

Digitized asphalt road-building with the Völkel Navigator

Networking of all machines via a neutral server

Stable wireless data transmission with national and international roaming

Supervision of all current building projects on the PC



CompactDoc



Integration of all project-related user data including geo-references



Asphalt surface temperature sensor

The surface temperature sensor is installed at the end of the easy-to-mount and lowerable sensor carrier. This measures the surface temperature behind the sceed precisely and it operates entirely without any moving parts.

- Measurement single pixel width ≤ 25 cm
- Measuring width, approx. 13 metres (typical installation height 3.8 metres)
- Measuring angle 120°
- Measuring range $-50 \dots 300^\circ\text{C}$
- Precision $\pm 2\%$
- International Protection Marking IP 69k
- Operating temperature range $-40 \dots 85^\circ\text{C}$
- No moving parts
- W x H x D: 94 x 80 x 28 mm



Intelligent node

The intelligent connection node connects all parts of the Navigator. All machine-specific settings are saved in the node project. This makes it easy to switch the Navigator from one machine to another.

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PAVE Navigator Digitized asphalt road-building with the Völkel Navigator



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Clear separation of set-up package and Navigator with PAVE kit

Navigator kit

The Navigator display can be installed and removed in a few simple operations using a quick-change unit. The GNSS receiver with modem is positioned precisely and quickly using powerful magnets.



Navigator kit
 - Navigator display
 - GNSS receiver with modem
 - Robust hard-shell case

GNSS receiver with modem



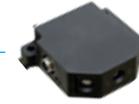
Navigator display with quick-change connection



Weather station [optional]



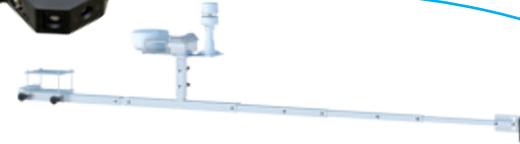
Asphalt surface temperature sensor



PAVE kit

Völkel also offers the PAVE kit for the paver. It includes the lowerable sensor carrier with surface temperature sensor and an optional weather station. The GNSS receiver and modem can be attached by magnet to the sensor carrier.

Sensor carrier [layout including components]

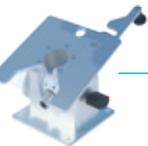


PAVE kit
 - Sensor carrier with surface temperature sensor
 - Robust hard-shell case



Quick-change display mount

Can be positioned flexibly during installation



Asphalt temperature sensor hopper [optional]



Asphalt temperature sensor on conveyor belt [optional]



Asphalt temperature sensor auger [optional]



Cable tension sensor

Width measurement of screed



Set-up package

The set-up package includes all permanently installed parts and can be installed on any desired paver, irrespective of the manufacturer of the vehicle. Machine-specific settings are saved in the intelligent node.



Intelligent node

Temperature surface scan

