

IsoUs – Ultimate Step  
Plugin – Work Origins

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Motion  
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# 1 Work Origins

Work Origins allows manual managing of the **WORK ORIGINS**.



Work Origins Managing

Origin Index    Actual Position    From Value    Reset Origins    From Files

         
    Setted   

Origin Value

X	100
Y	200
Z	300
A	400

## 1.1 Plugin Using

The **WORK ORIGINS**, are very important in the Gcode file execution.

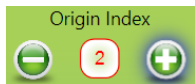
These allow to work the Gcode file in different positions on the **WORK PLANE**.

IsoUs can use up to **256 DIFFERENT ORIGINS** which can be called by Gcode with function **G54**, or this Plugin.

The **ORIGINS VALUES**, are saved automatically in the **"ZERI.VAL"**, therefore is sufficient to copy this file in a new IsoUs installation, to get all origins. Work Origins allows to activate new **ORIGINS** manually, but these will be **SAVED** in the file **"ZERI.VAL"** only if is inserted the **PASSWORD LEVEL 2**

### 1.1.1 Activate an Origin by Index

Can be used up to **256 DIFFERENT ORIGINS**. These are activated by **BUTTONS**:



Choose the desired **ORIGIN INDEX** and confirm by **BUTTON OK**:



The selected origin will be activated and confirmed in the following field:



The **ORIGINS VALUES** are showed in the fields:

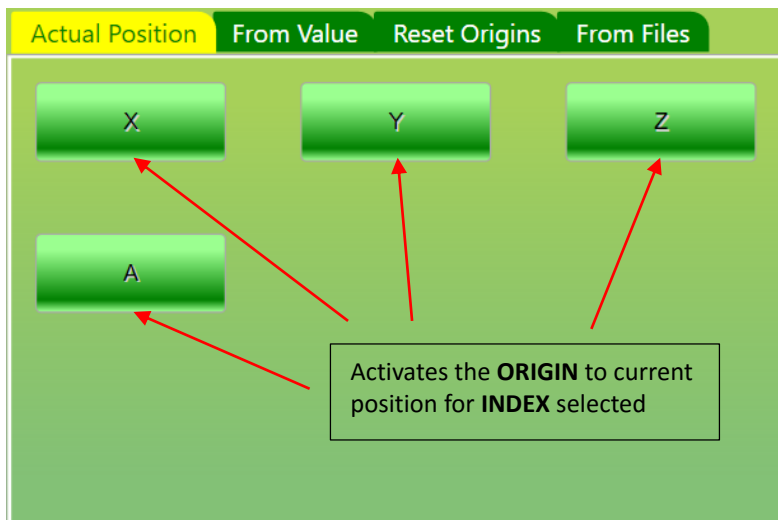
Origin Value	
X	1000
Y	2000
Z	3000
A	4000

### 1.1.2 Set an Origin from Current Axes Position

In some situations, is necessary set the **ORIGIN** from **CURRENT AXES POSITIONS**.

Therefore select the **TAB "Actual Position"**

The new **ORIGINS**, will be saved in the file **"ZERI.VAL"** only with if inserted the **PASSWORD LEVEL 2**

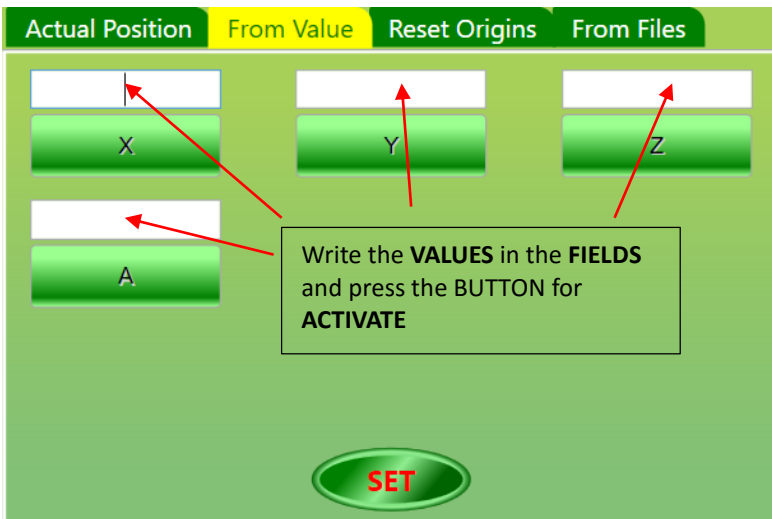


### 1.1.3 Set an Origin from Value

The **ORIGINS** can be set by **DIRECT VALUE**, without move the axes in the origin position.

Therefore select the **TAB "From Value"**

The new **ORIGINS**, will be saved in the file **"ZERI.VAL"** only with if inserted the **PASSWORD LEVEL 2**



For this operation there are **2 MODE** for **ORIGIN VALUE**:



Push for toggle

**"SET"** , the Axis will get the **ORIGIN FROM VALUE WRITTEN IN THE RELATIVE FIELD.**



Push for toggle

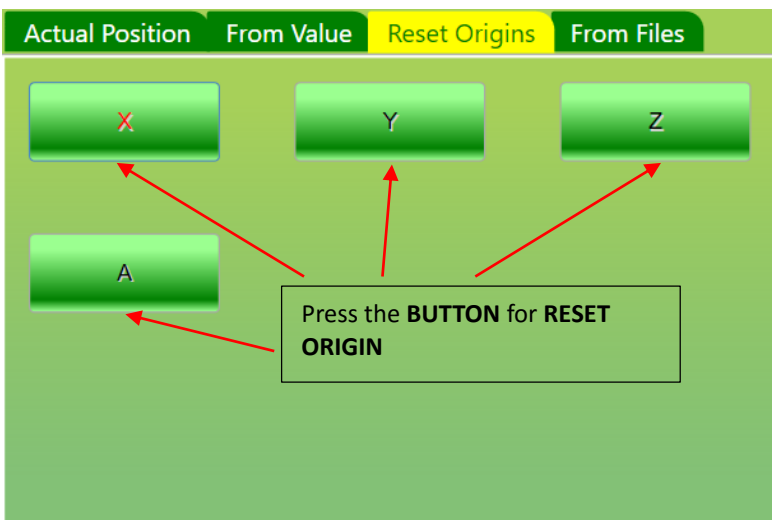
**"PRESET"**, The Axis **WILL TAKE THE CURRENT POSITION EQUAL TO VALUE WRITTEN IN THE RELATIVE FIELD.**

The **ORIGIN** will not be set to value written in the field, but to a **DIFFERENT VALUE** so that the Axis will get the **CURRENT POSITION** equal to value written.

### 1.1.4 Origin Reset

This operation **RESET** the **WORK ORIGIN.**

Therefore select the **TAB "Reset Origins"**

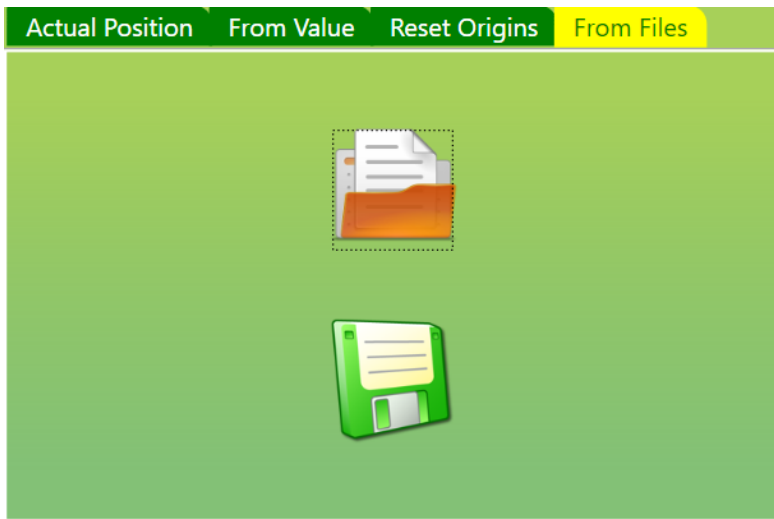


### 1.1.5 Manage Origins File

Can be saved the many **ORIGINS FILE** .

For use this function, must be inserted the **PASSWORD LEVEL 2**

Therefore select the **TAB "From Files"**



Load an **ORIGIN FILE**



Save the current **ORIGIN** in a **FILE**

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