



INTRANAV Smart-Tool-Tracking (STT)

Precise 3D Localization for Traceability and Error Prevention in Manual Screwing Processes with Tools.

With the INTRANAV module Smart Tool Tracking (STT) we enable precise real-time location of electrically, hydraulically and pneumatically hand-guided tools in assembly processes. The integrative solution allows you to digitally record bolting processes as well as block electric tools (auto-blocking) if they are not used at the correct installation point.

The layout map can be used to set virtual zones and clearances as needed, for example, to monitor and log bolting operations. In addition, the Smart-Tool-Tracking can be connected to tool controls to enable real-time intervention. You always get the current position and attitude (orientation / tilt angle) of the tool.

Overview of Features:

- ✔ Precise 2D & 3D location with $\pm 10\text{cm}$ accuracy
- ✔ Orientation and position angle information (R-P-Y)
- ✔ Historical logging
- ✔ Evaluation and statistics on an appealing dashboard
- ✔ Freely definable virtual zones (geofences)
- ✔ Blocking and release of tools depending on position
- ✔ Transmission of sensor data
- ✔ Easy integration with higher-level systems
- ✔ Compatible with all common systems



2D/3D Location & Navigation
($\pm 10\text{cm}$ Accuracy)



Evaluation & optimization



Geofence zones triggered alarm events



Intelligent tools

Overview of Internal Movements of Resources

The Software for Your Tool Management

Keep a permanent overview of the stock of tools and additionally control the entry of prohibited zones. Optimal use and distribution of capacity enables you to significantly increase productivity. Other benefits of real-time localization include theft protection and avoidance of accidental removal of tools in inappropriate locations.

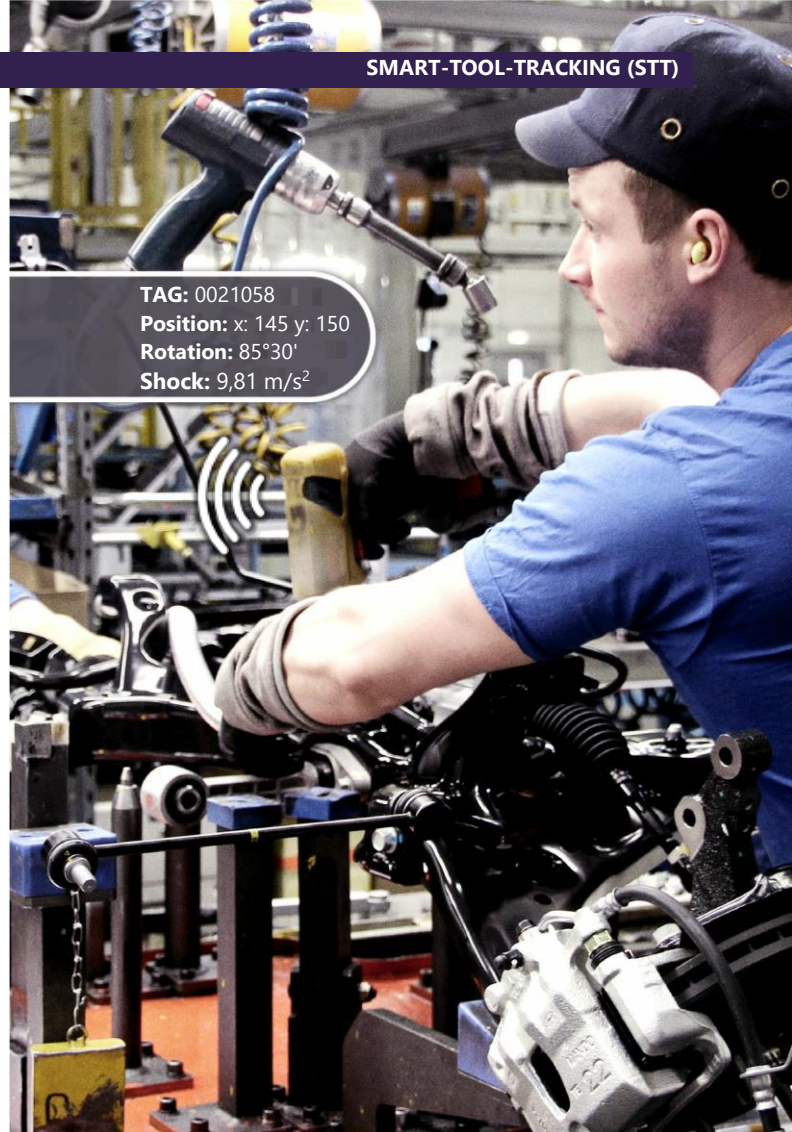
Application examples

Assembly Line Production

In production on the assembly line, it can easily happen due to carelessness that abandoned tools cause significant delays. This can mean long search times up to a complete production standstill. Prevent this with STT, where you set Geofences and thus be alerted by alarm sounds early.

Aircraft Manufacturing

FOD (Foreign Object Damage) can cause a high level of damage while the manufacturing of an aircraft. Therefore, our customer in the aviation sector already uses the **INTRANAV** STT module in their production of a military transport aircraft. The abandonment of objects within the aircraft is thereby excluded. The overview of all tools can be tracked on a dashboard in real time. In addition, the module is equipped with a warning system, which generates alarm signals early on.



Clients



Your benefits

- + Avoidance of FOD (foreign object damage)
- + Increase productivity & increase efficiency
- + Full transparency about your tools
- + Optimization of tool- and material-planning
- + Find your tools and equipment quickly
- + Elimination of theft risk
- + Increasing the life of the tool
- + Scheduling for tools

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