

SmartTracker

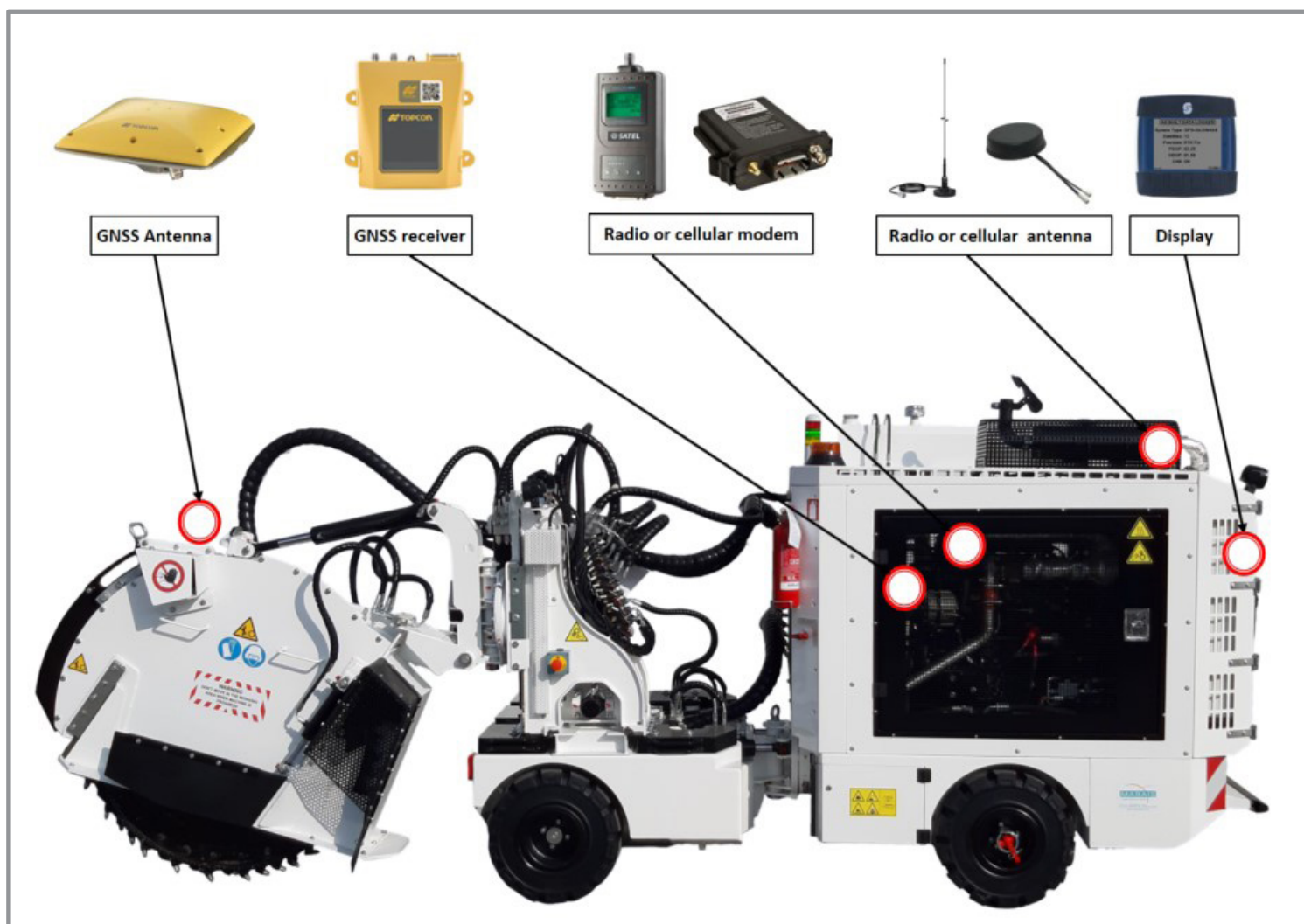
Tesmec is proud to introduce **SmartTracker**, the high-precision **GNSS data recorder** for trenchers. Always more often construction contracts require as-built drawing (also called record drawing) to document the construction process, showing the exact location of installed underground utilities.

SmartTracker is the answer to this need, it automatically collects data while the machine is trenching, avoiding survey stakeout and consequently reducing time and cost.

The system measures GNSS position of the trenching tool on a time base and stores it in the internal memory.

GNSS positions could be recorded as "corrected" (real-time correction is required) or "raw" (data post-processing is required). The first method is called RTK (Real-Time Kinematics), the second is called PPK (Post-Processing Kinematics). Either RTK or PPK could use a local base station or CORS network as source of correction.





System layout with local base station or CORS network

MAIN FEATURES

- Based on rugged GNSS components (Topcon MR-2 receiver and PG-S3 antenna)
- Automatic data acquisition every 10 sec.
- Correction method: Real-Time Kinematic (RTK)* or Post-Processing Kinematic (PPK)
- Position recorded as WGS84 (latitude, longitude, ellipsoidal high).
- Precision: $\pm 4\text{cm}$ ($\pm 1.5\text{ inch}$)
- Output file format: Topcon binary, NMEA, RINEX**
- Storage capacity: 8GB
- Visual interface & audible warning***
- Compatible with Tesmec ReM ***

* Correction from local base station or CORS network

** Conversion from Topcon binary to RINEX is required

*** Only for RTK solution