Visual Z Series
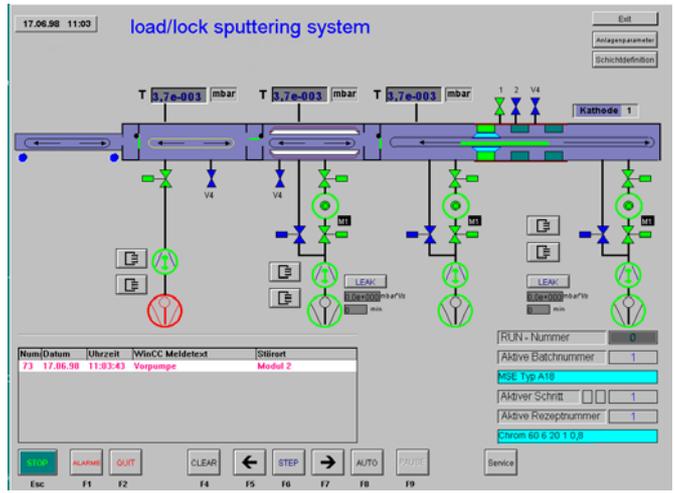

Plant visualisation with WinCC

WinCC is a state of the art HMI product
The ability of the system, to be programmed in "C" and its build-in flexibility let us be able to generate a great variety of specific solutions in respect of vacuum and thin film processes.

Cause the system operates on WinXP or Win 2k , most of the users can operate our solution without additional aducation.
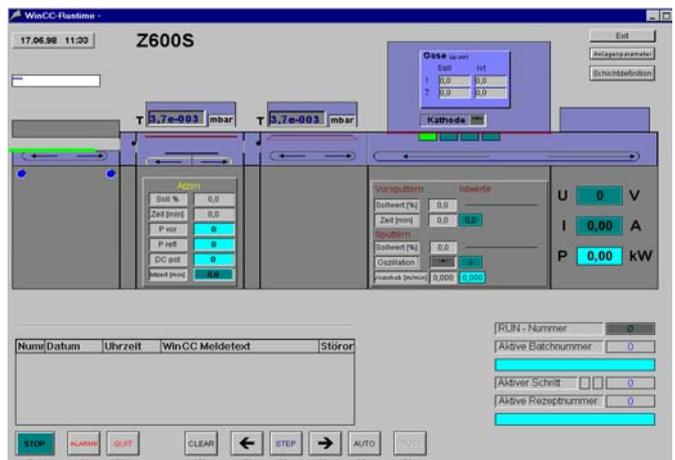
The basic operations are well known from Win, the plant specific operation are selft explaining.

This product supports network-computing as well as data transfer into other Windows applications like EXCEL. Siemens WinCC in addition with Siemens PLC is an powerful tool to solve all needs of thin film deposition.

Graphics

WinCC is a 100% Windows Application, which means, that the well known look and feel of Windows is realised in the plants pictures. We design our plant-pictures as real as possible. All the functionality of Windows is waiting in the back to help the operator. All the peripherals, supported by Windows, can be used (barcode reader, Printer etc).

System design

System contents:

Pentium PC with 17" or 19" TFT monitor
The PC is a stand alone desktop system or build in a cabinet (19" industrial version) to take care about the specials in a clean-room area.

This PC communicate with the PLC via high speed serial interface, called MPI or for more performance PROFIBUS.

In case of modifying an older plant, existing PLC (p.e. Siemens S5) can be connected to the visualisation system, in case of a complete revision of the plant, the existing controller is replaced by a Siemens S7 PLC

Siemens, as a world wide operating manufacturer of PLC's guarantees a high reliable support of spare parts.

The primary plant safety, as not build in by hardware, is controlled by the PLC, because the plc is specially designed for industrial environment.

To realize a full automatic deposition, a database is filled with process parameters. Our recipe management system is designed as an addon and gibe it a windows look and feel.

All the needs of thin film deposition are mentioned in this database.

The database is organized in recipes, which contains the process parameters for one layer and in Jobs which contains the several recipes.

There are special functions implemented for service and maintenance.
A build in password-system takes care about the operating levels (operator, system engineer, maintenance etc.)
Customisation is our pleasure.

Standard applications

List of modified plant-types:

Leybold

Z401, Z5x, Z600 load-lock oder inline

ZV6000, ZV1200, ZV350, ZV800

Balzer

Ba510, LLS8x, BAK, BAH

Alcatel

For further information please have a look at

www.ibb-automation.com