

Introduction - Digital Twin

Intro to Digital Twin DBR77

The Digital Twin DBR77 is a virtual replica of all elements within the production environment (people, machines, robots, etc.) designed for data management, visualization, simulation, and optimization of all operational processes using AI algorithms.

This innovative tool reduces downtime and enhances resource efficiency by identifying potential issues early and testing solutions first within the virtual environment.

<https://www.youtube.com/embed/TIL8wG8vnbA>

Implementing the Digital Twin in a production facility or logistics process offers measurable advantages:

- **Rapid Design** – Precise replication of real processes from workstations to production lines, or even entire plants.
- **Efficient Prototyping** – The ability to visualize and simulate based on historical data, without making changes to the physical process.
- **Increased Process Efficiency** – Virtual simulation enables the selection of optimal workflows, production lines, or entire operations and optimizes business processes with AI algorithms.

Types of Digital Twins by DBR77

Production workstation

Production line

Warehouse

Internal intralogistics

Operator work

Entire plant

Types of AI Algorithms by DBR77

Production scheduling

OEE optimization at the workstation

MPS - Mid-term production plan

Assigning workers to workstations

Material management on the production line

Optimization of transport paths

We prioritize the security and data privacy of our users, providing advanced protection mechanisms and compliance with the latest standards. We also offer technical support and training to ensure our users can fully leverage the platform's potential.

Looking to the future, we plan continuous updates and development of our platform to provide even more advanced and market-driven solutions.

Join us at DBR77.com and discover how we can shape the future of industry together.

Revision #4

Created 5 November 2024 07:45:18 by Paweł

Updated 20 November 2024 09:17:57 by Paweł