

Remove & Prevent Rust While Protecting Metal Surface!!

# *For wire EDM*

## Anticorrosion for Work-Piece

- MECHA P COAT
- MECHA P-700

## Anticorrosive Additive Solution

- MECHA PROOF W-2K

## Rust Remover for Work-Piece

- KC-12
- KC-12A
- RUST REMOVER K-200

## Anticorrosive Neutraliser

- MECHA HIBITOR #325
- MECHA HIBITOR #23
- METAL ALL IH-A
- CP-4000
- CP-CU

## Wire Guide Cleaner

- MECHA SLUDGE CLEANER
- RUST REMOVER K-200



### Before wire EDM process

#### Anticorrosion for Work-Piece

##### ● MECHA P COAT

**Mecha P Coat** is a very powerful anticorrosive agent. It prevents rust by generating an oil base film.

It is very easy to use. Adjust a metal work-piece on a work table. Shake the can of **Mecha P Coat** well, then spray evenly over the work-piece and wait for 10 minutes or more.

**Mecha P Coat** prevents rusting of work-piece surfaces during the Wire EDM process and it can be easily degreased by hydrocarbon solvent.



Mecha P Coat



Spray **Mecha P Coat**



Before wire EDM process



Difference after the process

##### ● MECHA P-700

**Mecha P-700** has the same effect with **Mecha P Coat**.

It is a paste type and is applied to the metal surface using a brush.



Mecha P-700

#### Anticorrosive Additive Solution

##### ● MECHA PROOF W-2K

**Mecha Proof W-2K** is effective anticorrosive additive solution for work-pieces. Because it is additive, it is easy to use and saves excess labour. As **Mecha Proof W-2K** does not contain high viscous materials, it is smooth like water therefore machine friendly (viscosity 4.6 mPa·s).

Also **Mecha Proof W-2K** is economical because it is effective even at low concentration. In the case of the immersion type, the amount required is about 0.3% of tank volume and in the case of the flushing type it is about 0.5%. Instead of putting full strength **Mecha Proof W-2K** directly into the coolant, we recommend mixing it with water first to set the liquid, and then adding it to the coolant for even spread. Before processing, ensure to remove ion exchange resin and circulate the fluid in the reservoir for more than 20 minutes. This is because high concentration of **Mecha Proof W-2K** may damage ion exchange resin.



Mecha Proof W-2K



Addition of **Mecha Proof W-2K**



Wire EDM processing



Difference after the process

### After wire EDM process

#### Rust Remover for Work-Piece

##### ● KC-12

**KC-12** is a safe strong rust remover, commonly used as fine finishing agents. The concentration will depend on the rust condition of the work-piece (maximum 10 times dilution).

Soak the rusted work-piece into rust remover **KC-12** for 5 to 10 minutes. **KC-12** will gradually react with the rust. If you prefer to increase the rust removing rate, increases the concentration of the solution, put under higher temperature (below 40 °C) or use an ultrasonic cleaner. Wash immediately with water after this process.

Then soak the work-piece in anticorrosive neutraliser **Mecha Hibitor #325** 20 time diluted solution. As **KC-12** is acidic (pH less than 1), **Mecha Hibitor #325** will neutralise the work-piece and prevents it from rusting. Take out the work-piece and dry using rags or an air blower. Once discolouration occurs on work-piece during the process, replace the contents with new **KC-12**. **KC-12** enables rust removal without damaging the metal surface. Also it has long duration of rust removal properties.



KC-12



Rusted work-piece



Soak into **KC-12**



Rinse with water



Immerse into **Mecha Hibitor #325**



After this process

##### ● KC-12A

**KC-12A** is a specific rust remover for copper.

##### ● RUST REMOVER K-200

The difference between **KC-12** and **Rust Remover K-200** is that **KC-12** focuses on removing rust. **Rust Remover K-200** is not a strong rust remover as **KC-12**, but it contains other effects such as degreasing, anticorrosion and sludge cleaning.



Rust Remover K-200

#### Anticorrosive Neutraliser

	Type	Application
● <b>MECHA HIBITOR #325</b>	Water Soluble	Ferrous Metal
● <b>MECHA HIBITOR #23</b>	Water Soluble	Copper, Copper Alloys
● <b>METAL ALL IH-A</b>	Water Soluble	Iron, Aluminium, Copper, Cemented carbide
● <b>CP-4000</b>	Oil Based	Ferrous Metal
● <b>CP-CU</b>	Oil Based	Copper, Copper Alloys

**Mecha Hibitor #325** and **#23** are most suited for ferrous metal and copper. **Metal All IH-A** can be applied on different kinds of metals, however it is not as strong as **Mecha Hibitor #325** or **#23**. These water soluble agents are used for temporal anticorrosion.

**CP-4000** and **CP-CU** are oil based agents, therefore these have more powerful anticorrosive effect, and these are used for long term anticorrosion. **CP-CU** is a specific anticorrosive agent for copper.

All rust removers can be used same ways as **KC-12**. Also water soluble neutralisers and oil based agents can be used same ways as **Mecha Hibitor #325** and **CP-4000**.



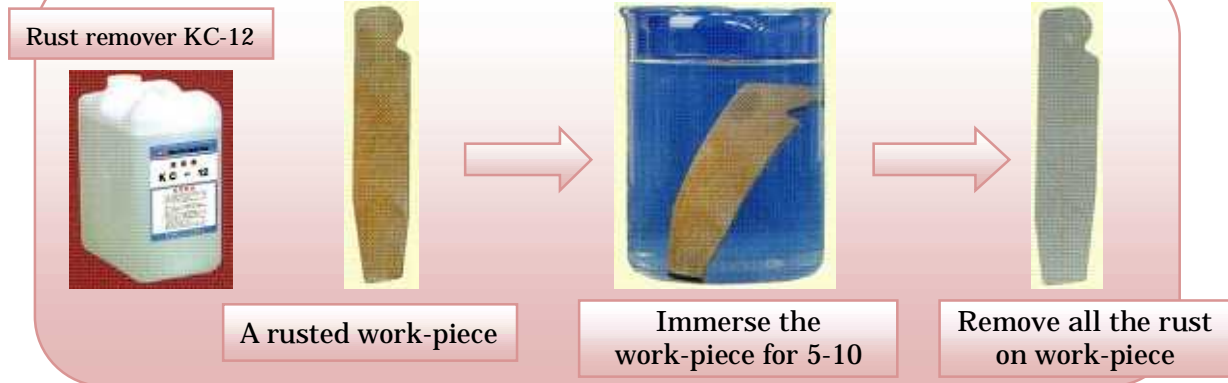
Anticorrosive Neutraliser

After wire EDM process

# Rust removal and Anticorrosion

After wire electrical discharge process

The procedure of rust removal by KC-12



【Caution】 Do not use metal containers.

Rinse with water



**Machine maintenance**

**Wire Guide Cleaner**

● **MECHA SLUDGE CLEANER**

As you are all aware, sludge and dirt build-up on the wire guide and other parts during continuous wire EDM processing. This build-up decreases accuracy and increases the possibility of wire breakage, which influence product finishing.

**Mecha Sludge Cleaner** is an effective machine maintenance agent.

**Mecha Sludge Cleaner** is pH neutral (pH 6.0), therefore it will not damage resin and rubber inside the machine. Also, the cleaning process can be done without removing the wire guide, which takes away the need to readjust after maintenance.

It is very easy to use. Shake a few times and spray on the wire guide. Make sure to place a rag under the wire guide to avoid accidental mixture with reservoir. Wait for 1-3 minutes. Then remove **Mecha Sludge Cleaner** by wipe, rinse, and blow.



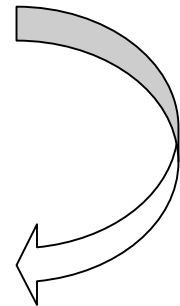
Before maintenance



Shake and spray



Wipe



After maintenance



Blow



Rinse

● **RUST REMOVER K-200**

The biggest difference between **Mecha Sludge Cleaner** and **Rust Remover K-200** is the fact that **Rust Remover K-200** is acidic (pH less than 1). Because of its acidity, **Rust Remover K-200** is a stronger cleaning agent. However, from the same reasons, preventing accidental mixture of **Rust Remover K-200** into the reservoir, the wire guide needs to be removed before this cleaning process.



Metal surface protection is our higher priorities along with rust removal and prevention. We believe that our products meet the wants and needs of our customers and the marketplace. We will be more than happy to send you any additional information upon request. We look forward to your enquiries.

Remove & Prevent Rust While Protecting Metal Surface!!

***For wire EDM***

**For wire guide**

Wire Guide cleaner

- MECHA SLUDGE CLEANER
- RUST REMOVER K-200

**For work-piece**

Anticorrosion

- MECHA P COAT
- MECHA P-700

Rust remover

- KC-12
- KC-12A
- RUST REMOVER K-200

Anticorrosive neutraliser

- MECHA HIBITOR #325
- MECHA HIBITOR #23
- METAL ALL IH-A
- CP-4000
- CP-CU

**For work tank**

Anticorrosive additive solution

- MECHA PROOF W-2K



- DEALER -

- MANUFACTURER -



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