

# Automizing the disassembly process of a vacuum cleaner

## Aims and objectives

#### **Disassembly time optimization:**

Classic systems

► Operator: >15 minutes

Semi-automatic system

► Transport: 1 minute

► Robot: 3 minutes

Operator: 2 minutes

→ 6 minutes (1 disassembly)

→ 3,5 minutes (Multiple disassemblies)

# Disassembly price reduction: (Period 10 years)

Classic systems

➤ Operator: 35 €/hour

→ 8,75 €/disassembly

Semi-automatic system

Machine: 2,18 €/hour

Operator: 35 €/hour

► Operations: 17,14 Disassemblies/hour

→ 2,17 €/disassembly

### Construction

