

Products

PRO | grade

MACHINE GUIDANCE

- Digmaster ●
- Digmaster Pro ●
- pcX-Pro ●

PRO | safe

SAFE & EFFICIENT PLANT

- Liftwatch 5 ●
- Liftwatch Rail ●
- Heightwatch 6 ●
- Heightmaster ●
- EA Heightmaster + ●
- Motion Control System ●
- Rangemaster ●
- Slopemaster ●
- TMI ●
- Truckwatch ●

PRO | load

ON BOARD WEIGHING

- Weighloader ●
- Weighloader ADT ●



Digmaster Pro is a revolutionary concept in machine control for excavators that allows operators to work in 3D when needed, and 2D for everything else. In 2D mode the system works to a known reference, while in 3D mode, the system allows a surveyed design known as a Digital Terrain Map (DTM) to be uploaded into the cab. The machine is located on the DTM using GNSS technology connected to the system. Using this approach, grade control to accuracies of 2cm can be achieved anywhere within the digital terrain map.

Benefits

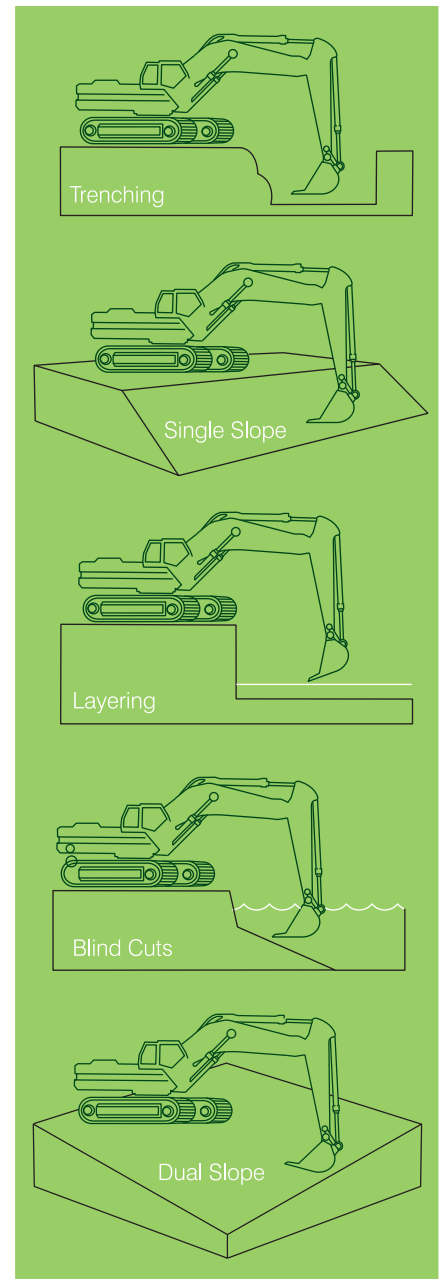
- ▶ Increase productivity by 30-50%
- ▶ Reduce staking by up to 90%
- ▶ Can be used in 2D or 3D to suit application
- ▶ Complete jobs faster and improve accuracy
- ▶ Reduces staff around the machine
- ▶ Reduces fuel consumption
- ▶ Reduces material overage & transportation costs
- ▶ Ensures consistency of operations regardless of operator skill level

Features

- ▶ Real time 2D & 3D machine guidance
- ▶ Compatible with all major brands of GNSS
- ▶ Work with multiple file format including .csv, .dxf and .xml
- ▶ Land, marine and long reach configurations
- ▶ Progress map in 3D mode
- ▶ Optional laser sensors to work with on-site laser in 2D mode
- ▶ Easy to operate touch screen interface
- ▶ Programme complex profiles simply
- ▶ Multiple bucket and tool configurations
- ▶ Multiple visual indicators including auto zoom and rainbow bucket
- ▶ Supports 2D overlays, avoidance zones, chainage lines and points of interest

Applications

- ▶ Road Construction
- ▶ Bulk Earthmoving
- ▶ Waterway Maintenance
- ▶ Trenching

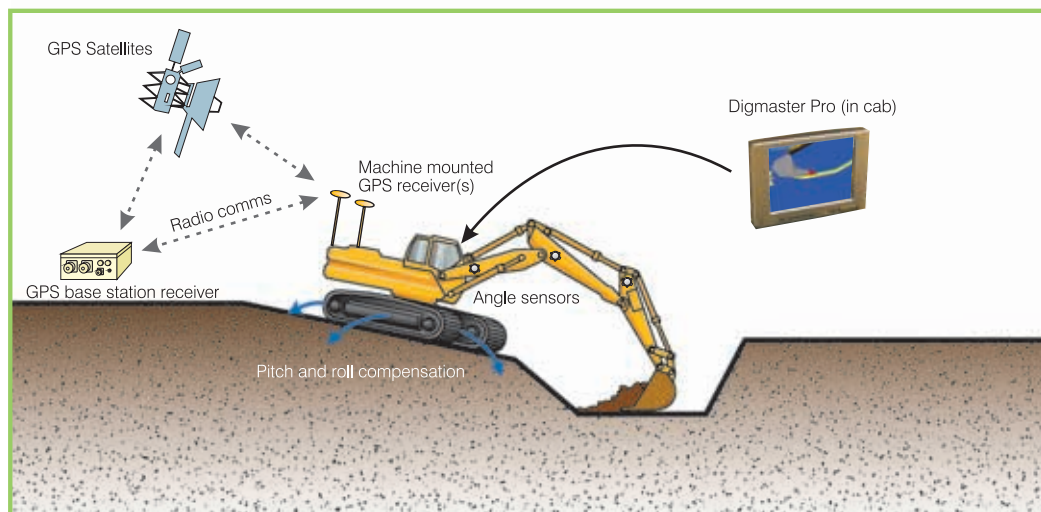


System Reliability

With Digmaster Pro comes the assurance of Prolec's many years of experience in providing both safety critical machine monitoring systems and 2D/3D machine guidance systems, ensuring reliability comes as standard - not as an option.

Product Support

The quality of after sales support is as important as the product itself. Prolec provides customer support through a network of mobile service engineers in the UK and appointed international distributors overseas. In addition to this, Prolec has a dedicated in-house customer support team.



Technical Specification

Computer/Display	Ruggedised, full VGA, back lit 32 bit colour LCD touch screen
Inputs/Outputs	Ruggedised purpose built custom PC 1 x External RS232 for CAN interface 3 x External RS232 uncommitted for GPS interface, compass and data output 2 x External USB interface for touch screen and dongle 2 x External USB uncommitted for program installation and project import 1 x External speaker output
Power Supply	18-30V DC @ 5.0 amp max 2 x GPS power out @ 1.0 amp max 1 x Touch screen power out at 12VDC Reverse polarity protection Solid state re-settable fuses
Temperature	Operating: -20°C to +50°C Storage: -40°C to +80°C Display: 0°C to +50°C

Environmental Protection Sensors: IP67-68

EMC CE Approved

Sensors

AS7 Angle Sensors	0.2° accuracy (all variants) 360° electrical operating range 360° mechanical operating range Electrically damped Solid state technology 20000g sensor shock resistance
AS8 Angle Sensors	0.09° accuracy (all variants) 360° electrical operating range 360° mechanical operating range Magnetically damped pendulum operation High Accuracy encoder technology
AS9 Angle Sensors	0.09° accuracy (all variants) 360° electrical operating range 360° mechanical operating range Fast response magnetically coupled direct drive control High Accuracy encoder technology

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