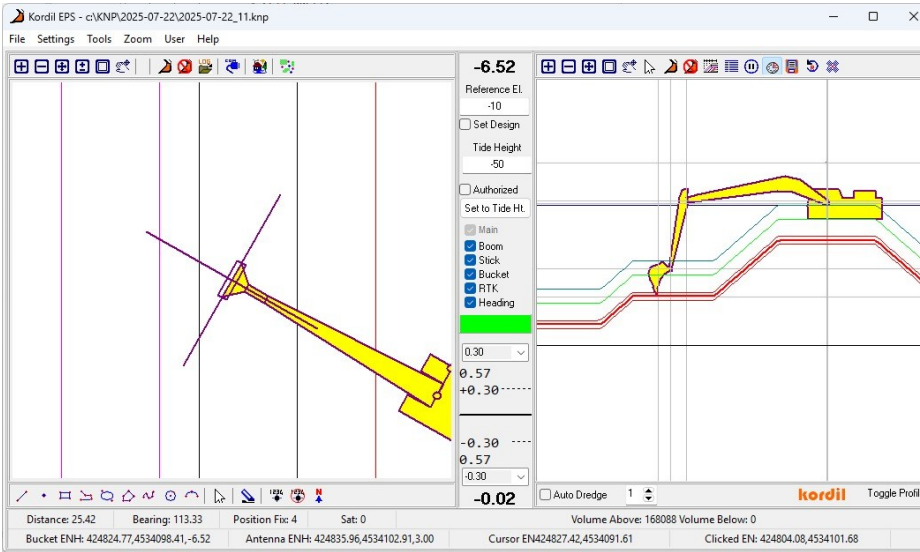
*We set up **Kordil EPS** with 100% customer satisfaction!*

*Available for rental and purchase!*



# EXCAVATOR POSITIONING SYSTEM OVERVIEW

The operator's screen is divided into two main sections: the left side displays the plan view with a top-down representation of the operational area, where performed areas are color-coded for clear progress visualization; the right side presents the profile view, showing real-time updated cross-sectional survey data overlaid with design profiles to support accurate monitoring and decision-making during operations.

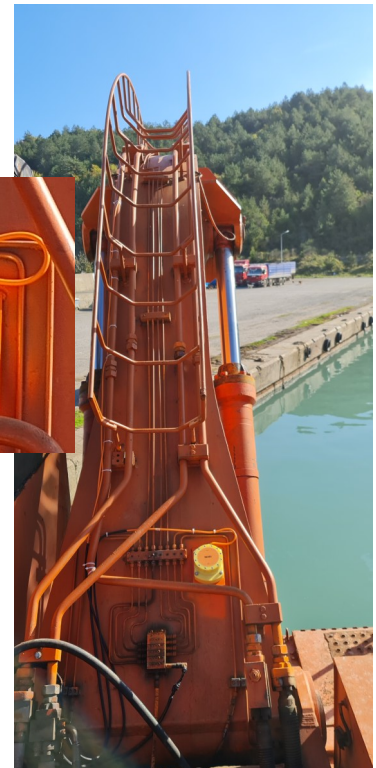


## Support

- Senior level training and remote assistance
- Swift service warranty
- Free software maintenance & upgrade
- Lifetime software upgrade
- Update and recalibration support due to change on machinery parts, such as bucket and jack-hammer configuration

## Reason to have Kordil EPS

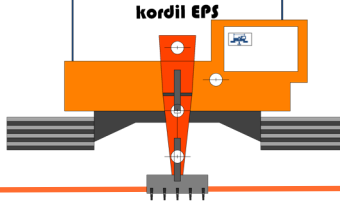
Kordil EPS providing all you need in real-time to see and to record what you do and what you need. For better performance, progress and even for safety!



### Real-time view for operator

### Underwater operations (illustrative purpose)

Working and storage temperature	-40 to +85
Power consumption	200 W
Supply Voltage	12 / 24 VDC depending on source of power on board



## EXCAVATOR POSITIONING SYSTEM KEY FEATURES



Excavators are more valuable

### Positioning systems for your machinery

We are developing turnkey systems for machinery and heavy construction equipment.

Our own R & D department continuously working on new developments to serve you better.

### Key Features

- \* Robust, durable and custom design installation
- \* Convenient for 7/24 hour operation
- \* Dynamic survey data profile update
- \* Dynamic 6 design profile and 1 actual/survey profile on screen
- \* Survey with joystick/push button (XYZ logging)
- \* Real-time side and top view
- \* No surveyor intervention required for good performance
- \* Logging entire datasets received from the sensors
- \* The system is capable of receiving correction using Internet (IP, NTRIP, CORS) and L Band sources (satellite correction Atlas™).
- \* With optional base station, it is also capable of receiving correction over radio sources which requires optional radio integration.
- \* Shock and vibration resistant (suitable for jack-hammers and rock works)
- \* IP-69 water proof sensor design (100 m)
- \* DXF support
- \* User friendly and easy on the eyes software

# ABOUT US

We specialize in developing custom-fitted positioning systems for a wide range of applications, including excavators, dozers, graders, cranes, wheeled and tracked equipment, heavy construction machinery, ships, barges, offshore platforms, caisson foundations, pipelines, underwater robots, and unmanned surface vessels. These systems are based on electromagnetic, mechanical, and acoustic positioning technologies, and are mostly integrated and manufactured in-house. Kordil offers proprietary software packages that address the full spectrum of positioning system requirements and is continuously enhancing them to meet evolving customer needs.



**Kordil Surveying & Engineering Ltd. Co.**

## CONTACT

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