

## BUSINESS CASE MACHINE CLEANING

Explanation: Pls fill in blue cells only.

### Auxiliary Calculation

Monthly salary	€ 3.000
Salaries per year	13
Incidental wage costs	20%
Annual salary costs, total	€ 46.800
Workhours per week	40
Weeks worked in a year	44
Annual workhours	1.760
<b>gives: (full) salary costs, internal, per hour</b>	<b>26,59 €</b>
<b>alternative: costs for external service provider, per hour</b>	<b>25,00 €</b>

Assumption  
Assumption  
full cost basis  
= 52w - 6w vacation - 2w holidays

on the right, pls enter 1 if internal and 2 if external service provider **1**

### COST OF MACHINE CLEANING, MANUAL

Number of machines  
Hours to clean one machine  
Cleaning every X months  
(Full) salary costs per workhour (internal or external)  
Cost cleaning material - rags, cleaning agent  
**gives: Costs for machine cleaning - manual**

	5
	4
	1
€	26,59
€	50,00
<b>€</b>	<b>9.382</b>

machines  
hours per machine  
months, i.e. 12 x p.a.  
per hour  
per cleaning per machine  
**per year**

### COST OF MACHINE CLEANING, PH-CLEANTEC

Number of machines  
Hours to clean one machine  
Cleaning every X months  
(Full) salary costs per workhour (internal or external)  
Energy costs  
**gives: Costs for machine cleaning - with ph-cleantec**

	5
	1
	1
€	26,59
€	5,00
<b>€</b>	<b>1.895</b>

machines  
hours per machine  
months, i.e. 12 x p.a.  
per hour  
per cleaning per machine  
**per year**

### ANNUAL SAVINGS DUE TO PH-CLEANTEC - WORKHOURS

Costs manual cleaning  
Costs cleaning with ph-cleantec

€	9.382
€	1.895
<b>€</b>	<b>7.486</b>
	<b>180</b>

**Savings**

this is equivalent to

**Euros per year**  
**hours per year**

### COST OF MACHINE DOWN TIME WHILE CLEANING

Number of machines  
Costs down time per machine per hour  
Hours to clean one machine - manual  
Hours to clean one machine - with ph-cleantec  
Cleaning every X months  
Costs machine down time - total  
Costs machine down time - total

	5
€	100,00
	4
	1
	1
€	24.000
€	6.000
<b>€</b>	<b>18.000</b>

machines  
per hour  
months, i.e. 12 x p.a.  
manual  
with ph-cleantec  
**per year**

**Savings**

### AMORTISATION

Purchasing cost ph-cleantec  
Savings per year - work hours = 5 x 3h x 12 cleanings p.a.  
Savings per year - machine down time

€	4.990
€	7.486
€	18.000
<b>€</b>	<b>25.486</b>
	<b>2,35</b>

model 1000 SRE  
= 22,5 man-days p.a.  
**per year**  
**months**

### FURTHER ADVANTAGES

**Lower maintenance costs**  
**Reduced down times due to machine faults**  
**Longer life span of tooling machines**