



LECO
SALES

Quantum
Cabinet Systems

User Guide

LECO Sales Ltd

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Quantum Cabinet Systems

The Quantum Cabinet Design System has been designed for Switchboard and Panel Builders as a tool to facilitate fast, accurate design and to provide the client with a quotation and/or a Pick List of materials. It is an extremely flexible system, one that will provide a high quality drawing to be used as a presentation to the client.

Licence Code

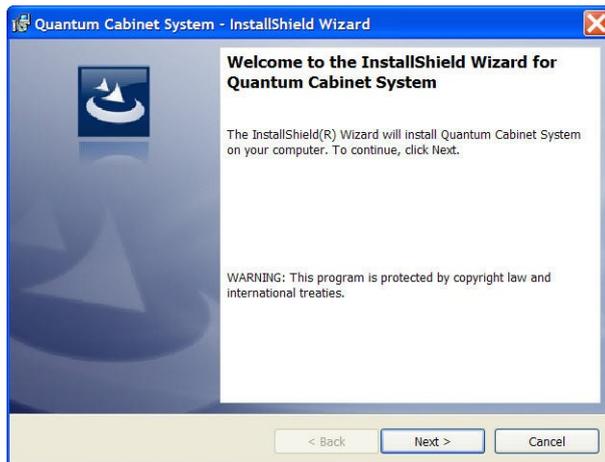
Once you have downloaded the Quantum Cabinet System installation software, please contact

Contact: Stephen Morehead
Phone: (09) 828 1101
Email: stephenmoorhead@lecosales.co.nz

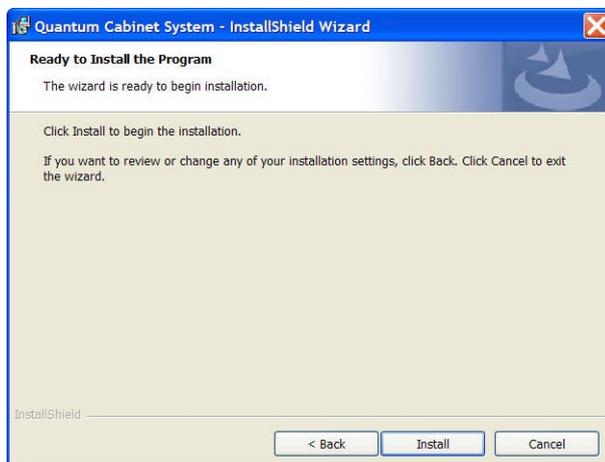
for a licence code which is require to complete the software installation.

Installation

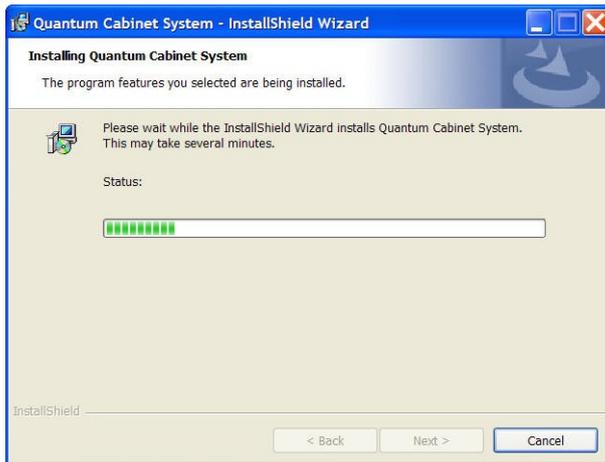
Double click the installation software that you had downloaded, qcsetup.exe



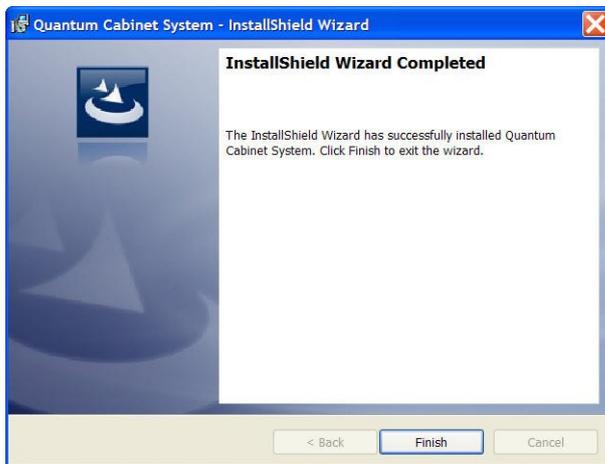
Select *Next* >



Select *Install*



Installation in progress



Select *Finish*

Installation completed

Create a Desktop Icon

The following steps will create a shortcut icon on your computer desktop

Open your Windows Explorer

Go to C:\Program Files\Quantum Cabinet System

Highlight this file, Quantum.exe with your left mouse button.

Select Quantum.exe with right mouse button, holding onto it, drag the file onto the spot where you like the desktop icon to be, then release the mouse button.



Select *Create Shortcuts Here*

Select the desktop icon.

Right mouse button click it to *Rename* the icon to **Quantum**



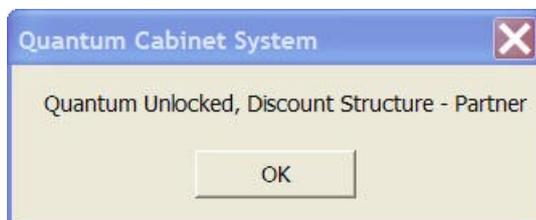
Quantum Cabinet System Software

Double click Quantum icon to run the program.
Type in the Licence Code previously obtained from Leco Sales.
Select *Continue*

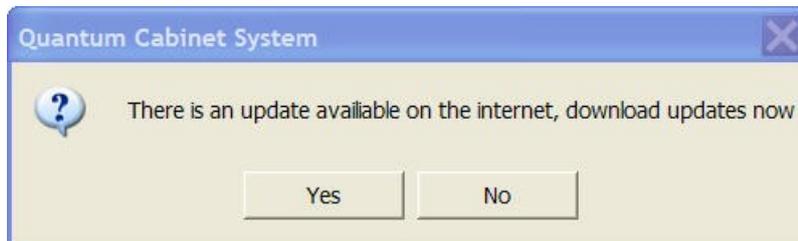


Type in the Licence Code previously obtained from Leco Sales.

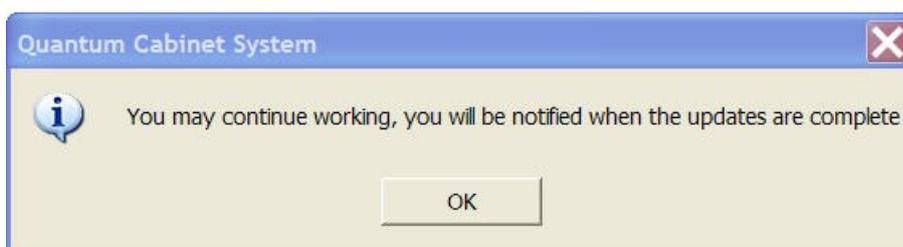
Select *Continue*



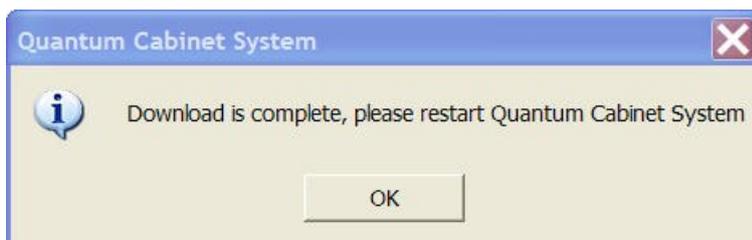
Select *OK*



Select *Yes*



Select *OK*



Select *OK*

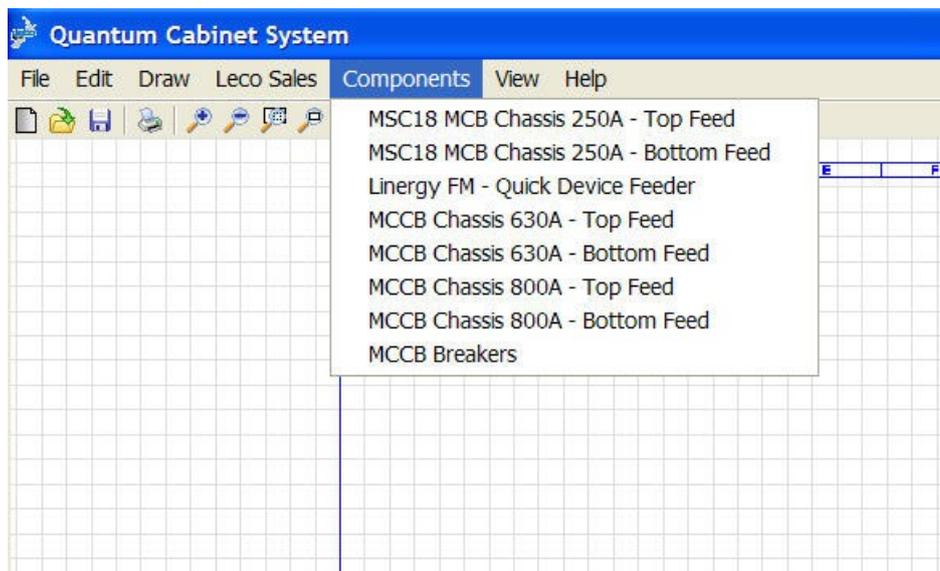
Exit program

Double click Quantum icon to re-run the program.

Built-in Parts Option

Under Components Menu, there is 8 pull down sub-menus for Schneider Electric components:

- MSC18 MCB Chassis 250A—Top Feed
- MSC18 MCB Chassis 250A—Bottom Feed
- Linergy FM—Quick Device Feeder
- MCCB Chassis 630A—Top Feed
- MCCB Chassis 630A—Bottom Feed
- MCCB Chassis 800A—Top Feed
- MCCB Chassis 800A—Bottom Feed



Create Own Customise Parts

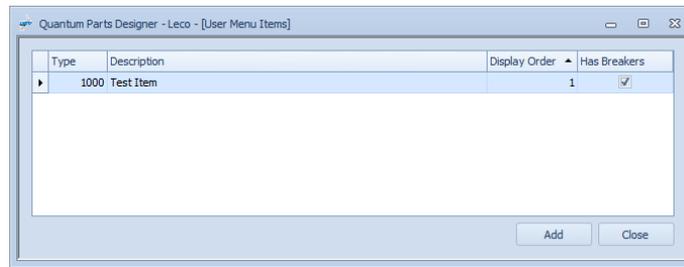
A user can create their own parts with Quantum Parts Designer.

Quantum Parts Designer

This program is found under Start, Programs, Leco Sales Ltd, Quantum Parts Designer and is to enable the user to add their components to the 'User' menu that will become visible on the main menu bar once parts are configured. When run, the user will be presented with the following Menu.



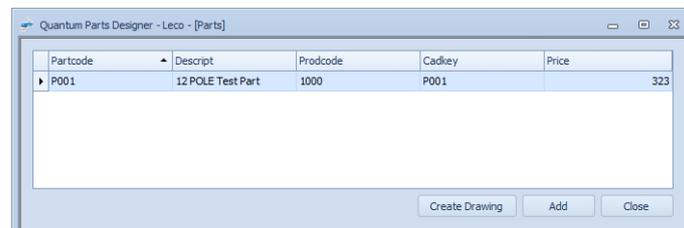
The *User Menu* should be configured first. When selected the user will get the following.



Select the **Add** button to add a new menu item or double click an existing one to edit it. Items can only be deleted if they are not in use. Select the item and press the **Delete** key. The description appears on the Menu.

The *Display Order* is purely used to set which order the items will appear in on the menu. If you tick the *Has Breakers* field, it tells the software that the Components under this menu item can have breakers inserted by double clicking on the component once it is inserted.

You should then configure the parts that can be inserted into the drawing. Select *User Parts* and you will get the following.



The *Partcode* is your part number for the component. Care should be taken not to enter one that will clash with other parts in the Quantum System.

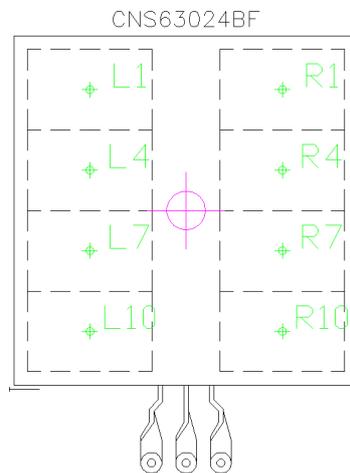
Enter a description to describe the part which will appear in the BOM. There is a special case here for items that have breakers. The descriptions must start with the number of poles specified followed by the word POLE in upper case. For a 36 pole component you must start the description `36 POLE`.

The number of poles available is 6, 12, 18, 24, 30, 36, 42, 48, 54, 60, 66, 72, 78 & 84.
The poles are configured in banks of 3.

The *Prodcode* is used in the BOM to group parts together. For all user parts, I would recommend using 1000 and higher so they do not clash with the Standard parts.

The *Cadkey* is usually the same as the *Partcode* but does not have to be. This is used to specify the name of the drawing file for that component.

Once the part has been entered click on the **Create Drawing** button and select the relevant AutoCAD file to create a drawing for that component. AutoCAD drawings suitable to be made into components should be drawn with one component per file. The centre of the block will be used as it's insertion point. This can be altered by inserting the file QUANTUM_ORIGIN.DWG supplied in the Quantum folder at the point you wish to use as the Origin (The Purple target shown below).



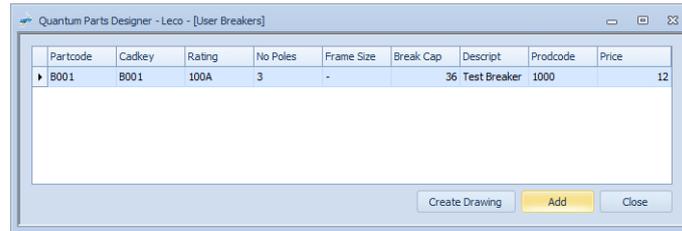
For items with breakers the file QUANTUM_POLE.DWG should be inserted at the relevant locations and the attribute set as appropriate, i.e. L/R for left and right, the number is the pole it's defining the position off, where single pole breakers are used every pole should be positioned, as the one above only uses 3 pole breakers you only have to specify every 3rd position.

Once you have added your part, you can also add any sub parts (not shown on the drawing) that are needed in the BOM when that part is added in the table below.

Groupcode	Partcode	Descript	Prodcode	Cadkey	Qtyused	Price
▶ P001	S001	Test Sub Part	1000	S001	4	45

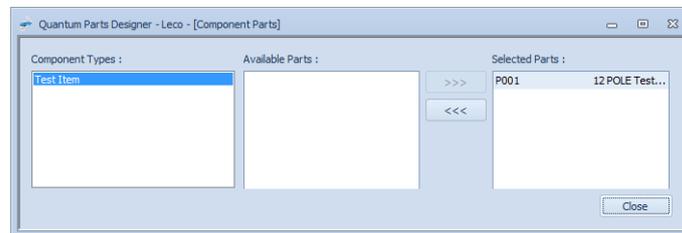
These are exactly the same as *User Parts* menu except for 2 extra fields. *Groupcode* simply is the *Partcode* of the parent part, multiple sub parts can be added for each parent. You can also enter a quantity of the sub parts required for the parent part.

You should then set your breakers up as follows.



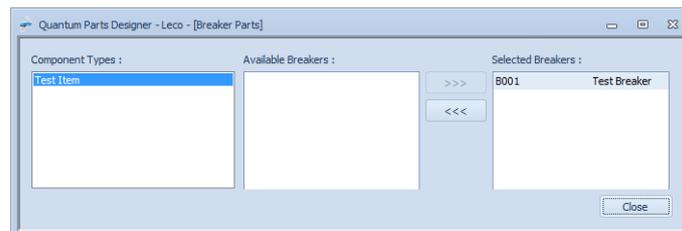
No different to parts again apart from the extra values, *Rating*, *No Poles*, *Frame Size* & *Break Cap* are all used in the breaker selection dialog within Quantum to select the required part. Again drawings created in the same way as parts.

The last step in configuring your parts is to set which parts and which breakers belong to which menu items as follows.



Firstly for parts you should select the item from *Component Types* menu in the left hand column that you wish to configure. You can then select from *Available Parts* column the parts you wish to use for that menu item and move them to the *Selected Parts* column.

The same should be done for breakers.



Once the parts are configured, restart Quantum Software and you will have a new User Pull down menu with your components loaded