

Research program:
“Analysis of the micro-EDM (Electro Discharge Machining) milling process of micro-features”

Annex C

Department of Management Engineering, information and production

Tutor: PROF. Giancarlo Maccarini

Research program

The research activity will be focused on the remote collection, analysis and control of the electrical parameters in the micro-EDM (Electro Discharge Machining) milling.

The main research activities are reported below.

- Preliminary bibliographic analysis aimed at deepening the state of the art in the remote control of micro-EDM milling systems.
- Design and set up of a remote data collection system (compatible with a Sarix SX 200 EDM-milling machine) able to record the main electrical parameters for the micro-EDM process control (current, voltage, frequency, T-on etc.)
- Analysis of the parameters influence on the process performance.
- Set up of a machine remote control system.
- Analysis of the aspects related to the data protection during the data transfer.