

KUKA.CAMROB ○ TOP PERFORMANCE IN A WIDE RANGE
OF NEW APPLICATIONS

Automation ensures efficiency; KUKA robots multiply that efficiency. Wherever maximum precision and speed are required. Particularly impressive is the enormous flexibility with which the robots confront all different kinds of tasks and materials. In all applications – from machine tending, handling, transfer, adhesive bonding and deburring to welding, sawing, labeling and measuring – there is plenty of scope for optimization. KUKA robots know the ways and means. With the KUKA.CAMROB system software, for example, and a wide range of associated tools, which are capable today of tackling the tasks of tomorrow.

FLEXIBLE

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KUKA.CAMROB

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COMPLETE ROBOTIC SYSTEMS FOR AUTOMATIC CNC MACHINING

KUKA.CAMROB ○ NEW APPROACHES FOR A SECURE FUTURE

KUKA industrial robots combine maximum machining flexibility with low investment costs. This added value from KUKA, global market leader in the field of robotics, is no longer the exclusive domain of large industrial companies, but now also benefits small and medium-sized industrial companies and workshops. With the KUKA.CAMROB software and the Milling application modules, KUKA is offering the world's first complete system for automatic CNC machining with a robot. The KUKA.CAMROB software automatically generates a robot program based on CNC data. The Milling application modules are used to integrate milling tools and additional components into a complete robotic system as standard products. In this way, KUKA is opening up a whole new range of potential applications with robots for a wide variety of manufacturing processes.

EFFICIENT

KUKA.CAMROB – ALL THE ADVANTAGES AT A GLANCE:

EVERYTHING FROM A SINGLE SOURCE: With the KUKA.CAMROB software and the Milling application modules, KUKA is offering a complete system for quick and easy operation of a robot as a machine tool.

MORE WORKSPACE: The system offers maximum workspace, so even very large work-pieces can be machined.

MORE FUNCTIONALITY: KUKA robots are multifunctional tools. They mill, grind, glue, cut, saw and handle. Furthermore, the system can be adapted quickly, at any time, to changing production processes.

MORE OPTIONS: As standard, the robot carries out machining with a 6-axis configuration. Turntables and linear units enable the integration of additional axes into the machining process.

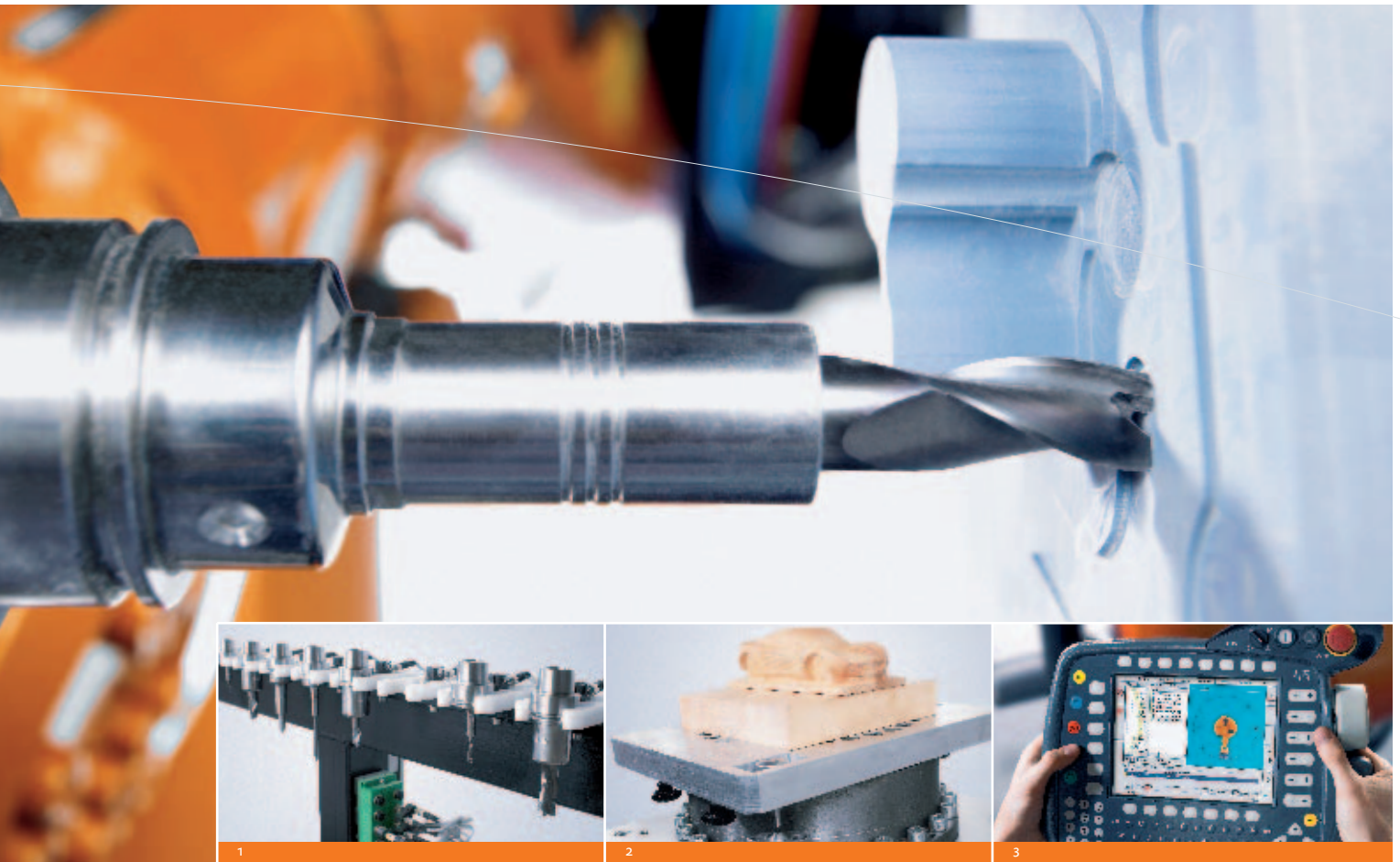
MORE COST-EFFECTIVENESS: 6-axis machining of workpieces reduces investment costs by up to 50 %.

MORE PRECISION: Application-optimized accuracy ensures permanent precision and top quality.

MORE SPEED: Compared with machine-assisted or manual machining, KUKA.CAMROB achieves significantly higher process speeds.

MORE QUALITY: Robots, tools and software are optimally coordinated, thus a constant quality is guaranteed.

MORE SERVICE: With the highest-density service network and extremely fast response times, KUKA offers an unrivaled level of service.



SCOPE OF SUPPLY

A complete package is not complete until it is optimally adapted to the specific requirements. For this reason, KUKA only offers packages with application-specific components and tools. The Milling application modules, for example, comprise:

- 6-axis KUKA robot
- Windows™-based KUKA control technology
- KUKA.CAMROB application software
- HSC milling spindle
- Frequency converter and spindle controller

- Spindle cooling
- Special energy supply system
- Soft-PLC
- Ethernet connection for communication with KUKA.CAMROB
- Variable digital I/O's

OPTIONS

Applications can be easily expanded at any time to include tool changing systems, extraction systems and turntables or linear units.

1 TOOL CHANGER

The optional tool changer allows the fully automated execution of different machining stages.

2 TURNTABLE

Workspaces can also be expanded by means of turntables or linear units in order to be able to machine even very large workpieces.

3 SIMPLE OPERATOR CONTROL

The user interface conforms to Windows™ standards and is thus highly intuitive to operate. This means that the systems can be put into operation and adapted to new requirements or tasks with a minimum of training.

TOP PICTURE: HSC MILLING SPINDLE

Fully-integrated HSC spindles, including spindle controller and supply unit (energy, air, water) for very short start-up times and optimized machining processes. Different spindle types are available for specific machining tasks.

VALUE

3 PROGRAMMING

The robot program is transferred to the robot via Ethernet connection or CD-ROM.

4 FINE TUNING

The program is loaded into the main memory of the KUKA PC controller and can be optimally adapted to the production environment using the KUKA Control Panel.

5 START

The system is now programmed for added value – machining can be started.

