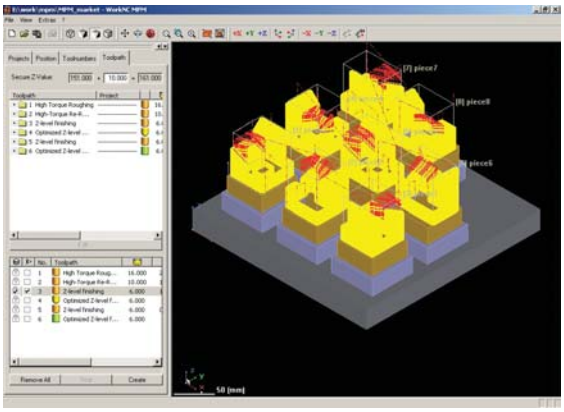
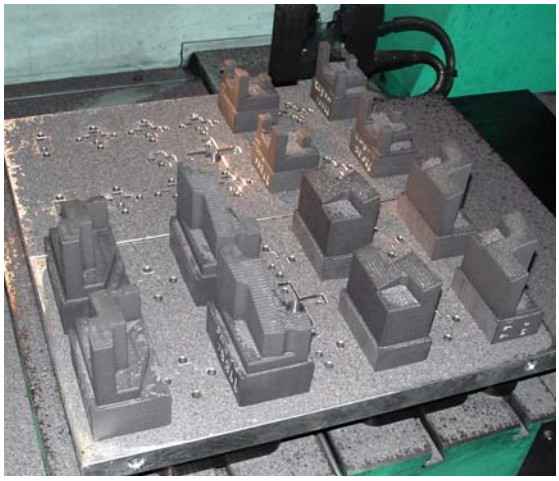
WorkNC-MPM

Multi Part Machining

- ***Higher productivity achieved by cutting several parts simultaneously in one machine set-up***
- ***No programming at the NC-machine control***
- ***Simple and secure positioning of the parts, no need to define origin coordinates***
- ***Unsupervised Machining***
- ***Optimal use of pallet and clamping systems***
- ***Fewer tool changes***
- ***More process security***
  - *Determination of the safe retract height over all of the workzones*
  - *Detection of erroneous tool station numbers*
  - *Simulation for visual verification*
  - *Sub-programme writing unnecessary*
- ***More accuracy***
  - *Enhanced tool life with accurate toolpaths*
- ***Fixture library***
  - *Library management for pallets, clamping and holders*
- ***Flexible and fast reaction to modifications***
- ***Mirroring and rotation of the parts without toolpath re-calculation***
- ***Easy to learn and use***



MPM User Interface



Work loading situation on the machine

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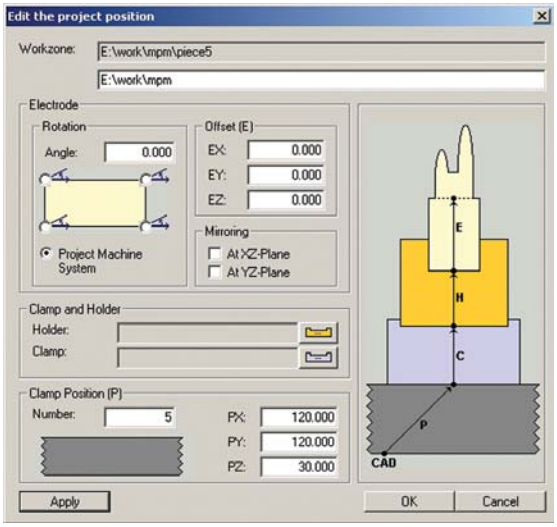
■ *Overview*

*The MPM module **(Multi Part Machining)** for WorkNC allows users to cut several parts simultaneously in one machine set-up, overcoming problems with collisions, speed and accuracy caused by multiple tool changes.*

The module optimises machining, increasing productivity by allowing several parts to be cut on one fixture at the same time. Definition of the origin and on-machine programming are unnecessary.

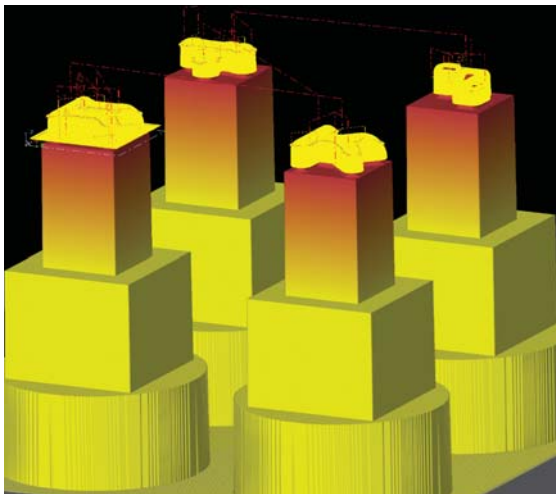
The number of tool changes is greatly reduced, while collisions during movement between parts, and errors in tool station numbers are eliminated. Pre-defined pallet systems are used by MPM ensuring quick and reliable machining.



Unique definition of the work loading position

■ *Operation mode*

MPM allows the user to select a pre-defined pallet system with holders, assigning a part to each holder. Coordinates stored with the pallet include the origin positions, making further datum definition unnecessary. MPM next checks every individual part and determines the necessary tools and their cutting order. This process also optimises the programmes to provide the fewest possible tool changes. Rapid movements of the machine between parts are collision free, taking place at a safe height above the components. The benefit to the user is a reduction in machining time, fewer tool changes and an increase in accuracy. MPM also provides error detection and simple modification capabilities. Changes and conflicts can be simply resolved by a single mouse click.



Simulation of the optimized toolpaths

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