

are two modes of work available. Basic mode means sequential input of steps using control buttons on computer screen. The extended mode includes drawing paths with option of creating own trajectories.

Regardless of generating mode, each path can be saved/read on memory stick connected to USB1, as text file or G-codes. It is also possible to change parameters of movement, speed and acceleration. The program has a built-in alarm system informing about possible mistakes in the servodrive.

SUMMARY

Automated station designed and constructed in cooperation with student may serve as a learning tool for controlling and programming robots, but also enable realization of simple production processes for research application, including cooperation with real machines. It is possible due to the following features:

- Precision in robot's positioning allows precise manipulative functions.
- Control system with drivers based on PLC technology allows programming automated

station using operator's panel or PC computer.

- Presented concept of robot construction and control system create opportunities for engaging students in development and, more importantly, experience-based verification of software, customized to user's needs.
- Control of automated station is unrestrained, depending on didactic aim and task, that is customized to the user's needs

The station enables conducting classes, mainly for Engineer and Master's Papers, related to programming, control and design of robots.

REFERENCES

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