

Investment Analyse - Payback

DL 80 - Insomec OT

DETAILED JUSTIFICATION :

Productivity increasing in surfacing.

Producing 2000 pieces/day, the automation of the film releasing and deblocking operations can save 4 people.

Internal Quality improvement

This automation can reduce the reject ratio due to scratches and cosmetic problems because there are less lens handling and better cleaning after polishing. This better cleaning reduce the risk of lens damage due to the fact that the polishing fluid gets dry.

Other benefits

Lean flow (flow by tray) between surfacing and harcoating which reduce the lead time of the process and avoid the possibility of polishing fluid gets dry.

SAVING CALCULATION

HYPOTHESIS

investment amount	96.000	€
quantity of lenses per year	500.000	Lenses
average staff cost per year	25.000	€
depreciation duration	10	years
reduction of staff	4	DL
quality improvement	0,50%	

COSTS

depreciation	9.600	€
Consummables (energy,water, alloy, etc)	2.500	€
maintenance	500	€
labour	107.143	€
Consummables (energy,water, alloy, etc)	0	€
Quality (rejects)	37.500	€

SAVINGS

CALCULATION

TOTAL SAVINGS / YEAR (with depreciation) : 132.043 € \longleftrightarrow **Saving by lens** 0,26 €/lens

CASH FLOW / YEAR (without depreciation): 141.643 €

PAY-BACK TIME : 0,7 years