Development of an intelligent work table for the assembly of large components – ERGOTAB

**Problem**
- The demographic change leads to an ageing workforce in manufacturing companies.
- Companies that need to assemble larger components manually have to take a higher average age into particular consideration since it is difficult to avoid disadvantageous body postures during the assembly work.
- So far, workplace systems for large components only permit a limited degree of intelligent adaptivity. This leads to disadvantageous body postures and hence to unnecessary stress for the workers.

**Solution**
- Development of novel kinematic concepts for adaptive work tables to support the workers during the assembly process
- Creation of intelligent controls for the kinematics
- Supporting information for the worker during the assembly process
- Merging of sub-components into a new system for workplaces suitable for older workers

**Benefits**
- Reduction of stress due to ergonomically correct forms of working by manipulation of the ErgoTab
- Full provision of information through virtual production instructions