

SGEMCShelper Users Manual

SGEMCShelper Ver. 2.00



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1. Overview

“SGEMCSHelper” is the software for creating an instruction file simply used by measurement in Excel instruction mode of “SGEMCS”.

There are two functions, a helper of Excel instruction file creation and a helper of Excel instruction file command deployment, in "SGEMCSHelper."

◆ Helper of Excel instruction file creation

By specifying the measurement range and a measurement pitch, the instruction file for the move pattern which the X-axis and the Y-axis of an automatic stage move in the shape of a lattice can be created.

By specifying two or more central coordinates of lattice-like measurement area, two or more move patterns with which central coordinates differ in the same measurement range and measurement pitch can be created.

By specifying two or more starting point coordinates of lattice-like measurement area, two or more move patterns with which starting point coordinates differ in the same measurement range and measurement pitch can be created.

◆ Helper of Excel instruction file command deployment

By specifying an instruction file name and the command for a control device, the instruction file which multiplied the command for a control device by the contents of an instruction file can be created.

It not only inputs the command for a control device from a screen, but it can save it beforehand at a text file.

2. Operation

2.1 Main Dialog

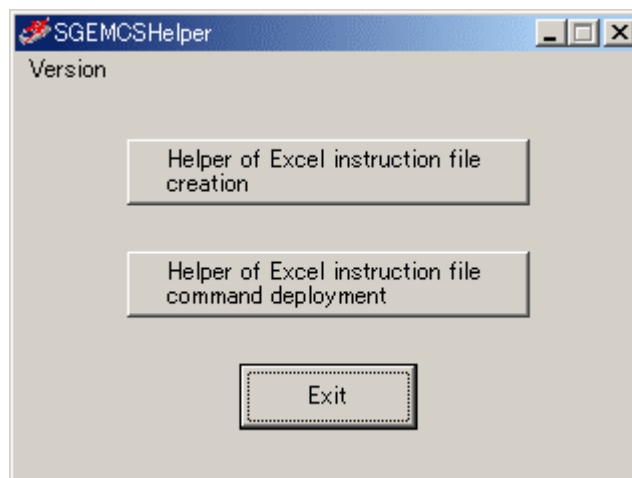


Fig.2-1 Main dialog

1 Version

Click the Version menu to display the version of “SGEMCSHelper”.

2 “Helper of Excel instruction file creation” button

Click to show the Helper of Excel instruction file creation dialog.

3 “Helper of Excel instruction file command deployment” button

Click to show the Helper of Excel instruction file command deployment dialog.

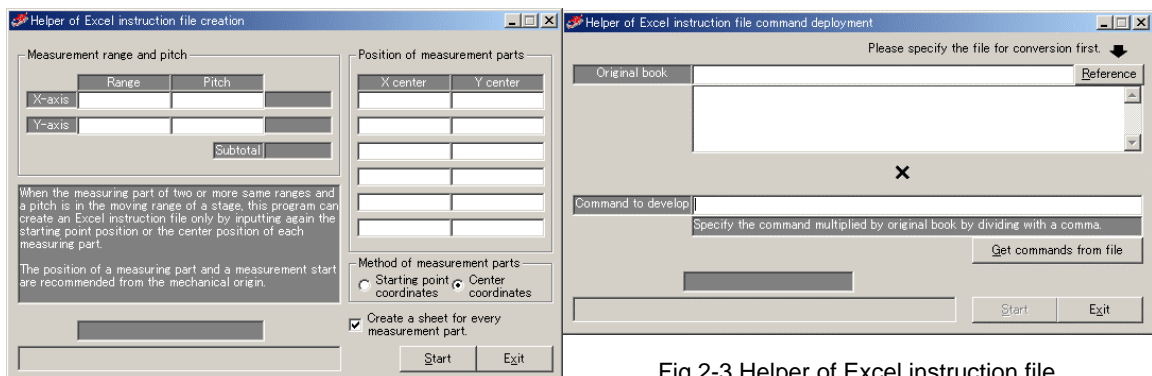


Fig.2-2 Helper of Excel instruction file creation dialog

Fig.2-3 Helper of Excel instruction file command deployment dialog

4 “Exit” button

Click to exit SGEMCSHelper.

2.2 Helper of Excel instruction file creation Dialog

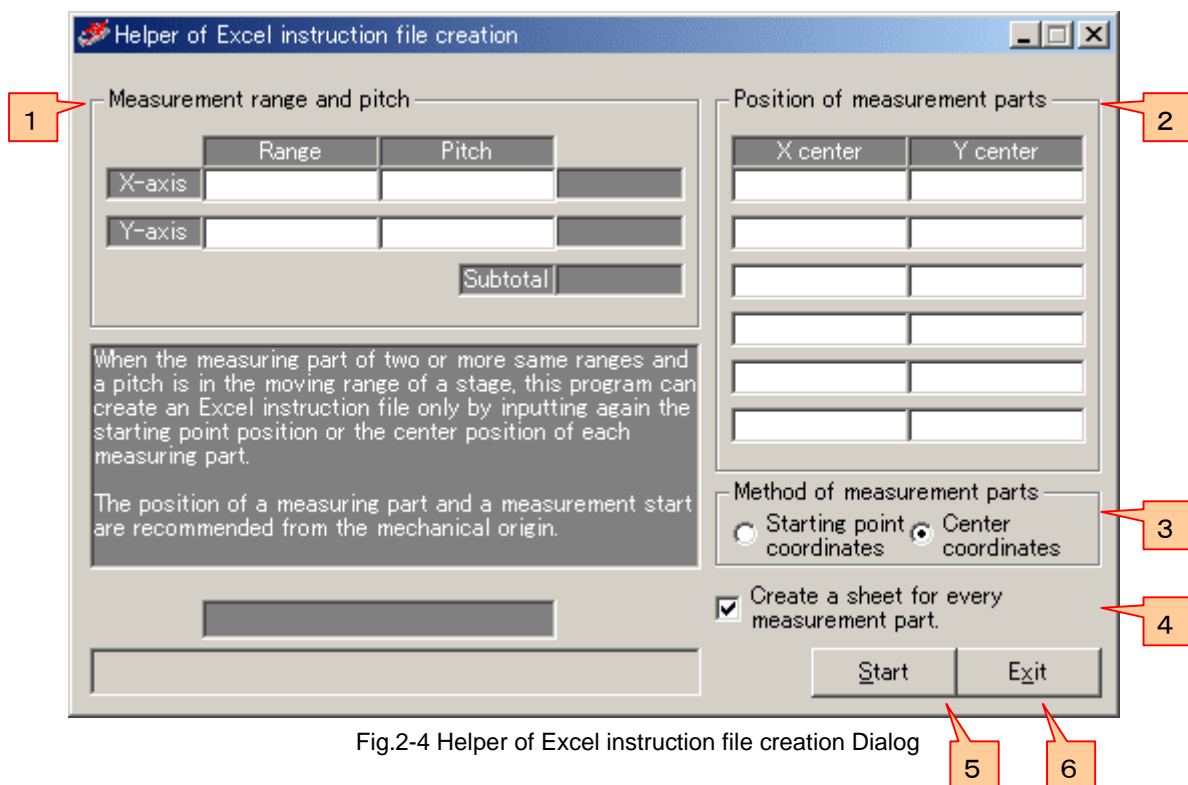


Fig.2-4 Helper of Excel instruction file creation Dialog

1 Measurement range and pitch

Input the measurement range and measurement pitch which move on an automatic stage.

Input one of the X-axis and the Y-axes, or both.

If both axes are inputted, a lattice-like move pattern can be created.

measurement range : Input positive numbers other than zero.

Input the number more than the absolute value of a measurement pitch.

measurement pitch : Input numbers other than zero.

(A positive number and a negative number can be inputted.)

If the measurement range and a measurement pitch are inputted, the number of move points of the X-axis and the Y-axis and the number of move points which multiplied these will be displayed.

	Range	Pitch	
X-axis	100	50	3
Y-axis	200	50	5
Subtotal			15

Fig.2-5 Specify the Measurement range and pitch

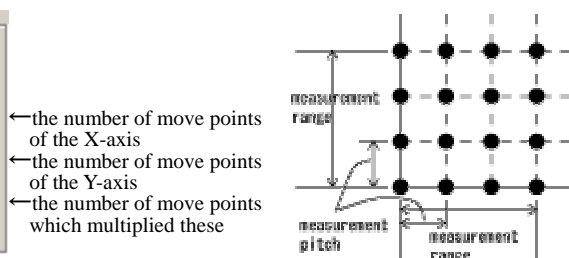


Fig.2-6 Measurement range and pitch

2 Position of measurement parts

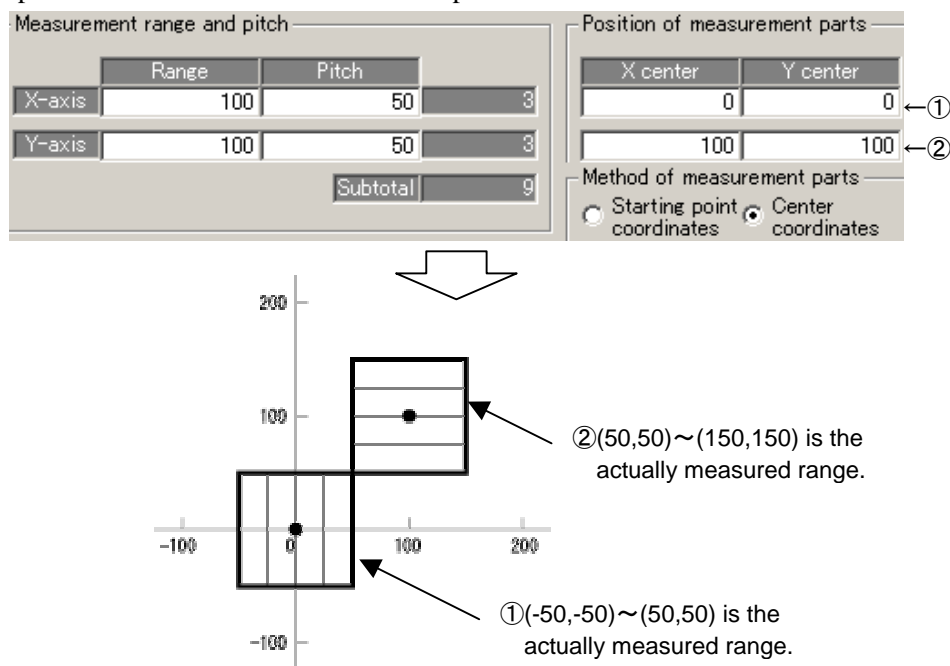
Input the starting point coordinates or the center coordinates of the measurement parts (specified by ①).

Choose which coordinates are inputted by the specification method of measurement parts. (③)

The measurement parts can be specified to six places.

If two or more measurement parts are specified, the same move pattern can be created in two or more coordinates positions.

Example 1 : When center coordinates were specified



Example 2 : When starting point coordinates were specified

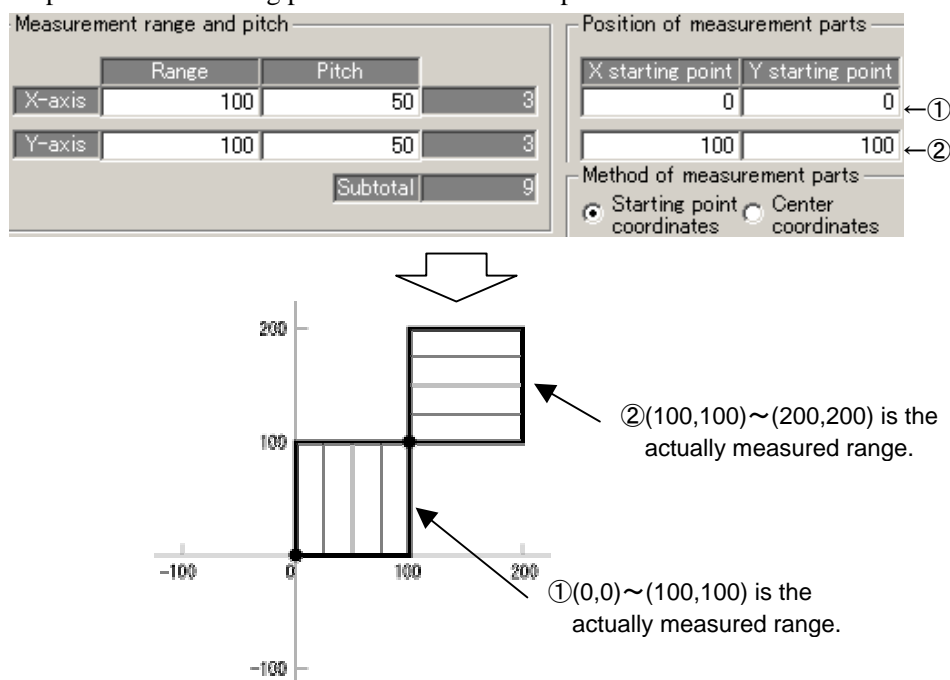


Fig.2-7 Position of measurement parts

3 Method of measurement parts

Choose whether the positions of the measurement part specified by **2** are starting point coordinates, and whether they are center coordinates.

4 Create a sheet for every measurement part

When two or more measurement parts are specified by **2**, specify whether creating the instruction sheet of Excel for every measurement part or one instruction sheet is created.

Not checked : An instruction file is created with one sheet.

Checked : An instruction file is created with two or more sheets.

Example 1 : When not checked

Measurement range and pitch

	Range	Pitch	
X-axis	100	50	3
Y-axis	100	50	3
			Subtotal
			9

Position of measurement parts

X center	Y center
0	0
100	100

Method of measurement parts

☐ Starting point coordinates ☒ Center coordinates

Convert

	A	B	C
1	X-Axis	Y-Axis	Measure
2	-50	-50	
3	0	-50	
4	50	-50	
5	-50	0	
6	0	0	
7	50	0	
8	-50	50	
9	0	50	
10	50	50	
11	50	50	
12	100	50	
13	150	50	
14	50	100	
15	100	100	
16	150	100	
17	50	150	
18	100	150	
19	150	150	
20			

Instruction / Sheet2 / Sheet3 /

Example 2 : When checked

Measurement range and pitch

	Range	Pitch	
X-axis	100	50	3
Y-axis	100	50	3
			Subtotal
			9

Position of measurement parts

X center	Y center
0	0
100	100

Method of measurement parts

☐ Starting point coordinates ☒ Center coordinates

Convert

	A	B	C
1	X-Axis	X-Axis	Measure
2	-50	-50	
3	0	-50	
4	50	-50	
5	-50	0	
6	0	0	
7	50	0	
8	-50	50	
9	0	50	
10	50	50	
11			

Instruction1 / Instruction2 / Sheet3 /

	A	B	C
1	X-Axis	Y-Axis	Measure
2	50	50	
3	100	50	
4	150	50	
5	50	100	
6	100	100	
7	150	100	
8	50	150	
9	100	150	
10	150	150	
11			

Instruction1 / Instruction2 / Sheet3 /

Fig.2-8 Create a sheet for every measurement part

5 “Start” button

Click to start conversion. An Excel instruction file is created.

6 “Exit” button

Click to exit this dialog and go back to main dialog.

2.3 Helper of Excel instruction file command deployment Dialog

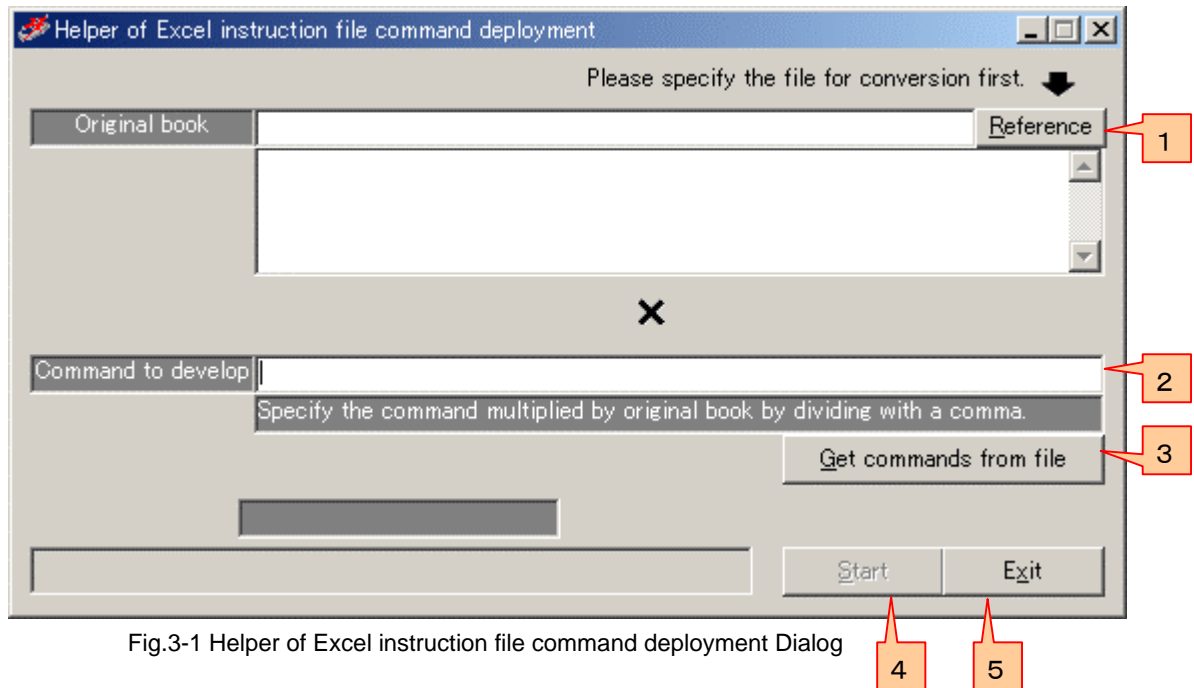


Fig.3-1 Helper of Excel instruction file command deployment Dialog

1 “Reference” button

Click to show the dialog for specification of an instruction file. And specify an Excel instruction file made into the origin of conversion.

Then a name of specified instruction file and the number of instruction sheets, columns for control, and rows are displayed.

2 Command to develop

Input the command for control device multiplied by the instruction of the original book.

Two or more commands can be inputted by dividing with a comma.

3 “Get commands from file” button

Although the command for control device can be directly inputted into [2](#), it can also save beforehand at a text file.

Click this button to show the dialog for specification of a text file. And specify a text file.

Then commands are read from the text file and they are displayed on the “Command to develop”.

* In a text file, when you specify two or more commands for control device, specify those commands by dividing with a comma.

Moreover, specify the commands by one line without starting a new line. Only the 1st line is read even if it starts a new line.

4 “Start” button

Click to start conversion. An Excel instruction file is created.

Example :

The contents of original book

	A	B	C
1	X-Axis	Y-Axis	Measure
2	50	50	
3	100	50	
4	150	50	
5	50	100	
6	100	100	
7	150	100	
8	50	150	
9	100	150	
10	150	150	
11			

Command to develop

Command to develop RED,BLUE,GREEN

Convert

Conversion result

	A	B	C	D
1	X-Axis	Y-Axis	Control D	Measure
2	50	50	RED	
3	50	50	BLUE	
4	50	50	GREEN	
5	100	50	RED	
6	100	50	BLUE	
7	100	50	GREEN	
8	150	50	RED	
9	150	50	BLUE	
10	150	50	GREEN	
11	50	100	RED	
12	50	100	BLUE	
13	50	100	GREEN	
14	100	100	RED	
15	100	100	BLUE	
16	100	100	GREEN	
17	150	100	RED	
18	150	100	BLUE	
19	150	100	GREEN	
20	50	150	RED	
21	50	150	BLUE	
22	50	150	GREEN	
23	100	150	RED	
24	100	150	BLUE	
25	100	150	GREEN	
26	150	150	RED	
27	150	150	BLUE	
28	150	150	GREEN	

Fig.3-2 The example of conversion

5 “Exit” button

Click to exit this dialog and go back to main dialog.