



FPS

Freedom Positioning System



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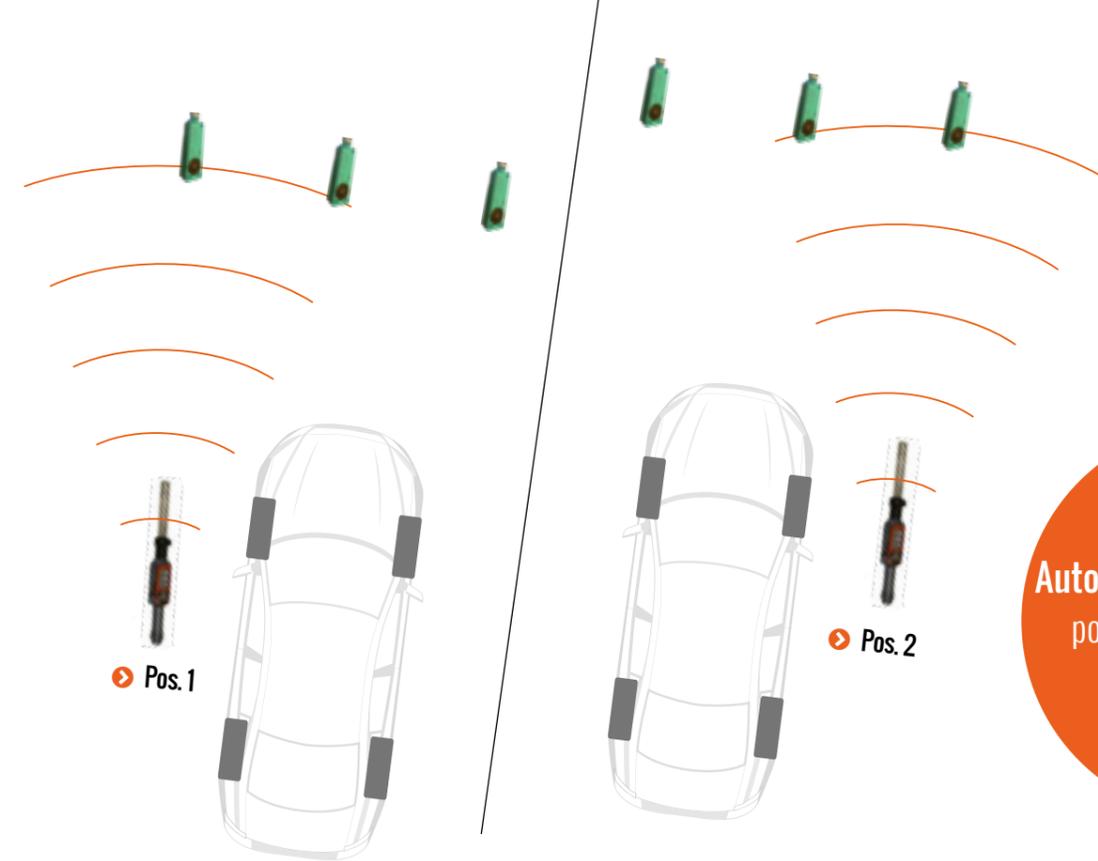
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FPS Freedom Positioning System

Ultrasonic systems with transmitters and receivers that identify the position of the tool on an assembly station.



Auto-learning of the working positions for the system configuration

Functions

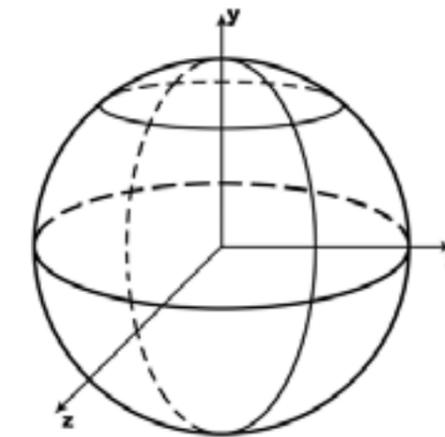
- Detection of the position of the tool on x, y, z axes
- Automatic cycle start or cycle end from the tool position
- Kit for SCS Concept Freedom wrenches
- Kit for power tools
- ATC software
- Interface with VPG+ (visual production guide)
- Flexible configuration of the receivers position to suit the working area
- Auto-learning of the working position for system configuration

Benefits

- Operator guidance
- Industry 4.0 compliance: Integration with SCS Concept and customer software systems
- Error proof assembly procedure with VPG+

Technical Data

- Spatial resolution: 1 cm
- Range: 10 m
- Maximum receivers number: 16



X, Y, Z



The **3D coordinates** of the tool are used by **ATC** or **VPG+** software to locate the tool and guide the operator in the correct assembly operation.



Positioning System with SCS Concept wrenches

- Transmitter is connected with the wrench electronic board, and communicates directly to **VPG+** or **ATC** software.
- **VPG+** and **ATC** takes actions based from the wrench position on the assembly station.
- If the wrench cradle is also a working position, when the operator put the wrench on it the software can recognize the end cycle.



MiWi system for power tools

- Transmitter mounted on the tool, from which it takes the power supply
- Transmitter communicates to the system via **WiFi**
- The positioning system provides the spatial coordinated to the SCS software or to the customer system, which can take actions based from the tool position

