



2D Pro

Height and slew limiter



2D Pro offers accurate and quick grade control in common civil engineering applications. Pre-set profiles allow you to dig to depth or grade to a known profile first time without under/over cutting, saving you time, rework and excess material. Tool addition and measurement has been re-designed, simplifying the selection and editing of slopes, cross sections, trenches and simple grading.

2D Pro is unique and it replaces our standalone 2D guidance product, Digmaster, with an integrated system built onto our modular safety system, meaning you can integrate any 'Pro' safety feature offered by James Fisher Prolec with this machine control product , or as a standalone system.

When integrated with a compatible safety product, 2D Pro maintains all pre-set limits (height, slew, cab protection, depth) while operating the guidance system. You can operate safely and in compliance with codes and site rules with only one hardware solution working together.

Benefits of HS Pro

- One system/many jobs
- Integrates with existing James Fisher Prolec 'Pro' safety systems
- Maintains pre-set safety limits even when digging
- Productivity gains by removing re-work and reducing checking
- Material savings and lower fuel use
- Full machine view not just the bucket position
- Display moves in real time in synch with the boom and bucket
- Reference to local levels
- Reference to site survey height
- Level grading
- Single and dual slope grading
- Cross section digging
- Trench digging including defined fall/rise

Standards features

- In built integration with any 'Pro' safety system
- Slew and Height control maintained from any PME safety system installed
- Calibration maintained from PME safety system set-up
- Slew reference input from PME safety system maintained (if installed)
- Distance to target indication





Standards features

- Adjustable parameters for all grade profiles
- Editable profiles
- Simple cross section and trench editing within the system
- Definable “deadband” for digging guidance. Choose level of detail required to display
- Standard bucket and hammer tools available
- Complex profile editing via web tools
- User selectable active tool point for fine grading or trenching
- User selectable mode reference in cross sections
- Alert and logging of safety warnings, except load, during digging (requires compatible safety system fitted)

Options

- Laser receiver
- Tilting bucket option
- Slew input available for improved measurement of slope & grade
- Unique GPS compass inc. built in Pitch & Roll Sensor for automatic slew input
- Laser level input (hardware required)
- Auto/manual laser level referencing

Standards and Tests

Full testing, traceability and control on design to ensure the operation is as planned and the functionality as safe as possible.

- Complies with H&S requirements on the machinery directive EN2006/42/EC
- Designed to meet EN474; BS7262;EN10567; EN13000:2010; EN13844;EN12077; EN62061; EN60204:2006

- Complies with LOLER requirements for
- UK lifting EMC EN13309:2010; EN50121-3:2006
- Controller (IO module) tested to IP69k
- Display tested to IP65
- Display daylight viewable (650cd/m2)
- Operating system independant to ensure SIL2 functionality
- Follows MISRA development guidelines
- Display tested to IP65
- Controller (IO module) tested to IP69k
- Tested for Vibration, Temperature,
- Impact and environmental protection to standards

Technical specification

- Display daylight viewable (650cd/m2)
- Input voltage 10-32V
- Power requirements as installed.
- System off: 2mA; 10V
system: 1A; 32V system: 500mA (power requirements may vary dependant on hardware configuration)
- Operating temperature range -20 C to 65 C
- Touch button (capacitive) input on display
- CAN communications protocol
- M12 connectors
- USB 2 input for data transfer