# Table: Converters

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| **Schema:** | SystemSchematicBuilder |
| **Responsible:** | Kurt A Vedros |

Table holds all information on the converter part.

Converter – a part that changes the connecting from parts diameter to the connecting to parts diameter. May be from top to bottom or left to right on a grid square.

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| **Column Name** | **Data type** | **Description** |
| ConverterID | Int | The primary key of the Converter |
| Name | String | The user given name of the converter. May be left blank. |
| FromDiameter | Float | The dimensions of the diameter that the part connects from in meters |
| ToDiameter | Float | The dimensions of the diameter that the part connects to in meters |

**Procedures (Database functions)**

* sprocGetConverters
  + Returns a list of Converter objects that are currently stored in the database.
* sprocGetConverter
  + Returns a Converter object that is currently stored in the database that has the given Converter ID number.
* sproc\_ConverterAdd
  + Stores the given Converter object into the database and returns its assigned Converter ID number.
* sproc\_ConverterUpdate
  + Changes information of the Converters Table in the database with the given primary key to the given Converter class object.
* sproc\_ConverterRemove
  + Removes the Converter from the Converters Table with the given Converter ID number.

**DAL (Software Functions)**

* ConvertersGetAll()
  + Returns a list of Converter objects that are currently stored in the database.
* ConverterGet(int ID)
  + Returns a Converter object that is currently stored in the database that has the given Converter ID number.
* ConverterAdd(Converter Converter)
  + Stores the given Converter object into the database and returns its assigned Converter ID number. Returns -1 if error occurred, otherwise returns null.
* ConverterUpdate(Converter Converter)
  + Changes a Converter object that is currently stored in the database with the given Converter’s Converter.ID with the Converter’s information.
* ConverterRemove(int ID)
  + Removes the Converter object stored in the database with the given Converter ID number. Returns -1 if error occurred, otherwise returns null.