

DuraLabel®



LABELFORGE



PRO

™

L A B E L D E S I G N S O F T W A R E

USER GUIDE

800-788-5572 | DuraLabel.com



CONTENTS

1. Introduction	3
2. Installing LabelForge PRO on Your PC	4
3. Navigating the Software	5
LabelForge PRO on PC	5
The Modules of LabelForge PRO	5
Kodiak and Toro Max	6
4. Label Designer	7
Label Designer Toolbar	7
Importer	8
Data Source - Image format	9
Creating a Label Design	10
Insert Menu and Design Objects	10
Dimensions Menu	11
Order Menu	11
Details Menu	12
Color Menu	12
Data Source Menu and Automatic Label Content	12
Label Settings Menu	16
Print Settings Menu	16
5. Arc Flash	17
Arc Flash Toolbar	17
Navigating Records in the Database	18
Creating and Editing Arc Flash Records	18
Templates, Sizes, and Settings	20
Printing a Label	20
6. Chemical Labeling	21
Chemical Labeling Toolbar	21
Navigating Records in the Database	21
Creating and Editing Chemical Records	21
Templates, Sizes, and Settings	24
Printing a Label	24
7. NFPA/RTK	25
NFPA/RTK Toolbar	25
Navigating Records	25
Creating and Editing Records	25
Templates, Sizes, and Settings	25
Printing a Label	28
8. Pipe Marking	29
Pipe Marking Toolbar	29
Creating a Basic Pipe Marker	30
Creating an Ammonia Pipe Marker	32
Creating an Arrow Wrap	33
Saving or Exporting Label Designs	34
Printing a Label	34
9. Additional Options in LabelForge PRO on PC	35
Toolbar and Additional Options	35
Printing From PC	36
10. Third Party Software	37

Copyright Information

No part of this manual, including the products and software described in it, may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form or by any means, except documentation kept by the purchaser for backup purposes, without the express written permission of Graphic Products, Inc.

Products and corporate names appearing in this manual may or may not be registered trademarks or copyrights of their respective companies, and are used only for identification or explanation and to the owners' benefit, without intent to infringe.

Specifications and information contained in this manual are furnished for informational use only, and are subject to change at any time without notice, and should not be construed as a commitment by Graphic Products. Graphic Products assumes no responsibility or liability for any errors or inaccuracies that may appear in this manual.



A GRAPHIC PRODUCTS BRAND

Graphic Products®, DuraLabel®, PathFinder®, Toro Max®, Bronco Max®, Lobo® and Kodiak Max® are Registered Trademarks of Graphic Products, Inc. © 2024 Graphic Products, Inc.

1

INTRODUCTION

LabelForge PRO™ gives you the power to quickly and easily create customized label designs for a variety of applications.

The software includes several ways to create new labels or signs. Some of the modules are for compliance-focused labeling, such as Chemical Labeling (using the GHS label structure) and Arc Flash Labeling (using the NFPA 70E label requirements). You can also create completely free-form labels with the Label Designer module.

On the DuraLabel Kodiak Max or Toro Max systems, these modules are accessible through the Label menu on the system's main screen. On a PC, the modules are accessible from the program's main screen.

This guide will get you started making labels with LabelForge PRO. For additional assistance, please contact your DuraLabel representative.



2

INSTALLING LABELFORGE PRO ON YOUR PC

NOTE: You may need IT administrator privileges to install the design software.

1. Connect the software flash drive to your computer. When the startup screen appears, choose Install LabelForge PRO.
2. Accept the license agreement and click Next.
3. Choose an installation directory; by default, this will be “C:\Program Files (x86)\Label Forge Pro.” Then, click Next.
4. Review the installation details and click Finish to install LabelForge PRO. You will see a progress bar as the software is installed.

Once the software has been installed, you will be able to start designing your own labels on your PC.



3

NAVIGATING THE SOFTWARE

LabelForge PRO is divided into modules, with each part of the program tailored to a different kind of label application. When you open a labeling module, a tab for that module will appear in the toolbar. Multiple modules can be open at the same time; you can switch between them by clicking the different tabs.

LabelForge PRO on PC

The PC version of LabelForge PRO uses its own Home Screen, listing the modules as well as several additional options.

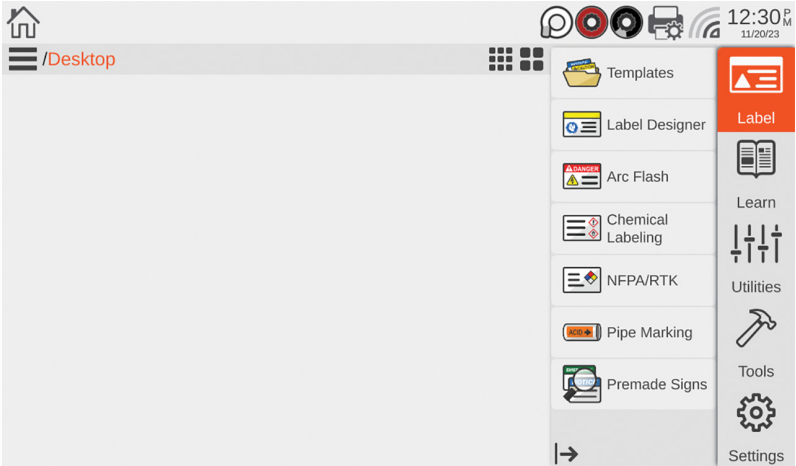


The Modules of LabelForge PRO

- **Label Designer:** Create fully customized labels and signs from scratch, or fine-tune designs created in one of the other modules.
- **Arc Flash:** Build electrical warning labels that comply with the requirements of NFPA 70E and CSA Z462.
- **Chemical Labeling:** Create detailed container labels that comply with the international GHS approach, or with OSHA's HazCom 2012 (HCS) requirements.
- **NFPA/RTK:** Create supplemental or alternative chemical labels using the hazard rating system of NFPA 704.
- **Pipe Marking:** Quickly create general-purpose pipe labels as recommended by ANSI/ASME A13.1, or labels for ammonia refrigeration systems as described in IAR Bulletin No. 114.
- **Premade Signs:** Library of preformatted signs that can be printed instantly or customized for the unique signage needs of your workplace.

Kodiak Max and Toro Max

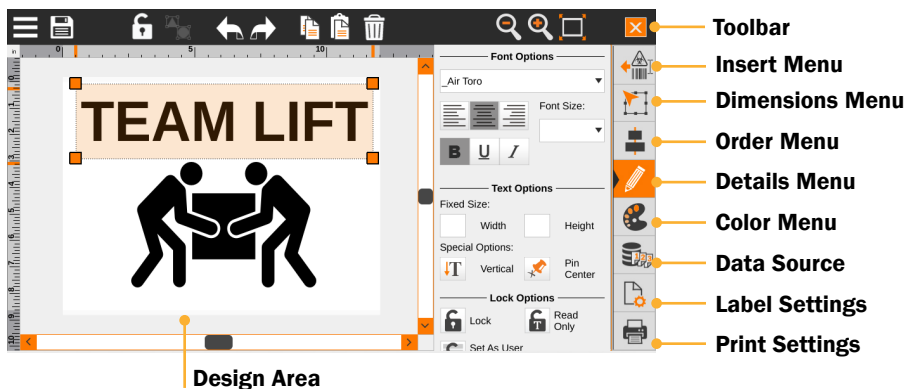
On these all-in-one systems, the modules of LabelForge PRO can be accessed from the Label menu on the Home Screen.



4

LABEL DESIGNER

The Label Designer module is meant for creating or editing completely custom designs, using text, images, or barcodes. These items can be placed and modified with the menus, and can be moved around on your label by dragging them within the design area.

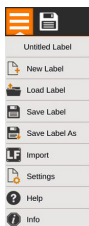


Label Designer Toolbar

The toolbar across the top of the screen shows some common controls and options for the Label Designer.



- 1. Hamburger Menu:** Access common file options, such as creating a new design, saving and loading designs, and choosing program settings.
- 2. Quick Save:** Save the current label design with its current file name. If you haven't saved the file yet, you will be prompted to choose a file name and location.
- 3. Lock/Unlock:** Lock any element (image, textbox, barcode, etc.) of the label/sign, relating to the size and location of the element.
- 4. Group/Ungroup:** Set a group of selected objects to act as a single large object, or reverse this choice. Grouped objects will be moved and resized together.
- 5. Undo/Redo:** Cancel a recent action, or repeat a canceled action.
- 6. Copy/Paste/Delete:** Duplicate or remove the selected object.
- 7. Zoom Out/In/Fit:** Adjust your view of the design area to allow fine-tuning.
- 8. Close:** Close the Label Designer.



Importer

The Importer tool provides a method for users to utilize existing DuraSuite and OpenOffice (Writer and Draw) templates within LabelForge PRO, in versions 3.1.0 or higher. To utilize the Importer tool...

- 1.** Open the LabelForge Pro software and launch the Label Designer application.
- 2.** In the pop-up menu titled “Create a New Label”, click Create New Label.
- 3.** Click the hamburger menu and select Import.
- 4.** In the Import Label pop-up menu navigate to the location where the desired label template is located, select the file (label template), then click Open. The template, originally created within DuraSuite or Open Office, will open within the LabelForge PRO Label Designer application and can be modified as needed.

Data Source – Image Formatting

The Data Source Connector Tool (included in LabelForge PRO version 3.1.0 or above) can now be used to import images onto label templates. The steps provided below outline how images should be referenced, within the data source, for use within LabelForge Pro. These instructions are specific to importing images to LabelForge Pro templates, using the Label Designer application based on information derived from a data source. **IMPORTANT NOTE:** Only .svg images can be used with the Data Source Connector Tool.

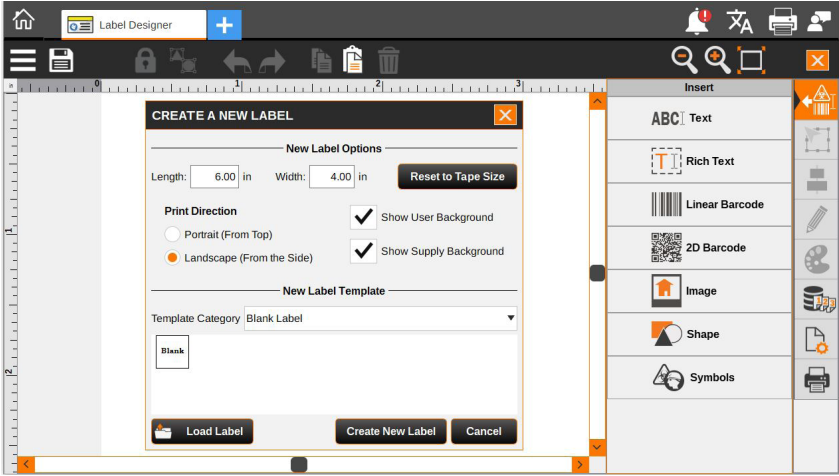
- 1.** Create a column, within the data source, which will be used to reference the image. Give the newly added column a unique name in the first row, if other columns within the data source already contain headers, otherwise leave it blank.
- 2.** Navigate to the desired image on your system, hover over the image and right click on it, then select Open With and choose NotePad from the list of options.
- 3.** Within the Notepad document copy the information, in its entirety, and paste it in the cell which corresponds to the newly added column from step 1 and the line item to which the image should be associated with.
- 4.** Repeat steps 2 and 3 until all desired images are referenced within the data source.
- 5.** Once all the information for the images has been added to the data source, save it to a known location for future use.

Please note: Since images are associated with the data source using the image's svg code, if the data source is used on a different system or network, incorporation of the images using the Data Source Connector Tool will not function as intended.

For instructions on how to associate the data source with label elements, within a label template, please refer to the section of this manual titled "Data Source Menu".

Creating a Label Design

When you open Label Designer, or choose the New Label option in the Hamburger Menu, the New Label window will open.



The New Label Options include the length and width of your design. You can also choose “Reset to Tape Size” to set your label dimensions to the default size for your loaded label stock. If your label stock contains pre-printed elements, check the Show Supply Background checkbox to show those preprinted elements on the screen.

The New Label Template section of the window lets you choose a premade template to apply to your new design, such as an ANSI-style warning template or a basic barcode template. By default, you will start with a blank label. To use a prepared template instead, choose a Template Category from the drop-down menu and choose a template from the previews that appear. LabelForge PRO will automatically adjust the template to fit your label’s dimensions.

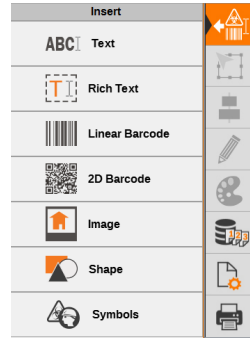
Once you have made your selections, click Finish to start designing your label.

Insert and Design Objects Menu

Each object on your label, such as a text box or an image, is added to your label through the Insert Menu.

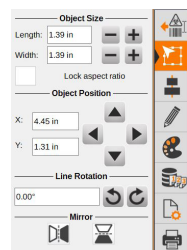
Click on the desired item type to add it to the center of your label; when an object has been added to the design, the new object will automatically be selected for editing. To select a different object, simply click on it in the design area; to select multiple objects, hold the Control key and click on each item.

- **Text:** Add simple text items to your label, useful for headers or static information. Basic text can be set to a fixed size or locked in place. Basic text also supports a “vertical” option.
- **Rich Text:** Add rich text items, useful for descriptive or dynamic content. Rich text can wrap within a box, and different parts of the same item can use different font styles.
- **Linear Barcode:** Add a line-style barcode in a variety of formats. Supported formats are Codabar, Code 128, Code 128B, Code 2 of 5 (Interleaved 2 of 5), Code 39, EAN13 (ISBN), EAN8 (8-2, 8-5), UPC-A (A2, A5), and UPC-E (A2, A5).
- **2D Barcode:** Add a grid-style barcode in a variety of formats. Supported formats are Data Matrix, PDF417, and QR Code.
- **Image:** Import a custom image, such as a company logo. Selecting this option will prompt you for the file that you want to use; supported file types are .bmp, .gif, .jpg/.jpeg, .png, .ppm, .svg, .tif, mng, .pbm, .pgm, .ico, .tiff, .xbm, and .xpm.
- **Shape:** Add geometric shapes such as lines, rectangles, and circles to your design. You can change the style of a selected Shape object by clicking on a different shape in the menu.
- **Symbols:** Add standardized symbols from a massive library, sorted by categories such as “Arrows,” “Injury,” and “Prohibited.” Choose a category on the left side of the Symbols window, select the desired symbol on the right side, and click the Insert button to add that symbol to your design. Importing symbols from any graphics is also available.



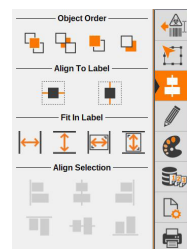
Dimensions Menu

When an object is selected, use this menu to precisely control an object’s size, position, or rotation. You can also quickly move the object by dragging it across the design area, or resize it by selecting it and dragging the control boxes at its corners. Note that the “aspect ratio” check box only applies to the width and height changed through this menu, not to the size change done using grips. (For grips, maintaining aspect ratio is done by holding the shift key.)



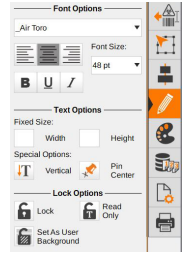
Order Menu

When an object is selected, use this menu to adjust the object’s arrangement relative to other objects or the label as a whole. You can center objects on the label, or align multiple selected objects to each other. You can also control whether an object covers up another, or is covered instead.



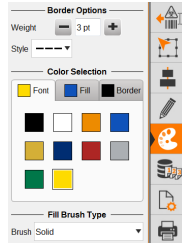
Details Menu

When an object is selected, use this menu to adjust the specific options available for that type of object. For example, for text objects, you can change the font and size, while for barcode objects, you can choose the barcode format and options for human-readable text (HRT).



Color Menu

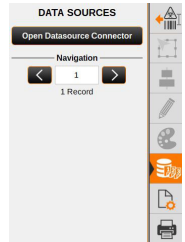
When an object is selected, use this menu to choose the colors for that object. You can select a wide variety of colors, even if the appropriate supplies are not currently loaded, but only colors that match your loaded supplies can be printed accurately. Fill options include patterns and gradients.



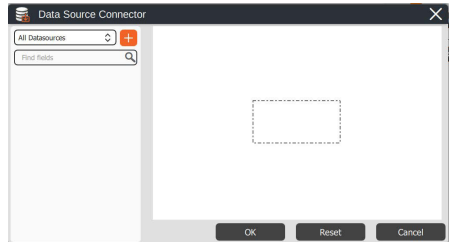
Data Source Menu

Connect your label design to a spreadsheet or database, and automatically generate a series of matching labels, or add automatically generated content to your existing label design.

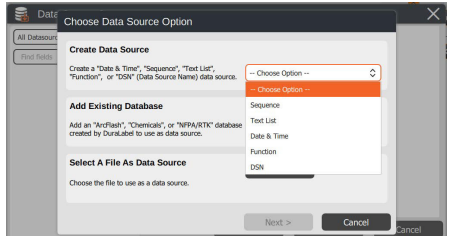
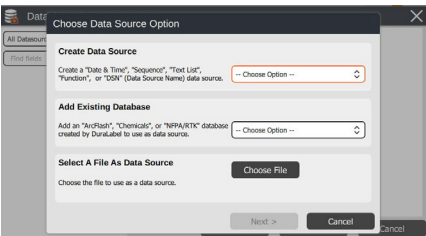
To use this function, start by pressing the “Open Datasource Connector” button from the Data Source menu. You must have some content on your label before being able to connect the label to a “source of data”.



The Data Source Connector has two panes: the left pane allows interaction with data sources, while the right pane shows a simplified view of the design area, and allows interaction with data-aware items (the modifiable items, that can be connected to data sources).

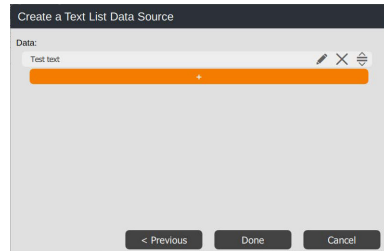
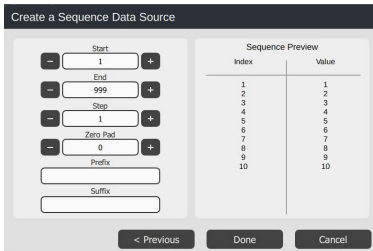


The first step in adding a data source is to press the “+” orange button. It will open the first page of a data source adding wizard.

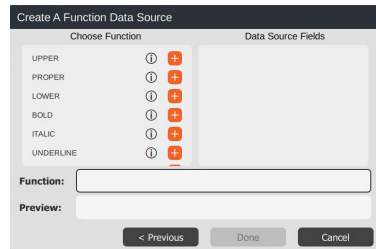
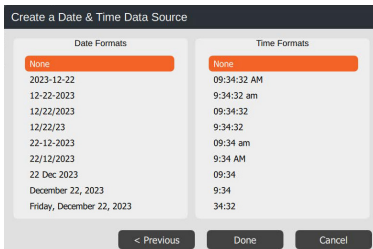


The data sources available are:

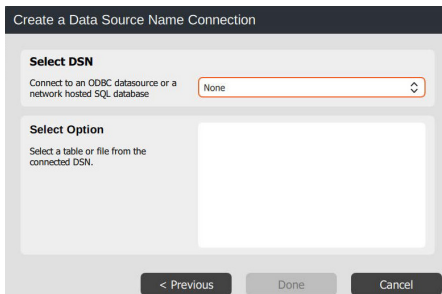
- **Sequence:** Set up a sequence of numbers, automatically counting from a given start value to a given end value. You can also add a prefix, suffix, or zero padding. No separate file is needed.
- **TextList:** Set up a sequence of text phrases, with each phrase appearing on its own label. While creating or editing the text list, use the “+” orange button to add a new entry, the pencil to edit an existing entry, the “X” to remove an entry and the dragging symbol to reorder the entries in list.



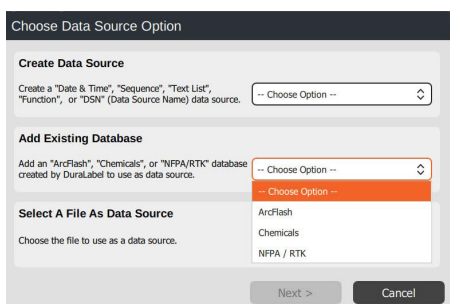
- **Date & Time:** Add the current date and/or time (as set on your system) to each label as it is printed. The wizard page will allow some choice of formats.
- **Function:** When using other Data Sources, the Function option lets you apply additional formatting to the information from those sources. It also provides a way to use more than one Data Source in a single design object, such as a product name immediately followed by its part number and description.



- **DSN:** Use a Data Source Name to get information from a database, following ODBC protocols. Network connections are possible; check with your IT team for help.

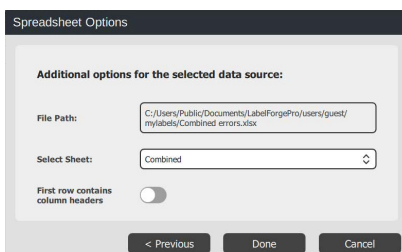
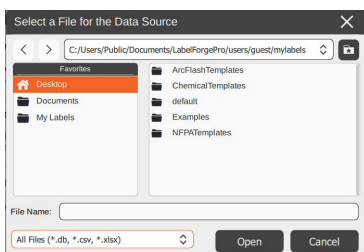


- **Add Existing Database:** Pull information from an existing database provided with the LabelForge Pro installation, such as:

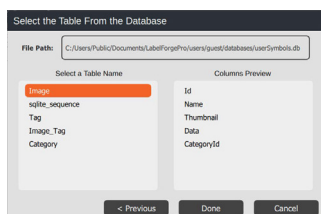


- An **Arc Flash** database, like the one used by LabelForge PRO's Arc Flash labeling module.
- A **GHS**-style chemical database, like the one used by LabelForge PRO's Chemical Labeling module.
- An **NFPA**-style chemical database, like the one used by LabelForge PRO's NFPA/RTK labeling module.

- **CSV:** Use a spreadsheet that has been saved in the widely-used Comma-Separated Value (CSV) format. Depending on your file content, you are able to set the first row to become the list of column names, to identify your columns with ease.
- **XLSX:** Use a spreadsheet that has been saved in the Microsoft Excel workbook format (Excel 2007 or newer). If multiple sheets exist, you will be prompted to select the sheet to use. The first row can also be set to be used for column names.



- **SQLite:** Use the SQLite database management system to get information from a database. Network connections are possible; check with your IT team for help. If multiple tables are available in the database, you will be prompted to select the table used as data source.



For the ArcFlash, CSV, GHS, ImageFolder, NFPA, or XLSX Data Source types, the necessary file or files will need to be available on the system where you are using LabelForge PRO, which includes any USB drives. If at a later date, either the label or the sources are moved, you will need to edit the data sources and update their paths.

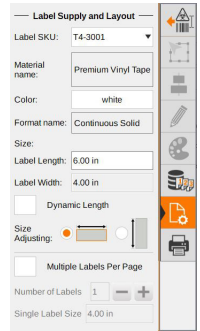
To edit the path of a data source, press the down-arrow on the data sources drop-down, and select the preferences icon.

To change the name of a data source, press the down-arrow on the data sources drop-down, and select the pencil icon.

Label Settings Menu

Choose basic label design options, such as the size of the label you are creating (or a dynamic size, which extends or shrinks to match your content) and the supplies you plan to use when printing your label.

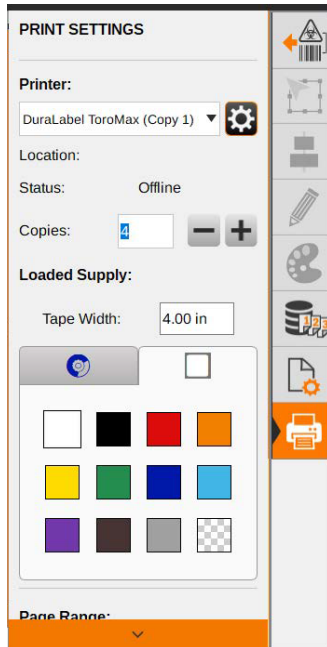
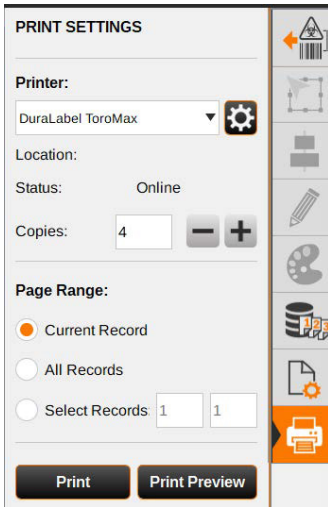
Selecting the “multiple labels per page” option will allow you to design one label on a portion of the page width; the design will be replicated during print.



Print Settings Menu

Adjust printing options, such as the common printing preferences. You can also choose which labels to print from an automatically generated set of labels, if you are using a Data Source.

The supply information will be populated automatically. Printing on a network printer, supply information is not available, so you will need to select the loaded supply.

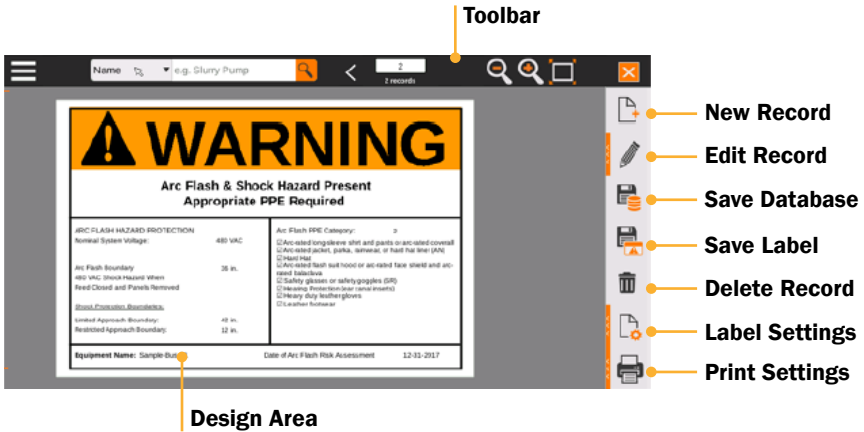


When you are ready to print your label, click the Print button in the Print Settings menu.

5

ARC FLASH

The Arc Flash module uses a searchable, editable database to keep track of your equipment details, and simplify the task of creating arc flash warning labels that match the NFPA 70E and CSA Z462 standards.



Arc Flash Toolbar

The toolbar across the top of the screen shows some common controls and options for the Arc Flash labeling module.



- 1. Hamburger Menu:** Access common file options, such as creating a new record, saving records, and exporting label designs.
- 2. Search Records:** Search the arc flash database by equipment name, date, or project name.
- 3. Record Number:** Identify the current record, out of the current database or search results.
- 4. Zoom Out/In/Fit:** Adjust your view of the design to allow fine-tuning.
- 5. Close:** Close the Arc Flash labeling module.

Navigating Records in the Database


The fastest way to find a specific record in the Arc Flash database is with the toolbar's search function.

1. Choose whether to search by Name (of the equipment), Date (of the arc flash risk assessment), or Project. The default search is by equipment name; to change this selection, click the current search type (such as "Name") in the toolbar, and make a new selection.
2. Type your search terms in the search box, and click the magnifying glass button or press Enter on your keyboard.
3. The first match (in alphabetical order, by equipment name) will be shown in the design area. Use the right or left arrows in the toolbar to browse through the search results.

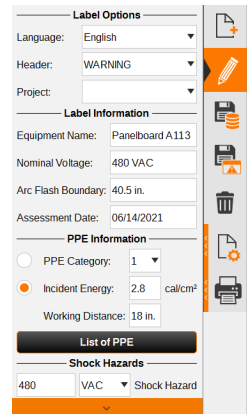
The number in the white box on the toolbar shows which search result you are currently seeing; the number below the box shows the total number of search results. If you do not enter any search terms, you can browse through the entire current database.



Creating and Editing Arc Flash Records

To create a new entry in your current Arc Flash database, click the New Record  button in the menu on the right. This creates a new, blank record. The Edit menu will slide out to let you add the details for this new entry. (To edit an existing entry, simply find that entry in the database and click the Edit Record button in the menu.)

1. **Label Options:** Choose your preferred label language; select the desired header (Danger, Warning, or Caution); and choose a project (or type a new project name) to keep related labels together.
2. **Label Information:** Enter the basic information for this label (equipment name, nominal voltage, arc flash boundary, and assessment date).
3. **PPE Information:** Choose whether the label will show an Arc Flash PPE Category or a calculated Incident Energy and Working Distance, and enter the appropriate information.



4. Also in the PPE section is the button for “List of PPE.” This will open a window where you can select the complete list of required PPE items by checking the box for each required item. By default, the list of PPE is alphabetical, but you can also sort the list by PPE categories: click the number for the category you want listed first. If desired, you can add, remove, or edit PPE items in this list as well.

PPE	1	2	3	4
<input type="checkbox"/> Selective blankets				
<input type="checkbox"/> Arc-rated arc flash hood			X	X
<input type="checkbox"/> Arc-rated arc flash suit pant...			X	X
<input type="checkbox"/> Arc-rated arc flash suit...			X	X
<input type="checkbox"/> Arc-rated coverall (AR)			X	X
<input checked="" type="checkbox"/> Arc-rated face shield or arc...	X			
<input type="checkbox"/> Arc-rated flash suit hood or ...		X		
<input type="checkbox"/> Arc-rated gloves			X	X
<input checked="" type="checkbox"/> Arc-rated jacket, parka, ...	X	X	X	X

5. **Shock Hazards:** Enter the voltage and conditions of a shock hazard, as well as the shock protection boundaries (Limited and Restricted Approach).

Shock Hazards

480 VAC Shock Hazard

Front Panels Opened


Shock Protection Boundaries

Limited Approach: 3 ft. 6 in.

Restricted Approach: 1 ft.

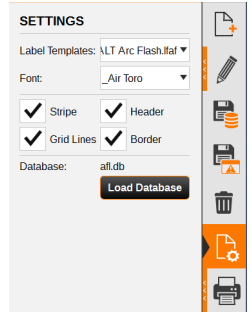
When the details have been entered, click the Save to Database button to add your new entry to the Arc Flash module’s current database. The Save Label button will export your current label design to its own file, so you can adjust the design in the Label Designer module. If you want to remove the current record from the database, click the Delete Record button.

Templates, Sizes, and Settings


To print Arc Flash labels in different sizes, or to use custom templates, open the Label Settings  menu and select the appropriate template with the drop-down Label Templates menu. The default templates are named so that the size of the label is shown first (with dimensions in inches).

In the same menu, you can also choose a font for the text of your label, and you can toggle optional label elements (such as grid lines or a border). You can also choose whether to print the colored stripe at the top of the label, or the header text and alert symbol; disable these options if you are using pre-printed label stock with those elements already in place.

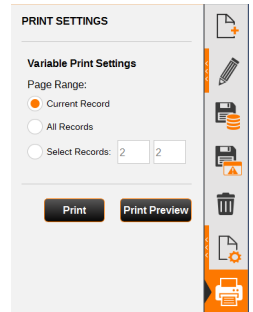
This menu also lets you select which arc flash database you are using, if more than one database is available.



Printing a Label

When you are ready to print, click the Print Settings  button. Here, choose which labels you want to print, and how many copies of each. You can also check a Print Preview here.

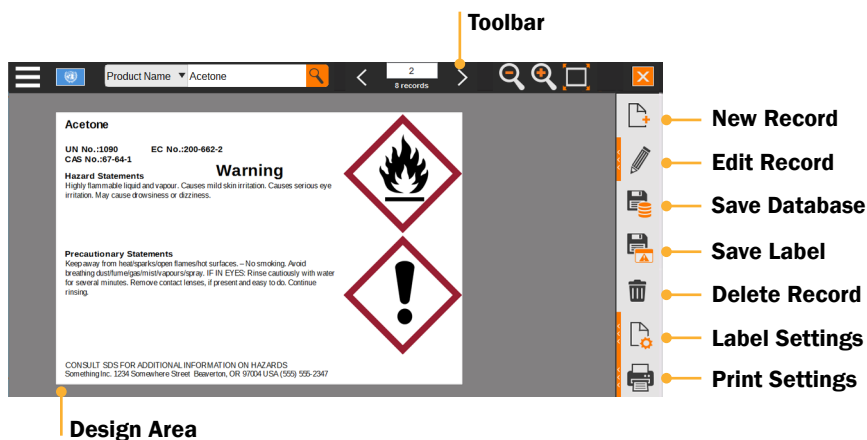
Click the Print button to start the new print job.



6

CHEMICAL LABELING

The Chemical Labeling module uses a searchable, editable database of chemical information to make GHS-style container labels. The module allows you to use the HazCom 2012 format (US/OSHA), or standardized GHS (UN/international).



Chemical Labeling Toolbar

The toolbar across the top of the screen shows some common controls and options for the Chemical Labeling module.



- 1. Hamburger Menu:** Access common file options, such as creating a new record, saving records, and exporting label designs.

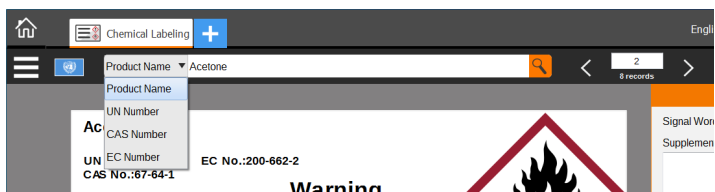
	New Record
	Save Record
	Save As New Record
	Export
	Help
	Info
- 2. Country/Authority Menu:** Choose the format for your chemical labels: OSHA's HazCom 2012 format, the UN's international GHS format, or a custom style.
- 3. Search Records:** Search LabelForge PRO's GHS-style chemical database by product name or identifying number.
- 4. Record Number:** Identify the current record, out of the current database or search results.
- 5. Zoom Out/In/Fit:** Adjust your view of the design to allow fine-tuning.
- 6. Close:** Close the Chemical Labeling module.

Navigating Records in the Database



The fastest way to find a specific record in the Chemical Labeling database is with the toolbar's search function.

1. Choose whether to search by Product Name or one of the material's identifying numbers (UN number, CAS Number, or EC Number). The default search is by chemical name; to change this selection, click the current search type (such as "Name") in the toolbar, and make a new selection.
2. Type your search terms in the search box, and click the magnifying glass button or press Enter on your keyboard.
3. The first match (in alphabetical order, by equipment name) will be shown in the design area. Use the right or left arrows in the toolbar to browse through the search results.

The number in the white box on the toolbar shows which search result you are currently seeing; the number below the box shows the total number of search results. If you do not enter any search terms, you can browse through the entire current database.

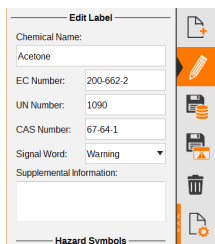


Creating and Editing Chemical Records

To create a new entry in your current chemical database, click the New Record  button in the menu on the right. This creates a new, blank record. The Edit menu will slide out to let you add the details for this new material. (To edit an existing chemical entry, simply find that entry in the database and click the Edit Record  button in the menu.)

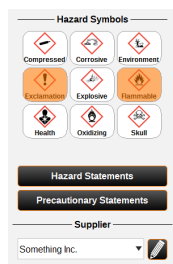
All the information that is needed for a complete label can be found in the material's Safety Data Sheet (SDS). If that document is not available, contact the material's supplier for more information.


1. **Edit Label:** Set the basic details for this entry, such as the product name, identifying numbers, signal word, and any supplemental information.



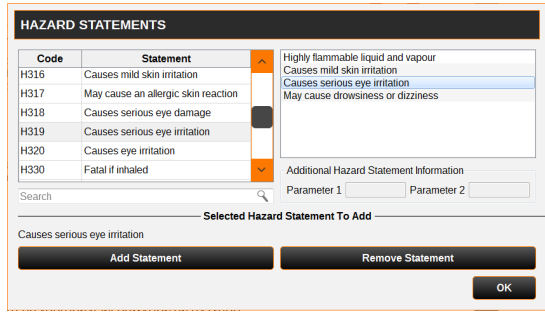
2. **Hazard Symbols:**

Click on a symbol to make it appear on this label. Current symbols will be highlighted in orange; click on the symbol again to remove it.




3. Hazard Statements: Click this button  to open a new window and select the hazard statements for your material.

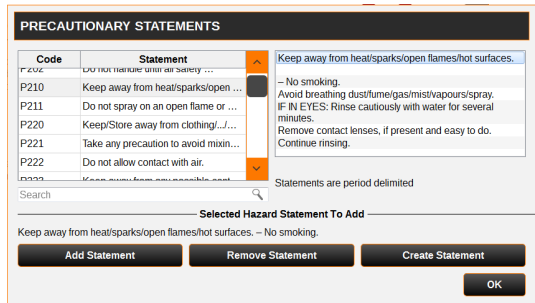
a. In this window, select an appropriate statement from the full list on the left (sorted by reference code). To find a specific statement, type in the search box in the lower left. When the desired statement has been selected, click Add Statement to add it to the current list, on the right.




- b. For hazard statements with additional details, select the statement and type the appropriate information in the parameter fields in the lower right. For compliance with standards, hazard statements cannot be freely edited.
- c. If you need to remove a statement from the current list, select it and click Remove Statement.
- d. When you've added the appropriate Hazard Statements, click OK to continue.

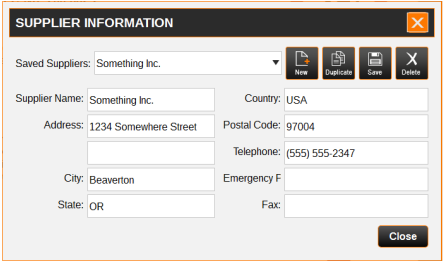
4. Precautionary Statements: Click this button  to open a new window for these statements. As with Hazard Statements, select a statement from the left and click Add Statement.




a. As with Hazard Statements, select an appropriate statement from the full list on the left (sorted by reference code). To find a specific statement, type in the search box in the lower left. When the desired statement has been selected, click Add Statement to add it to the current list, on the right.




- b. Precautionary statements can be edited by selecting a statement and typing. You can also add a blank statement with the Create Statement button to add your own customized text. Individual statements are separated by periods.
- c. If you need to remove a statement from the current list, select it and click Remove Statement.
- d. When you've added the appropriate Precautionary Statements, click OK to continue.

5. Supplier: If you have already entered information for the supplier or other responsible party, you can select that organization from the drop-down list. To add a new supplier or edit supplier information, click the small Edit button  next to the drop-down menu; this will open a new window for supplier details.

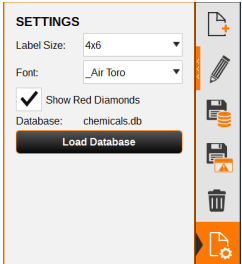


When the details have been entered, click the Save to Database  button to add your new entry to the Chemical Labeling module's current database. The Save Label  button will export your current label design to its own file, so you can adjust the design in the Label Designer module. If you want to remove the current record from the database, click the Delete Record  button.


Templates, Sizes, and Settings

To print chemical labels in different sizes, open the Label Settings  menu and select the appropriate template with the drop-down Label Size menu. In the same menu, you can also choose a font for the text of your label.

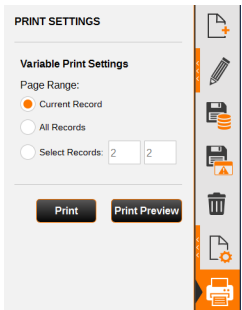
This menu also lets you select which chemical database you are using, if more than one database is available.



Printing a Label

When you are ready to print, click the Print Settings  button. Here, choose which labels you want to print, and how many copies of each. You can also check a Print Preview here.

Click the Print button to start the new print job.

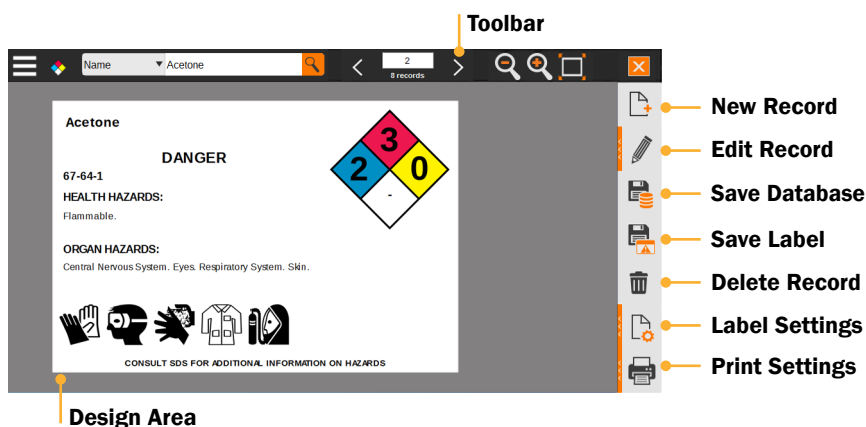


7

NFPA/RTK

The NFPA/RTK module uses a searchable, editable database of chemical information to make supplemental chemical labels based on the NFPA 704 hazard rating system. This system assigns a numeric rating for a material's hazards in each of three categories (health, flammability, and instability).

The NFPA 704 labeling system and its variations were originally intended to protect first responders in an emergency. Labels created in this module build on that foundation, but may not satisfy the regulatory requirements that apply in your case; check with your local authorities to ensure compliance.



NFPA/RTK Toolbar

The toolbar across the top of the screen shows some common controls and options for the NFPA/RTK module.



- 1. Hamburger Menu:** Access common file options, such as creating a new record, saving records, and exporting label designs.
- 2. Authority Menu:** Choose the format for your chemical labels, using the familiar NFPA Diamond layout or an alternative RTK Color Bar format.
- 3. Search Records:** Search LabelForge PRO's NFPA-style chemical database by product name or CAS number.
- 4. Record Number:** Identify the current record, out of the current database or search results.
- 5. Zoom Out/In/Fit:** Adjust your view of the design to allow fine-tuning.
- 6. Close:** Close the NFPA/RTK module.

Navigating Records



The fastest way to find a specific record in the NFPA/RTK database is with the toolbar's search function.

1. Choose whether to search by the material's Name or CAS Number. The default search is by chemical name; to change this selection, click the current search type (such as "Name") in the toolbar, and make a new selection.
2. Type your search terms in the search box, and click the magnifying glass button or press Enter on your keyboard.
3. The first match (in alphabetical order, by chemical name) will be shown in the design area. Use the right or left arrows in the toolbar to browse through the search results.

The number in the white box on the toolbar shows which search result you are currently seeing; the number below the box shows the total number of search results. If you do not enter any search terms, you can browse through the entire current database.



Creating and Editing Records

To create a new entry in your current NFPA-style chemical database, click the New Record  button in the menu on the right. This creates a new, blank record. The Edit menu will slide out to let you add the details for this new material. (To edit an existing chemical entry, simply find that entry in the database and click the Edit  button in the menu.)

1. NFPA

Information:

Set the basic details for this entry, such as the product name, CAS number, and signal word.

2. Edit Rating:

Click the plus or minus buttons to adjust the ratings for the chemical, from 0 to 4.

3. Specific Ratings:

If your material poses a special hazard, such as being an oxidizer (OX) or simple asphyxiant (SA), click the arrow to expand this section. Check the box for any hazard that applies; these selections will be noted in the white section of the multi-colored diamond on the label. If multiple hazards are selected, they may appear outside the diamond.

4. Health Hazards:

If your material poses a specific health hazard, such as being an irritant or carcinogen, click the arrow to expand this section. Check the box for any hazard that applies; these selections will appear on the label in text.

5. Organ Hazards:




If your material poses a direct hazard to specific organs, such as kidneys or respiratory system, click the arrow to expand this section. Check the box for any hazard that applies; these selections will appear on the label in text.

6. PPE Symbols:


If specific personal protective equipment (PPE) is required to safely handle this material, such as gloves or a respirator, click the arrow to expand this section. Check the box for any PPE symbol that you want to include. You can also add symbols to this list with the “Import” function. PPE symbols are not shown on the label by default, but can be enabled in the Label Settings menu.

7. Comments:

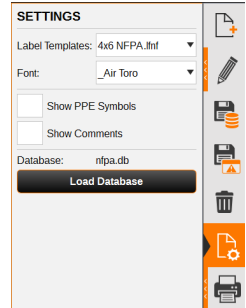
If there are additional comments you would like to include on the label, click the arrow to expand this section and type your comments in the field provided. Comments are not shown on the label by default, but can be enabled in the Label Settings menu.

When the details have been entered, click the Save to Database  button to add your new entry to the Chemical Labeling module’s current database. The Save Label  button will export your current label design to its own file, so you can adjust the design in the Label Designer module. If you want to remove the current record from the database, click the Delete Record  button.

Templates, Sizes, and Settings


To print NFPA-style chemical labels in different sizes, open the Label Settings  menu and select the appropriate template with the drop-down Label Templates menu. The default templates are named so that the size of the label is shown first (with dimensions in inches).

In the same menu, you can also choose a font for the text of your label, and toggle optional elements such as PPE symbols and comments. Not all templates allow for PPE symbols and/or comment text.

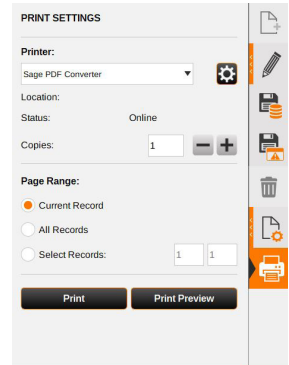


This menu also lets you select which NFPA-style chemical database you are using, if more than one database is available.

Printing a Label

When you are ready to print, click the Print Settings  button. Here, choose which labels you want to print, page range, and how many copies of each. You can also check a Print Preview here.

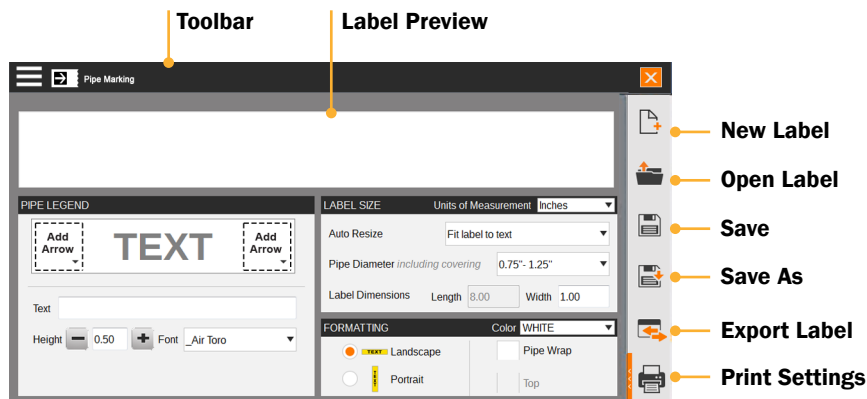
Click the Print button to start the new print job.



8

PIPE MARKING

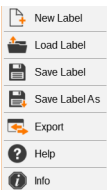
The Pipe Marking module uses the recommendations of the ANSI/ASME A13.1 standard to create simple and effective pipe labels. It also includes a specialized module for labeling the parts of ammonia-based refrigeration systems, following the IIAR Bulletin No. 114 approach. Finally, it includes a simple option for creating arrow wraps, which can be applied around the circumference of a pipe to show the direction of flow.



Pipe Marking Toolbar

The toolbar across the top of the screen shows some of the options for the Pipe Marking module.



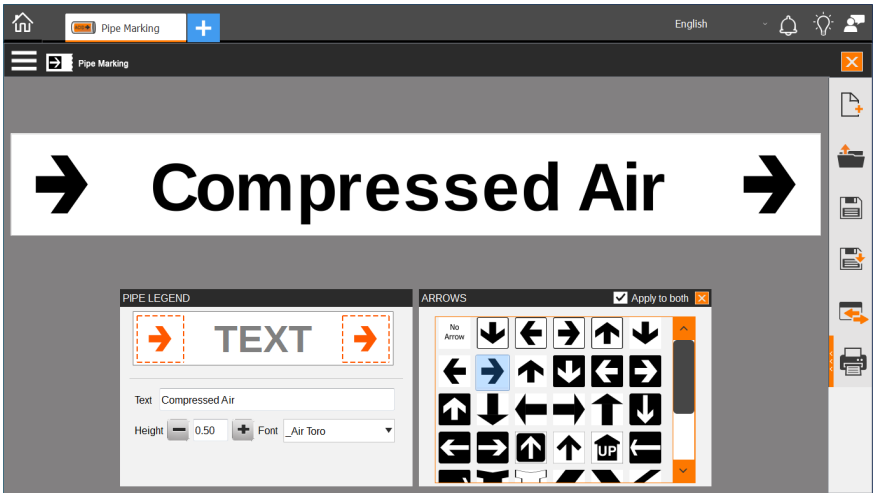
- 1. Hamburger Menu:** Access common file options, such as creating a new label, saving labels, and exporting label designs. The most common choices here are also available in the menu on the right side of the screen.
- 2. Module Menu:** Choose the type of pipe marker you are creating: basic ANSI/ASME labels, ammonia refrigeration pipe labels, or arrow wraps.
- 3. Close:** Close the Pipe Marking module.

Creating a Basic Pipe Marker

To create a new pipe label in the default ANSI/ASME A13.1 style, follow these steps:

First, decide on the printed content of your pipe marker, using the Pipe Legend box on the left side of the screen:

1. Click in the Text field and type the text that your label should include.
2. To add an arrow to either end of your label, click one of the dashed-line squares in the Pipe Legend box, and choose an arrow style from the slide-out menu that appears. Repeat the process for the other end of the label; if the same arrow should appear on both ends of the label, check the box for Apply to Both. To close the slideout menu, click the dashed-line square again.
3. If you prefer, you can adjust the text size or font with the options at the bottom of this window. The default selections are designed to be clearly readable.



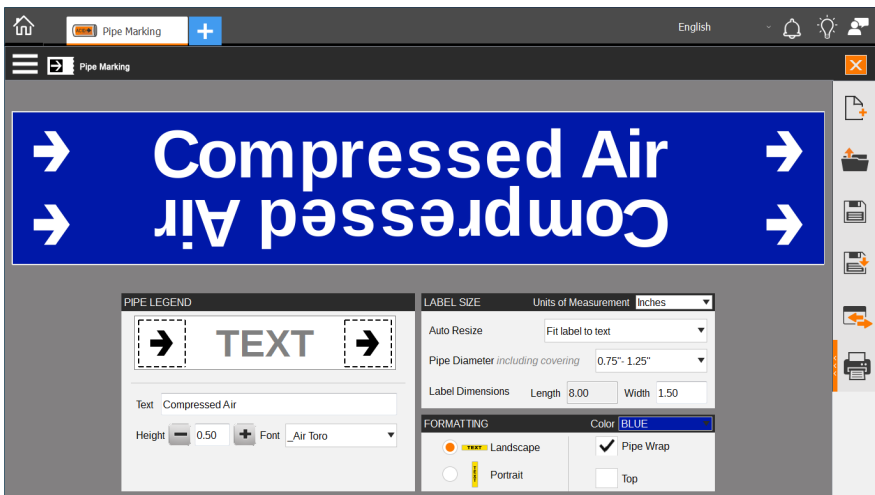
Then, set the dimensions of your pipe marker using the Label Size box on the right side of the screen:

1. Choose your Auto Resize preference:
 - a. **Fit label to text:** automatically set your label's length to fit the text that you have entered
 - b. **Fit text to label:** automatically resize your text to fit the specified label dimensions
 - c. **None:** no automatic adjustments

2. Select the pipe diameter to use the recommended dimensions for a pipe of that size, or manually enter your preferred label dimensions in the Length and Width boxes. (When using the “Fit Label to Text” resize option, the length of the label will be automatically determined.)



Finally, set special formatting options in the Formatting box on the right side of the screen:

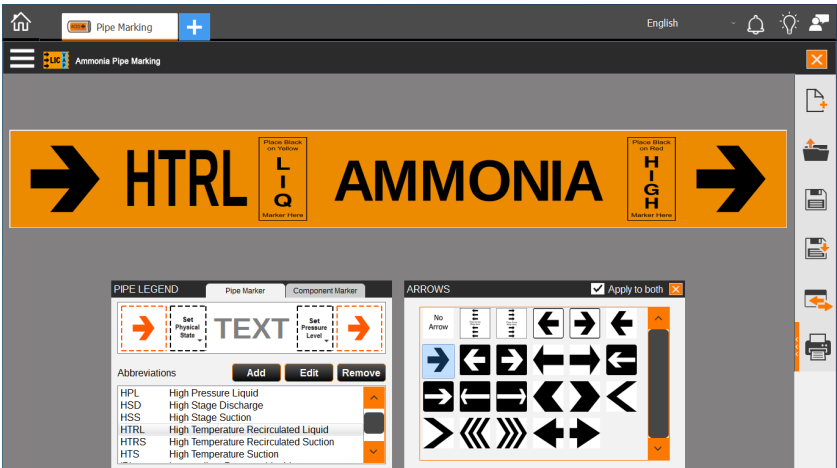
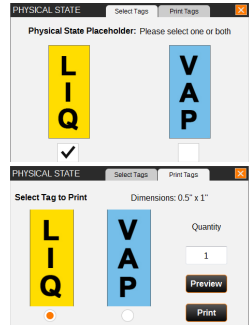
1. Choose your label's background color in the dropdown menu. (The color of text and other printed details, either black or white, will be chosen automatically for standard compliance and readability. Note that the printed label colors will depend on the supplies loaded in your printer.)
2. Choose Landscape (default) or Portrait orientation for your label.
3. If you need your label to be visible from multiple directions, select Pipe Wrap. By default, this makes a label that will be placed along the bottom of a pipe, to be read from either the left or right side; for a label that will be placed along the top of the pipe, check the box for Top.



Creating an Ammonia Pipe Marker

To create a new pipe or component label for ammonia-based refrigeration systems, using the IIAR Bulletin No. 114 styles, follow these steps:

1. Choose Ammonia Pipe Marking from the module menu in the toolbar.
2. Using the tabs at the top of the Pipe Legend box, on the left side of the screen, select whether you are making a pipe marker or a component marker. Then, set the printed content for the label:
 - a. Select the equipment or component name from the list at the bottom of the Pipe Legend box. You can add custom items to the list with the Add button, or edit or remove selected items from the list with the Edit or Remove buttons.
 - b. To add the physical state select the icon representing vapor and a liquid droplet  and for the pressure level click on the icon represented as a pressure dial  and choose the appropriate information from their respective slide-outs. Each slide-out menu also has a tab for printing these smaller labels separately. To close the slide-out menu, either click the selected icon again or the X in the upper right corner of the slide-out.
 - c. To add an arrow to either end of an ammonia pipe marker, click one of the dashed-line squares, with the “Add Arrow” text contained within, in the Pipe Legend box, and choose an arrow style from the slide-out menu that appears. Repeat the process for the other end of the label; if the same arrow should appear on both ends of the label, check the box for Apply to Both. To close the slide-out menu, click the dashed-line square, or the X in the upper right corner of the slide-out.



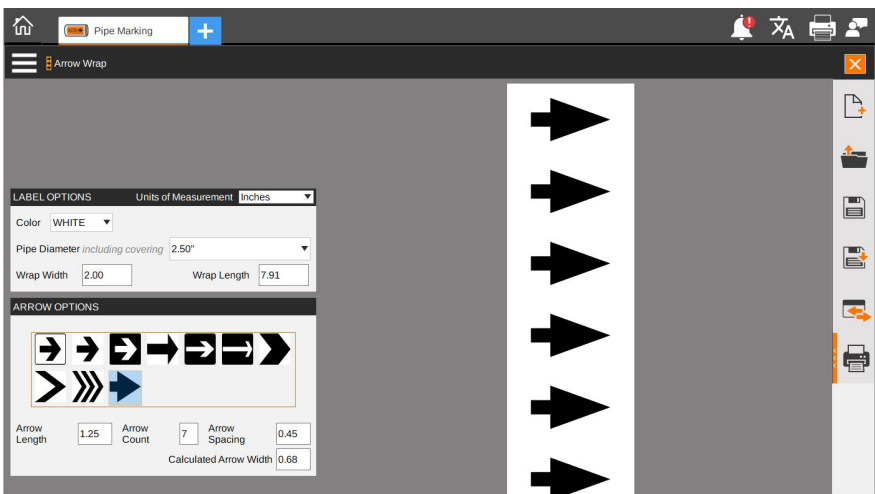
- In the Label Size box on the right side of the screen, select the pipe diameter to use the recommended dimensions for a pipe of that size, or manually enter your preferred label dimensions in the width box.
- The detailed size options in the Settings box will update automatically if you choose a pipe diameter; if you manually enter a custom size, you may need to adjust these options.

You can also choose whether to print with an orange background or with a yellow background (to match existing labels in the older format). Note that the printed label colors will depend on the supplies loaded in your printer.


Creating an Arrow Wrap


To create a band of printed arrows that can be applied around a pipe to show the direction of flow, follow these steps:


- Choose Arrow Wrap from the module menu in the toolbar.
- Choose the color of the band background. The arrow color, either black or white, will be automatically selected for standard compliance and visibility. (Note that the printed label colors will depend on the supplies loaded in your printer.)
- Select the diameter of the pipe you will be labeling; the program will automatically calculate recommended sizes and spacing. You can also manually set the wrap width, wrap length, arrow length, number of arrows, or spacing between arrows.
- Set the arrow style by clicking on your choice in the Arrow Options box.




Saving or Exporting Label Designs

To save a label, click the Save  button in the menu along the right side of the screen (or choose Save Label from the Hamburger Menu). If the label has already been saved, the existing file will be updated; if not, you will be prompted to choose a file name and location.

To save the label as a new file, leaving the old version intact, click the Save As  button in the menu along the right side of the screen (or choose Save Label As from the Hamburger Menu). You will be prompted to choose a file name and location.

To export a label for fine-tuning or other adjustments in the Label Designer module, click the Export button  in the menu along the right side of the screen (or choose Export Label from the Hamburger Menu). You will be prompted to choose a file name and location, and you will be able to open the new file in the Label Designer.


Printing a Label

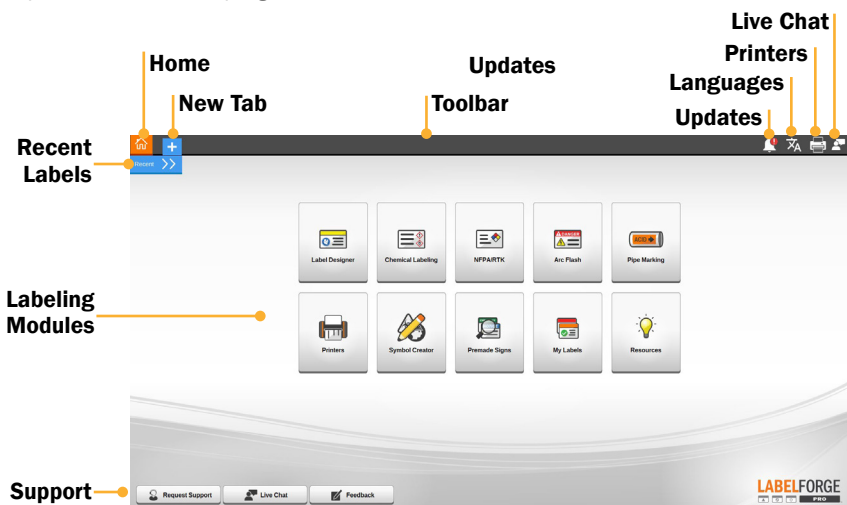
When you are ready to print, click the Print Settings  button. Here, choose which labels you want to print, and how many copies of each. You can also check a Print Preview here.

Click the Print button to start the new print job.

9


ADDITIONAL OPTIONS IN LABELFORGE PRO ON PC


When you start the PC version of LabelForge PRO, you will see the software's Home Screen. You can also return to the Home Screen by clicking the Home  button in the top left corner of the program window.



Toolbar and Additional Options

You can return to a recent label design with the Recent menu, near the top left corner of the screen. The PC version of LabelForge PRO includes these additional modules:

- **My Labels:** Browse the label designs that you have created in the Label Designer module, using thumbnail previews of the labels.
- **Resources:** Visit the DuraLabel.com website to view How-To Videos or read a digital copy of this User Guide. An internet connection is required.
- **Printers:** If you have a Toro Max or Bronco Max printer connected to your PC, you can use this module to manage those printers' internal settings and software updates. You can also reach this section by clicking the Printers icon  in the toolbar. An internet connection is required to check for updates.
- **Symbol Creator:** Allows the users to import images in a variety of file formats, to be converted into a native format for use within LabelForge PRO.

Along the bottom of the program window are support buttons, allowing you to quickly Request Support, start a Live Chat with an available representative, or offer your Feedback on the software to help guide future updates. You can also start a Live Chat by clicking the chat icon in the top right corner of the program window. An internet connection is required  for these options.

Printing From PC

When printing from the PC version of LabelForge PRO, you will see a standard Print dialog window where you can select which printer to use, and how many copies of the design to print. You can control your DuraLabel printer's settings for this print job by selecting that printer and clicking the Preferences button in this window.

10

THIRD-PARTY SOFTWARE

This is a comprehensive list of third-party software and libraries used by LabelForge PRO, organized by their license type.

GNU General Public License version 2 (GPL-2)

- obexftp: <https://sourceforge.net/projects/openobex/files/obexftp>
- openobex: <https://sourceforge.net/projects/openobex/files/openobex>
- obexpushd: <https://launchpad.net/ubuntu/+source/obexpushd>
- obexd: <https://www.kernel.org/pub/linux/bluetooth>
- rtl8188eu: <https://github.com/lwfinger/rtl8188eu>
- mtd-utils: <http://git.infradead.org/mtd-utils.git>
- mysql odbc: <https://dev.mysql.com/downloads/connector/odbc>
- psqlodbc: <https://ftp.postgresql.org/pub/odbc/versions/src>
- poppler: <http://poppler.freedesktop.org>
- cups-filters: <http://openprinting.org/download/cups-filters>
- potrace: <http://potrace.sourceforge.net/#license>
- u-boot: <https://github.com/u-boot/u-boot>

GNU General Public License version 3 (GPL-3)

- zint: <http://sourceforge.net/projects/zint>
- samba: <https://www.samba.org/samba/download>
- <https://github.com/KDE/libqapt/blob/master/COPYING>

GNU Lesser General Public License version 2.1 (LGPL-2.1)

- unixODBC: <http://www.unixodbc.org>
- qt-gstreamer: <https://gstreamer.freedesktop.org/src/>
- libqxt: <https://github.com/mnuttl/libqxt>
- CuteLogger: <https://github.com/dept2/CuteLogger>
- qjson: <https://github.com/flavio/qjson/blob/master/COPYING.lib>

THIRD-PARTY SOFTWARE

GNU Library General Public License version 2 (LGPL-2)

- freetds: <https://github.com/FreeTDS/freetds>

GNU free documentation License version 1.3 (fdL-1.3)

- Qt Spreadsheet Example:
<http://doc.qt.io/qt-5/qtwidgets-itemviews-spreadsheetexample.html>

BSD 3.0

- wpa_supplicant: https://w1.fi/cgiit/hostap/plain/wpa_supplicant/README

MIT License

- QtXlsx: <http://qtxlsx.debao.me>
- ijs: <http://www.openprinting.org/download/ijms/download>
- lcms: <https://sourceforge.net/projects/lcms/files/lcms>
- seedrandom.js: <https://github.com/davidbau/seedrandom>

Custom Licenses

- libsqlite3odbc: <http://www.ch-werner.de/sqliteodbc>
- openjpeg: <https://github.com/uclouvain/openjpeg>
- zlib(GPCompression): <https://github.com/madler/zlib>

LABELFORGE



PRO

™



DuraLabel®

800-788-5572 | DuraLabel.com