Next Generation All-Round Machining Fluid

Strong Alkaline Electrolyzed Water Generator Re-AL

Excellent in cooling capability, permeability, lubricating property, and rust-preventing property

POINT 1
Tool purchasing cost decreases by half

POINT 2
3 times faster machining

POINT 3
No waster liquid is discharged

Excellent in preservation property, deodorization ability, detergency, and anti-bacterial effects

Running costs

<table>
<thead>
<tr>
<th>Expense item</th>
<th>Before introduction</th>
<th>After introduction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost for purchasing tools</td>
<td>1,000,000 yen a year</td>
<td>500,000 yen a year</td>
</tr>
<tr>
<td>Cost for machining fluid</td>
<td>4,680,000 yen a year</td>
<td>1,800,000 yen a year</td>
</tr>
<tr>
<td>Cost for Re-AL Water</td>
<td>56,000 yen a year</td>
<td>9,800 yen a year</td>
</tr>
<tr>
<td>Cost for waste liquid</td>
<td>885,000 yen a year</td>
<td>0 yen a year</td>
</tr>
<tr>
<td>Electricity expense</td>
<td>9,800 yen a year</td>
<td>9,800 yen a year</td>
</tr>
<tr>
<td>Total</td>
<td>6,565,000 yen</td>
<td>2,365,800 yen</td>
</tr>
</tbody>
</table>

Reduction of approx. 4,200,000 yen a year

64% of cost reduction

* Calculated in Japanese yen
Automobile manufacturer: Tool grinding
Automobile parts machining: Lathe
Joint manufacturer: Lathe
Cutting instrument manufacturer: Lathe, MC
Rotary press manufacturer: MC, lathe, surface grinding, cylindrical grinding
Gear wheel manufacturer: Hobbing, rack milling, lathe
Machine tool parts machining: Surface grinding, cylindrical grinding
Precision component machining: MC, lathe, surface grinding

Comments from users
- Service lives of tools have been doubled.
- The time taken for cutting has reduced to one-third.
- The time taken for grinding has reduced to one-half.
- Machining is complete in one session without offset, reducing time required.
- Burrs can now be suppressed, which allows spare time to be used for other tasks.
- Successful heat change suppression reduces changes in dimensions after machining.

Benefits from introducing Re-AL

- Longer service lives of tools
- Faster machining speed
- Prevention of greasy dirt in working environment
- Prevention of foul odor from waster liquid
- Reduction in waste liquid cost
- Improvement of grinding stone chip clogging in grinding machines

What is Re-AL Water X?

Next generation water-soluble machining fluid made of Strong Alkaline Electrolyzed Water (Re-AL Water) with a small amount of oil (TPP-X)

This is how Re-AL Water X is generated.

“Re-AL Water X” is a water-soluble machining fluid made by adding TPP-X(oil) into Strong Alkaline Electrolyzed Water

Successful introduction

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Automobile parts machining: Lathe
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Specifications

- Raw material: Drinkable tap water*
- Raw water temp: 15 to 35°C
- Raw water pressure: 0.1 to 0.5 Mpa
- Ambient temp: 10 to 30°C
- Filter: Pre-filter x 1, Carbon filter x 1, RO membrane x 1
- Pump: 100 VAC 0.2 kW
- Electrolyte: Potassium carbonate (K2CO3)
- Production capacity: 36 L/hour
- Water Quality: pH12.0 to 12.5 (25°C±3%)
- Power supply: Single phase 100 VAC (200 VAC, optional)
- Additive (TPP-X): 200L
- Reserving tank: 500L

* Pretreatment equipment is required when undrinkable water is used.

First, try Re-AL for one of your machine tools.

Distributor:

Inquiry about demonstration at this number.