

**Benefit from reduction of over coating**

You can online monitor the thickness and deposition rate with *dresor EL* during the metal plating. Thus you can specifically adjust the thickness by using of *dresor EL* in electroless nickel plating processes. So you can avoid over coating.

You can calculate cost savings that can be achieved through avoiding of over coating by specifying of the operation parameters (on top in the middle) and by entering the following parameters.

Volume of the plating tank	▶	L	
Goods area	▶	m <sup>2</sup>	
Deposition rate	▶	µm/h	
Plant utilisation	?	▶	%
Costs of deposition of 1 µm electroless nickel	?	▶	€/m <sup>2</sup>
Reduction of coating by	?	▶	%

reset

Calculation »

Operation time - daily	?	▶	h
Operation days - weekly	?	▶	d
Operation weeks - annually	?	▶	w

**Benefit from replacement of manual samples**

You can substitute the measurements of deposition rate with manual samples by using of *dresor EL*. The usual process monitoring during electroless nickel plating causes costs that can be reduced by measuring with *dresor EL*.

You can calculate cost savings by specifying of the operation parameters (on top in the middle) and by entering of the following parameters.

Personnel costs per hour	?	▶	€
Acquisition costs per manual samples	▶	€	
Number of saved manual samples per working shift	?	▶	pcs.
Reduction of expenditure of time for handling of manual samples (Preparation, application, evaluation) per working shift	?	▶	min

reset

Calculation »

**Benefit from reduction of over coating**

**RESULTS**

**Benefit from replacement of manual samples**

Bath loading (ratio of working piece surface to tank volume)	?	dm <sup>2</sup> /L
Deposition thickness on the work per hour	?	µm
Saved costs of coating per hour		€
Operation time per week		h
Number of necessary Somonic-probes per week		pcs.
Operating costs of Somonic-probes per week	?	€
Cost savings through reduction of over coating per week	?	€

« change parameter

**Cost savings through reduction of over coating per year** ? €

**Costs savings of both effects per year**

**Manual samples**

**Somonic -probes**

pcs.	Number of manual samples/ Somonic-probes per week	pcs.
€	Material costs per year	€
€	Personnel costs per year	€
€	Total costs per year	€

Costs savings through replacement of manual samples per week ? €

« change parameter

**Costs savings through replacement of manual samples per year** ? €

**Costs savings of both effects per year**