

PRO | grade

MACHINE GUIDANCE | EXCAVATORS

Enhancing the performance of construction plant



PROLEC MACHINE GUIDANCE

MAKING THE GRADE



PROLEC'S RANGE of 2D and 3D excavator machine guidance products have been designed to simplify and increase the efficiency of earthmoving operations. Using precision sensors, state of the art software and user friendly interfaces, Prolec machine guidance products can tell you where an excavator's tool or bucket is to centimetre accuracy and put the operator in control.

2D/3D



OUR PRODUCTS

Prolec offers a complete range of 2D and 3D excavator machine guidance products:

- ▶ Digmaster 2D entry level
- ▶ Digmaster Pro 2D/3D
- ▶ pcX-3D applications specific system

WHERE CAN IT BE USED?

Prolec has developed a range of machine guidance products and variants that can be used across a number of applications:

- ▶ Mass excavation and general earthworks
- ▶ Grading
- ▶ Road construction
- ▶ Trenching and ditching
- ▶ Waterway maintenance
- ▶ Breakwater construction
- ▶ Dredging
- ▶ Drilling and piling

IMPROVE PRODUCTIVITY BY UP TO 50%

Machine guidance ensures right first time excavation which means:

- ▶ Faster working cycles
- ▶ Less rework
- ▶ Measurable material savings

By reducing the need for staking or setting out and grade checking, machine guidance can reduce surveying costs significantly. Removing dependence on additional staff allows banksmen and grade checkers to be better utilised, thereby increasing plant autonomy and reducing accident potential.

DIGMASTER

DIGMASTER is an entry-level 2D product which is ideal for those not ready to make the jump to a full 3D solution. When referenced to a known point the product is capable of working to accuracies of 2cm to the bucket teeth, and this information is displayed to the driver via the graphical user interface located in the cab.

2D

DIGMASTER IS SUITED FOR APPLICATIONS SUCH AS:

- ▶ Blind cuts
- ▶ Trenching
- ▶ Single slope
- ▶ Dual slope
- ▶ Layering

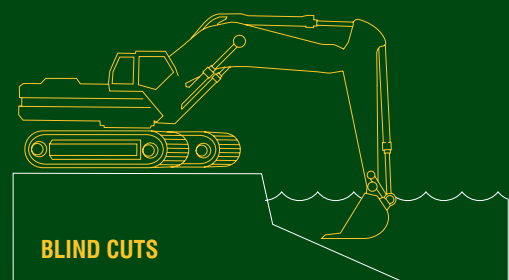
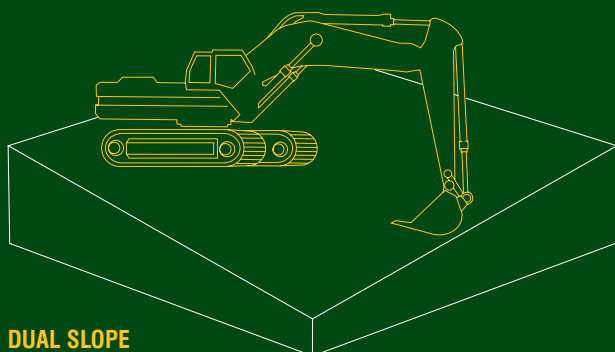
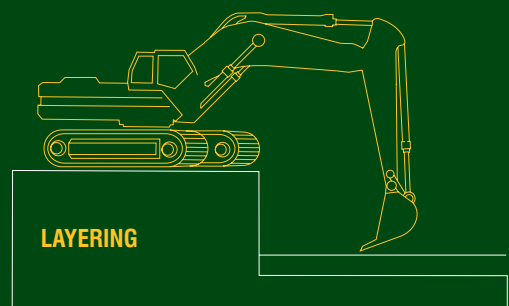
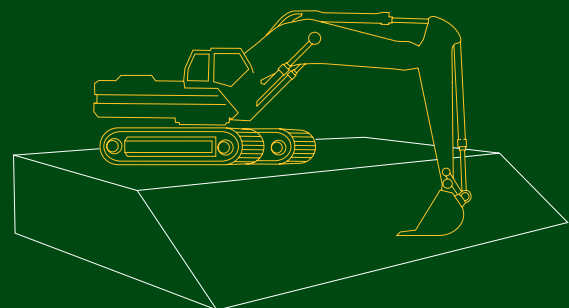
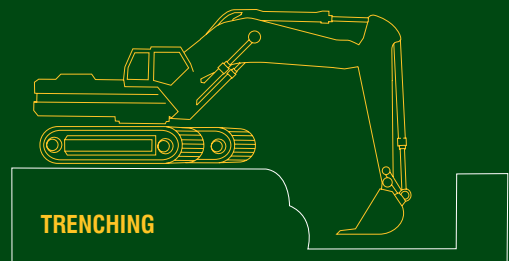
PRODUCT FEATURES INCLUDE:

- ▶ Land, marine or long reach configurations
- ▶ Easy to use touch screen interface
- ▶ Optional laser and tilting bucket sensors
- ▶ User programmable profiles

Upgrades options:

- ▶ Rated Capacity Indicator option
- ▶ Undercutting

Prolec's CAN Bus sensors allows Digmaster to be upgraded to one of the companies 3D products, Digmaster Pro or pcX-3D.



DIGMASTER PRO



DIGMASTER PRO has been designed to meet the requirements of the mainstream machine guidance market. The system is available as a non-GPS system, which can be upgraded to a fully functional 3D product through software and the addition of GPS or other suitable positioning devices. Operating in 3D mode allows a surveyed design to be uploaded in to the cab and ensures maximum productivity.

2D/3D

FEATURES OF THE SYSTEM WHEN OPERATING IN 2D MODE INCLUDE:

- ▶ Level, slope or dual slope excavation
- ▶ Trenching
- ▶ Laser sensor option
- ▶ 3D view with progress

With the addition of GPS or other suitable positioning devices, Digmaster Pro is easily upgraded for use on 3D job sites where work is being completed to a predefined site plan called a Digital Terrain Model or Map. This is when maximum productivity benefits are seen and machines operate with a greater level of autonomy.

FEATURES INCLUDE:

- ▶ 3D real-time multi view machine guidance
- ▶ Multiple on target indicators
- ▶ Auto zoom and view change on approach to target for fine grading
- ▶ Customisable icon based graphical user interface
- ▶ Customisable machine and tool configurations
- ▶ Configurable GPS interface allows use with all major brands
- ▶ Compatible with most 3D model files through ProJob software
- ▶ User defined offset
- ▶ Progress Map



pcX-3D

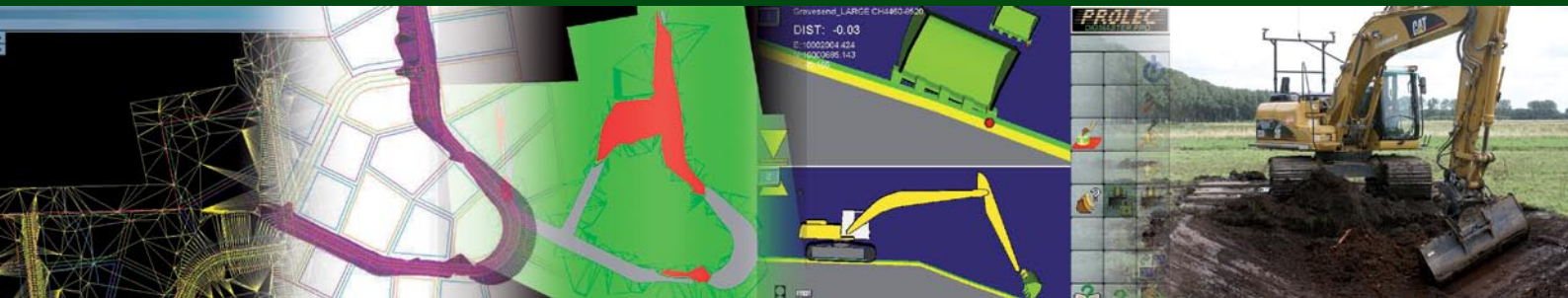
pcX-3D is Prolec's high end customisable 3D machine guidance system used in a wide variety of applications that can be tailored to meet individual customer requirements. It offers all of the features you would expect to find in a 3D product as well a number of unique benefits.

3D

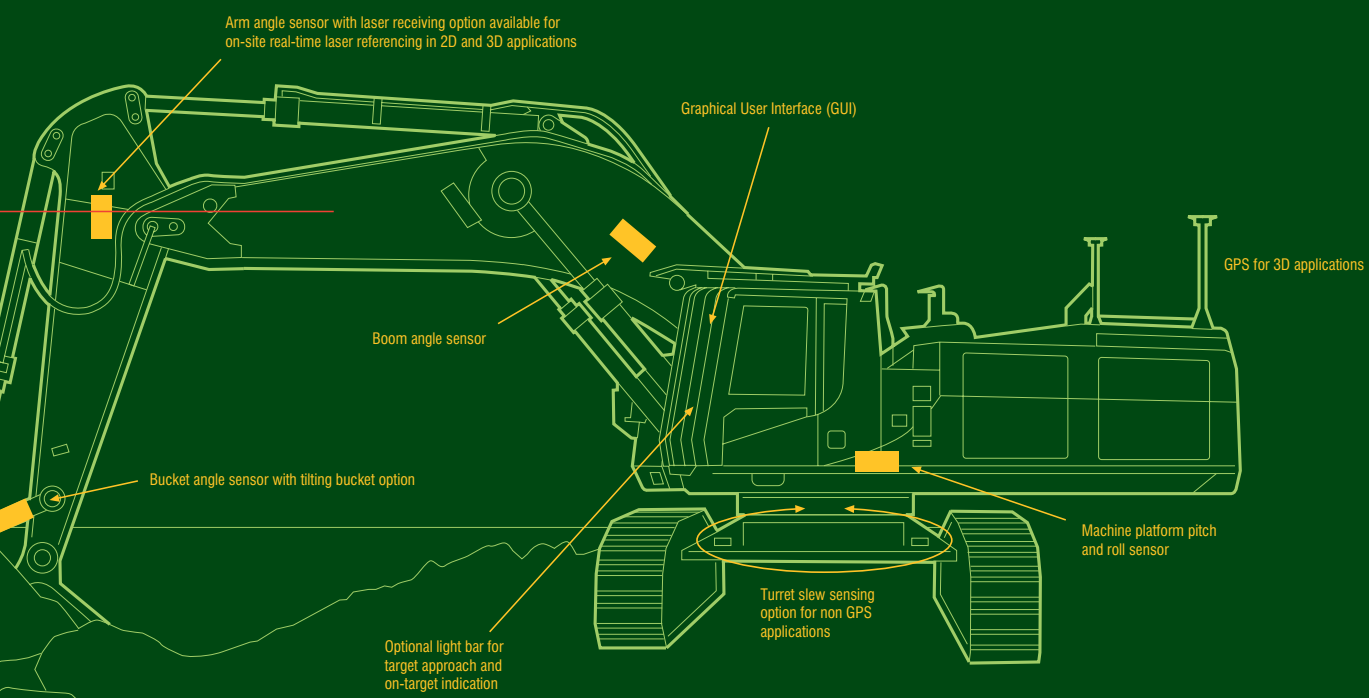
FEATURES INCLUDE:

- ▶ Actual versus target progress displayed in real-time
- ▶ Material extraction/placement calculation
- ▶ Material characterisation

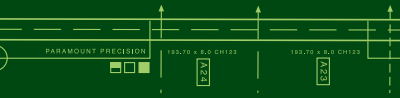
pcX-3D has been deployed in applications such as drilling and piling, subsea excavation, rapid impact compaction and breakwater construction.



PROLEC DELIVERING YOUR DESIGN



PRODUCTS



PRO | grade

MACHINE GUIDANCE EXCAVATORS

- Digmaster •
- Digmaster Pro •
- pcX-3D •

MACHINE CONTROL

- Dozers •
- Graders •

PRO | load

ONBOARD WEIGHING

- Weighloader •
- Weighloader ADT •

PRO | safe

SAFE & EFFICIENT PLANT

- Liftwatch 5 •
- Liftwatch PC •
- Heightwatch •
- Heightmaster •
- Motion Control •
- Envelope Monitoring •
- TMI •

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