



\ SCIA ENGINEER TUTORIAL Input table All information in this document is subject to modification without prior notice. No part of this manual may be reproduced, stored in a database or retrieval system or published, in any form or in any way, electronically, mechanically, by print, photo print, microfilm or any other means without prior written permission from the publisher. SCIA is not responsible for any direct or indirect damage because of imperfections in the documentation and/or the software.

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# Table of Contents

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Table of	Cont	ntents	
Introduc	tion.		4
Chapter	1:	Opening the input table	5
	1.1. 1.2. 1 3	Minimize/maximize Move Pin/floating	
Chapter	2:	Data	
	2.1. 2.2. 2.3. 2.4.	Available data Viewing and hiding properties Selecting elements Editing data	
	2.	2.4.1. Editing one value	11
	2. 2.	2.4.2. Editing multiple values	
	2.4 <b>2.5</b> .	2.4.4. Copying an element Viewing and hiding elements	14 <b>14</b>
	2.6. 2.7.	Deleting elements Printing data	

# Introduction

The input table enables the user to numerically introduce or edit project data. Numerical data can also be handled simply by a Copy/Paste from SCIA engineer into Excel and vice versa.

Through this document, you will be guided into de different possibilities offered by this functionality such as:

- Numerical input of data or copy/paste Excel
- Renaming or renumbering elements
- An easy way to adapt the model (copy, delete, edit properties...)
- ...

# Chapter 1: Opening the input table

This tutorial uses a simple example to show the different functionalities. Start by opening SCIA engineer and draw a 1D member with an arbitrary length in the XY workplane.



Open the input table via **Tools>Input table**, the table will appear somewhere inside the graphical window.



The table can be moved, minimized and pinned just like the input panel.

1.1. Minimize/r	naximize
Click INPUT TABLE	once to minimize the input table.
	Nodes 💋 🛥 🏝 🛣 🛣 🛣
Click INPUT TABLE	again to maximize the input table.
1.2. Move Click and hold	to start moving the input table.

The input table can be moved outside of the graphical window of SCIA engineer which allows you to use multiple monitors in a way that suits you.

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When the table is moved outside of the graphical window, minimizing is not possible anymore to prevent you from not finding the table.

# 1.3. **Pin/floating**

The table can float on the graphical window but can also be pinned to the sides. Start moving the input table, a coloured area should appear around the graphical window.



Drag the input table to the coloured area, there will be two options.

• A part of the coloured area shows a brighter line, release the input table now and it will be pinned to the side and keep the same size.



• Move the input table further into the coloured area and a bigger area will be shown, the table will be pinned to the side and the size will change to the same size as the graphical window.



This possible on all sides of the graphical window and in the corners.

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## Chapter 2: Data

# 2.1. Available data

The available data is divided in three categories.

Click the drop down menu next to



Switching between data in one category is done by clicking on the icons on the bottom of the input table. The icons are the same as in the input panel. By default the following data is available.

The category 'structure' contains

- Nodes
- 1D members
- 2D members
- Supports in node
- Supports on 1D
- Line supports on 1D
- Line supports on 2D edge

The category 'loads' contains

- Point loads in node
- Point loads on 1D
- Free point loads
- Line loads on 1D
- Line loads on 2D edge
- Surface loads on 2D

The category 'libraries' contains

- Layers
- Materials
- Cross-sections

This does not include all available data, some tables are hidden by default. To open more information click with the right mouse key on the bottom part of the input table. This will open a selection menu where you can choose which tables to show and which to hide.

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				Cross-links							
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# 2.2. Viewing and hiding properties

The properties visible in the input table depend on the selection made in the column selector.

Click to open the column selector and select X,Y and Z to be visible.

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# 2.3. Selecting elements

When an element is selected in the 3D model, this element is highlighted in the input table. You can also select elements directly from the input table.

Click the row number of the element you want to select once, that row will be highlighted and the element will also be selected in the 3D model. Hold the CTRL button and click on the row numbers to select multiple elements.

	INPUT TAI	BLE		M Structure	^ [	Type her	re	<ul> <li>#</li> </ul>	<b>*</b>	-	<b>III I</b>	×				
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You can also select elements that have the same property.

- Click on the cell Z of node 1, the value is 0.
- Click on 'select by property in cell'.
- All nodes with Z=0 will be selected

SELECT BY PROPERTY IN CELL	😑 INPUT TABLE 👘 Structure \land 🔟 Type here 🖌 💣 💕 🔐 🖗 🕱 📾
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X [m] Y [m] Z [m] 4	1 3,000 5,000 0,000
1 3,000 5,000 0,000	2 4,000 11,000 0,000
2 4,000 11,000 0,000	
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🗾 🖉 Nodes 🏂 🖅 🍇 😴 🛣 📆	1 Nodes 🏂 🚽 👍 🛣 🐹

This function works for all possible properties. If some elements are already selected while using this function, they will not be deselected if they do not have the right property.

# 2.4. Editing data

#### 2.4.1. Editing one value

In order to change a certain value, you simply need to select the cell that has to be adapted and enter the new value.

- Click the value X of node 1
- Type the new value: 0
- Press enter

	T TABLE		Structure	~ 🗖	Type here		<ul> <li>Image: Image: Ima</li></ul>	- <b>-</b> * [	₽ 🔒	×				
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The modification is instantaneously taken into account in the representation of the model in the graphical window after pressing 'enter'.

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# 2.4.2. Editing multiple values

Multiple values can be changed at the same time.

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- Type the new value, 1, in the editbox and press 'apply edit'.
- The value of all selected cells are changed immediately in the input table and in the 3D model.

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The values you change do not need to be from the same property, it is also possible to change both X, Y and Z coordinates at the same time for example.

**Note:** When you select certain cells, this will not be shown in the 3D model. An element is only selected in the 3D model when it is highlighted in the input table.

**Note:** If you want to rename all the elements, you can select the whole column and type 'n1'. Because all the elements will have the same name, they will be automatically changed to the next possible number

- For example, 4 nodes are given different names
- Select the column 'name'
- Type N1 in the edit box
- All nodes are renamed from n1 to n4

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3	0,000	3,000	0,000	N3		3		3	0,000	3,000	0,000	n3			
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#### 2.4.3. **Excel**

In Excel, you can edit data easily and then reuse it in SCIA Engineer. You may also directly create all the data in Excel and export it to SCIA Engineer using a Copy/Paste procedure. To edit a table using Excel, you need to follow these steps:

1. Select the data that has to be edited then select Copy in the list after a right click on the table. **Remark:** It is also possible to use the different keyboard shortcuts CTRL+C to copy, CTRL+V to paste and CTRL+A to select all the rows.

4	X [m]	Y [m]	Z [m] ↓	
1	0,000	1,000	0,000	Select related member
2	4,000	1,000	0,000	Сору
•				Paste
				Copy value to editbox
				Search
				Copy value to filter

2. Open Excel and paste the table in it. In the following example, we will change the values for Coord Y to 2 and copy the table from excel.

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3. Paste the value into the input table

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4. The data in the table and in the graphical window is changed immediately

## 2.4.4. Copying an element

It is possible to copy elements directly from the input table. When doing this you will need to define offset coordinates in the editbox.

• Open the tab '1D members' in the input panel

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- The member will be selected, you will copy this 1m further on the Y axis
- Type the offset coordinates (0;1;0) in the editbox, to divide the coordinates you use the spacebar.
- Click 'copy row'

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If you do not give an offset to where a new element should be copied, SCIA engineer will give a warning:



# 2.5. Viewing and hiding elements

It is possible to hide elements in the 3D model and hiding them in the input table as well.

• Hide the second element in the 3D model by selecting it and using the function 'hide selected'

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• Toggle 'visibility in table' off, if this was toggled on

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	Name	Туре	Beg. n	End node	Cross	Length	Layer	LCS Ro	Memb	ey [mm]	ez [mm]					
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	1 4	1D membe											Lo			
	- 2	10 member			4 33								< P			

- The element is hidden in the 3D model, but shown in the input table
- Toggle the 'visibility in table' on and the hidden elements are also hidden in the table

INPUT TABLE         m Structure         m Type here         ✓ eff         e
Name         Type         Beg. n         End node         Cross         Length         Layer         LCS Ro         Memb         ey [mm]         ez [mm]
B1 beam∨ N1 N2 C∨ ∰ 4,000 L∨ ∰ 0,00 Centre ∨ 0 0
🗜 🏂 1D members 🥔 🛣 🛣 🔤 🔤

It is also possible to show only the elements that are selected in the 3D model in the input table.

• Toggle 'selected rows only' on

											s	ELECTED R	OWS ONLY		
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2	B2	beam∨	N3	N4	C 🖬	4,000	L	0,00	Centre $\checkmark$		0	0			
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- The input table will become empty
- Select one of the elements
- Only that element will be shown in the input table

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	Name	Туре	Beg. n	End node	Cross	Length	. Layer	LCS Ro	Memb	ey [mm]	ez [mm]		
1	B2	bea∨	N3	N4	c∨ ≣∺	4,00	L∨ III	0,00	Centre~	0			
•													
	# 💋	1D member	rs 🗖 🧎	1 🔽 1	<b>x x</b>								
-													

# 2.6. Deleting elements

You can delete an element with the input table by selecting the element and click 'delete row'.

_	INPUT IA	BLE		Struct	ure ^	Type h	ere		<b>~</b>	- E (	5	•	1	Ħ	Ľ
4	Name	Туре	Beg. n	End node	Cross	Length	Layer	LCS Ro	Memb	ey [mm]	ez	[mm]			
	B1	bea∨	N1	N2	c∨ ≣∺	1,000	L~ 22	0,00	Centre		0	0			

SCIA will always ask you if you want to delete certain elements or if it is not possible to delete a certain element.

SCIA Engineer		×
	Do you really want to de these entities (5)? - Member (1 selected)	
Related Entities to be deleted - Support in node (2) - Node (2)		
	OK Cancel	

# 2.7. **Printing data**

A table can be imported in the engineering report by using the function 'table to report'



Here you can make some changes in what elements are visible and insert it into the report.

ant	
	Name of the table Node Caption of the table Node
* Selection	Selection type MI.
	4

If you want to edit this further in the engineering report you can use our manual about the engineering report.