

ENGINEERING & PRE-AUTOMATION SERVICES

FOR YOUR MEDICAL DEVICE

Are you in the product development phase and need feedback on the automation of the assembly steps? Are you faced with the question of how best to expand the capacity of your existing system? We can support you,

- minimize process risks,
- determine initial budgets,
- and reduce change loops.

FIND

WORKSHOPS

- Cobot concept workshop
- Automation workshop
- Analysis of value creation

REQUIREMENT MANAGEMENT

- Definition of process and quality limits
- Creation of functional specifications
- FMEA moderation

CHECK

SIMULATION

- FEM-Simulation with strength verification acc. to FKM guideline
- Robot simulation

AUTOMATABILITY

- Tolerance analysis (DfM/DfA)
- Consideration of feedability and handling

DEGREE OF AUTOMATION

- Concept creation
- Profitability analysis and budget calculation
- Cycle time analysis

TEST

IN-HOUSE MANUFACTURING

- Single part production on modern CNC multi-axis machining centers
- 3D printing

PRELIMINARY TESTS POC/POP

- Joining tests in the PLC laboratory
- Optical tests in the vision laboratory
- Product-specific test setups
- Tests of the feedability of parts

POTENTIALS

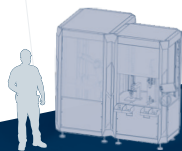
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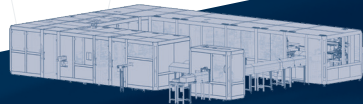
MANUAL ASSEMBLY



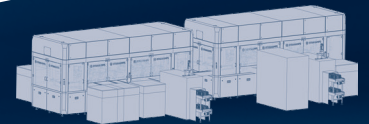
SEMI-AUTOMATED ASSEMBLY



FULLY AUTOMATED ASSEMBLY



FAST CYCLE ASSEMBLY



POC AND SMALL SERIES

> 50 MIO. PARTS p.a.

10
LOCATIONS

1,700
EMPLOYEES

50,000
SQUARE METER

75
YEARS