CIMOTEC
Automatisierung GmbH

Offline Programming

Production-free Compilation of robot movement program

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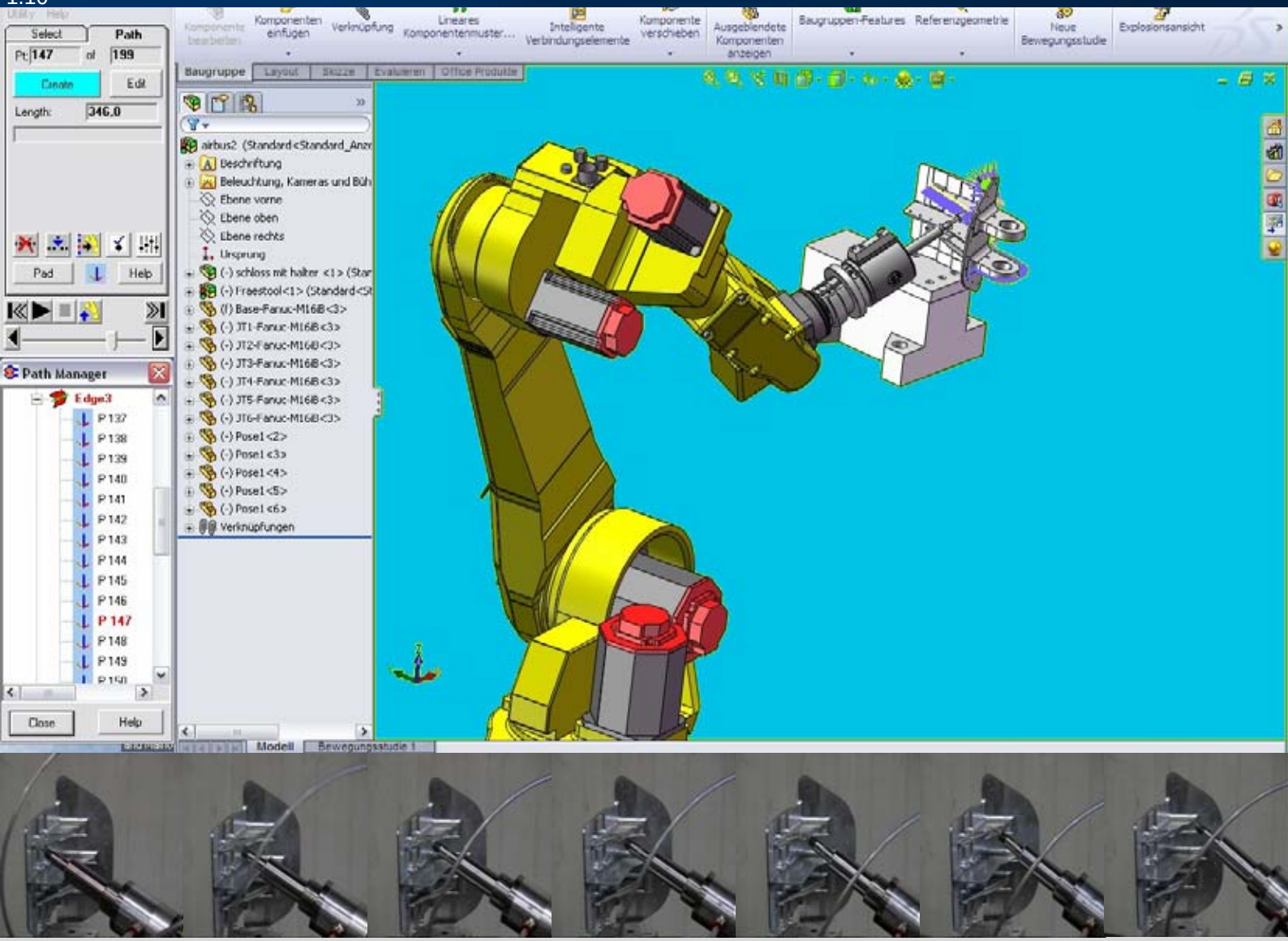


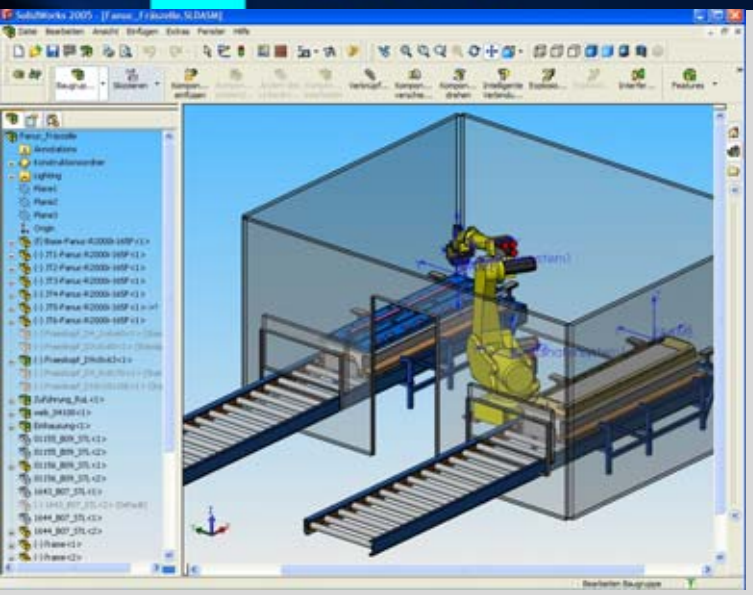
To have the later **process under control** from the 3D construction. This and the fact that the CIMOTEC devices are so very accurately calibrated, that a rebuilding is possible with other robots and/or program exchange among identical devices, are the reasons, why CIMOTEC forces also the offline programming in own premises more and more and makes them accessible to the customer.

The **offline system** in use ensures the ongoing production, as new programs on the PC can be compiled, and the production devices are only required for the optimization and definition of process parameters. A more important point is the correction option of programs compiled once offline and optimized on the robot control, which can be reloaded in the offline system.

In course of requirement, the full production capacity must be designed to the capacity limits, an offline system is the solution, in order to set the production in **cost-effective manner** to a new product and/or optimize available product programs.

Programs for **many robot controls**, such as FANUC, ABB, KUKA, Stäubli; Reis, Kawasaki and others, can be compiled with the system and can be read back again.

Highest reliability, highest servicing-friendliness and thus also the **highest plant availability and operating efficiency** are present on the top rung in all solutions and products of CIMOTEC.



Based on **CAD Data** of plant constructions and the products to be machined, such as here in milling of sections in GRP/ SMC work pieces, the **movement programs** for the robot are compiled.

The CAD presentation of robotic devices can be aligned with the real devices over collective **reference positions**.

The conversion on the real robot cell requires, according to required **accuracy**, adjusted calibration of robot, tool and periphery.

Similarly the positioning of the work piece supports in operating position and the work piece in the chuck is accordingly carried out with **repeat accuracy** in order to guarantee **reproducibility** of once achieved good results.
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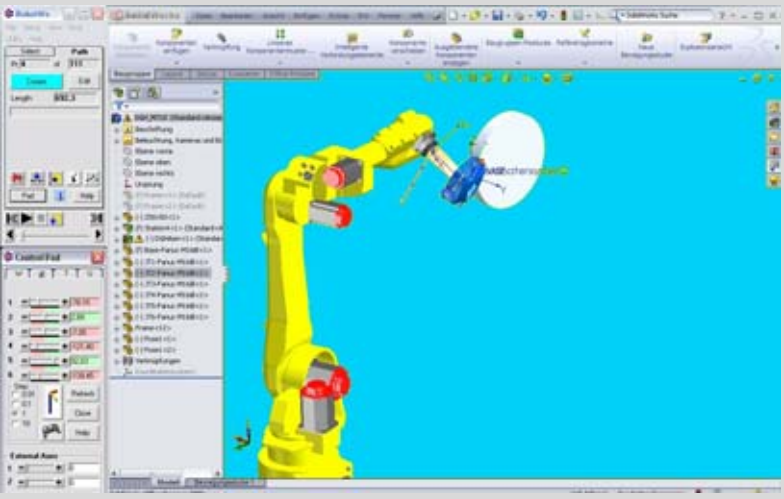

Work piece guiding machining can of course be programmed offline, for instance here as example of a grinding operation.
The programs are started and corrected with real robots. The corrected program is transferred back into the offline software and archived there.

Following **changes/optimizations** involves essentially **little expense** through this for adjustment to real robots. It means again a **profit in production time**.

In continuous cooperation with the appropriate software developers and our customers, we rebuild the options of offline programming continuously.
Ask us!

For further information, contact us at:

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