

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

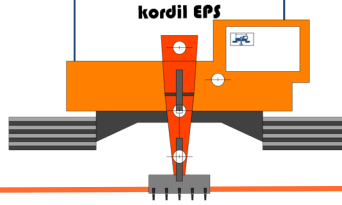


***Kordil EPS** providing all you need on a screen to perform precision dredging. With **Kordil EPS**, performance can be increased twice more than an excavator without **Kordil EPS** or similar.*

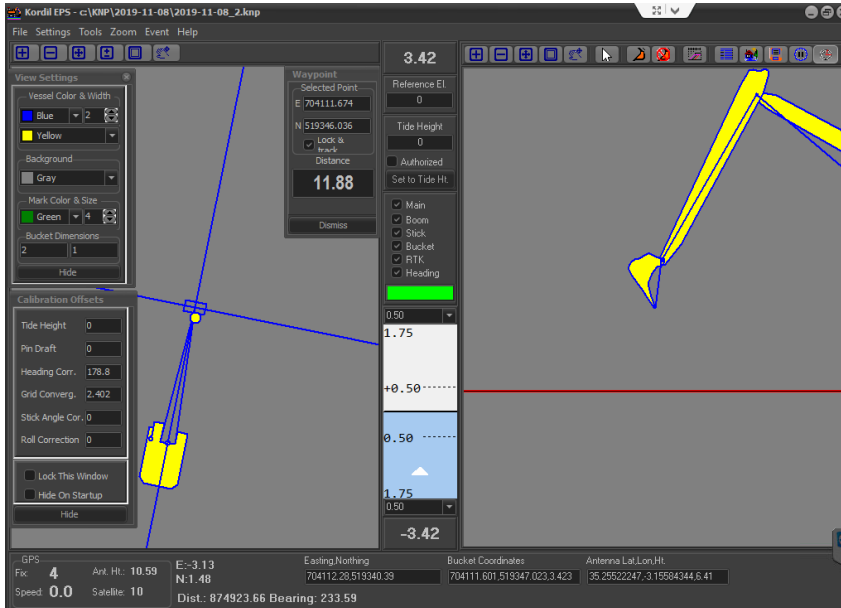
Left view shows top and side view of excavator captured from a real work screen.

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

Available for rental and purchase!



EXCAVATOR POSITIONING SYSTEM OVERVIEW



Overview of Excavator

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!

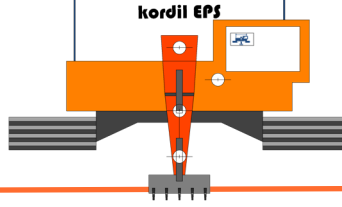


Real-time view for operator



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 are making custom fitted positioning system for excavators, dozer, grader, cranes, wheel and crawling equipment, heavy construction machinery, ships, barges, offshore platforms, caisson foundations, pipeline, underwater robots and unmanned surface vessels consisting of electromagnetic, mechanical and acoustics positioning systems. Most of the systems are integrated and made in house. Kordil have proprietary software packages that handles most of the positioning system requirements and have been continuously developing it to cover all costumer demands.

Our services are mostly provided locally and are supported by a global knowledge base and re-



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