

TOOL DATA TRANSMISSION



Diploma thesis

The STIWA Group is a leading specialist in the field of product and high-performance automation. Its three strategic business fields are Automation, Manufacturing and Software. The family-owned company based in Attnang-Puchheim employs around 2,500 people in four countries and achieved a turnover of around 340 million euros in the 2022/2023 financial year.

Motivation

STIWA Austria manufactures approximately 50 million milling and turning parts, from individual components/small series to large-scale and mass production. The machine park includes about 100 CNC processing machines which are operated with approximately 10,000 different tools. Tools as well as offset data must be available on the machines during setup. This big quantity of offset data must be transferred to the machines in a manageable, organized and reliable manner.

Tasks

- Research work for:
 - Which technologies are available (Balluf, datamatrix, RFID, Excel, etc.)
 - Advantages/disadvantages of the technologies, availability, costs/risks, scalability, benefits, data safety/data quality
- At what company size/number of spindles/number of tool inserts is which technology profitable?

Objectives

- Evaluation and presentation of a solution for subsequent changeover of the entire machinery
- System proposal for new installation of a new manufacturing site (new building onto the green field)
- Worldwide operation in the STIWA Group Business area Manufacturing



PLEASE CONTACT US

Send your complete application documents to:

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