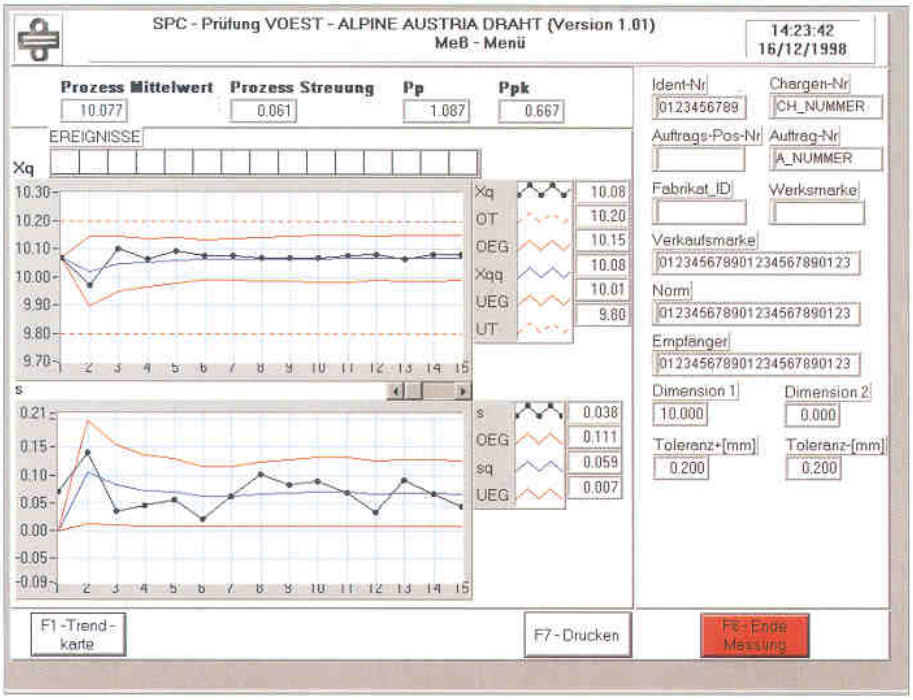
QS-LINE - Die neue Generation in der Meßtechnik für die Kabel-, Draht und Faserproduktion

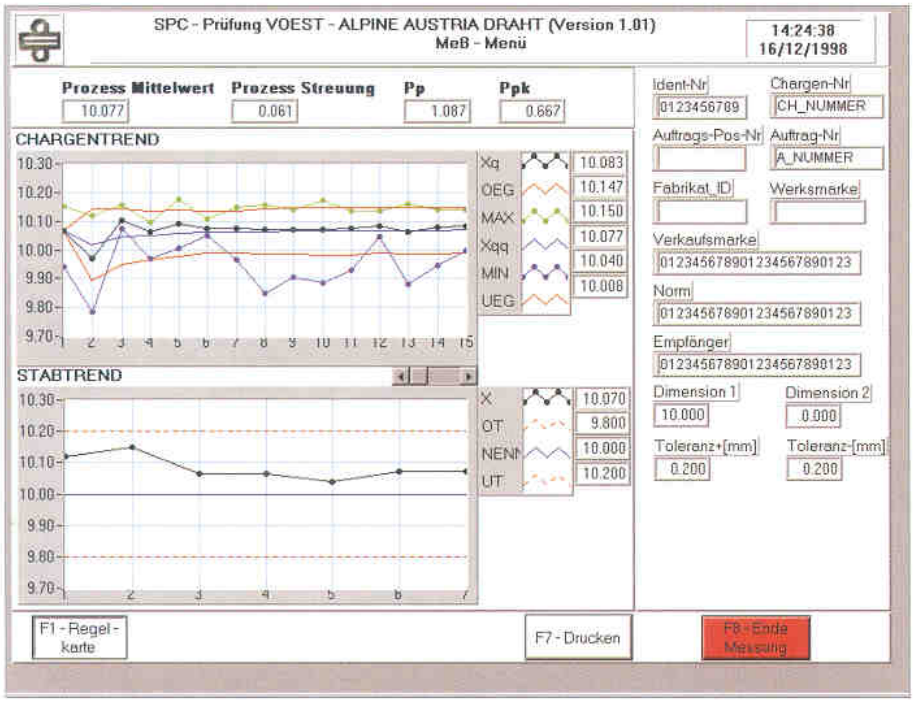
BRUNO RICHTER
MESS-SYSTEME

QS-LINE Statistic Process Control SPC

QS-Line - Statistische Prozeßkontrolle SPC

The ***QS-Line* SPC** is of use in controlling processes and for improving process capability. It is a substantial support to quality assurance.





The *QS-Line SPC* corresponds to ISO 9000 QS-standard. The structure of the *QS-Line SPC* is designed for easy adaption to the customer's specific requirements.
The *SPC* can be used for **batch** manufacturing as well as for **continuous** production.

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Um genau zu sein

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The **QS-Line SPC Program** is shown on the example of rod fabrication in a steel mill.

The program works in on-line mode (measuring data directly from laser diameter) as well as in off-line mode (input of events, visualization of histogram data).

The measuring computer gets the main data, head data, head lines at the beginning of a production order. The input is either done by an interface RS 232 or by a network connection. Then all the rods of the batch are measured. Each rod is measured 7 times; these values are combined in a random sample.

By this random sample value the mean-value and the standard deviation are calculated and shown on the process control card.

Alternatively, the values of the random samples can be shown as a card with indication of mean-, max- and min-values of the random sample. The individual values of the random sample are stored in a file with the corresponding I. D. number for later evaluation. The data of random samples can additionally be stored in „ORACLE" via a SQL-interface.

The input of the new main data ends the previous production order. Any changes made during production process are stored in the system.

In case of a continuous production process, the samples are taken by corresponding time and length intervals.

Efficiency Features:

- ISO QS 9000
- compatible with Windows 95 and Windows NT

Interfaces:

- input of measuring specs. and data
- output via serial interface or network connection
- data storage in QS-Stat format as well as by SQL data interface

Screen displays:

- process control card with process analysis (Cpk..)
- visualization of trends:
  - sample trend
  - batch trend

  respectively running time and length of of continuous process

Hardware (minimum configuration):

- computer for Windows NT
- 64 MB RAM, 1 MB VGA, harddrive > 1 GB
- floppy disk 3,5" and CD ROM
- 2 serial interfaces and 1 parallel interface

Technical modifications reserved

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