



# SUPASWEEPER



## Ergonomic Evaluation of the Supasweeper

**ergonomics** *n.* the study of the relationship between workers and their environment

During the Supasweeper's development, Alpine Pacific Group Ltd commissioned a report from certified ergonomists at Massey University to evaluate how the broom's ergonomic properties minimise the stress on the operator's body.

"Standard broom sweeping requires a semi-stooped and static posture, especially when cleaning large areas. The Supasweeper allows for reduced amount of quasi-static muscular work."

"The use of the Supasweeper is likely to make the sweeping task in large areas less onerous and faster, resulting in less exposure to fatigue-induced musculoskeletal strain."

"When using the Supasweeper, forces used by the body are centred and equalised so that neither side becomes unduly stressed or fatigued – ie neither side of the body needs to work harder than the other. A standard broom requires one side of the body to work harder than the other."

"More sweeping can be done for the same amount of effort with a standard broom. Therefore greater work efficiency and less energy expenditure are possible."

"The Supasweeper allows for the avoidance of stooped working postures and repetitive, loaded twisting trunk movements."



### The report's conclusion states:

"The Supasweeper allows for a good ergonomic fit and is a well designed, simple and innovative alternative to a conventional broom for sweeping large, unobstructed areas. It is also a cost effective alternative to the use of powered floor sweeping machines."

