

Integrated 3D Dozer System

MC-Max



Liebherr factory
installed and calibrated
3D System

3D Grade Control

MC-Max

A revolutionary dozing system, MC-Max delivers the highest productivity dozer solution for any rough or fine grading application. 3D uses our industry leading inertial sensors on the body, C-frame and blade – all to keep the blade cutting edge on grade for any application. This system was built to keep you productive on any job site – providing maximum speed, maximum control, and maximum performance.

Slim and trim – a clear path ahead

The power of the system lies within the inertial sensors. These robust and highly precise sensors work together with ruggedized cab-mounted antennas conveniently placed in a secure location on the machine. This intelligent design gives the operator unobstructed visibility and the flexibility to grade at full throttle on any surface, close to objects, or while in reverse.

Any application, anywhere

The 3D system can be used for fine grading applications such as reducing the dependency on motor graders. With support for 6-way controlled blades, any dozer operation can benefit. The sensors work together to keep the blade as close to the surface as possible, delivering a smooth and consistent pass for any slope.

Outperform the field with the 3D system. Take advantage of every movement made when the machine is in motion and cut finish grade while driving in reverse at high speeds.



Dual antenna configuration

Support for 6-way blades

Eliminates the need for GNSS mast

Superior performance for any rough or fine grading job site application

Increased blade response

Accurate as-built data for volume and productivity reporting

3D-MC machine control software

3D-MC software is intuitive and modern. Our machine control software seamlessly drives all components in the system.

Visualize your every movement and have the integrated LED light bars guide you when you're on grade.



MC-Max

MC-X3 Controller

Future-proof, compact and rugged machine controller, designed for machine control systems and future planned enhancements. Includes communication with radio, cell and LongLink™.



GX-55/75 Intuitive Display

Robust designed display delivered in a lightweight, compact aluminum housing – complete with integrated LED light bars, a graphical interface and fast data processor.



TS-i4 IMU Sensors

Mounted on the body, blade and C-frame, the inertial sensors deliver acceleration data to the system at very high update rates, keeping the blade on grade at high speeds.



GR-i3F GNSS Receiver

Fully integrated multi-constellation GNSS receivers for precise positioning of the dozer at all times.



Helpful Add-Ons - available at your local Topcon partner

If you are working in areas where satellite access is prevented by dense tree cover, buildings, tunnels, or other construction site facilities, LPS (Local Positioning Systems) can provide precise position and height information in 3D using total stations. For this, use a blade mast-mounted 360° prism and a robotic total station.

If you have to grade simple slopes or no 3D design available in areas without satellite coverage, you can easily and quickly add a 2D solution to your machine control system. This is possible with a laser receiver, which is easy to mount on the mast, as well as with an ultrasonic sensor.

Your local Topcon partner will be happy to advise you on how you can profitably expand your machine control. Find your contact at www.topconpositioning.com



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