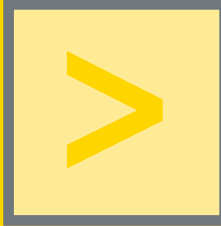


MOBA 3D CONTROL SYSTEMS FOR GRADERS AND DOZERS:  
**CONSTANT RELIABILITY.**



# MOBA GS-506 3D – EFFICIENT, FLEXIBLE, RUGGED.

The innovative 3D solution for automated grader and dozer operations. The two digital configurations MOBA 3D-GS (for GNSS\* systems) and MOBA 3D-TS (for terrestrial positioning systems) ensure an efficient workflow even when following the most challenging designs. Data transmission from the office to the construction machine makes property plans and roadway specifications available for immediate implementation: cut and fill values are clearly displayed on the touch screen of the machine's PC (MPC). The hydraulic control GS-506 always holds the blade at precisely the right height in real-time or, using the sideshift function, keeps the edge of the blade in line.



MOBA 3D-GS

## **MOBA 3D-GS – rugged, flexible and easy to operate.**

MOBA 3D-GS is designed for earthworks and grading. Using an extra-rugged GNSS precision antenna on the mast, positions and heights are measured with a 20 Hz update rate and the highest GNSS accuracy possible. The GNSS receiver, located in an extremely rugged, shockproof and vibration-resistant housing, acts as the machine's rover station. A single reference station can be dependably used for as many machines as you like within a construction area of 10 x 10 km. The absolute system accuracy corresponds to the GNSS accuracy of  $\pm 20$  mm for height control. In terms of planarity, the performance is comparable to other sensors. The MOBA 3D-MPC and its touch screen resist dust, humidity, hot and cold conditions and withstand high vibrations. The modular building block principle allows the basis system GS-506 to be equipped easily and quickly. The GNSS configuration is compatible with many GPS/GNSS reference station systems.



GNSS antenna



GNSS receiver



MPC



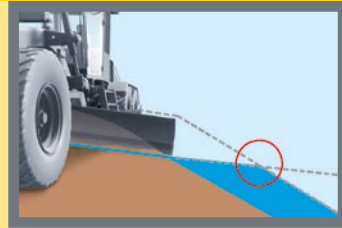
#### Mast-tilt

- » Automatic compensation for mast tilt
- » Exact compensation for cutting angle adjustment



#### Sideshift

- » Precise edges by means of automatic control of side blade motion



#### Hold-x-slope

- » Precisely cuts crowns and batters, keeps blade angle constant
- » Using half the blade width, it is possible to work precisely beyond the project edge



### MOBA 3D-TS – easy, quick, precise.

The MOBA 3D-TS is a high-precision, flexible and easy-to-operate 3D system. The tracker reliably and quickly scans the area for the 360° prism bolted onto the mast, blade or bucket. Tracking is also precise and constant at high work speeds. In case of an interruption, a search is started automatically. When the weather conditions are good, a work area of up to 700 m is possible, depending on the expected accuracy. The tracker system achieves exact, homogeneous finish grading at absolute system accuracies of  $\pm 5$  mm in height and  $\pm 20$  mm when laying out the roadway edge. Both basic and complex grading can thus be accomplished effortlessly and with high precision. The modular building block principle allows the GS-506 basis system to be quickly retrofitted.

MOBA 3D-TS



Prism



Total station



MPC



3D SYSTEM APPLICATION	MOBA 3D-GS	MOBA 3D-TS
» Earthworks, dozer	●	●
» Earthworks, kilver	●	●
» Grading, dozer	●	●
» Grading, grader	●	●
» Finish grading, dozer	●	●
» Finish grading, grader	●	●
» Finish grading, kilver	●	●
» Earthworks, removal	●	●
» Grading, removal	●	●
» Landfill construction	●	●

● frequently used    ● possible

YOUR REQUIREMENTS	MOBA 3D
» Road construction: Highways	✓
» Road construction: County and rural roads	✓
» Railway lines	✓
» Airfields	✓
» Parking lots	✓
» Municipal roads	✓
» Industrial plants	✓
» Landfills	✓



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