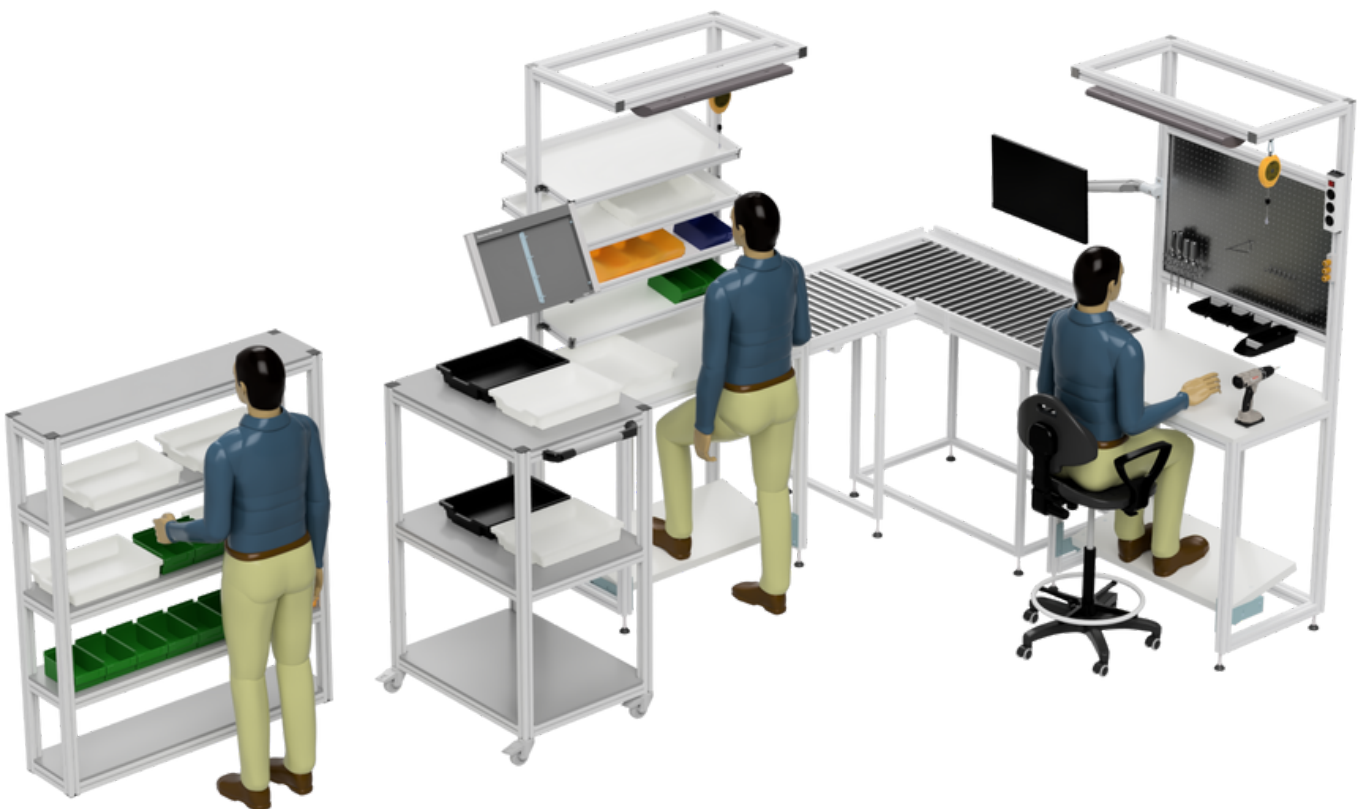


LET'S CREATE YOUR WORKSTATION

ERGONOMIC MANUAL PRODUCTION SYSTEM

Standards of ergonomics in the workplace promote productivity, safety and health of workers and outline improvements in the performance of workers' tasks. By frequent or daily use of office and IT equipment, they provide standardized procedures and practices for measuring and reducing physical stress and mental fatigue from movement, vibration, shock, and sound.

There is no doubt that there are numerous benefits of ergonomics in the workplace. Designing the workspace according to the basic principles of ergonomics that promote good posture, less repetitive movements and less effort, encourages a more efficient work process.



THE VALUE OF ERGONOMICS FOR MANUFACTURING

**INCREASED
PRODUCTIVITY**



WORKER HEALTH



**IMPROVED
SAFETY**

According to the ergonomics standard described in EN ISO 6385, we covered all fields for better ergonomics in manufacturing and production.

- Worker height
- Work area and reach zone
- Accessibility of tools and parts
- Vision and lighting

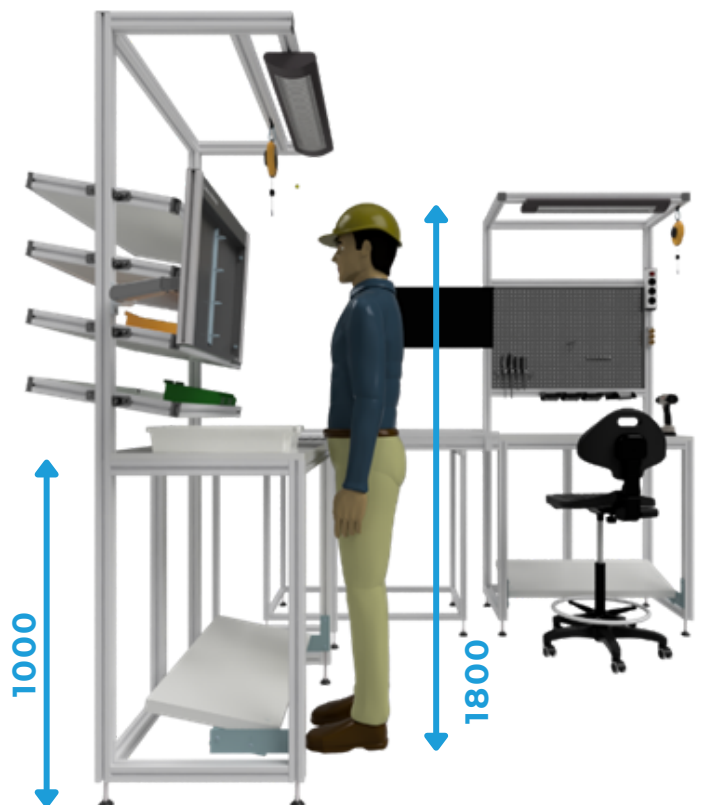
Worker height

Manual workstations are designed to fit all body heights.

For the stand-up workstation goal for a table height is

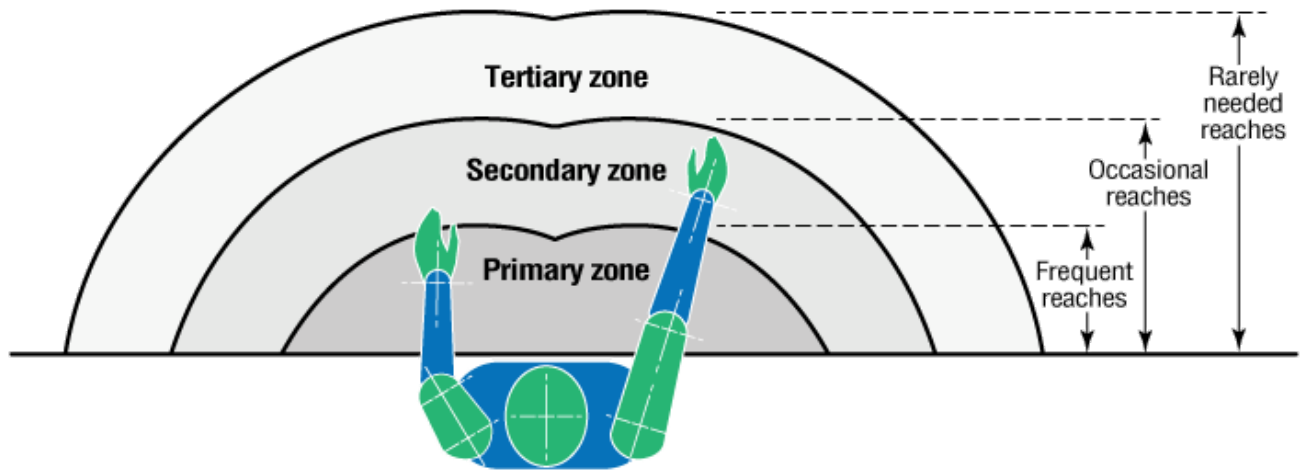
min. 1000 mm. Key criteria are:

- Legroom and footrest
- Stability during work
- Variability of functions for the needed task
- Visibility across the work area



Work area and reach zone

The work area recommended height is between 800 mm and 1500 mm.



For the ergonomic reach zone all tools, equipment, containers and products of operation should be easily accessible and organized in logical and intuitive way for specified work. Most of the work should be done in the primary zone (picture above), as it minimizes exertion.

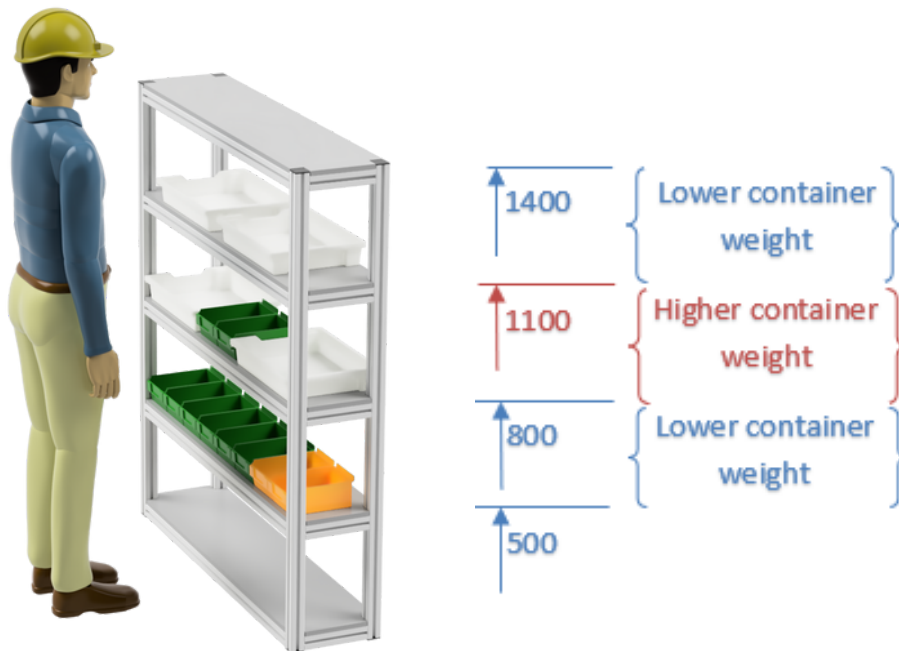
Advice for manual work

- Avoid work above heart level
- Dynamic over static activities
- Minimize exertion using movable tools and equipment
- Position change

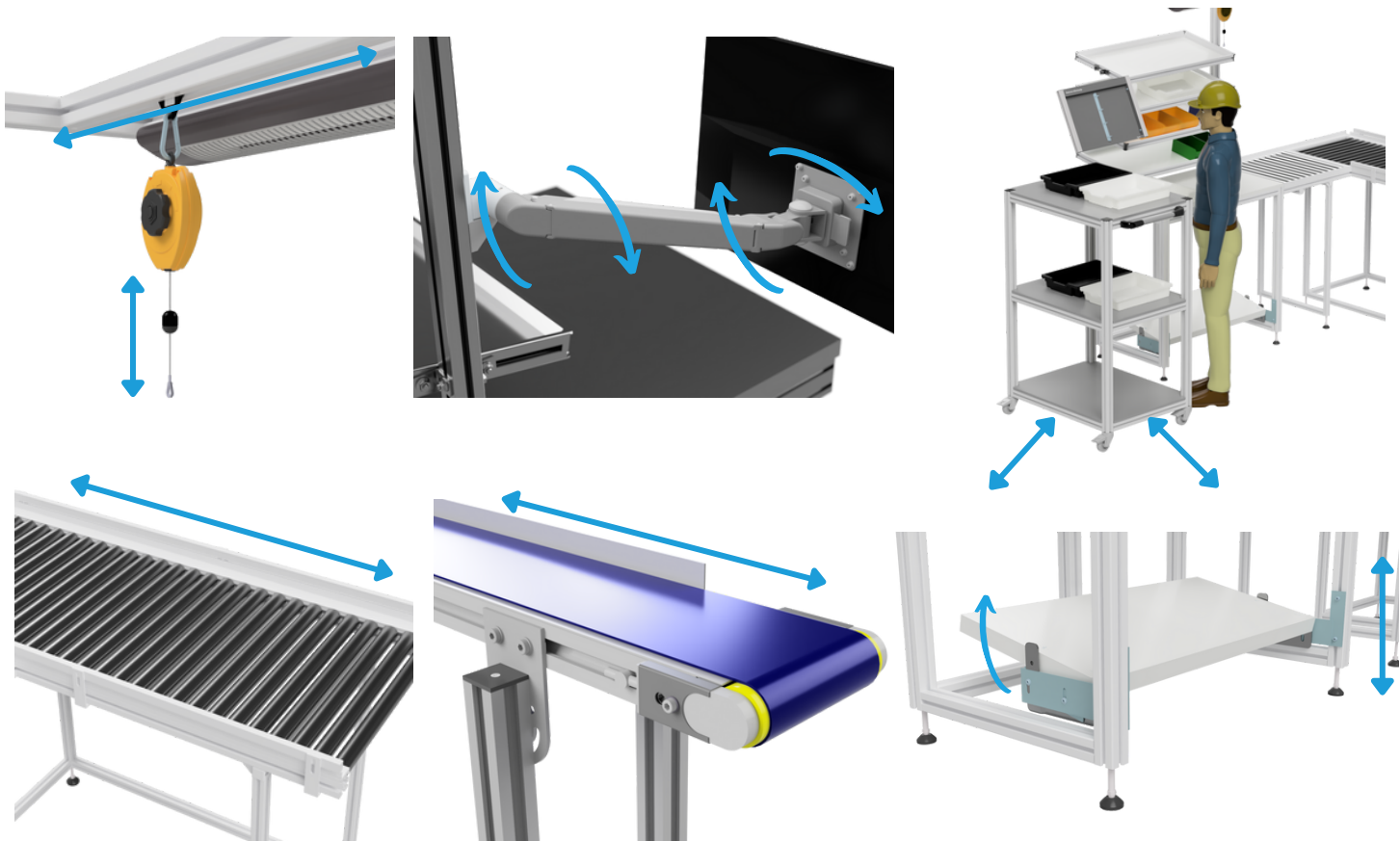


Accessibility of tools and parts

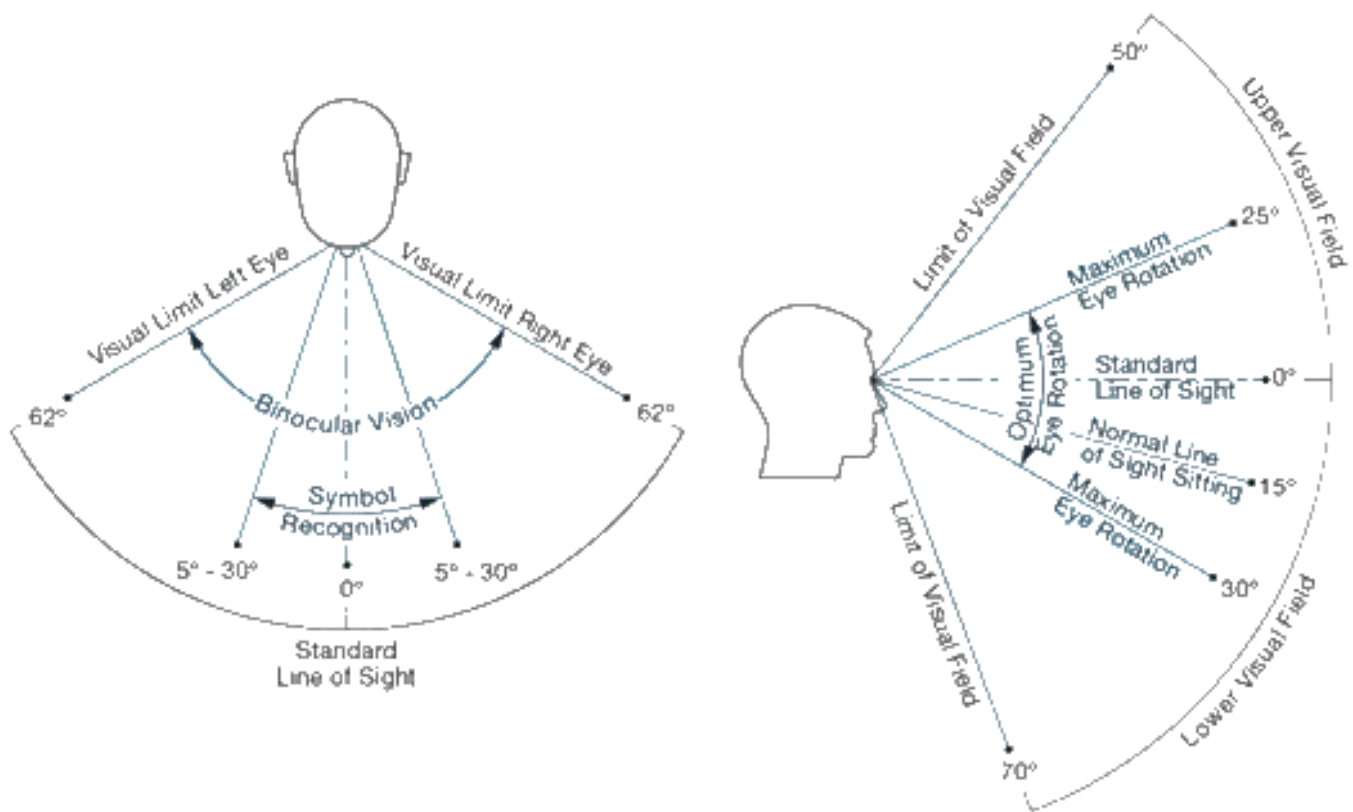
Grab containers and parts should be in direct reach for a worker. The heaviest containers should be in a height zone of 600 mm to 1100 mm above ground. A belt or roller conveyor should be used for moving parts.



Movable tools and equipment save time and effort for the employee.

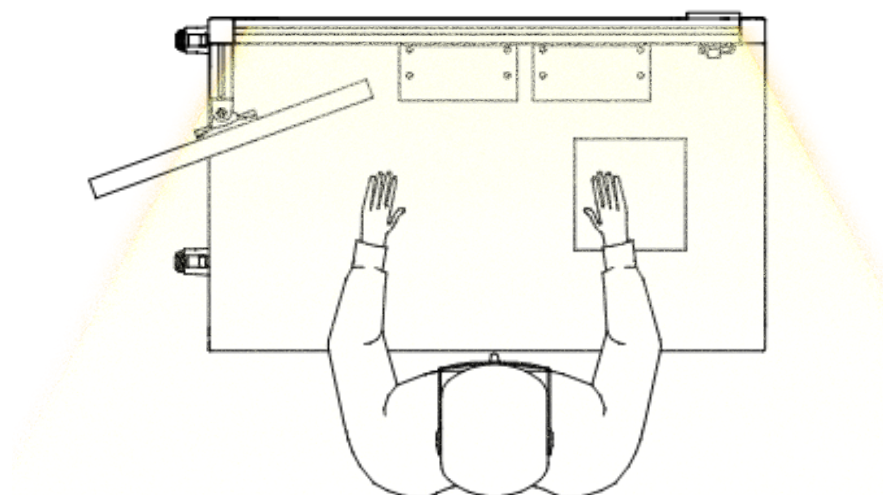


Vision and lighting.

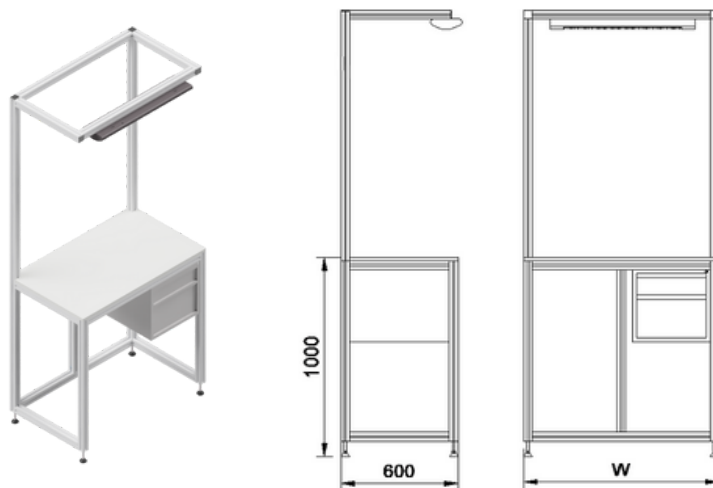


By positioning products and tools inside the vision area, a worker would need less movement to see objects. Most used objects should be in the line of sight. It is important to not lose focus by searching for tools and equipment.

Lighting can be adjusted for different applications. For rough machining and assembling is required less luminance and for fine assembly, precision mechanics, and measuring instruments is required higher luminance.



STANDARD WORKSTATION



800x600x1000

1000x600x1000

1200x600x1000

ESD WORKSTATION

ESD (Electrostatic Discharge) Workstation

An ESD Workstation is a work area that is free of static and safe from ESD (electrostatic discharge). It establishes a zero-potential ground between the floor, a work surface, and a user.

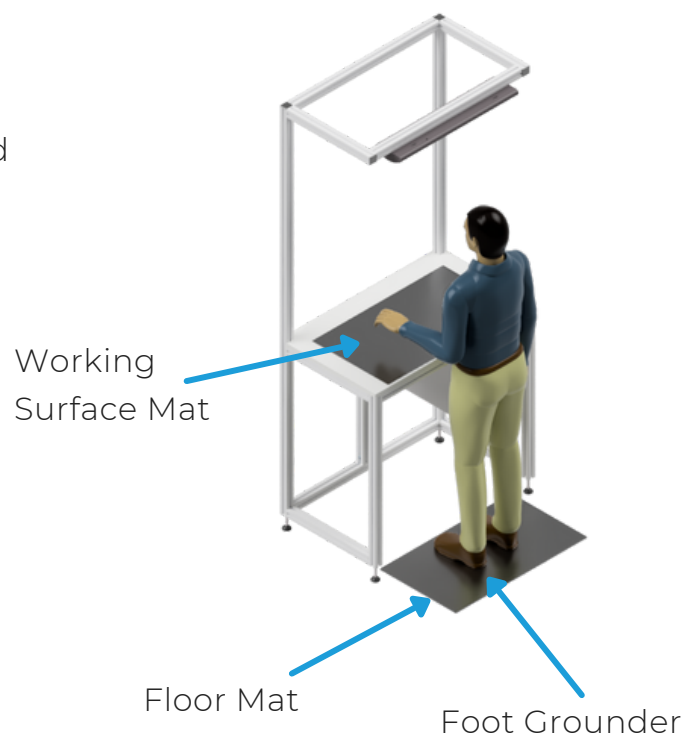
Application of ESD Workstation in manufacturing flat-panel, medical device, printed circuit board, semiconductor, and other electronics.

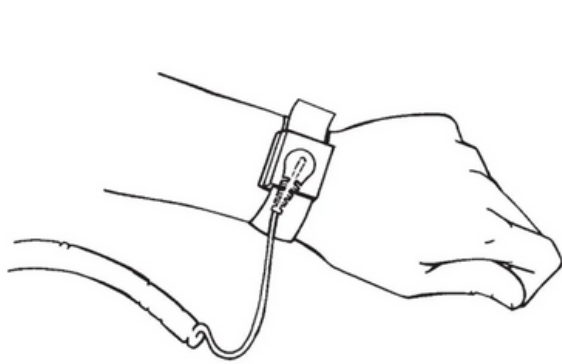
For ESD protection it is mandate to use:

- Working surface mat
- Working surface mat grounding cord
- Earth bonding point plug
- Wrist strap
- Earth bonding point bar

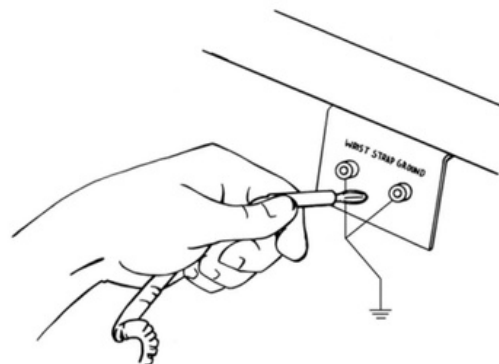
And optional to use:

- Foot grounders
- Floor mat
- Floor mat grounding cord

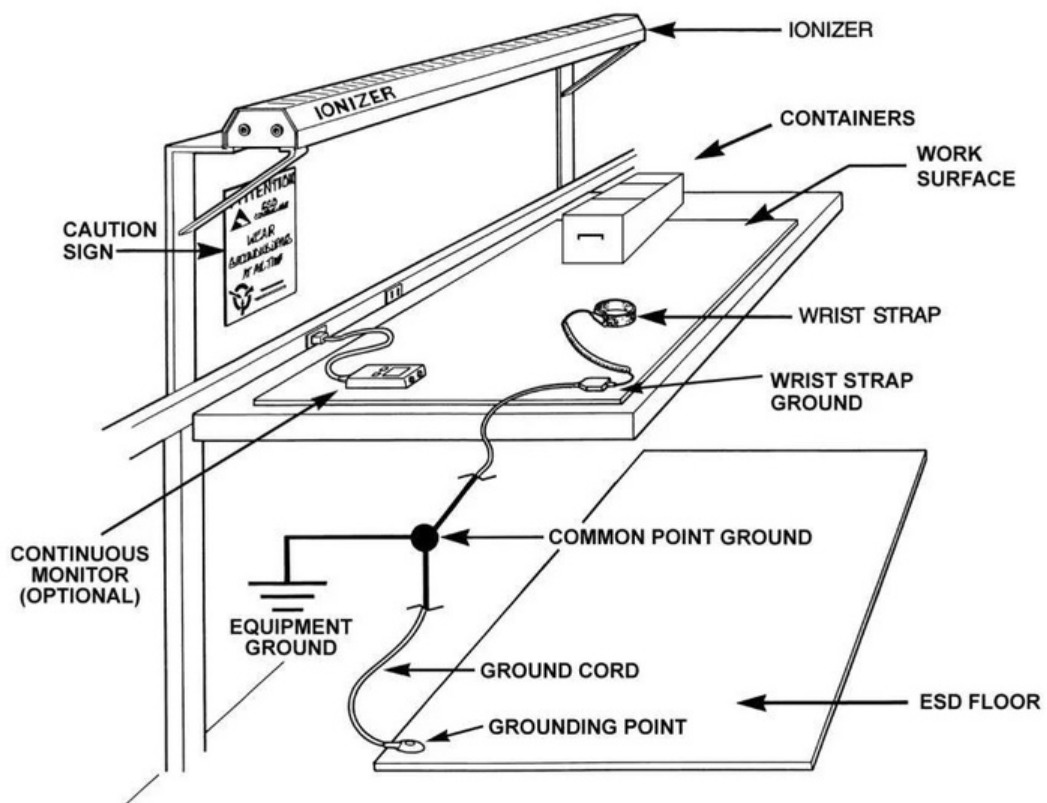
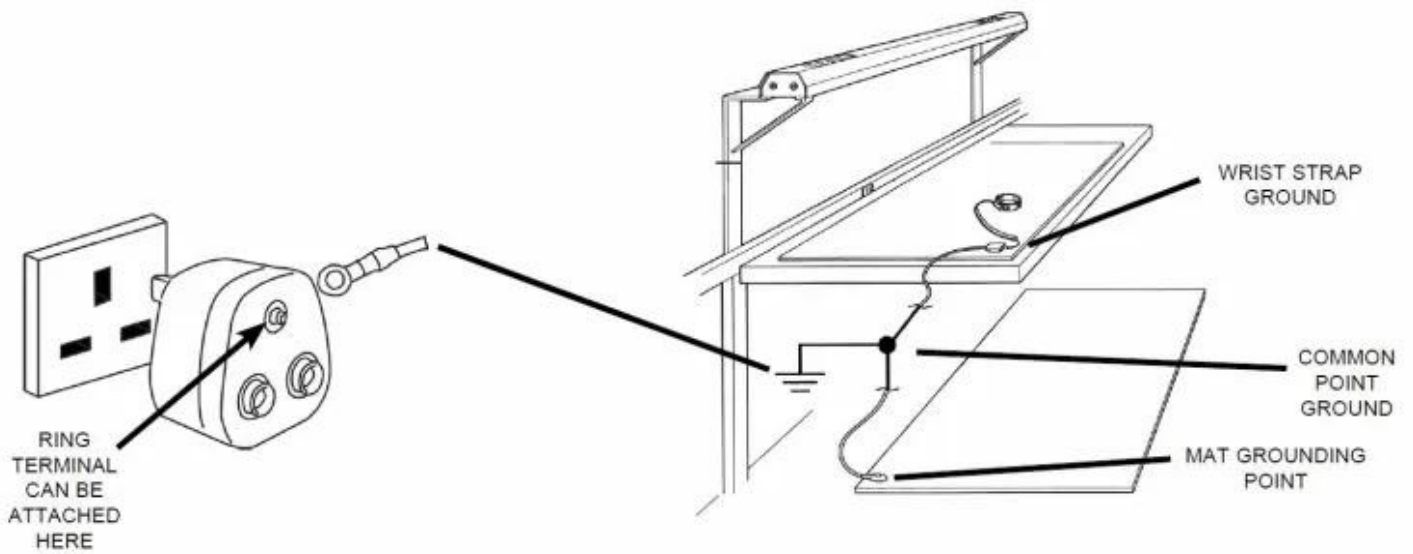




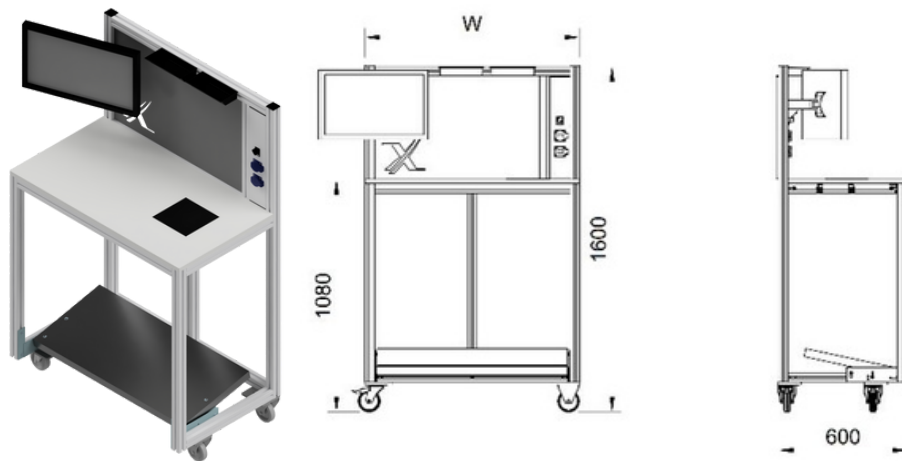
Wrist Strap



Grounding

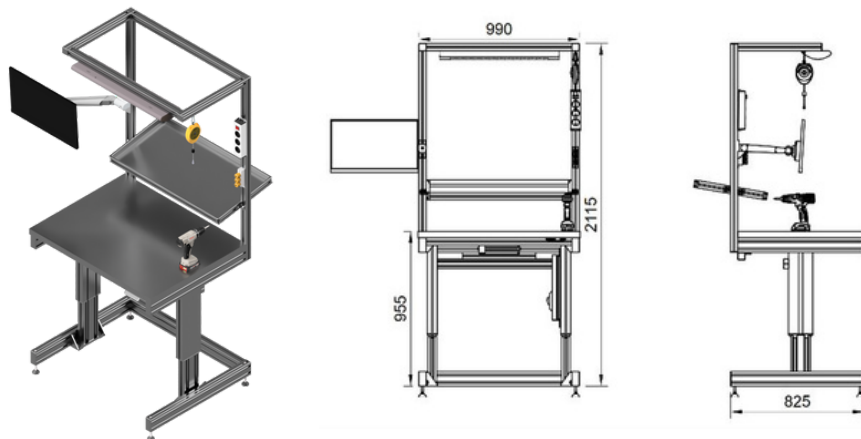


CUSTOM WORKSTATIONS



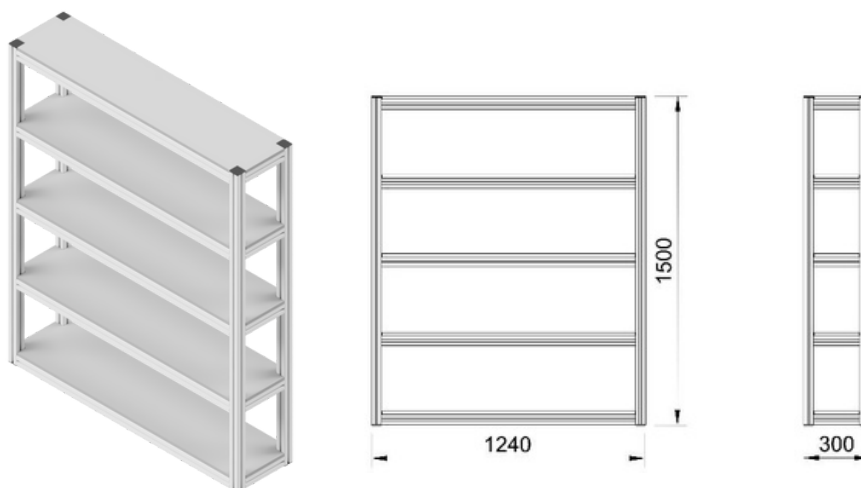
Material: ALU profiles,
working plate

HEIGHT-ADJUSTABLE WORKSTATION



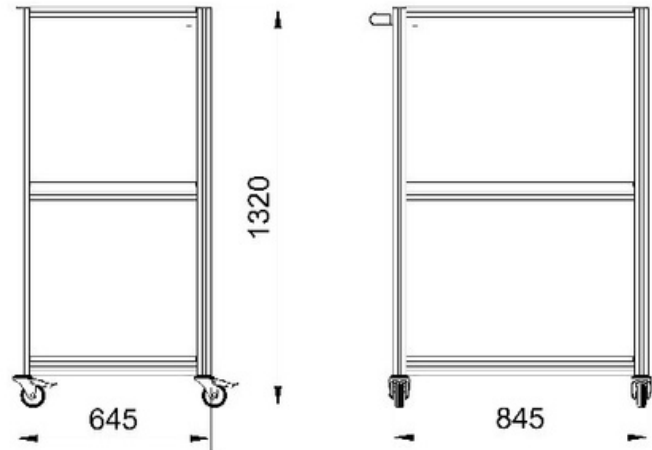
Material: ALU profiles,
working plate

HEAVY-DUTY RACK

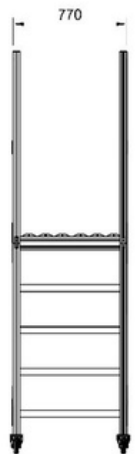
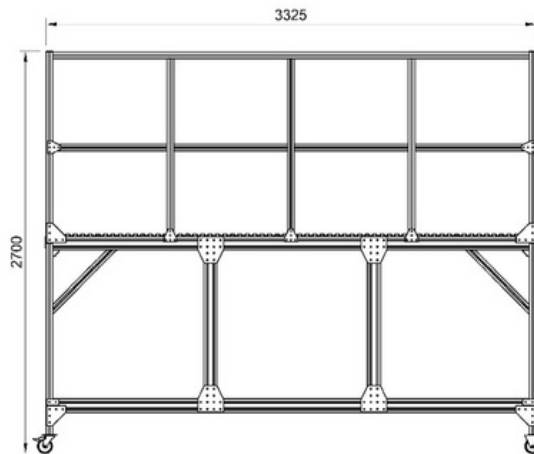


Material: ALU profiles,
working plate

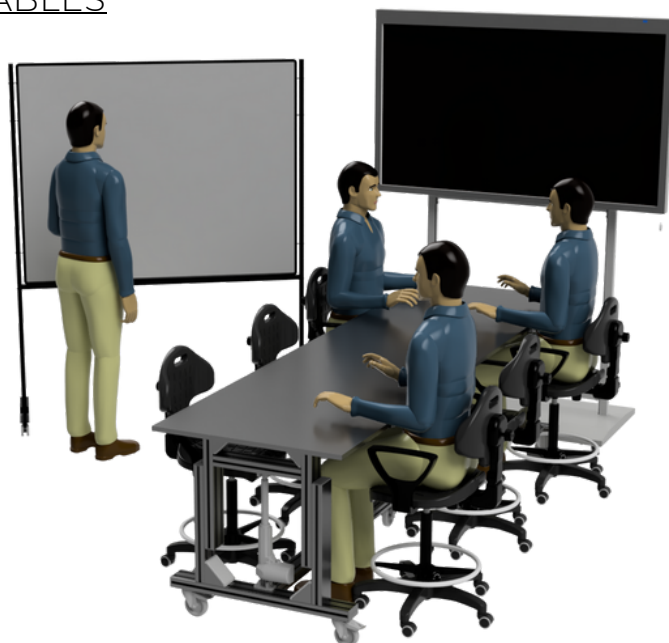
HEAVY-DUTY TROLLEY

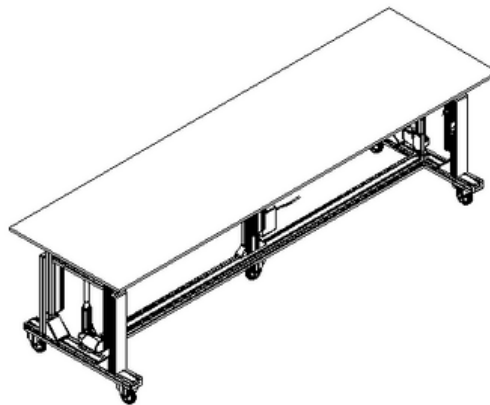
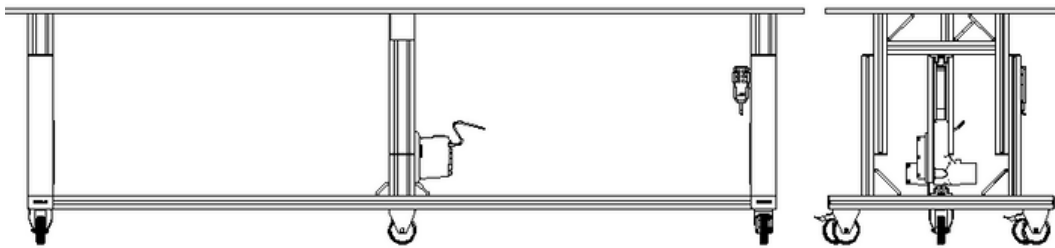


PLATFORMS AND STAIRS



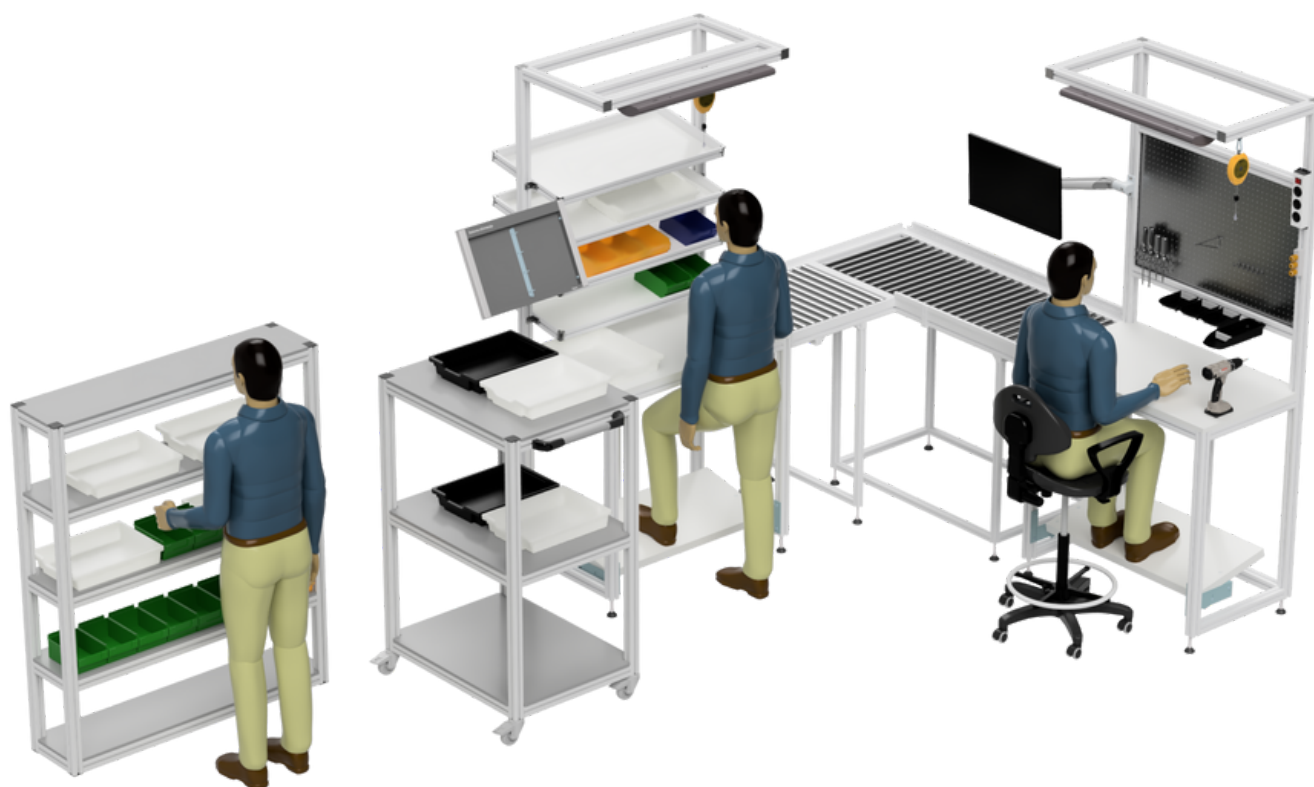
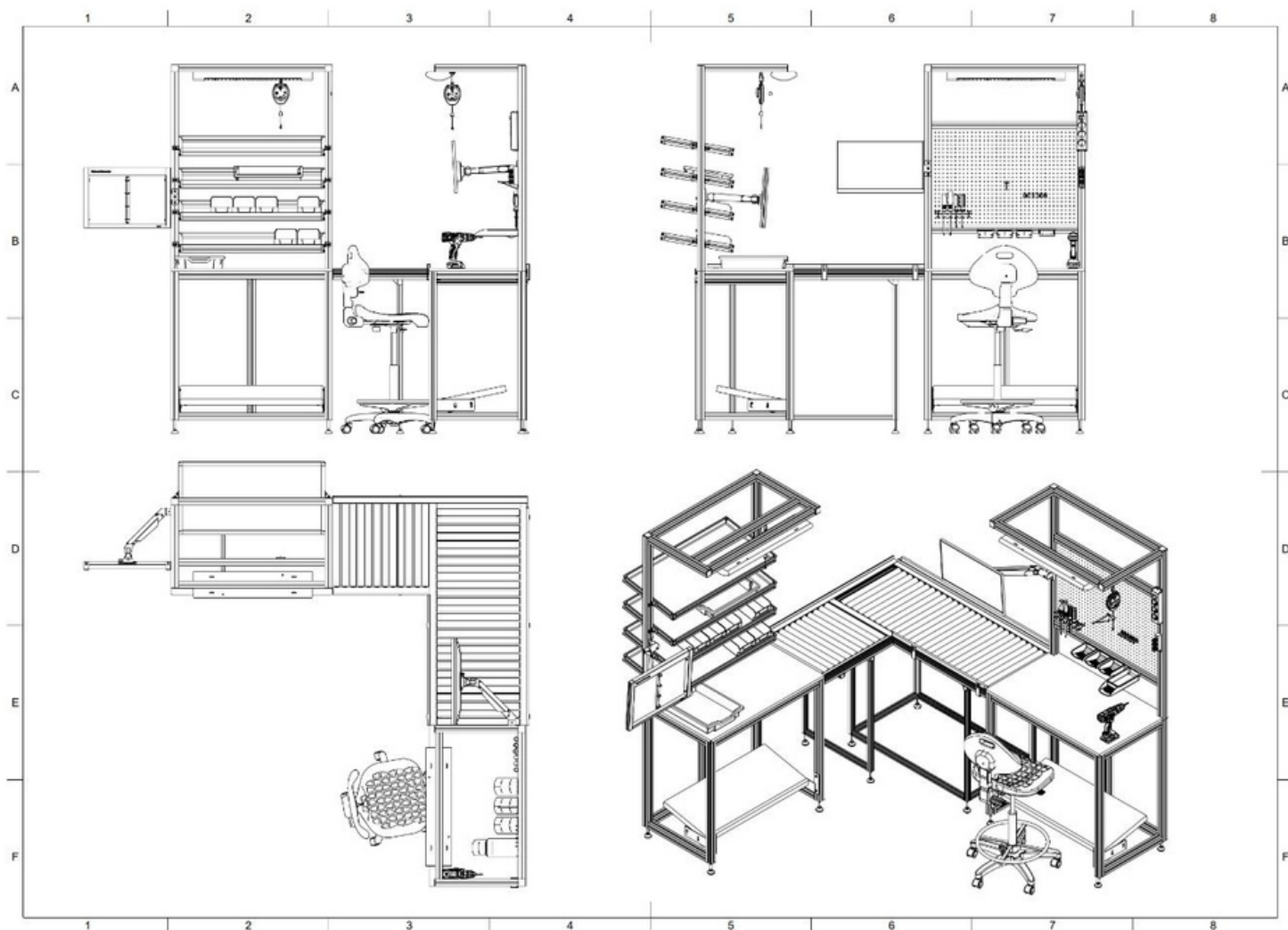
CONFERENCE TABLES





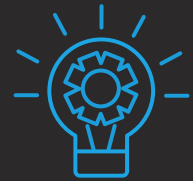
CUSTOMIZE YOUR WORKSTATION



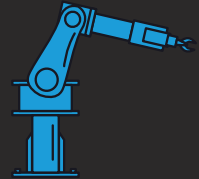


SERVICES

CONSTRUCTION,
MANUFACTURE & DEVELOPMENT



INDUSTRIAL AUTOMATION



WATER JET CUTTING



3D MEASUREMENT



ELECTRICAL WIRE EROSION (EDM)



MILING



GRINDING



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