565800-000 Version 0.1

Europe's largest manufacturer of plant safety systems

KINSHOFER GROUP COMPANY

PROLEC SIMPLY SAFER

Prolec PCX-PRO

Guidance/ Machine Control

Our PCX-PRO 3D system uses DTM models and state-of-the-art GNSS technology to constantly monitor the position of the machine and tools in real-time in relation to the design model.

Together with the cut and fill indicators displayed in the cab, this allows operators to rapidly excavate to the reference design with an excellent level of accuracy. As such, highly complex projects can be completed with ease whilst eliminating the need for grade checking, over-excavation and re-work.

All work carried out is shown in the display in real-time and logged as evidence in the progress map related to each job.

Benefits:

- Highly advanced guidance system
- Enables operator to “see” the bucket cutting edge while in murky water
- Revolutionises ease of use, efficiency, and performance
- Excellent level of accuracy
- Eliminates over-excavation
- Reduces need for marine survey work
- Export progress map on-demand, allowing immediate proof of work to the client

Why choose PCX-PRO

- Accurate
- Simple to use
- Cost-effective
- Trusted worldwide
- Real-time
- Marine-grade hardware

PCX-PRO finds utility in dredging sea and river-beds, constructing breakwaters and underwater rock armour designs.

★★★★★

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- **Advanced Positioning and Geospatial Tracking:** Equipped with GNSS technology, the PCX system enables highly accurate (4-cm resolution) positioning and geospatial tracking of dredging equipment. This ensures that material is removed with pinpoint accuracy, minimizing wastage and cost of disposal, optimizing efficiency across the entire work area.

- **Accurate Material Monitoring and Geographic Data:** Our system includes sensors that monitor dredged material in real time, providing both volumetric and geographic data. This comprehensive information aids in managing material movement, optimizing transportation, and adhering to geographic disposal regulations.
- **Job creation:** Support where required on complex jobs available as a consultancy service
- **Training:** Courses available for operators, surveyors, and job creators

Key Features:

- Ruggedised PC tablet
- Simple, icon-driven menu for ease of use.
- 3D full-colour progress maps
- Fully sealed capacitive touch display
- Marine grade sensors
- (Optional) Enhanced sensors available for long-reach machines
- Multiple 2D and 3D design file formats supported
- 2D overlay and 3D layer support
- Avoidance zones
- Standard NMEA GNSS input - all GNSS manufacturers
- Base station, NTRIP and L-Band correction services supported
- Multiple national grids supported worldwide
- Flexible machine model (all sizes and OEMs), including custom equipment and attachments
- Available for mono and triple boom machines
- (Optional) Supported for use on cable cranes
- Tested for vibration, temperature, impact and environmental protection to standards

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Protecting Lives, Enabling Success
Empowering Safety, Elevating Performance