

CASE STUDY

How a Manufacturer of custom-made cleanroom optimized bottleneck operation (+70% output, 0%)



1. Company background:

- International manufacturer of cleanroom not serial production (~100 employees)
- Cutting and gluing operation was slowing down the output resulting in risk of late deliveries to customer

2. Initial challenges:

- Bottleneck at the cutting & gluing operation
- Low output per shift, frequent waiting for material
- Unbalanced workload between operators
- Excessive handling and walking
- Logistics-related downtime (waiting, risky and low handling with heavy parts)

3. Implemented solutions:

- Redesign of workplace layout (material closer to point of use)
- Work balancing between operators (clear roles, task split)
- Simplified material flow
- 5S + visual management + small ergonomic improvements
- Testing different work-organization scenarios directly on the shopfloor

4. Results achieved:

- Output per shift: +70% (+100% after final implementation of changes)
- Logistics-related downtime: -100%
- Better utilization of operators, less waiting
- More stable flow, reduced performance variability
- Higher team engagement (people saw the impact of change)

The project improved productivity with payback within 2 months



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