HANDLING SYSTEM FOR LASER COMPONENTS

Introduction:

Design a handling system for laser components between phases 030 to 050 and 050 to 060. The handling system should ensure the integrity of the parts as well as the full traceability of each component.

The components to handle consist of strongly sensitive copper parts that are subsequently polished to submicrometric accuracy, chemically treated and assembled together with other components.

The company will provide barcode scanners and POS terminals.

Project Brief:

The company seeks to optimize the handling of components in the manufacturing flow while keeping its main features:

• Flexibility (different shapes of components go through the same flow)
• Safety (parts are extremely delicate and cannot be scratched)

Nevertheless improvements are needed in:

• Traceability
• Ease of handling

The outcomes of the project shall include:

• Prototype system
• Design files
• Tracking algorithms

Company

Name: Monocrom

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Project team:

Number of students: 3-4

Students speciality:

- Mechanical engineering
- Electronics engineering
- Chemical engineering
- Computer engineering
- Telecommunications engineering
- Design