

Virtual workplace design and ergonomics optimization for value-added integration of employees with restricted abilities

Objective:

- Transfer of decentralized pre-assembly tasks into a central production area
- Optimize ergonomics design to integrate employees with restricted abilities

Procedure:

1. Data collection (current conditions) by on-site study
2. Layout development and planning of material flow
3. Workplace design and simulation of work processes with ema Work Designer
4. Workshops involving customer's stakeholders from Planning, Industrial Engineering and Production departments to ensure feasibility and acceptance of the new concept
5. Creating technical specifications for implementation of each work station

Customer Benefits:

- Value-added integration of workers with restricted abilities
- Show potential for reducing production time, walk path and ergonomics strain
- Development of new layout and workplaces without intermitting production process
- Participative design involving all affected production and expert departments

