



SOMMACT Self Optimising Measuring MACHine Tools

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SOMMACT

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1) **R** = Report, **P** = Prototype, **D** = Demonstrator, **O** = Other

2) **PU** = Public, **PP** = Restricted to other programme participants, **RE** = Restricted to a group specified by the consortium, **CO** = Confidential, only for members of the consortium



Executive summary

This report discusses the functional requirements and specifications for the various SOMMACT enabling technologies. Initially the scope and specifications not to be defined by the project, but which may affect the performance, are detailed. The report then discusses requirements and specifications of the various methodologies, systems and technology in several sections associated to the main SOMMACT features of machine error measurement, compensation, on-line measurement systems for continuous improvement, traceable on-machine inspection, software for supervisor control and self-learning. Other important considerations such as maintenance and exploitation are also included for consideration.

A detailed risk assessment, using an Excel spreadsheet, has been produced which lists the functional requirements and analyses the criticality, likelihood and mitigations to produce a score for the risks. The risk assessment spreadsheet is likely to evolve beyond deliverable D1.3 based on further WP1 activities, primarily in Task T1.4. Additional columns exist for ongoing recording of adherence to the requirements and mitigations for deviations from the original requirements and specification. These could help dynamic project risk monitoring and reporting. An extract, including the headers, is included in section 12, Appendix B.

An overview map (Mindjet Mindmanager software map) also exists which has the same structure as the main report and provides a relatively easy interface to browse particular areas of interest and then find the relevant section in the report. In order to provide compatibility of the map for the project partners, a series of web pages has been exported from the software, which provides sufficient functionality to navigate the topics.



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