INDUSTRIA 4.0

https://www.youtube.com/watch?v=fzo11BzK4LQ

Motivation

Industry 4.0 offers almost unlimited possibilities in the field of machine-to-machine connection and integration into production systems, including a high degree of automation for comprehensive control and quality monitoring of the production process.

Our goal is to offer an extension of the classic machine control system with functions that offer many special features.

Description

We named the extension of control system as TOS control. It is a set of applications and functions for advanced machine management.

For easy and intuitive operation, the system consists of a default screen with icons for each application (similar to mobile device operating systems).

The applications are clearly displayed on the machine's control panel and the operator can switch between them easily. The solution also includes, among other things, user account management.

Benefits

- The standard part of the equipment is a DNC module, which enables communication of the machine with a PC
- Clear system for controlling the extension of control system of the machine
- Simple operation and information always on the control system screen
- Comprehensive overview of machine activity and status
- Ensured safety through the use of user authorization
- Functions for connecting the machine to the ERP using the OPC-UA communication interface