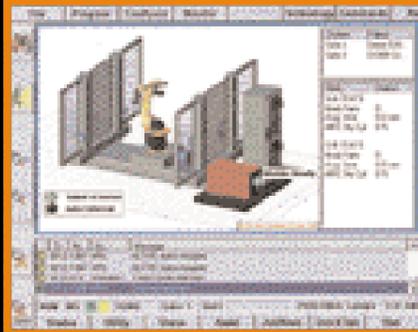
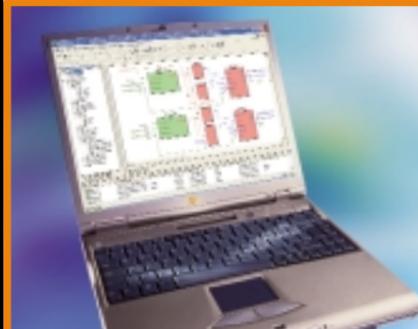


FURTHER KUKA SOFTWARE COMPONENTS FOR YOUR APPLICATION.



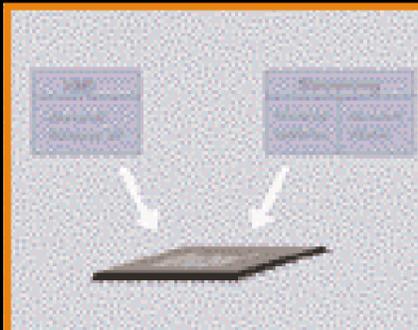
KUKA OPC SERVER

The **KUKA OPC Server** links the manufacturing processes to the PC environment. You have external access to the controller's system and user variables from anywhere in the world. Data are exchanged between the **KUKA OPC Server** and the **OPC client** integrated by the user. This provides you with a simplified means of interfacing automation components from different manufacturers.



KUKA SOFT PLC

KUKA Soft PLC allows you to solve control tasks with a purely software-based PLC integrated into the robot - for direct communication between the PLC and the robot. The robot, cell and production line all run using just one controller. You can use existing hardware components and reduce your engineering work.



KUKA REAL-TIME EXTENSION VxWin AND CeWin

The **KUKA real-time extension** unites the **Windows XP** operating system and a real-time operating system (**Windows CE.NET** or **VxWorks**) on a single PC. The use of **CeWin** or **VxWin** allows you to save hardware costs, reduce the size and weight of your application and, at the same time, increase system reliability without a detrimental effect on the real-time capability.

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Austria, Belgium, Brazil,
China, France, Germany,
Hungary, Italy, Korea,
Malaysia, Mexico, Portugal,
Spain, Sweden, Switzerland,
Taiwan, Thailand, UK, USA

Developing customized user interfaces has never been easier.

HMI Studio



GREATER CONVENIENCE, LOWER COSTS.

You wish to reduce your engineering costs while increasing quality and ease of operation? Then simply create your user interfaces with HMI Studio from KUKA.

The HMI (Human Machine Interface) is usually developed in a programming language such as Visual Basic – even for smaller systems. This conventional method, however, is very expensive, time-consuming and complex. Valuable development resources are thus wasted. With our innovative HMI Studio, on the other hand, you can create customized user interfaces more easily and use them in decentralized systems. With a minimum of effort and tailored precisely to your needs. After all, who knows your requirements better than you?

HMI Studio: A large, user-friendly editor allows you to create complete application interfaces using HMI Studio. You do not even need programming experience. The software is based on OPC and Microsoft technologies. The editor can be freely expanded as required. KUKA HMI Studio gives you the edge – both technologically and economically: the highly user-friendly nature of the software reduces the risk of errors and shortens setup times. Universal automatism, object-oriented encapsulation and nesting, and parameterizability make it possible to use individual program sections more than once.

HMI Studio serves as a tool for the implementation of your machine and system-specific requirements. Despite its complexity, it is easy to use. This is because you can not only monitor your system using the KUKA Control Panel, you can also control it interactively without the need for additional hardware.



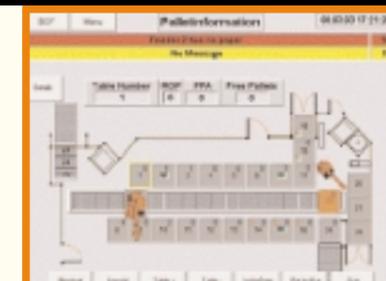
MANY REQUIREMENTS. ONE SOLUTION.

Using our flexible development tools you can rapidly generate ergonomic and reusable user interfaces for a wide variety of applications.



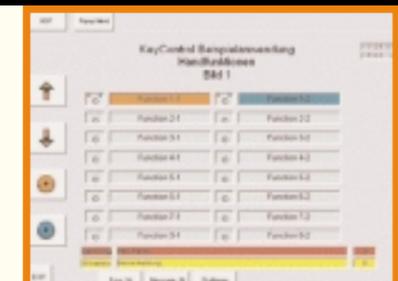
PROCESS CONTROL SYSTEMS

- ▶ Central monitoring and control of complex manufacturing lines and facilities or complex production plants
- ▶ Higher-level monitoring of system status and statistics



CELL VISUALIZATION

- ▶ Decentralized operation of small and medium-sized manufacturing cells
- ▶ Cell control
- ▶ Monitoring of process states
- ▶ Selection of programs, modes and parameters possible



OPERATOR CONTROL

- ▶ Operator control of machine actuators
- ▶ Simple and convenient machine diagnosis

HMI Studio features

- ▶ Development environment for the creation of object-oriented, scalable HMI solutions
- ▶ Runtime versions available with different numbers of variables
- ▶ OPC-based HMI ActiveX Container
- ▶ Integrated Microsoft VBA scripting language
- ▶ Creation of fixed or scalable displays possible
- ▶ Very rapid dynamic animation
- ▶ Rapid development of applications through use of predefined templates
- ▶ Over 2000 3D symbols
- ▶ Aliasing technology allows the generation of reusable components
- ▶ Integrated calculation and printout functions
- ▶ Powerful CAD-style layer technology
- ▶ Display zoom function
- ▶ Wide range of animation options for objects, e.g. color sequences, rotations, translations, change in size, and many more
- ▶ Direct toggling between configuration and runtime mode
- ▶ Supports standard graphics formats, such as WMF, BMP
- ▶ Powerful user and security concept
- ▶ Supports OPC servers, version 1.0 A and higher
- ▶ Operating system: Windows 95/98, Windows NT, Windows NT Embedded, Windows 2000, Windows XP