

BOS Box Opener

Man - Machine - Comparison	Employee	BOS Box Opener 664
Capacity		
Boxes opened per hour (max)	150	600
Boxes opened per day	8	4.800
Days in operation / year	200	250
Capacity: Days in operation x boxes per day	240.000	1.200.000
Ratio	1	5,0
Costs		
BOS purchasing price		130.000
Accessories, transport, installation, orientation		10.000
Total		140.000
Full amortization: 8 years, 6 % interest	<i>monthly</i>	1.840
	<i>yearly</i>	22.080
Materials (blades)	<i>yearly</i>	3.000
Energy usage	<i>yearly</i>	600
Version without maintenance	<i>yearly</i>	25.680
Costs	<i>yearly</i>	22.080
Full service maintenance (incl. Blades)	<i>yearly</i>	11.760
Energy usage	<i>yearly</i>	600
	<i>monthly</i>	2.870
Version incl. Maintenance	<i>yearly</i>	34.440
Monthly wages - 168 hrs at \$8.50	\$	1.430
Social contributions / personnel costs	70%	1.001
<i>monthly sum</i>	\$	2.431
Monthly costs for all employees	5,0	12.155
Annual costs for one employee	\$	29.172
Annual costs for all employees	5,0	145.860
Savings/year (incl. Maintenance)		\$111.420,00 = 76%
Cost per box in cents	12,2	2,9
Work safety		
Physical stress	yes	no
Risk of injury	yes	no
Risk of damaging goods	yes	no
Work-related injury insurance	yes	-
Processing of the boxes	chaotic	chaotic
Management / Accounting / HR	burden	relief