

# Ergonomics Requirement Specification for External Machine Manufacturers

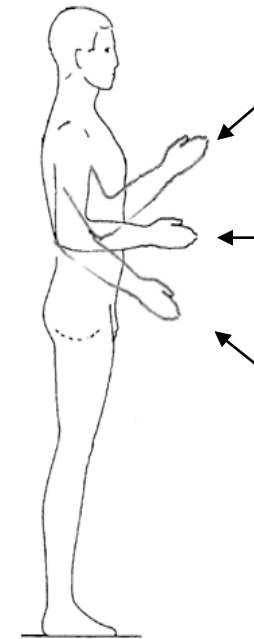
Our Requirements to New Machines

**Factor k for considering the visual and fine motor requirements**

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# Factor k for considering the visual and fine motor requirements

- › At the individual workplace types the working heights were multiplied by **factor k** in order to consider the different requirements concerning the work task (see right side).
- › These consider the required reduction of the viewing distance during visual controlled tasks with increased visual requirements as well as the required deflection angles of the arms during manual tasks, which require an increased use of the upper body muscles.
- › The gap between the place of manual operation and the worktop (e. g. height of equipment) is characterized by **C**.
- › **C** has to be subtracted from the working height in order to get the worktop height of the machine respectively the height of the assembly table.



**High requirements** concerning visual inspection as well as on fine motor tasks (**k = 1.2**)

**Average requirements** concerning Manual tasks with free arm movement (**k = 1**)

**Low requirements** concerning visual inspection, tasks with increased used of the upper body muscles (**k = 0.9**)  
**(only at standing workplaces)**