



Superior hearing protection
Quality without compromise

www.ultimateear.com

CASE STUDY

Cost breakdown:
Disposables vs
ultimate's custom
made hearing
protection

A factory has 300 workers who all work 45 weeks per year

Each worker works 5 days a week , 45 weeks per year, using 2 sets of disposable ear plugs per day (10 a week). Therefore each individual worker uses a staggering 450 units per year. In total, for the entire factory this equates to a staggering 135,000 units per year (450 x 300).

If we assume disposables can be purchased at a cost of £0.10 per unit, the total expenditure for the factory of 300 employees equates to £13,500 (135,000 x .10) for just one year.

When comparing ultimate's hearing protection to disposables , we will be looking at a time period over 5 years as this is how long our products last on average. The Total expenditure for the factory over 5 years if they was to use disposables would be £67,500 (13,500 x 5)

ultimate's custom passive hearing protection equates to around £80 per unit and lasts for 5 years as mentioned. Each worker requires one unit, meaning it would cost this particular factory £24,000 (80 x 300) to supply each of its workers with a set of custom made ear plugs which would last 5 years.

If we compare the two total costs of £67,500 (Disposable) and £24,000 for the custom made hearing protection option, there is a cost saving for this factory of £43,500 for the custom made option. That is a saving of £145 per employee over a five year period.

Table comparison of costs associated with disposables and custom made hearing protection for above case study

Disposables			
Year	Cost per user (£)	Users	Total cost (£)
2018	45	300	13,500
2019	45	300	13,500
2020	45	300	13,500
2021	45	300	13,500
2022	45	300	13,500
			67,500
Custom hearing			
2018	80	300	24,000
2019	0	0	0
2020	0	0	0
2021	0	0	0
2022	0	0	0
			24,000

