

Neo System Tec GmbH

Automation from one source

- Electrical Design
- Control Cabinet Construction
- Cabling
- PLC Programming
- Process Visualisation
- PC Programming
- Start-up
- Applications



About Us

The Neo system Tec GmbH was founded 2003 in order to bundle the experience of many years in the fields of engineering, retrofitting and new development of plants. Our partners in the mechanical engineering and the manufacturing trade thereby profit of the developed synergies.

The Neo System Tec GmbH originates from the designing, controlling and regulating textile plants, which work on continuous materials. To supplement these plants, mixing and dosing technology was a part of our portfolio from the beginning.

The Neo System Tec GmbH developed on these experiences and expanded successfully into the fields of coating and converting of technical textiles, foils and paper.

Our range of services extends from the construction and production of the required control cabinets to the programming of all stored program control systems used on the market, such as Siemens S5, S7, Allen Bradley, Möller, Telemecanique, ABB, etc., to visualisation by use of WinCC or Intouch.

In order to offer to the customer full control of the production flows, the Neo System Tec GmbH developed the modular system Process Control Management PCM.

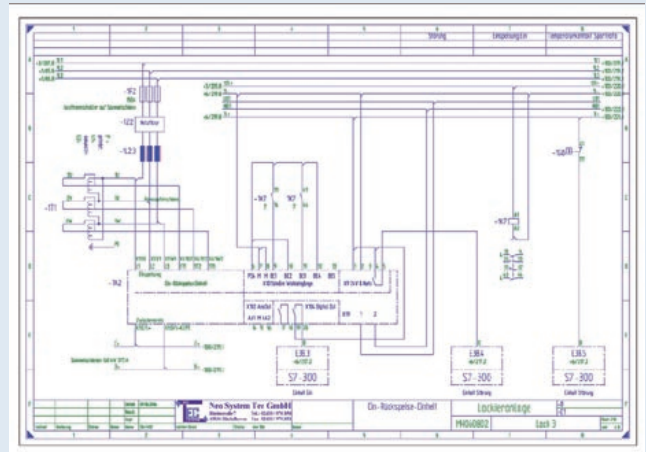
Under the umbrella of the PCM, depending upon configuration level, the coordinated components to be found are automation, visualization, recipe and order management as well as the plant data collection. Thus the Neo System Tec GmbH implements the complete controlling of your plant, including a connection to a MES (Manufacturing Execution System) or a ERP (Enterprise resource Planning).

When it is about the appropriate automation of your plant you have come to the right place. At the Neo System Tec GmbH engineers, process engineers, plant engineers and electrical engineers work closely under one roof together. The team of the Neo System Tec GmbH keeps from the circuit diagram development over the switch cabinet construction up to the commissioning everything firmly in hand. Short information paths save thereby time and money.

Electrical Design

Based on customer documents, the necessary information for the preparation of circuit, cable and terminal diagrams via a CAD (EPLAN) is determined. Neo System Tec's own standard of tried and tested components is the basis for a solid construction. If requested, the customer's own works standards will also of course be taken into account.

Following system installation and start-up, the customer will receive updated documents, enabling simple maintenance and repair.



Control Cabinet Construction

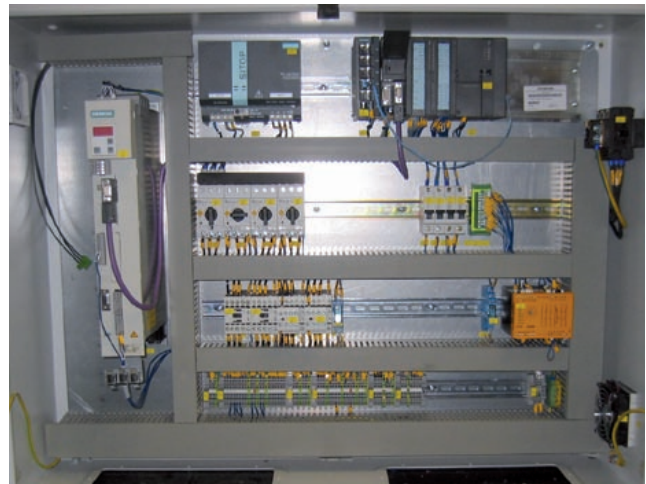
In accordance with the diagrams we prepared, the necessary control cabinets, terminal boxes and control panels will be constructed. Before they are delivered, all components will first be checked at our facility. E/A tests and function tests will also be carried out if this is possible.

Cabling

Generally, field cabling (cabling between the control cabinet and the individual devices) and feed-in will be carried out by installation firms local to the customer.

We will prepare the documents necessary to carry out a invitation for and acceptance of bids and we will gladly provide you with advice.

If desired, we will also take on the entire task of field cabling as a general contractor.



PLC Programming

Sequencing is accomplished with Simatic STEP-7 on the current control systems S7-200, S7-300 and S7-400 or on PC-based systems by Beckhoff (confirming to Soft-PLC-IEC61131).

Due to our many years' experience, we are also familiar with Step-5 controls and can also provide sensible solutions for equipping systems with S7. We can test all systems in-house with the help of simulators.

It is thus possible to review the entire control system in the run-up to commissioning and to test all processes, its operation and its reaction to malfunctions. If you as the customer desire it, it is possible to test-drive your system at our site.

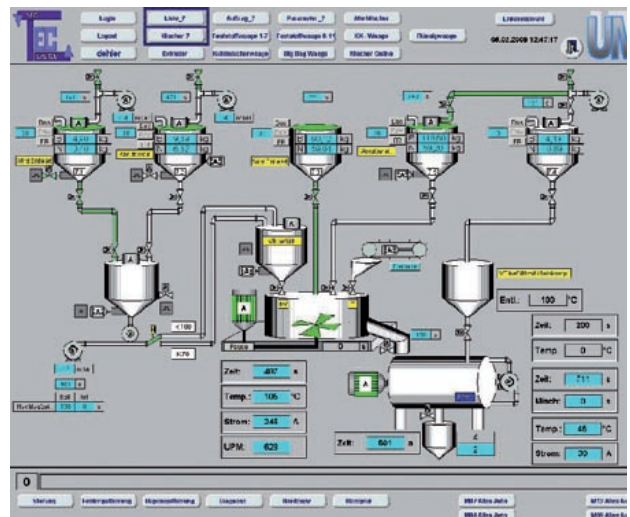


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Process Visualisation

Process visualisation has gained in significance over the last couple of years. The entire operation of a system is conducted with a mouse, keyboard and one or several monitors. Fault reports, help texts and images of measured values can be achieved simply and clearly. We work with various systems, ranging from Protool-Pro for on-site operator units to WinCC with client/server architectures for complex guidance systems.

We have developed solutions and modules for many applications. This provides the advantage that the customer receives secure and valid software which is nevertheless tailored to the customer's individual needs. We work with current versions from market leaders in this area.

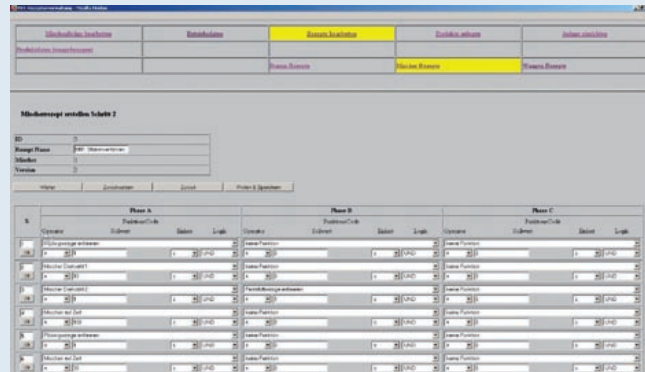


PC Programming

In order to be able to implement an individually tailored formula management or monitoring of production orders, an individual PC program generally has to be created.

With standard products such as MySQL, Visual Basic, PHP and Apache, we are able to solve practically any problem. We endeavour to implement solutions by simple means in order to keep costs down and to develop further upgrading easily.

Data can be exchanged with higher-level systems. This way a formulation from an SAP system can be taken on and a batch report can be messaged back.



A barcode scanner for reading a batch number can be integrated or several scales or a manual weighing area can be integrated into the formula management system.

Start-up

Starting up our systems is carried out by experienced assembly operators, electrical technicians and/or engineers. Until the system is handed over to the customer, a series of tasks need to be completed:

- Approval/review of field cabling
- Tests on inputs and outputs
- Synchronisation of analogue values
- Test run of drives with examination of direction of rotation
- Trial run without product
- Successive production starts
- Trial operation
- Instruction of operating staff

Applications

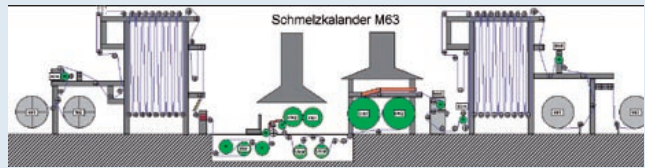
This plastic coating system was completely overhauled by us electrically.

The drive technology and PLC control system were fully replaced, where the drive engineering mixture of servo and DC drive were equipped with new hardware and software. A new drive concept was also implemented. All control technology tasks are carried out by S7 software. Furthermore, a new visualisation was installed with WinCC as a multi-monitor solution.

A networked service PC in an air-conditioned control cabinet room provides maintenance and recipe management via Access. With these measures, a higher level of production speed has now been achieved, which means that this conversion has paid off within a short period of time.

More information on the company Neo System Tec can be found on the internet at

www.nstgmbh.com



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