

ERGONOMIC DESIGN

OUR MACHINES ARE SPECIALLY DESIGNED KEEPING IN MIND THE ERGONOMIC DESIGN SUGGESTION

Why Ergonomics is important in machines:

1. Reduces physical stress & injuries:

Using cleaning machines for a large area on a regular basis can increase the stress levels in the body, because of repeated movements of the musculoskeletal system. This may cause discomfort, pain or injuries. Ergonomic design is used to provide comfort to the workers. It helps in reducing the risk factors that leads to discomfort and injuries. Here at Polivac International we have specially designed all our machines and equipment using Ergonomic design keeping in mind the significance of individual health and efficiency requirements.

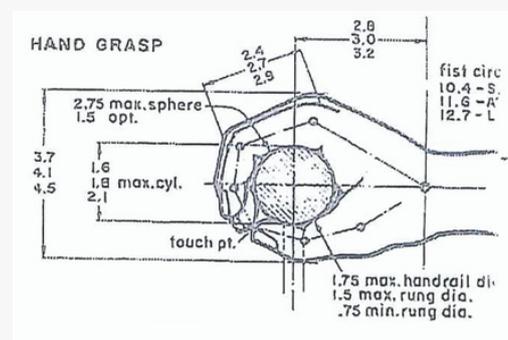
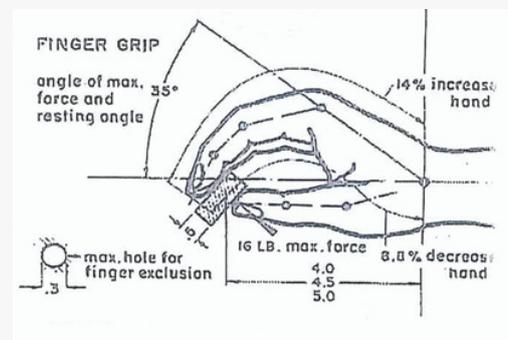
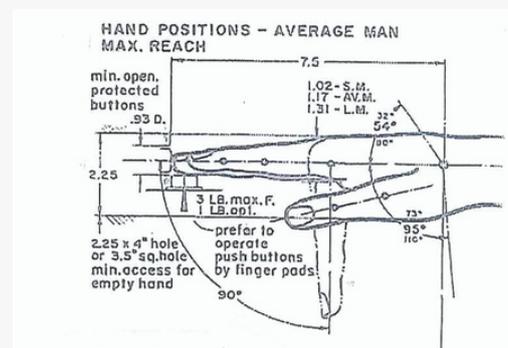
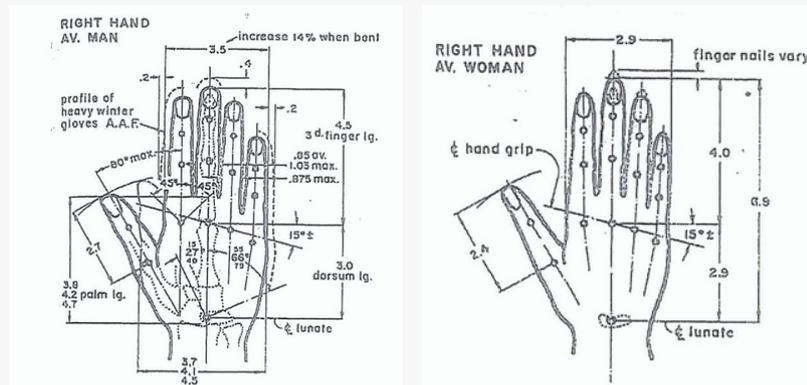
2. Increases efficiency & productivity:

Ergonomic machines are designed in way which keeps in mind the capabilities and limitations of the human body. It helps in comprehending which design is well suited to improve the efficiency of the workers. For example: Machine bar handle ends can be angled at 10 degrees to match with the overall grasping of the hand. Hence workers do not have to put in extra efforts while operating the machine.

3. Increases work satisfaction:

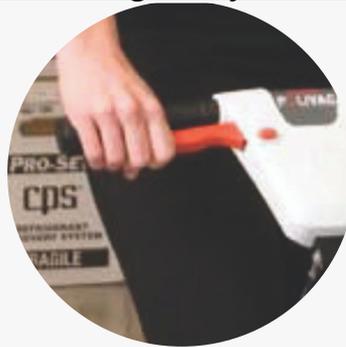
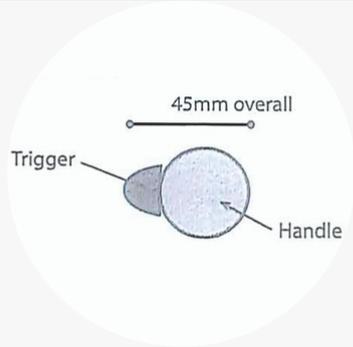
It is important to provide the workers with right equipments and tools for the job.

Hand Measurement of man and woman



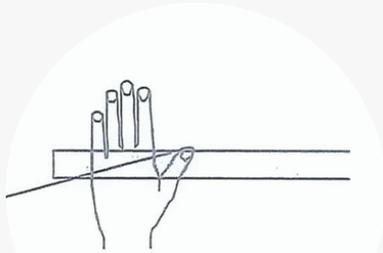
Handle Diameter:

The handle diameter should be smaller because when the triggers are compressed the overall diameter created should not go beyond **45mm**

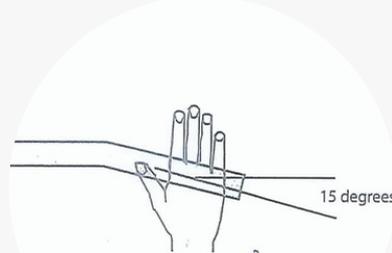


T Handle Design:

Bar ends could be angled in 10 degrees (based on 400mm overall width) to match with natural rasping angle of the hand.



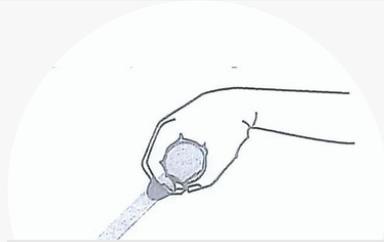
Existing



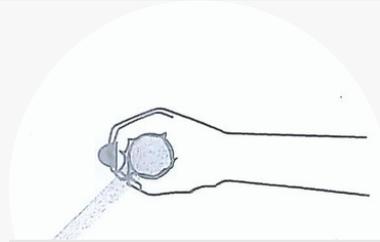
Suggested

Trigger Location:

Rotate triggers to stop users having roll their hand/wrist around the bar to reach the trigger.

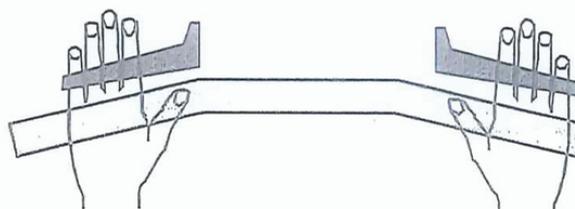


Existing



Suggested

Encourage users to grip the handle towards the end of the handle by moving triggers further out. This helps to keep arms pointing straight ahead rather than elbows being forced out.



Existing

Suggested