[4a] Workplace in standing position
Variable height of bench

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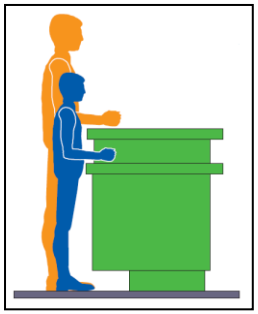
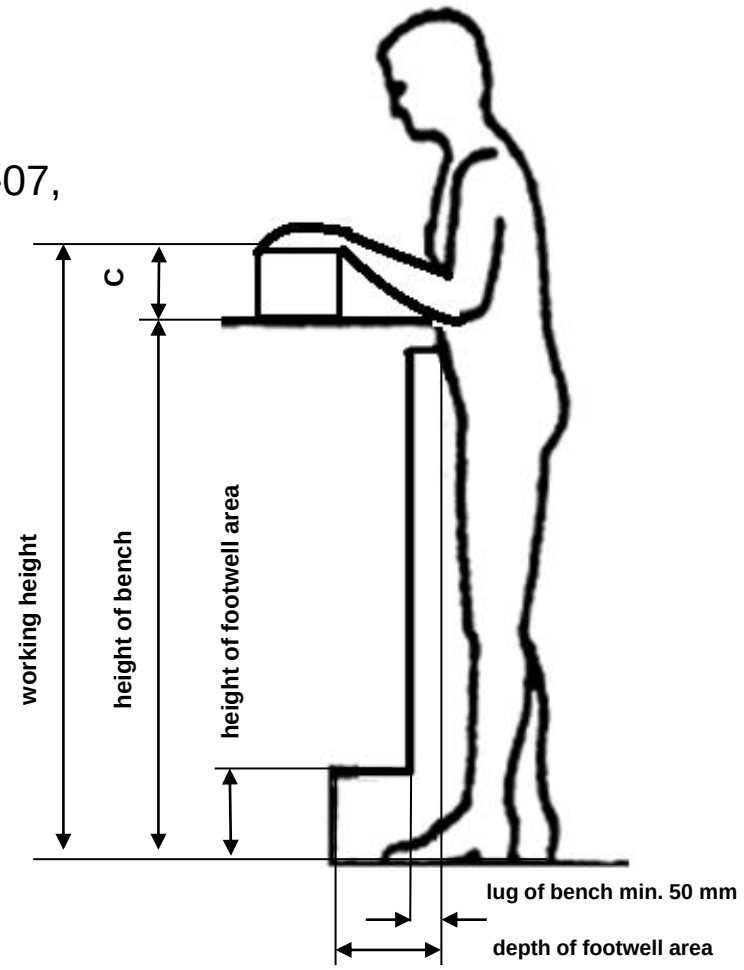
- Dimensions with supplement for movement of feet
  (following DIN EN ISO 14738: 2009-07,
  DIN CEN ISO/TR 7250-2)
- All dimensions in [mm]





[4a] Workplace in standing position
Variable height of bench

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Table 1: Dimensions [mm] for work tasks with "high requirements for visual control" and "fine motor skills" (k=1,2) (following DIN EN ISO 14738: 2009-07, DIN CEN ISO/TR 7250-2)

	Europe	Germany			Korea		
	M/F	M	F	M/F	M	F	M/F
Working height	1152-1470	1266-1446	1188-1332	1188-1446	1205-1374	1124-1274	1124-1374
Height of bench	Working height - C	Working height - C	Working height - C	Working height - C	Working height - C	Working height - C	Working height - C
Height of footwell area	96	96*	96*	96*	96*	96*	96*
Depth of legroom	50**	50**	50**	50**	50**	50**	50**
Depth of footwell area	205	205	187	205	141	134	141

› Working height with **high requirements** for visual control and fine motor skills (k = 1,2)

* Dimensions out of DIN EN ISO 14738: 2009-07, ** Fixed dimension for change of exposure by weight stabilizing on other foot

[4a] Workplace in standing position
Variable height of bench

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Table 2: Dimensions [mm] for work tasks with "average requirements for visual control and/or fine motor skills" (k=1) (following DIN EN ISO 14738: 2009-07, DIN CEN ISO/TR 7250-2)

	Europe	Germany			Korea		
	M/F	M	F	M/F	M	F	M/F
Working height	960-1225	1055-1205	990-1110	990-1205	1004-1145	937-1062	937-1145
Height of bench	Working height - C	Working height - C	Working height - C	Working height - C	Working height - C	Working height - C	Working height - C
Height of footwell area	96	96*	96*	96*	96*	96*	96*
Depth of legroom	50**	50**	50**	50**	50**	50**	50**
Depth of footwell area	205	205	187	205	141	134	141

› Working height with **average requirements** for visual control and/or fine motor skills (k = 1)

* Dimensions out of DIN EN ISO 14738: 2009-07, ** Fixed dimension for change of exposure by weight stabilizing on other foot

[4a] Workplace in standing position
Variable height of bench

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Table 3: Dimensions [mm] for work tasks with "minor requirements for visual control, activities with increased use of muscle of upper part of the body" (k=0,9) (following DIN EN ISO 14738: 2009-07, DIN CEN ISO/TR 7250-2)

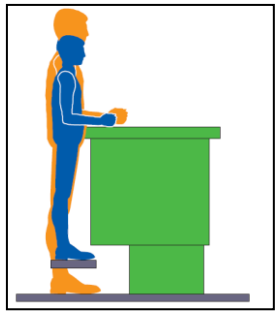
	Europe	Germany			Korea		
	M/F	M	F	M/F	M	F	M/F
Working height	864-1103	950-1085	891-999	891-1085	904-1031	843-956	843-1031
Height of bench	Working height - C	Working height - C	Working height - C	Working height - C	Working height - C	Working height - C	Working height - C
Height of footwell area	96	96*	96*	96*	96*	96*	96*
Depth of legroom	50**	50**	50**	50**	50**	50**	50**
Depth of footwell area	205	205	187	205	141	134	141

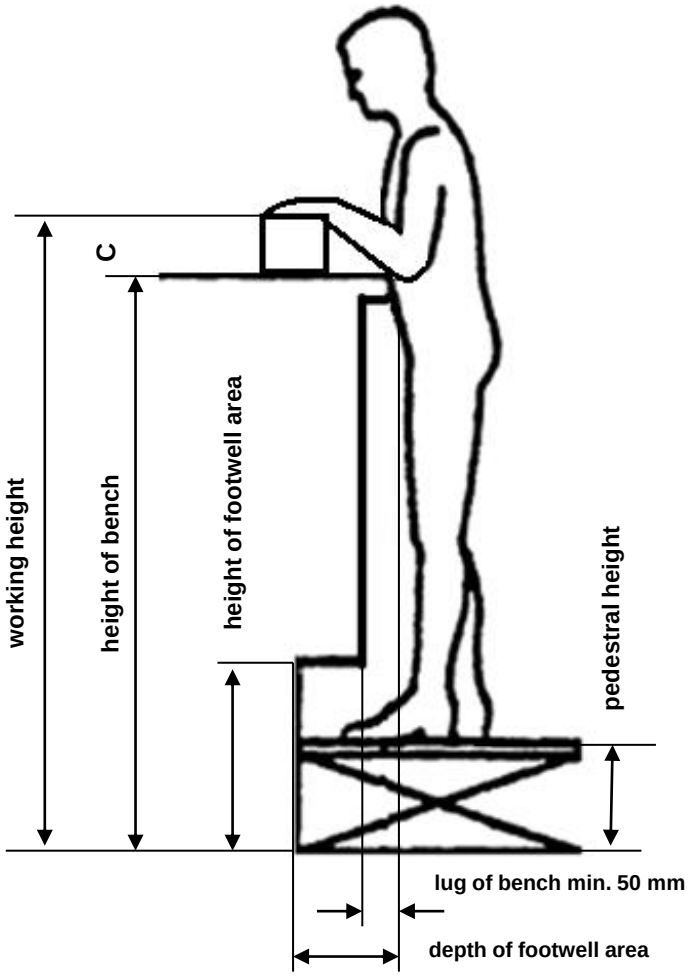
› Working height with **minor requirements** for visual control, activities with increased use of muscle of upper part of the body (k = 0,9)

* Dimensions out of DIN EN ISO 14738: 2009-07, ** Fixed dimension for change of exposure by weight stabilizing on other foot

[4a] Workplace in standing position *Variable height of bench* (variable by pedestral)

- Variable by pedestral
- Dimensions with supplement for movement of feet (following DIN EN ISO 14738: 2009-07, DIN CEN ISO/TR 7250-2)
- All dimensions in [mm]





[4a] Workplace in standing position
Variable height of bench

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Table 4: Dimensions [mm] for work tasks with "high requirements for visual control" and "fine motor skills" (k=1,2) (following DIN EN ISO 14738: 2009-07, DIN CEN ISO/TR 7250-2)

	Europe	Germany			Korea		
	M/F	M	F	M/F	M	F	M/F
Working height	1470	1446	1332	1446	1374	1274	1374
Height of bench	Working height - C	Working height - C	Working height - C	Working height - C	Working height - C	Working height - C	Working height - C
Height of footwell area	361	246	216	311	237	221	304
Depth of legroom	50**	50**	50**	50**	50**	50**	50**
Depth of footwell area	205	205	187	205	141	134	141
Pedestral height	265	150	120	215	141	125	208

› Working height with **high requirements** for visual control and fine motor skills (k = 1,2)

** Fixed dimension for change of exposure by weight stabilizing on other foot

[4a] Workplace in standing position
Variable height of bench

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Table 5: Dimensions [mm] for work tasks with "average requirements for visual control and/or fine motor skills" (k=1) (following DIN EN ISO 14738: 2009-07, DIN CEN ISO/TR 7250-2)

	Europe	Germany			Korea		
	M/F	M	F	M/F	M	F	M/F
Working height	1225	1205	1110	1205	1145	1062	1145
Height of bench	Working height - C	Working height - C	Working height - C	Working height - C	Working height - C	Working height - C	Working height - C
Height of footwell area	361	246	216	311	237	221	304
Depth of legroom	50**	50**	50**	50**	50**	50**	50**
Depth of footwell area	205	205	187	205	141	134	141
Pedestral height	265	150	120	215	141	125	208

› Working height with **average requirements** for visual control and/or fine motor skills (k = 1)

** Fixed dimension for change of exposure by weight stabilizing on other foot

[4a] Workplace in standing position Variable height of bench

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Table 6: Dimensions [mm] for work tasks with minor requirements for "visual control, activities with increased use of muscle of upper part of the body" (k=0,9) (following DIN EN ISO 14738: 2009-07, DIN CEN ISO/TR 7250-2)

	Europe	Germany			Korea		
	M/F	M	F	M/F	M	F	M/F
Working height	1103	1085	999	1085	1031	956	1031
Height of bench	Working height - C	Working height - C	Working height - C	Working height - C	Working height - C	Working height - C	Working height - C
Height of footwell area	361	246	216	311	237	221	304
Depth of legroom	50**	50**	50**	50**	50**	50**	50**
Depth of footwell area	205	205	187	205	141	134	141
Pedestral height	265	150	120	215	141	125	208

› Working height with **minor requirements** for visual control, activities with increased use of muscle of upper part of the body (k = 0,9)

** Fixed dimension for change of exposure by weight stabilizing on other foot

[4a] Workplace in standing position Variable height of bench

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Definition:

- **C** is the distance between area of manual handling and work bench surface (height of object / tool)

Further Information:

- For checking purposes after design of work places it is always recommended to calculate and validate that there is enough free space for thighs (calculation.pptx)
- Information to working height and height of work bench
- Explanation of the parameter k to consider visual and fine motor skills
- An example for the calculation of [4a]