

Millimeter GPS for Pavers and Trimmers



Topcon and TSD Integrated Systems, a joint venture of Topcon and supplier of electro-hydraulic equipment, Sauer Danfoss, have unveiled Millimeter GPS precise positioning technology for the paving industry, creating a 3D-GPS+ control system for pavers, profilers and trimmers

Topcon's technology, known as Lazer Zone is used to generate a vertical accuracy to within a few millimetres as compared to the centimetre vertical accuracy of conventional RTK GPS.

Utilised on pavers, the Millimeter GPS technology incorporates a zone-beam laser transmitter, the PZL-1, which sweeps a 600m area with a 10m high wall of laser light. A

compact sensor, the PZS-MC, is mounted on a mast which is attached to the toe arm of the paver. Any time the PZS-MC sensor is positioned within the laser zone signal, the system provides millimetric vertical precision.

Millimeter-accurate GPS can be utilised for setting out or checking grade behind the paver as well. By simply combining the Lazer Zone technology with any Topcon RTK GPS rover along with the same PZL-1 transmitter you get the same high precision vertical control anywhere on the project.