



Work in many types of manufacturing is characterized by:

1. **High repetitive work** in hands and shoulders
2. High loads in **lower back and shoulders**
3. Specialized work leading employees performing the **same tasks** repeatedly

The physical challenges lead to:

1. **8%** of all manufacturing workers experience issues with **carpal tunnel syndrome and tennis elbow**.
2. **20%** reports **lower back pain** within the last 4 weeks
3. Physical symptoms like headache, tension in shoulders, and neck are very common among manufacturing workers

The consequence is lowered efficiency, high sick leave, and degradation of life quality

The Radiometer case:

Radiometer is developing and **manufacturing** blood gas analyzers. One of their assembly units experienced an **extreme high incidence rates** of strain injuries in the arms. **65% of the employees** issues lead to sick leave, making the problem **business critical**.

MLI® Solution was used to conduct a deep analysis of strain for all processes and all employees. The analysis identified 14 structural, organizational, and ergonomic issues. Once identified, most of them were successfully addressed through job rotation, physical training, and ergonomic improvements.

The results:

6 months after the intervention:

1. **No new incidents**
2. **60% of the injured improved their situation**
3. **Pain levels dropped by 40% in general**