



----- CONFIGURATOR TUTORIAL -----

STEP 1

Go to sign in screen at <http://ulc.tksimplex.com> or use the link on the TK Simplex website.

If you are a new user click on the new user “**click here**” button.

If you are a returning user enter your User ID and your password & click on the “**Login**” button.

TK Simplex User Login

UNI-LIFT
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TK Simplex

UserID:

Password:

Are you a new user? [click here](#)

Forgot your UserID or Password? [click here](#)

Powered by Configure One

TK Uni Lift / Pow-R-Jac Engineered Solutions
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Phone(Toll free) 800-323-9114 Fax 708-865-0894
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STEP 2

Enter registration information (fill in the blanks).

Select your preferred units of measure. (English is the default setting when you login, it can be changed at anytime.)

Click on the “**Submit**” button.

New User Registration

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UserID: Password: Confirm Password:

First Name: Middle Name: Last Name:

Company Name:

Address Line 1:

Address Line 2:

City: State: Zip:

Title:

Email Address:

Would you prefer to work in English or Metric units?
 English
 Metric

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STEP 3

An e-mail is sent to the e-mail address entered on the registration form that allows the activation of the User ID and first time entrance into the account. This needs to be done only once.

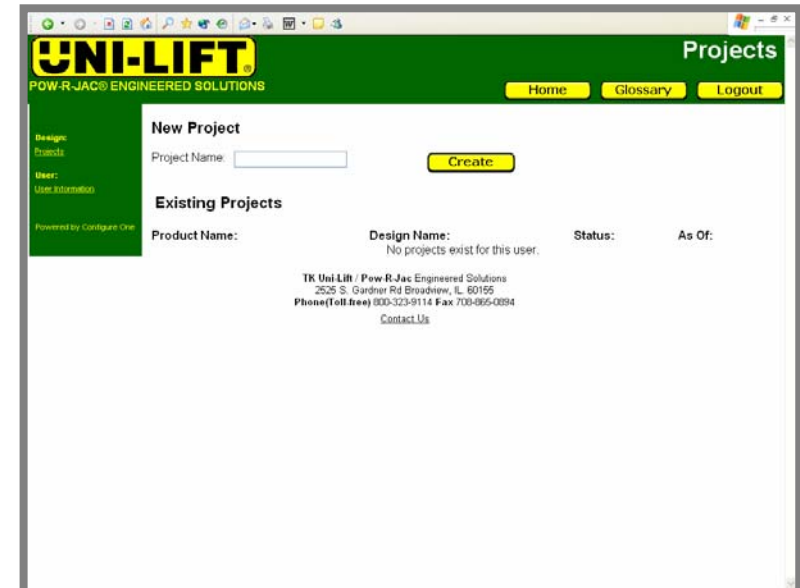
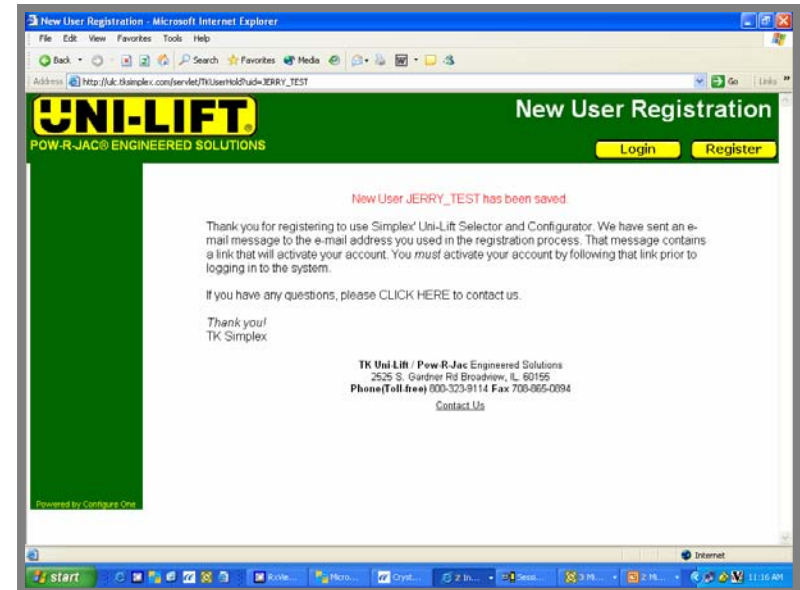
YOU NEED TO RETRIEVE THIS EMAIL AND CLICK ON THE LINK THAT IS SENT WITH THE E-MAIL TO GAIN FIRST TIME ACCESS TO THE CONFIGURATOR.

After the first time login you can then go directly to the website and login.

STEP 4

Enter a name for your project.

Click on the **“Create Button”**





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STEP 5

If you have projects in progress you can click on:

- Edit to change or complete an assigned project.
- Results to see the completed project (drawings and configuration reports).
- Delete to remove the project from your list of existing projects. A deleted project cannot be restored.

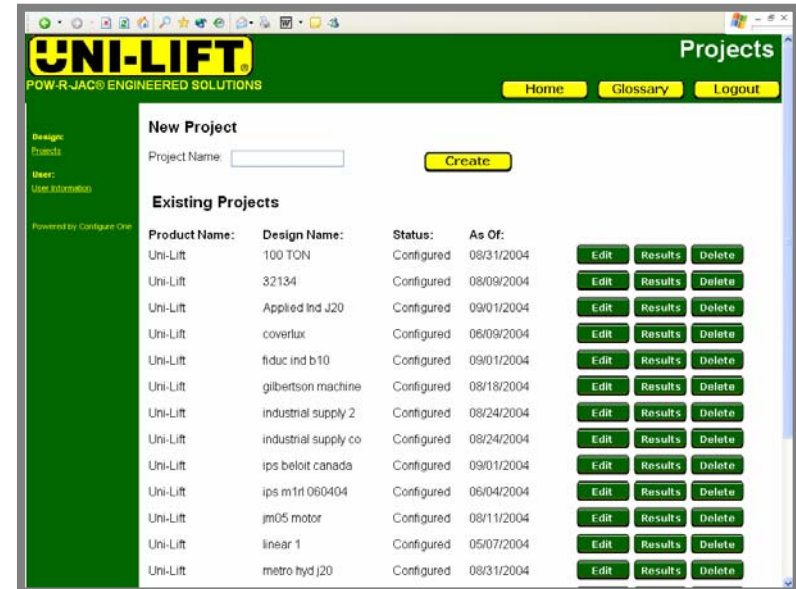
STEP 6

If you have determined the unit that will fit the application select **“Enter Uni-Lift Model Number Directly”**.

To have the configurator assist in the sizing of the actuator select **“Use the Uni-Lift Selector Guide”**.

After you make this selection click on the **“Continue”** button.

Underlined items in the left hand margin can be used to switch projects & update information at anytime.





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STEP 7

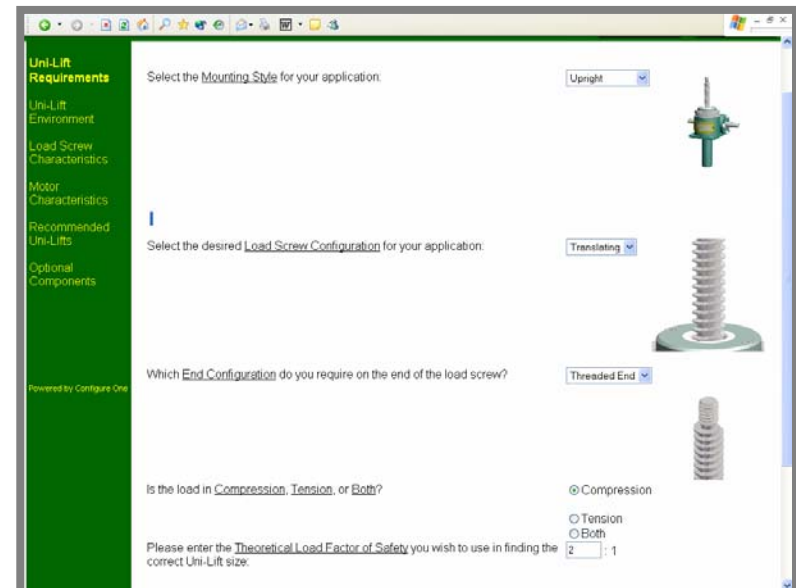
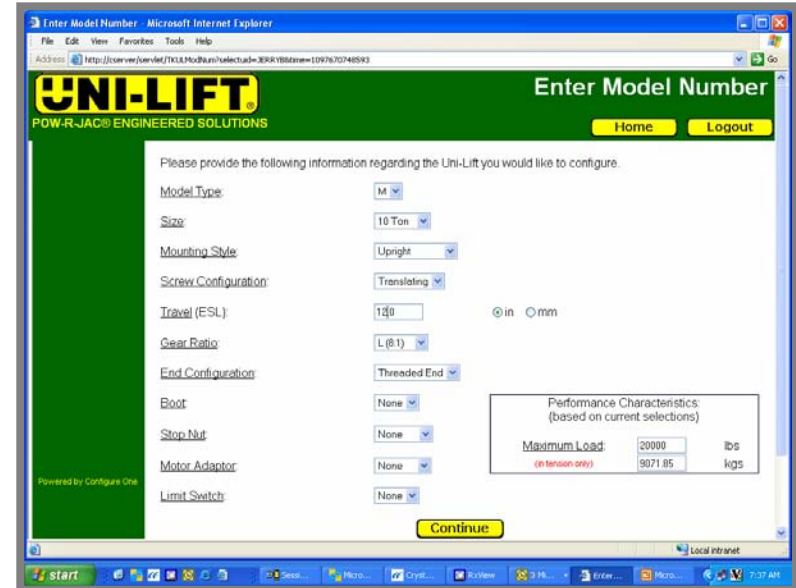
If the model number is already known, it can be directly entered on this screen. This can occur when the selection process has been completed using the catalog or the unit may have been previously purchased.

If the actuator for the application is not known it is advised to use the UniLift Selector Guide.

STEP 8

Select configuration as needed for the application:
Upright vs. Inverted vs. Double Clevis (Illustration will change to match selection).
Translating vs. Rotating vs. Keyed
End Configuration
Compression, Tension or Both
Enter Safety Factor Required (The default is 2 :1)

UNDERLINED ITEMS can be clicked on to access a glossary of terms.

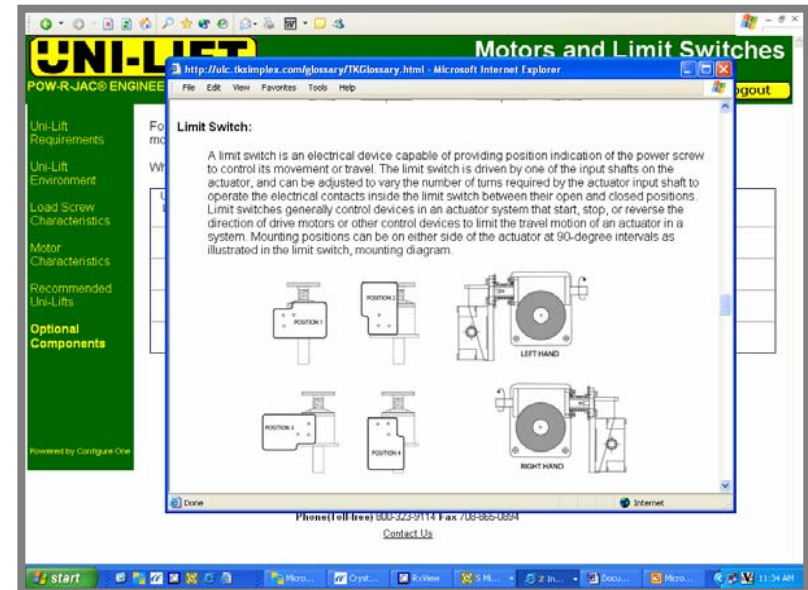




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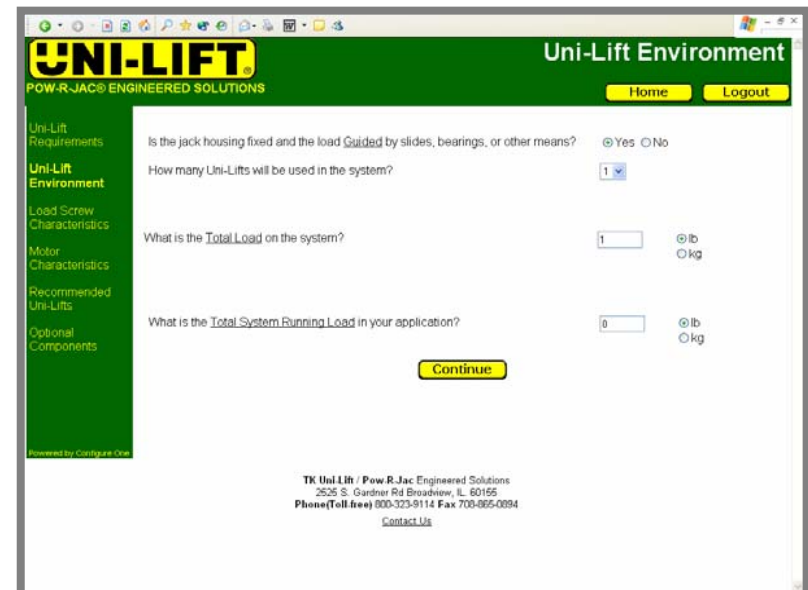
STEP 9

The glossary will pop up when you click on an **underlined** word or phrase and give both a verbal and descriptive explanation of the term selected.



STEP 10

Enter data as required for the application.
Number of Lifting points?
Total Load?
Total System Running Load?





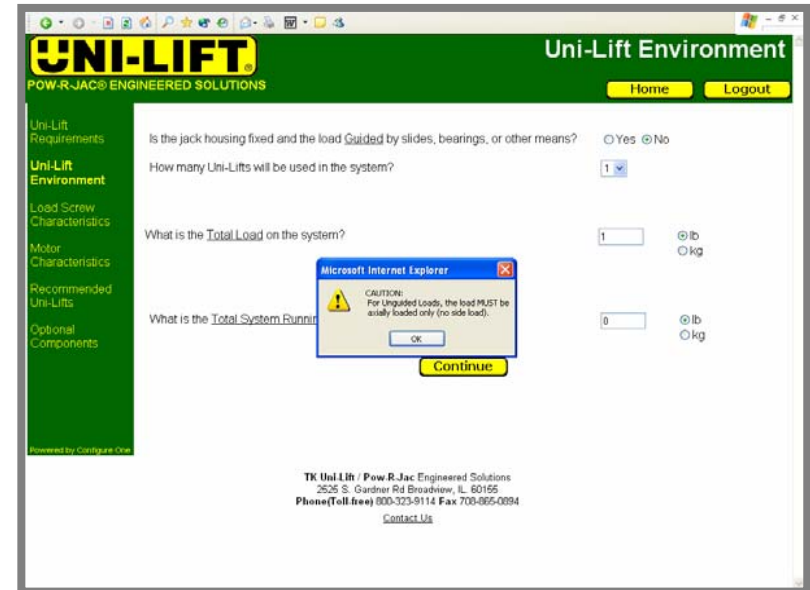
----- CONFIGURATOR TUTORIAL -----

STEP 11

IF AN UNGUIDED APPLICATION IS SPECIFIED A WARNING WILL APPEAR ON SCREEN:

“For Unguided Loads, the load MUST be axially loaded only. (No Side Load)”

This is to make the user aware of this requirement. This warning must be acknowledged in order to continue.

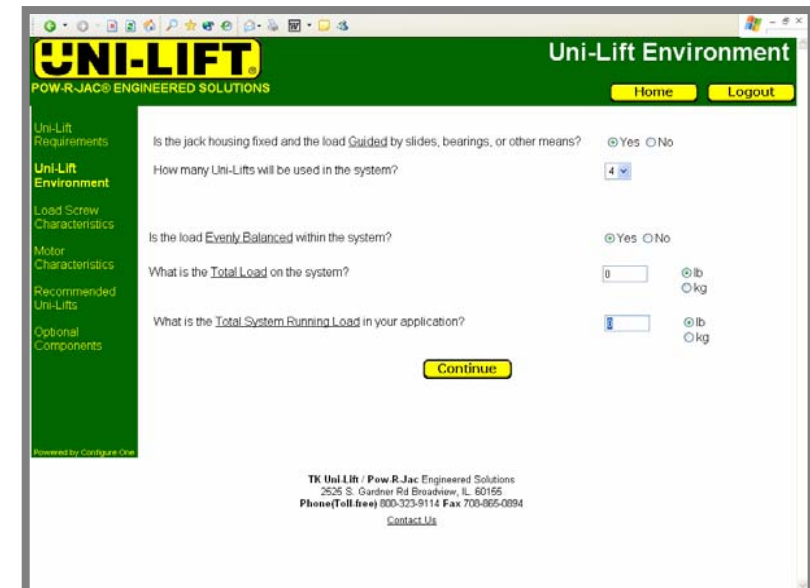


STEP 12

If more than one UniLift is being used in the application then the user must answer whether or not the Load is Balanced.

If yes, then the user must enter the Total Load and the Total System Running Load.

If no, then the user must enter the Greatest Load on One Unit and the Total System Running Load.





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STEP 13

The user needs to enter:

- Travel Distance?
- Is Miscellaneous Clearance required?
- Is a Boot required?
- Is a Stop Nut required?
- Slenderness Ratio required?

The screenshot shows the 'Load Screw Characteristics' configuration screen. The left sidebar contains a navigation menu with the following items: Uni-Lift Requirements, Uni-Lift Environment, Load Screw Characteristics (highlighted), Motor Characteristics, Recommended Uni-Lifts, and Optional Components. The main content area contains the following questions and input fields:

- What is the required Travel Distance under load for your application? in mm
- Do you need to add length to the load screw to account for Miscellaneous Clearance or unused load screw length? Yes No
- Do you require the load screw(s) to be enclosed by a Boot? Yes No
- Do you require a Stop Nut on the Uni-Lift(s)? Yes No

A note states: "Slenderness Ratio" is a special code used in addition to Factor of Safety when calculating column buckle. For most applications, a Slenderness Ratio of 400 is appropriate.

Do you require a Slenderness Ratio lower than 400? Yes No

At the bottom, there is a 'Continue' button and contact information for TK Uni-Lift / Pow.R.Jac Engineered Solutions.

STEP 14

Motor characteristics need to be entered:

- Cycles & Speed?
- Reducer requirements?
- Ambient Temperature?

The screenshot shows the 'Motor Characteristics' configuration screen. The left sidebar contains a navigation menu with the following items: Uni-Lift Requirements, Uni-Lift Environment, Load Screw Characteristics, Motor Characteristics (highlighted), Recommended Uni-Lifts, and Optional Components. The main content area contains the following questions and input fields:

- How many Cycles per Hour do you require the system to perform?
- What is the Speed (RPM) of the motor in your application?
- Will you use a Reducer in your application? Yes No
- What is the maximum Ambient Temperature in your application environment? F C

At the bottom, there is a 'Continue' button and contact information for TK Uni-Lift / Pow.R.Jac Engineered Solutions.



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STEP 15

From this screen, units can be compared, selected, or more can be displayed. Any of the units that are shown can be used in the application, but if the user would like a larger selection, the “**More**” button can be selected and the configurator will show all the available units that can be used for this application.

Any column can be sorted by selecting the header for that column ascending or descending order.

Units can be compared by checking the units to be compared in the “**Compare**” column and clicking on the compare button.

If any information on this screen appears in **RED**, then the help button must be selected to determine where there is an error in data entry or application information.

Once a unit is selected then the “**Continue**” button is checked.

STEP 16

The user is then given the opportunity to add a motor adapter and a limit switch to his application.

Recommended Uni-Lifts

Based on your application parameters, the following Uni-Lift models are the most appropriate for your use. The table below identifies the performance characteristics of each Uni-Lift based on your application parameters.

To view a more expansive list of Uni-Lifts, which will include the list shown below as well as larger Uni-Lift sizes, click the “More” button below. To compare specific Uni-Lift models side-by-side, identify those Uni-Lifts using the “Compare” column, and click “Compare”.

Once you have identified the Uni-Lift that best meets your application requirements, make your selection using the “Select” column, and press “Continue”.

Select:	Compare:	Model	Size	Gear Ratio	TPI	Input Speed (RPM)	Linear Velocity (in/min)	1-Way Travel Time (minutes)	HP	Max Cycles/Lift	Motor Starting Torque (in-lbs)	Motor Running Torque (in-lbs)
<input type="radio"/>	<input type="checkbox"/>	B	20	H (24:1)	48	1200	25.00	0.48	2.92	62.50	253.69	153.34
<input type="radio"/>	<input type="checkbox"/>	B	20	L (8:1)	16	1200	75.00	0.16	6.47	127.70	452.92	339.82
<input type="radio"/>	<input type="checkbox"/>	B	30	H (32:1)	48	1200	25.00	0.48	3.20	62.50	290.65	167.83
<input type="radio"/>	<input type="checkbox"/>	J	20	H (16:1)	32	1200	37.50	0.32	5.78	16.49	809.70	303.52
<input type="radio"/>	<input type="checkbox"/>	J	20	L (8:1)	16	1200	75.00	0.16	9.75	21.10	1251.83	512.21
<input type="radio"/>	<input type="checkbox"/>	J	25	H (18:1)	36	1200	33.33	0.36	5.44	17.60	774.19	265.83
<input type="radio"/>	<input type="checkbox"/>	M	15	H (24:1)	48	1200	25.00	0.48	4.42	11.18	620.69	231.98
<input type="radio"/>	<input type="checkbox"/>	M	15	L (8:1)	16	1200	75.00	0.16	9.61	16.67	1148.35	504.79
<input type="radio"/>	<input type="checkbox"/>	M	20	H (24:1)	48	1200	25.00	0.48	4.88	13.69	662.65	256.06

Compare **More** **Continue**

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Optional Components

Do you want to mount a motor directly to the jack? Yes No

Do you want to add a Limit Switch to control travel distance? Yes No

Continue

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STEP 17

When a motor adapter and/or a limit switch is selected the user is then given the opportunity to locate these items on the actuator.

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For each Uni-Lift in your system, identify whether you want to attach a motor to that jack, the motor size, and the mounting location. Similarly, identify whether you want to add a limit switch, its location, and position.

When you have finished, press "Continue".

Uni-Lift #	Attach Motor Adaptor?	Frame Size:	Motor Location:	Limit Switch?	Switch Location:	Switch Position:
1	<input type="checkbox"/>	56C	<input type="radio"/> Left <input type="radio"/> Right	<input type="checkbox"/>	<input type="radio"/> Left <input type="radio"/> Right	Position 1
2	<input type="checkbox"/>	56C	<input type="radio"/> Left <input type="radio"/> Right	<input type="checkbox"/>	<input type="radio"/> Left <input type="radio"/> Right	Position 1
3	<input type="checkbox"/>	56C	<input type="radio"/> Left <input type="radio"/> Right	<input type="checkbox"/>	<input type="radio"/> Left <input type="radio"/> Right	Position 1
4	<input type="checkbox"/>	56C	<input type="radio"/> Left <input type="radio"/> Right	<input type="checkbox"/>	<input type="radio"/> Left <input type="radio"/> Right	Position 1

Continue

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STEP 18

At this point, the configurator is checking the database for the jack that was selected in order to create a drawing.

During this time the Configuration Report can be reviewed.

Also, the user can be notified by e-mail when the drawing is complete.

Normally it takes a few minutes to create a drawing.

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Design: Progress: User: User Information

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Your design is now being built. In about five minutes, you will have the opportunity to review full color images, engineering drawings, and solid model representations of your configured design. If you would prefer not to wait for the configuration to be completed, use the link below to receive e-mail notification when your design is complete.

Click here if you would prefer to be notified by email when your design is ready.

Click Here if you want to see the Configuration Report

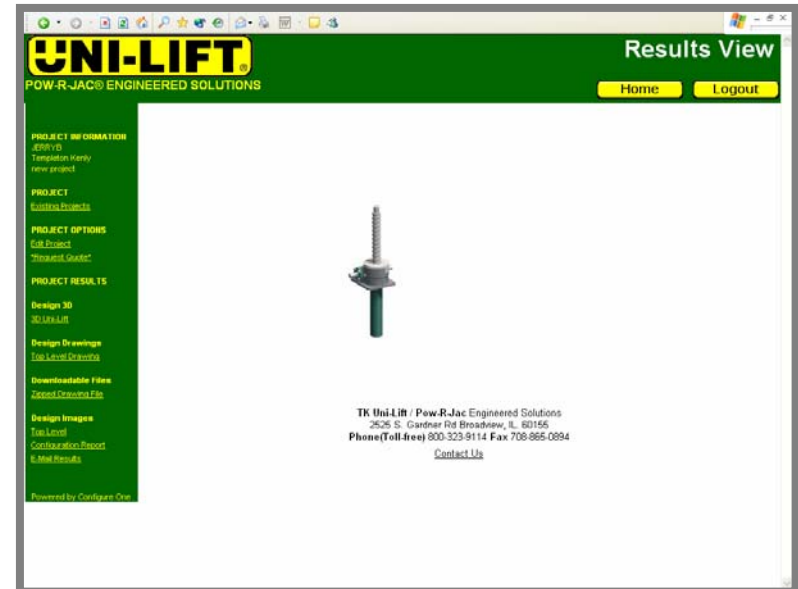
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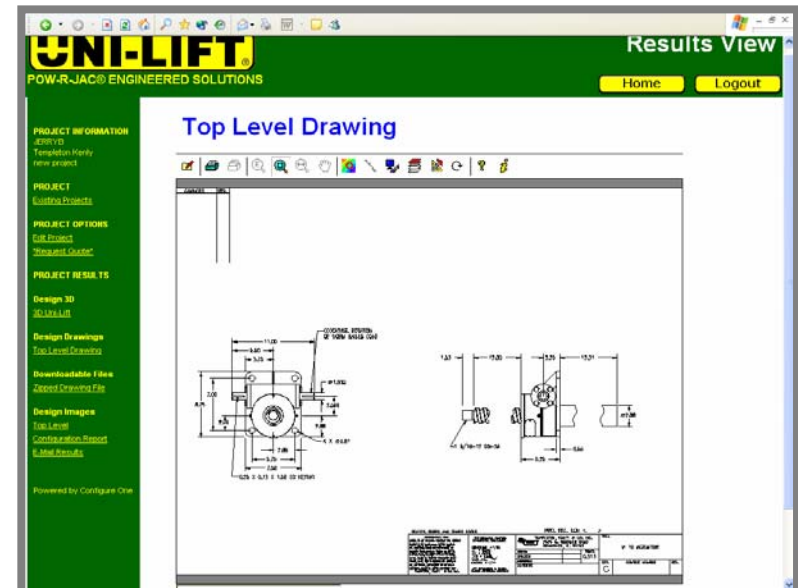
STEP 19

This is an image of the jack that was created.
From this page the top level drawing can be accessed, the results can be e-mailed to a customer, the current project can be edited, other projects can be opened and edited, or a configuration report can be accessed.
The user can request a quotation from this page.



STEP 20

This is a dimensional drawing that is created by the configurator.
This drawing can be zipped and e-mailed to a customer.
Drawings are available in as a .dxf file from the configurator.





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STEP 21

It is possible to e-mail information from the Results View by clicking on the “E-mail results” button and the above screen will appear.

