

# Long-awaited Equipment !! Remove bad odor from cutting oil !

Monthly electricity charge is only

**32.5 Yen!**

\*Per 1m<sup>3</sup> of water

## Water-soluble Cutting Fluid Deodorization System

### Model IDJ-CuI

CLEVER SYSTEM®

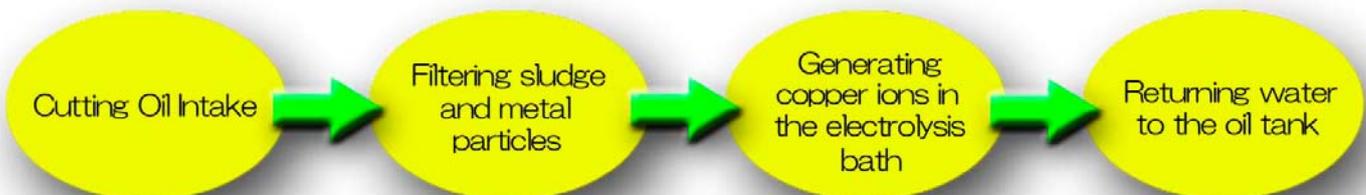
### Causes of bad odors

Increase in water temperature during the machining creates an optimal living environment for fungi in water soluble cutting fluids which are used for improving the machinability and cooling down the cutting tools. At the same time, the splashes of the cutting fluids come in contact with unwanted bacteria in the air and the fungi in the fluids rapidly grow its number, causing strong septic odor or mold odor.

### Effects

By putting the copper ions generated by electrolysis into water-soluble cutting oil, the deodorization effect is produced.

### Operation Flow



The sterilization effect is produced about 2 to 7 days after the system is activated and as the water-soluble cutting fluid and copper ions are mixed. (The effect varies, depending on the environment temperature and capacity of the oil tank.)

## CAUTIONS

- It is not applicable for the water-soluble fluid containing more than 15% of the cutting oil and thick cutting fluid. Use the water-soluble cutting fluids diluted at least 8.5 times within the specified range.
- Accessory filtering cartridge is inserted to prevent wear of the circulation pump inner impeller caused by sludge and metal chips in the cutting fluid. It is not for filtering the cutting fluid.
- No water/oil splashing

## Machine Specifications

|                          |  |
|--------------------------|--|
| Operation hours:         | Specified using the timer.<br>(Default: 2-min operation [green], 1-hour stop [red])  |
| Machine size             | D360*W720*H360   |
| Weight                   | 24Kg   |
| Power                    | Single-phase 200V 200w/h Max<br>8 hours of operation 54 to 200w/h/D (variable)   |
| Copper ion concentration | Specified using the timer (Approx.0 to 10ppm/L)  |
| Electrolysis current     | VOL variable LED indicator (Green, Yellow, Red)  |
| Electrical conductivity  | Within 700 to 18,000 $\mu$ S/Cm  |
| Connection pipe diameter | 20A  |
| Connection pipe          | Oil resistant tubes  |
| Filter paper size        | Before 100 $\mu$   |
| Filter paper             | 10" filter cartridge (commercially available)  |
| Cutting fluid component  | Water 8.5: oil 1.5, water-soluble fluid diluted at least 8.5 times (Processing is not available if there is too much oil.) |
| Water temperature        | Within 15°C to 40°C  |

## Maintenance

1. Regular replacement of the filter paper cartridge
2. Only when the electrical current indicator LED becomes drastically low, clean the surface of the electrodes.

Appearance and specifications are subject to change without a prior notice.  
CLEVER SYSTEM is registered trademark of IGADEN Co., Ltd.

### ■ Manufacturer

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