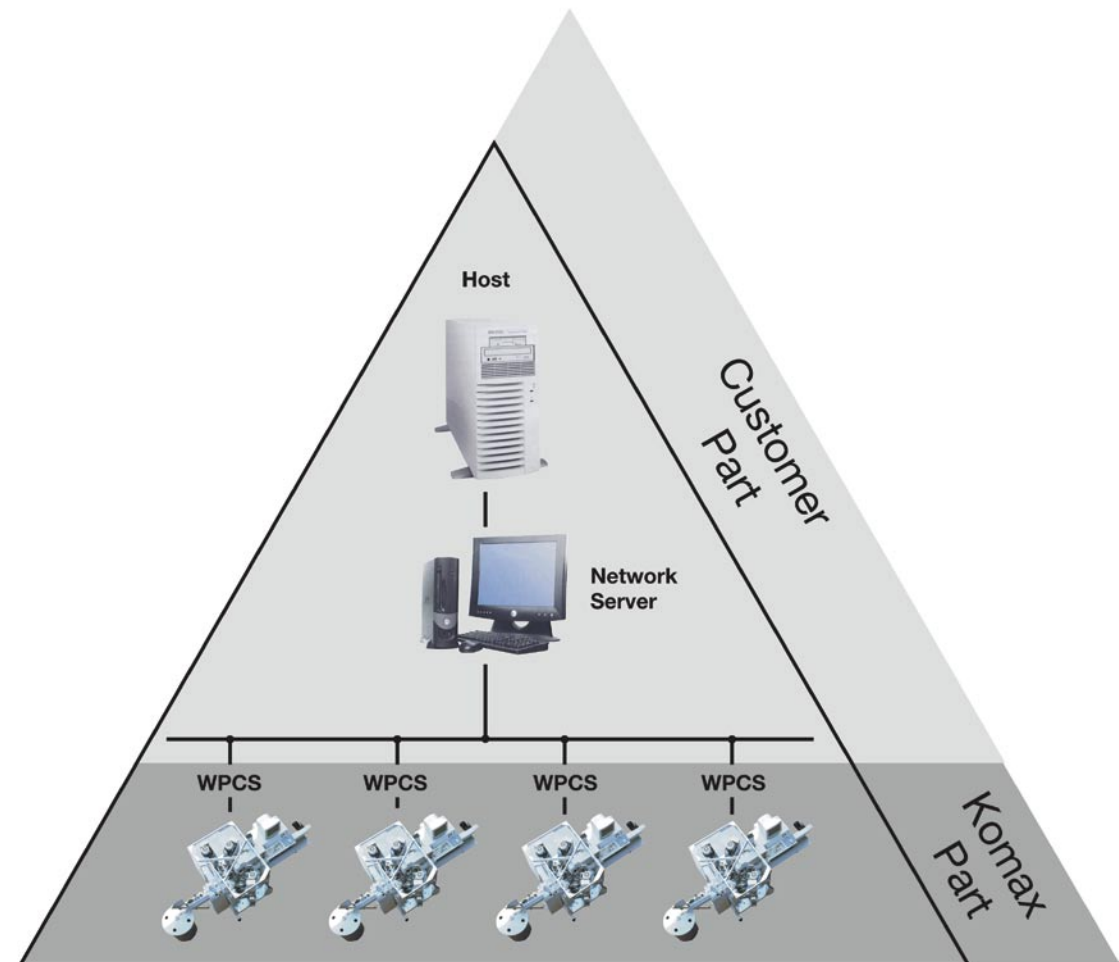
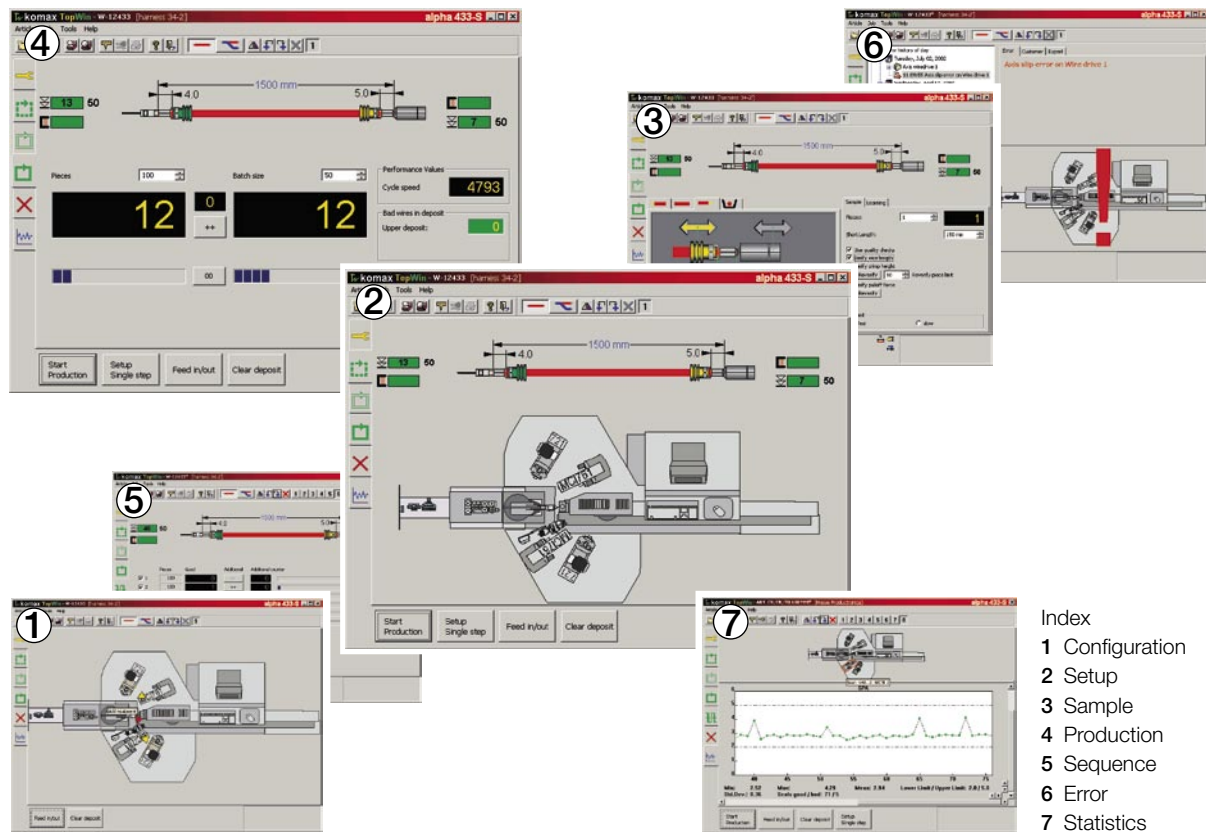
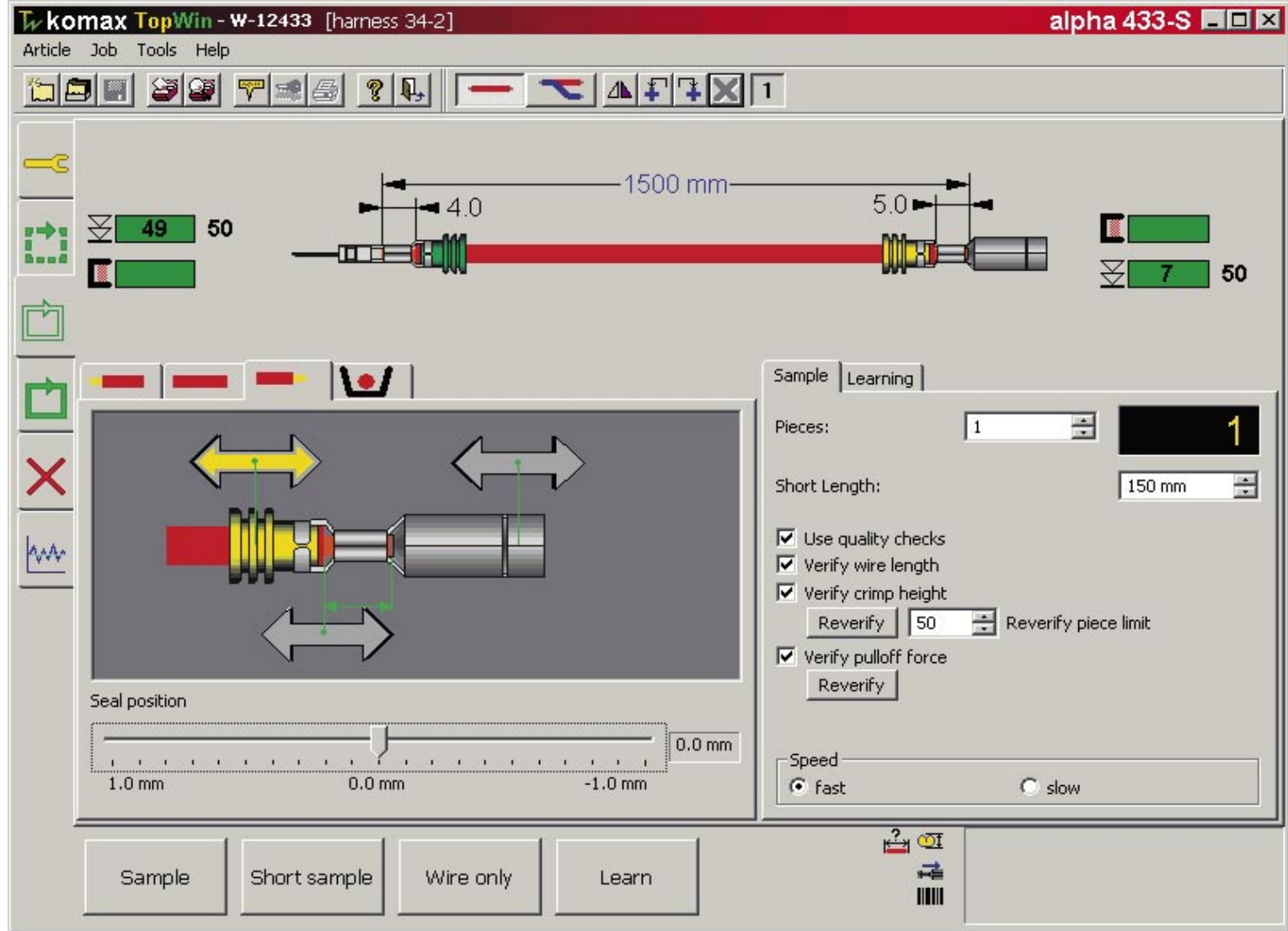




Networked thinking TopWin/WPCS/TopNet/TopConvert

Maximum user convenience, flexible interfaces, clearly arranged management and the integration of already existing data into a new overall system – Software solutions for fully automatic crimping machines have to meet much tougher requirements than ever before. Komax has taken up the challenge and implemented these ideas with great consistency. Ultimately, the key to success is the ability to work flexibly and efficiently.

TopWin

TopWin combines maximum user convenience and data security with intelligent data linking and presentations that are true to the original. It is run under Windows® and is the user interface for all PC-controlled fully automatic Komax crimping machines.

Convenient setup

With TopWin, new articles can be set up quickly and easily. And thanks to the intelligent linking of data, only a small number of entries are required. For example, the stripping length is

linked to the terminal so that this saved length value is merely taken over when the same terminal is used in a new processing job.

Quick editing in samples window

The samples window greatly facilitates fast, easy operation. All important settings associated with the setup of an article are quite easy to modify. If the crimping position has to be changed, for example, all the user has to do is shift the position slide. The setup times are dramatically reduced, which, in turn, increases the availability of the machine.

Access rights

A special editor enables operator activity involving all important processing data to be adapted precisely to the operator's own needs. Your system supervisor can use his or her own criteria to determine the extent to which a given operator can intervene in machine functions. The supervisor can also block or hide individual entry fields. This effectively safeguards your production and quality specifications.

Error messages

If an error occurs, an arrow points to the part of the machine causing the error. This feature helps locate errors more quickly, so they can be remedied all the faster.

Networking with WPCS

The optional interface WPCS (Wire Processing Communication Standard) allows Komax machines to be networked under TopWin. With this open interface, the machine is easy to integrate into existing production sequences.

Your benefits

- Ultra simple and modern operation
- Minimal time required for training
- Quick setup of new articles
- Maximum data security
- Changeable access rights safeguard productivity and quality
- Error messages with troubleshooting information
- Can be networked over the WPCS interface

WPCS

WPCS is a flexible interface that allows you to network the fully automatic Komax crimping machines with the greatest of ease.

Function

WPCS (Wire Processing Communication Standard) is a simple and flexible interface for sending production data to the machine and for reading back feedback information. The customer data is generally already saved in the ERP system (Enterprise Resource Planning System). This data must be converted to WPCS format in order to be read and processed by the

fully automatic Komax crimping machines. With this direct approach, the conversion time is dramatically reduced and quality is assured because incorrect entries are eliminated.

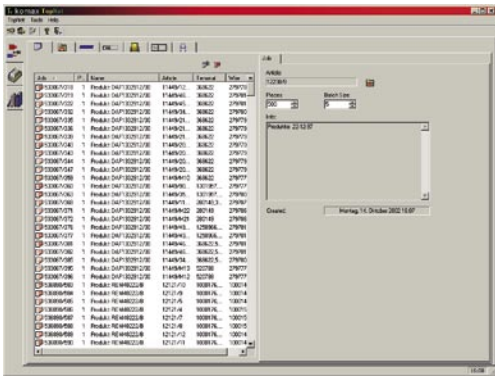
A variety of feedback information is also returned through this same interface. For example, the operator receives feedback on the material consumed, on quality and statistical data, machine errors, job and production status, etc. The data can be written back in simple ASCII format for easy evaluation. The customer can configure the interface as desired to determine what data is exchanged via the interface.

Peripheral conditions

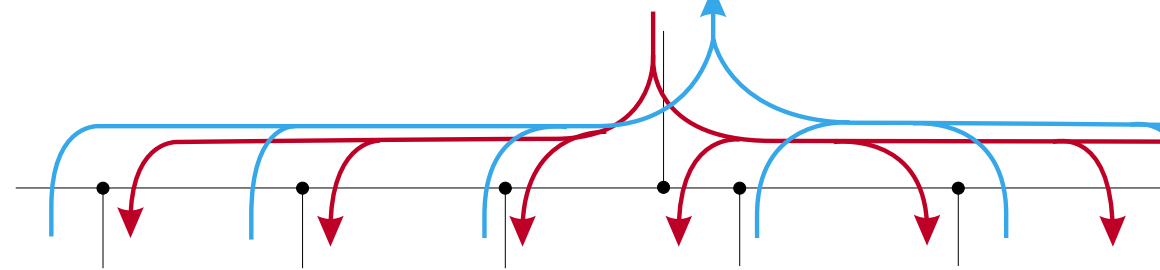
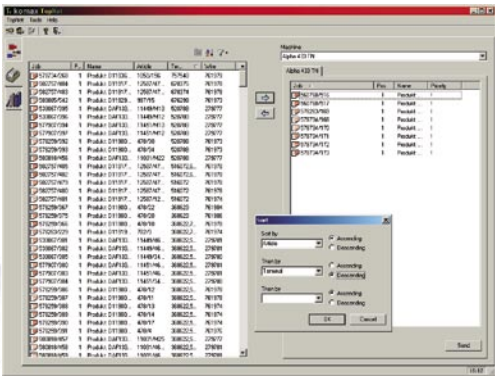
- TopWin must be installed on all fully automatic crimping machines.
- The fully automatic crimping machines must be connected to the customer network.
- Production data must be available in electronic form.

Your benefit

- Machine setup time is reduced.
- The need for job papers is eliminated.
- Incorrect entries at the machine are eliminated.
- The production states are logged.
- Quality is assured thanks to the traceability of the jobs produced.
- Production operations are fully monitored.



TopNet



TopNet

TopNet is a clearly arranged management software with functions for the centralized creation and management of parts, articles and jobs that help you to optimize your production operations. You no longer have to stop the machine to create a job, which means down-times are reduced.

Function

With TopNet, you can create and manage parts and articles on a stand-alone PC. Using filter and sorting functions, you can arrange production jobs beforehand in an optimum sequence for processing. Once optimized, these jobs can be distributed easily among the fully automatic crimping machines.

The articles are created independent of the machines and can be processed on the fully automatic Komax crimping machines in which TopWin is installed. As a result, machine capacity is better utilized and job papers are eliminated. You can also load data into the TopNet software in WPCS format.

Learning to operate TopNet is easy because of its similarity to TopWin. Data such as material consumed, quality and statistical values, measured results and error messages are saved in a backup file according to article and job. This ensures that this data is all in a central archive. All feedback data can be viewed at any-time in TopNet. The entire production operations are as easy as can be to monitor.

Peripheral conditions

- A maximum of 10 machines can be controlled and managed with TopNet.
- All machines must be equipped with TopWin and WPCS.
- To run TopNet, computers have to have the operating system versions Windows NT, Windows 2000 or higher.

Your benefit

- **Central creation and management of parts, articles and jobs**
- **Optimized distribution of jobs**
- **Better utilization of machine capacity**
- **Optimized production thanks to centralized data management**
- **Importation of already existing production data**
- **Elimination of job papers**
- **Ergonomic operation**

TopConvert

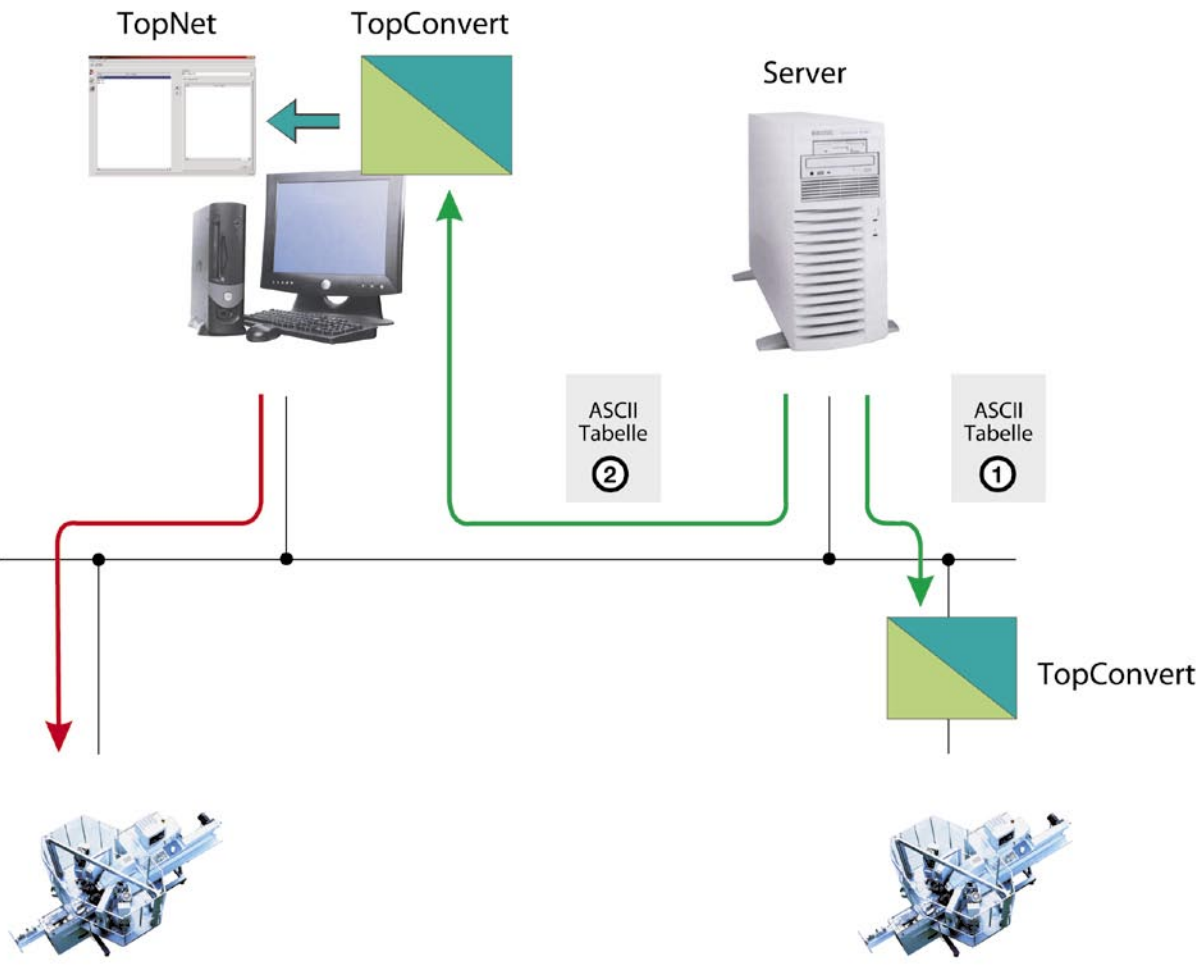
TopConvert can be used to convert already existing job and article lists to WPCS format. This data can then be directly processed by fully automatic crimping machines.

Function

Many jobs already exist in electronic form. TopConvert was developed to enable fully automatic crimping machines to read these job and article lists. The conversion is based on customer data (job and article lists) that exist as Excel tables. Komax creates a customer-specific converter on the basis of these Excel tables. This converter then converts the customer data to WPCS format.

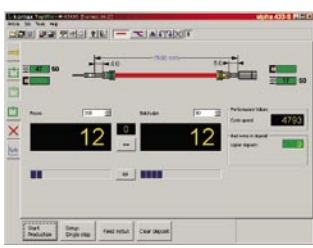
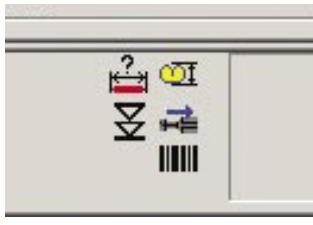
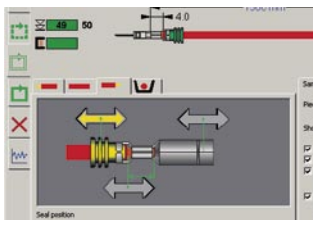
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Professionals in Advanced Automation



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6. TopWin/WPCS/TopNet/TopConvert



Flexible and user friendly
TopWin/WPCS/TopNet/TopConvert

Your benefit

- **Easy conversion of customer data to WPCS format**
- **Quick transfer of data to the machine**
- **No sources of errors during entry on the machine**

Once in this format, the data can be read and processed by fully automatic crimping machines (**Pos. 1**) and can also be imported into the TopNet management software (**Pos. 2**).

Peripheral conditions

- All fully automatic crimping machines must be equipped with TopWin and WPCS.
- Excel table with production data must be saved as an ASCII table (*.csv).
- The definition sheet must be filled out and enclosed with the order. The converter is then created on the basis of the information on this sheet.

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