TRIMETA software

proMa systro

EdiTasc

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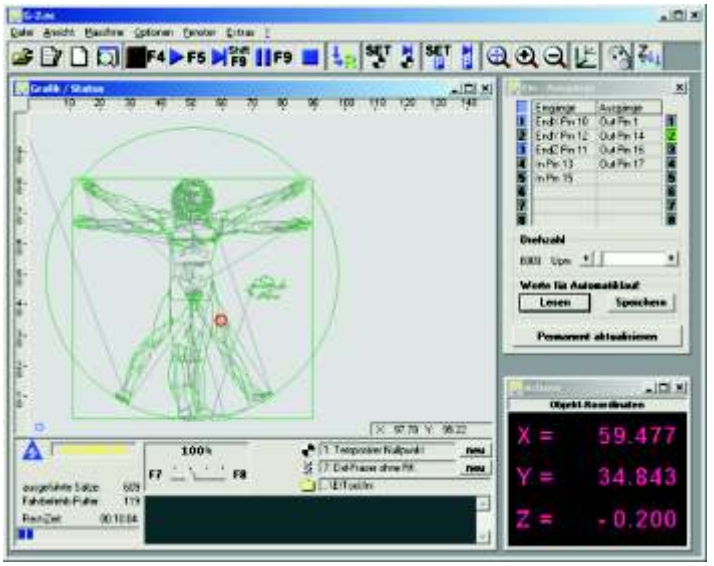
- *Realtime CNC running under Windows 2000/XP (without any additional external hardware)*
- *Open system for stepper and servo motors*
- *Interpolation for up to 8 axes (linear, rotary and helix)*
- *Continuous-path control up to 8 axes*
- *Look-ahead algorithm taking into account*
  - *axis control*
  - *acceleration along the path vector*
  - *centrifugal acceleration*
- *PLC functions freely programmable in MTasc*
- *RTCP (rotating tool centre point) for robot or 5-axis machining*
- *Cutter radius compensation also in HPGL files*
- *Intuitive use of all control functions thanks to clearly structured menus and pulldown menus*
- *Comprehensive machine control functions*
  - *Tool management*
  - *Zero management (machine zero, work-piece zero, etc.)*
  - *Backlash-on-reversal compensation*
  - *Teach-in by way of cursor keys*
  - *Status display for all signal inputs/outputs*
- *Data import*
  - *MTASC high-level language (similar to Basic); subroutines to unlimited nesting depth*
  - *G codes (DIN 66025)*
  - *HPGL*
  - *isel intermediate format (NCP)*
  - *Interfaces to: Eagle, Target, Excellon, Sieb&Meyer, Extended Gerber*
- *Drivers and interfaces available:*
  - *Clock / direction signals via printer port (open or closed control loop)*
  - *Serial interface RS 232*
  - *CAN Open*
  - *Sin/cos interface via PC slot card for high-resolution micro-stepping*
  - *PC cards with analog interface*



EdiTasc is a realtime CNC which runs under Windows 2000/XP and is exclusively software-controlled, with software modules substituting the circuits of conventional CNC technology. Thus, the performance of your CNC is no longer limited by external modules, but grows with the performance of your control computer. For example, the soft CNC achieves cycle times of 0.2 ms on a Pentium PC (200 MHz) without any additional hardware (3-axis mode).

The control system is based on fast, realtime control by the TRIMETA Windows device driver, which integrates three independent modules - the continuous space-time model of the 3D world, the digital controller model for conversion into the real world, and a timer with a maximum resolution of currently approx. 100 kHz.

EdiTasc is a user-friendly working and development tool for all proMa//systro control systems, and can be used universally. Thanks to continuous expansion and optimisation of the functions provided, *EdiTasc* has developed into a sophisticated tool for CAD/CAM applications. But the software also offers interesting solutions for automation applications thanks to functions, such as online block tracking, an unlimited number of subroutine nesting levels, tool management and zero definitions.

To control the electronic power section, *EdiTasc* supports various interfaces, such as analog interfaces, clock/direction, or also serial interfaces.

www.proma-systro.de

TECHNOLOGY

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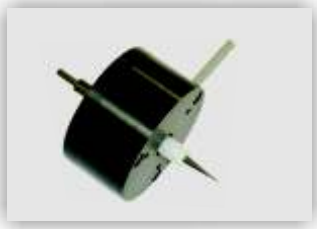
Options and supplementary modules for EdiTasc:

Electronic handwheel
This supplementary module is the ideal choice wherever drive axes are to be traversed manually, e.g. for tool or workpiece zero teach-in. The module is accommodated in a robust aluminium housing and and incorporates a rotary encoder, as well as a step-width setting and an axis selector.

PositionCorrection
The *PositionCorrection* module is used to acquire the position of 2D components (plates) on the machine table. Two defined reference points of the workpiece are approached by way of a CCD camera mounted on the Z axis. *EdiTasc* takes into account the determined position error with reference to an X/Y base line when calculating and outputting the CNC motion data. This function is required especially for the drilling and milling of base material (manufacturing of p.c.



3D probe with tip sensor or ruby ball
... is required for the spatial acquisition of 3D objects. While the 3D probe with tip sensor is used preferably for measuring 3D contours, the 3D probe with ruby ball is suited especially for sampling measuring points.

Import filter for Excellon and Extended Gerber
As per I/2007, EdiTasc offers a special software module for the processing of Excellon data. It manages drilling programs and calculates the outlines of the conductor paths from the Gerber data. In addition to the data formats Excellon and Sieb&Meyer, data from the CAE software Eagle and Target are also processed.

Further information upon request.

Hardware options for EdiTasc

Electronic handwheel Art. no. 148014 1000
Supplementary module for controlling up to four drive axes manually

PositionCorrection Art. no. 148005 0055
Software and hardware for determination of the position error of a 2-D workpiece

3D probe with tip sensor Art. no. 148219
... for measuring 3D objects, incl. software modules *MtProbe*

3D probe with ruby ball Art. no. 148228
... for sampling measuring points. incl. *Mcc* software module for surface compensation

Ordering information

EdiTasc Art. no. 148005 xxxx
Realtime CNC for CAD/CAM coupling and the solving of general tasks in automation

EdiTasc training
- *Online training* Art. no. 991310 1000
- *On-site training* Art. no. 991310 2000
- *In-house training* Art. no. 991310 3000

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