



Wunstorf (visitable at short notice)

TRACKING SYSTEM FOR SME PRODUCTION

Application for the manufacturing industry - avoidance of searches and better management of scarce resources

SUMMARY

Scarce production resources such as fixtures are given a tracking system to minimize searches. In addition, the system receives a booking function to support simple management of resources.

CURRENT SITUATION

In small and medium-sized enterprises (SMEs), there is often only a limited amount of those resources required for production (e.g. fixtures). Often cost constraints mean that it is up to production employees to obtain all of the required resources. This leads to a situation in which such resources are not organized and stored centrally. Conflicting aims arise regarding their utilization and laborious searches precede their use. This results in non-value-creating activities that place an SME under additional economic pressure.

PROJECT DESCRIPTION

In this project, a tracking system is being developed to enable or greatly simplify the localization and booking of production resources. The system does away with unnecessary searches and boosts productivity. Within the project, great importance is being placed on the usability of the tracking system in metal processing companies, where conventional systems are often stretched to the limit. In combination with a booking platform, the system allows straightforward management of scarce production resources.

INDUSTRIE 4.0 – FEATURES

An application-friendly tracking system that enables the localization of objects within a building. The display takes the form of a virtual production layout. Connection to production systems such as MES and ERP is possible.



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SOLUTION

The solution developed in the project has the following benefits:

- Fast localization of production resources
- In-house tracking system with optimum range
- Use possible under difficult ambient conditions
- Individually configurable system
- Designed for production needs in SMEs
- Cost savings in comparison to current solutions

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STANDARDIZATION APPROACHES

Susceptibility to faults during operation and the reliability of location data are part of standardization in various committees. Interoperability with production systems and exchange of information with semantic models is desirable. However, this is currently not standardized and therefore involves investment risks for SMEs.