Standing Workstation Height

Workstation height for manual tasks is based on the type of task:

PRECISION TASKS

Delicate hand tasks typically requiring high visual demands:

- Examples: writing, small parts assembly, inspection jobs
- Set workstation height 5 10 cm above elbow height (wrist/forearm support required)
- Recommended height adjustability range*: 102 132 cm

LIGHT TASKS

Hand and arm tasks involving moderate force and visual demands:

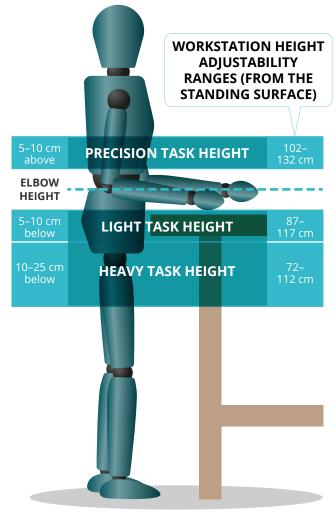
- Examples: assembly jobs, mechanical jobs, small tool operation
- Set workstation height 5 10 cm below elbow height
- Recommended height adjustability range*: 87 117 cm

HEAVY TASKS

Upper body (hand, arm & torso) tasks involving downward forces:

- Examples: meat processing, installing parts, kneading dough, tool operation
- Set workstation height 10 25 cm below elbow height
- Recommended height adjustability range*: 72 112 cm

- Optimal standing height = upright back posture with the arms close to the body
 - Workstation height for performing tasks with the hands located near the work surface



^{*} To accommodate 90% of the working population. Ranges are vertical measurements from the standing surface. [Pheasant & Haslegrave (2006). Bodyspace: Anthropometry, Ergonomics and the Design of Work, Third Edition. Taylor and Francis.]

	WORKSTATION HEIGHT - IMPACT ON POSTURE		
	TOO LOW	OPTIMAL	тоо нібн
Precision Tasks (Assembling bolts)	Back bending and rotated neck posture required to view task	5-10 cm above elbow height Wrist/forearm support required	Improved visibility but shoulders in awkward postures
Light Tasks (Cutting material)	Back bending required to view task and handle tools/objects	5-10 cm below elbow height	Shoulders and wrists in awkward postures to handle tools/ objects
Heavy Tasks (Operating manual cutter)	Back bending required to reach and generate force required	10-25 cm below elbow height	Awkward shoulder posture reduces ability to generate force









Standing Workstation Height

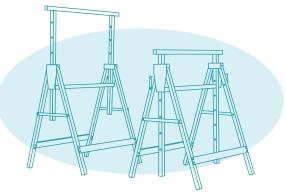
Tips for setting optimal workstation height:

- 1. Understand the TASK requirements
 - Type of task/actions required
 - Size of the object/material
 - Tools and their handle orientations required to perform tasks
- 2. Consider the individual factors of the WORKERS
 - Stature (height)
 - When multiple workers are involved, design to accommodate the majority of the population

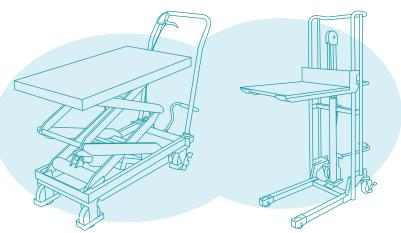
3. Fit the TASK to the WORKERS

- Goal: All workers should be able to perform work in natural postures
- <u>Adjustability is key</u> for accommodating workers of different statures
- Allow foot clearance to stand close to the workstation
- Use the appropriate flooring and footwear for standing work tasks
- 4. Set up the workstation using devices and equipment that allow for height adjustment. Examples:
 - Sawhorses/blocking
 - · Height adjustable cart or table
 - Platforms/scaffolding to raise standing surface (NOTE: Use appropriate controls to prevent slip/trip/fall hazards when standing on elevated surfaces)

WORKSTATION ADJUSTABILITY SOLUTIONS FOR MANUAL TASKS



HEIGHT ADJUSTABLE SAWHORSES



SCISSOR-LIFT TABLE

PLATFORM STACKER



HEIGHT ADJUSTABLE WORKBENCH

ELEVATED PLATFORM



