

Machine Kits

Description:

New machine concepts mean higher requirements for the CNC programmer and machine tool operator. High speeds and feeds require flawless CNC programs. The risk of a collision is higher, the machining workspace becomes tighter and parallel running threads must be synchronized.

The post processors today support complicated functionalities of the machine controllers, like zero shifts in 5 axes simultaneous mode, tilted plane, tool axes vectors and allot more. These high end functions complicate manual checking of the CNC code and first part machining takes on a higher risk.

The machine kinematic influences the qualitative result of a 5 axes operation. The same NX operations can lead to completely different results on different machine types.

A CAM workplace costs a fraction of a CNC machine. It is sensible to use more time in the CAM workplace to regain this time while running the program.

These tasks demand much more than a simple post processor. There is no logical advantage to only use the default virtual driver to prevent collisions. The VNC driver is an add on to the post processor while it reads the CNC code and drives the simulation model.

Functions and features:

Machine Kits contain the following: post processor, machine kinematics, schematic machine model, parser, VNC (virtual numerical controller), machine specific templates.

The parser allows a simulation of an external CNC code with one Chanel machines. Modified CNC-codes can be transferred back from the machine and simulated in NX.

Postprocessor-Upgrade:

All JANUS post processors which are covered through maintenance can be upgraded to Machine Kits.

