



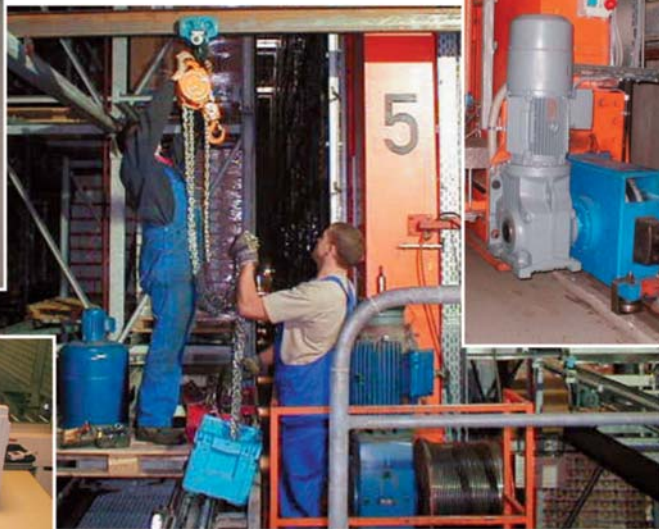
milupa

Modernisation of a high rack warehouse. Renewal of the control system- and drive technology. MILUPA GmbH & Co. KG · Friedrichsdorf

control cabinet



visualisation with remote maintenance



exchange hoist motor and gear

new carriage motor with gear



Task

The company Milupa in Friedrichsdorf has a 6-lane high rack warehouse with the corresponding conveyor technique for the input and output of euro-pallets, which is operated by the logistic-service provider DANZAS.

- exchange from the existing gateway DEC 300 against a SPS system control as data concentrator
- renewal of the IPC-control of the conveyor plant against a SPS-control
- renewal of the IPC-control of the 6 RBG's by 6 new SPS-controls with modern drive- and control engineering.
- renewal of the drives and gears for the 6 RBG's.
- application of a PC-plant visualisation for an improvement of the plant availability.
- Application of a remote transmission of data's for purposes of service and maintenance.

Due to the high utilisation of production of the total plants the company Aberle Steuerungstechnik GmbH has obligated itself to limit the hold-up time at most 104 hours, i. e. this period was available for the conversion

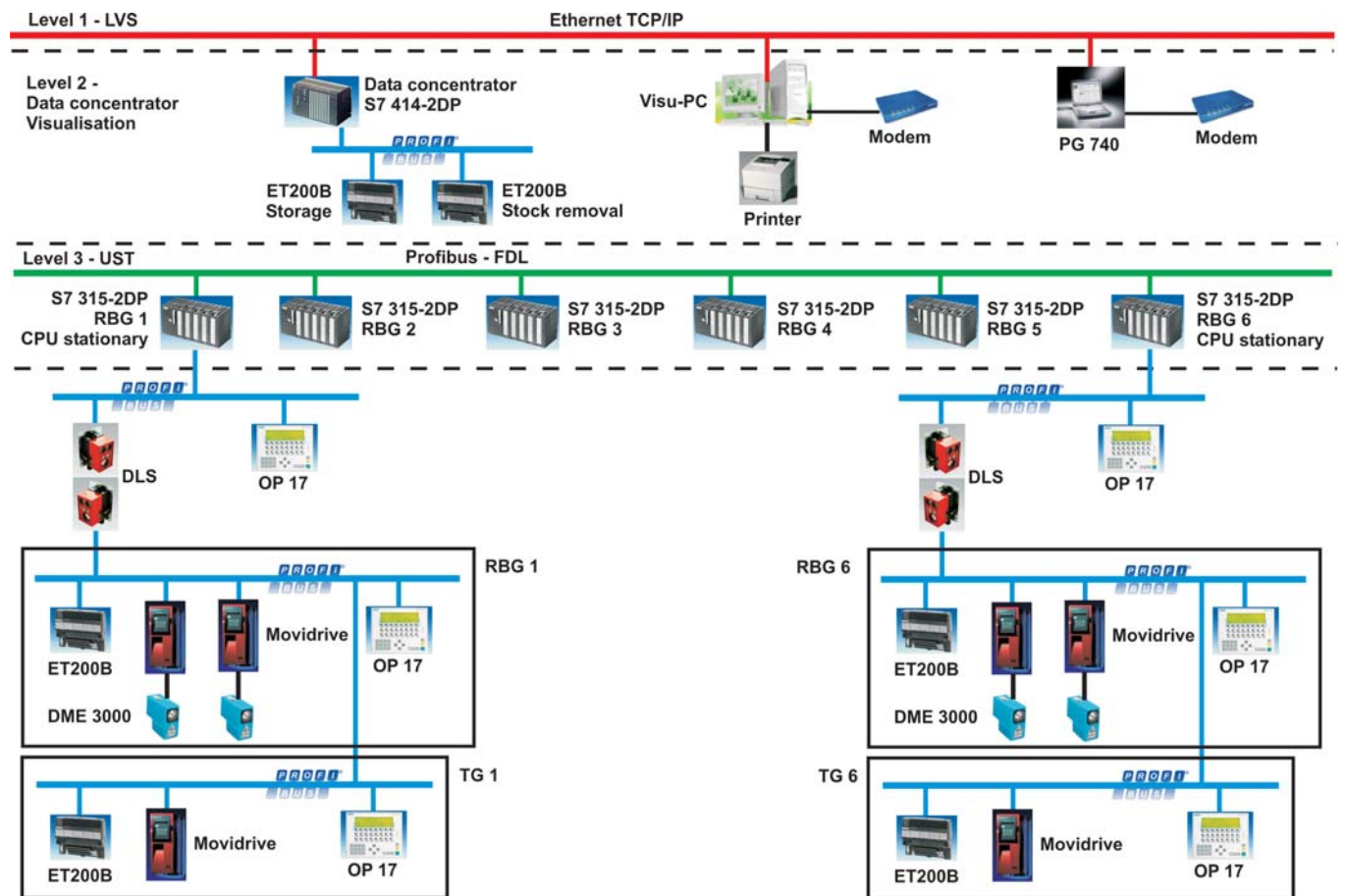
of the RBG's 2-6 as well as the conveyor engineering inclusive the particular start-up. The company Aberle Steuerungstechnik GmbH has been commissioned as a direct contractor with the supply, programming and start-up of the total control system as well as the required replacements for the conveyor technique of pallets and 6 RBG's on site.

Integrated components

For communication between storage management computer, data concentrator and visualisation-PC has been used the existing LAN-ETHERNET/protocol TCP/IP.

As data concentrator has been utilised a Siemens S7-416-2DP with Profibus-DP activation for local control of the conveyor technique. The networking of the 6 RBG-controls to the data concentrator effected over a Profibus-FDL. For the 6 RBG-controls have been utilised a static SPS S7-315-2 DP which is communicated over a data photoelectric barrier with the on board RBG-control cabinet. Furthermore has been transmitted a new concept of manual handling via pluggable Siemens Operator-Panels OP 17 on the RBG-controls.

System configuration



new optical data transfer-profibus and new laser distance measurement to the positioning



new RBG control stand

Solution

Due to a tight planned and organised conversion concept of the company Aberle Steuerungstechnik GmbH in connection with the companies MILUPA and DANZAS it was possible to realise a very close period of time. On 2 shifts operations have been converted parallel the mechanics and electrical engineering.

Advantages for the customers

Due to the utilised components the company MILUPA has a plant today which is provided with updated drive- and control engineering. The new visualisation unit on point I as well as the pluggable Operator-Panels OP17 give everytime an information about the current plant situation. Because the Aberle Steuerungstechnik GmbH appeared as a main contractor thus the company MILUPA had not has any problems with the interfaces during the critical time of the conversion. For the customers were always clear selected and competent contact persons available.



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