

**Thermo Scientific
ID Scribe
Labware Identifier**

User Manual





Thermo Scientific ID Scribe User Manual



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| CAUTION Symbol | CAUTION | VORSICHT | ATTENTION | PRECAUCION | AVVERTENZA |
|--|--|--|---|---|--|
|  | Electric Shock: This instrument uses high voltages that can cause personal injury. Before servicing, shut down the instrument and disconnect the instrument from line power. Keep the top cover on while operating the instrument. Do not remove protective covers from PCBs. | Elektroschock: In diesem Gerät werden Hochspannungen verwendet, die Verletzungen verursachen können. Vor Wartungsarbeiten muß das Gerät abgeschaltet und vom Netz getrennt werden. Betreiben Sie Wartungsarbeiten nicht mit abgenommenem Deckel. Nehmen Sie die Schutzabdeckung von Leiterplatten nicht ab. | Choc électrique: L'instrument utilise des tensions capables d'infliger des blessures corporelles. L'instrument doit être arrêté et débranché de la source de courant avant tout intervention. Ne pas utiliser l'instrument sans son couvercle. Ne pas enlever les étuis protecteurs des cartes de circuits imprimés. | Descarga eléctrica: Este instrumento utiliza altas tensiones, capaces de producir lesiones personales. Antes de dar servicio de mantenimiento al instrumento, éste deberá apagarse y desconectarse de la línea de alimentación eléctrica. No opere el instrumento sin sus cubiertas exteriores quitadas. No remueva las cubiertas protectoras de las tarjetas de circuito impreso. | Shock da folgorazione. L'apparecchio è alimentato da corrente ad alta tensione che può provocare lesioni fisiche. Prima di effettuare qualsiasi intervento di manutenzione occorre spegnere ed isolare l'apparecchio dalla linea elettrica. Non attivare lo strumento senza lo schermo superiore. Non togliere i coperchi a protezione dalle schede di circuito stampato (PCB). |
|  | Chemical: This instrument might contain hazardous chemicals. Wear gloves when handling toxic, carcinogenic, mutagenic, or corrosive or irritant chemicals. Use approved containers and proper procedures to dispose waste oil. | Chemikalien: Dieses Gerät kann gefährliche Chemikalien enthalten. Tragen Sie Schutzhandschuhe beim Umgang mit toxischen, karzinogenen, mutagenen oder ätzenden/reizenden Chemikalien. Entsorgen Sie verbrauchtes Öl entsprechend den Vorschriften in den vorgeschriebenen Behältern. | Chimique: Des produits chimiques dangereux peuvent se trouver dans l'instrument. Portez des gants pour manipuler tous produits chimiques toxiques, cancérogènes, mutagènes, ou corrosifs/irritants. Utiliser des récipients et des procédures homologués pour se débarrasser des déchets d'huile. | Química: El instrumento puede contener productos químicos peligrosos. Utilice guantes al manejar productos químicos tóxicos, carcinógenos, mutágenos o corrosivos/irritantes. Utilice recipientes y procedimientos aprobados para deshacerse del aceite usado. | Prodotti chimici. Possibile presenza di sostanze chimiche pericolose nell'apparecchio. Indossare dei guanti per maneggiare prodotti chimici tossici, cancerogeni, mutageni, o corrosivi/irritanti. Utilizzare contenitori aprovo e seguire la procedura indicata per lo smaltimento dei residui di olio. |
|  | Heat: Before servicing the instrument, allow any heated components to cool. | Hitze: Warten Sie erhitzte Komponenten erst nachdem diese sich abgekühlt haben. | Haute Temperature: Permettre aux composants chauffés de refroidir avant tout intervention. | Altas temperaturas: Permita que los componentes se enfrien, ante de efectuar servicio de mantenimiento. | Calore. Attendere che i componenti riscaldati si raffreddino prima di effettuare l'intervento di manutenzione. |
|  | Fire: Use care when operating the system in the presence of flammable gases. | Feuer: Beachten Sie die einschlägigen Vorsichtsmaßnahmen, wenn Sie das System in Gegenwart von entzündbaren Gasen betreiben. | Incendie: Agir avec précaution lors de l'utilisation du système en présence de gaz inflammables. | Fuego: Tenga cuidado al operar el sistema en presencia de gases inflamables. | Incendio. Adottare le dovute precauzioni quando si usa il sistema in presenza di gas infiammabili. |
|  | Eye Hazard: Eye damage could occur from splattered chemicals or flying particles. Wear safety glasses when handling chemicals or servicing the instrument. | Verletzungsgefahr der Augen: Verspritzte Chemikalien oder kleine Partikel können Augenverletzungen verursachen. Tragen Sie beim Umgang mit Chemikalien oder bei der Wartung des Gerätes eine Schutzbrille. | Danger pour les yeux: Des projections chimiques, liquides, ou solides peuvent être dangereuses pour les yeux. Porter des lunettes de protection lors de toute manipulation de produit chimique ou pour toute intervention sur l'instrument. | Peligro par los ojos: Las salicaduras de productos químicos o partículas que saltan bruscamente pueden causar lesiones en los ojos. Utilice anteojos protectores al manipular productos químicos o al darle servicio de mantenimiento al instrumento. | Pericolo per la vista. Gli schizzi di prodotti chimici o delle particelle presenti nell'aria potrebbero causare danni alla vista. Indossare occhiali protettivi quando si maneggiano prodotti chimici o si effettuano interventi di manutenzione sull'apparecchio. |
|  | General Hazard: A hazard is present that is not included in the above categories. Also, this symbol appears on the instrument to refer the user to instructions in this manual. | Allgemeine Gefahr: Es besteht eine weitere Gefahr, die nicht in den vorstehenden Kategorien beschrieben ist. Dieses Symbol wird im Handbuch außerdem dazu verwendet, um den Benutzer auf Anweisungen hinzuweisen. | Danger général: Indique la présence d'un risque n'appartenant pas aux catégories citées plus haut. Ce symbole figure également sur l'instrument pour renvoyer l'utilisateur aux instructions du présent manuel. | Peligro general: Significa que existe un peligro no incluido en las categorías anteriores. Este símbolo también se utiliza en el instrumento par referir al usuario a las instrucciones contenidas en este manual. | Pericolo generico. Pericolo non compreso tra le precedenti categorie. Questo simbolo è utilizzato inoltre sull'apparecchio per segnalare all'utente di consultare le istruzioni descritte nel presente manuale. |
|  | Pinch Hazard: Moving parts can damage hands and/or other body parts. Use extreme care. Do not reach into an operating system. Always keep covers in place. Lift objects with care. | Kneifen Sie Gefahr: Bewegenteile können Hände bzw. andere Körperteile beschädigen. Benutzen Sie äußerste Sorge. Greifen Sie kein Betriebssystem hinein. Behalten Sie immer Decken an der richtigen Stelle. Aufzug wendet gegen vorsichtig ein. | Pincer le Danger : Les parties en mouvement peuvent endommager des mains et/ou les autres parties de corps. Utiliser le soin extrême. Ne pas atteindre dans un système d'exploitation. Toujours garder des couvertures à sa place. L'ascenseur s'oppose avec soin. | Pellizque Peligro: Las piezas móviles pueden dañar manos y/o otras partes de cuerpo. Utilice cuidado extremo. No alcance en un sistema operativo. Siempre mantenga coberturas en el lugar. El ascensor se opone con cuidado. | |

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About this User Manual

The Thermo Scientific ID Scribe (PN3200) and ID Scribe HT (PN3205) are labware identifiers that simply and efficiently write legible sample information onto tubes, vials and other labware.

Intended users

This user manual is written for the end user, for example, research scientist or laboratory technician, and provides information on the Thermo Scientific ID Scribe, including installation and operating instructions. The ID Scribe is intended for use by persons who have been trained on standard laboratory equipment safety and use.

Read the manual in its entirety before operating this instrument.

How to use this user's manual

This user manual is designed to give you the information to:

- Review safety precautions
- Set up the ID Scribe
- Install and use the ID Scribe software
- Perform writing on labware
- Perform basic cleaning and maintenance
- Troubleshoot the instrument

The user manual also describes all the features and specifications of the ID Scribe instrument.



Related Documentation

In addition to this guide, Thermo Fisher Scientific provides the following documents for the ID Scribe:

- Service Manual
- Cross Reference Chart
- Specification Sheet

Contacting Us

There are several ways to contact Thermo Fisher Scientific for the information you need:

❖ **To contact Technical Support**

North America:

Phone: 800-345-0206

E-mail: USHUD-Technicalservices@thermofisher.com

Europe:

Phone: 0044 (0) 161 4862110

Fax: 0044 (0) 161 4884560

E-mail: matrixtechcorpsupport@thermo.com

Asia Pacific: contact your local Thermo Fisher Scientific representative or authorized distributor

❖ **To contact Customer Service for ordering information**

North America:

Phone: 800-345-0206 x 1100, Option 1

E-mail: USHUD-CS@THERMOFISHER.COM

Europe:

Phone: 0044 (0) 161 486 2110

Fax: 0044 (0) 161 488 4560

Asia Pacific: contact your local Thermo Fisher Scientific representative or authorized distributor

❖ **To copy manuals from the Internet**

Go to www.thermoscientific.com/IDScribe

Safety and Special Notices

Make sure you follow precautionary statements presented in this guide. The safety and other special notices appear in boxes.

Safety and special notices include the following:



CAUTION Highlights hazards to humans, property, or the environment. Each CAUTION notice is accompanied by an appropriate CAUTION symbol.

IMPORTANT Highlights information necessary to prevent damage to software, loss of data, or invalid test results; or might contain information that is critical for optimal performance of the system.

Note Highlights information of general interest.

Tip Highlights helpful information that can make a task easier.

Specifications and Part Numbers

| | Cat. No. 3200 | Cat. No. 3205 |
|-------------------------------------|--|--|
| Dimensions (W x D x H) | 18" x 15.25" x 9" (457 x 387 x 229 mm) | 44" x 15" x 7" (1118 x 381 x 178 mm) |
| Weight | 18 lbs/8 kg | 36 lbs/16 kg |
| Power Supply | 110-240 V AC, 50-60 Hz, 1.5 Amps | 110-240 V AC, 50-60 Hz, 1.5 Amps |
| Speed | Varies by rack and labware type | Varies by rack and labware type |
| Capacity | 1 rack of labware | 4 racks of labware |
| Dust Cover/Lid | Yes | No |
| Racks Included | No | No |
| Computer Included | No | No |
| USB and ID Scribe Software Included | Yes | Yes |
| Global Power Cords Included | Yes | Yes |
| Connection Method | Via supplied USB cable to PC or laptop | Via supplied USB cable to PC or laptop |
| System Requirements | Windows XP, Vista or 7, Excel XP, 2003, 2007, 2010 running locally, one USB port | Windows XP, Vista or 7, Excel XP, 2003, 2007, 2010 running locally, one USB port |

Operating temperatures: Operate at standard room temperatures between 15-40C
 Power supply: CUI, Inc., PN ETS120500-UTC-P5P-SZ/ETSA120500UDC-P5P-SZ, 60W, 12V, 5A
 See the Cross Reference Guide for all rack part numbers and compatible labware.
 Vendor: CUI, Inc.

Preventative Maintenance

Other than keeping the pen capped to prevent it drying out, there is no preventative maintenance required. The rails can be rubbed with ethanol to clean if desired.

Chapter 1

ID Scribe and Software Installation

This chapter shows you how to set-up the ID Scribe and the necessary software.

Initial Setup

If an ID Scribe representative delivered your machine, your ID Scribe unit and software should have already been set up. At the end of this chapter, the ID Scribe should respond to the software.

Open the box and place the ID Scribe on your benchtop. Any open space 45cm x 45cm x 45cm (18" x 18" x 18") in size and close to a computer and a power outlet will be suitable for the ID Scribe.

Make sure your ID Scribe package has the following accessories (see Fig. 1-1):

- the ID Scribe software CD
- the USB software CD
- a USB cable
- a power supply with cable
- pens for ID Scribe
- metal stops for pens
- user manual
- rack lifter/base (for an ID Scribe HT unit, make sure you have four rack lifters/bases)

Connect the appropriate plug for your region into the power supply. Plug the power supply cable into your wall outlet. Insert the jack end of the power supply into the power adapter on the back of the ID Scribe (see Fig. 1-1). Turn on the power switch. You will see a green LED light up the front panel of the ID Scribe. For an ID Scribe HT unit, there is not a green LED. The ID Scribe should immediately “home” itself.

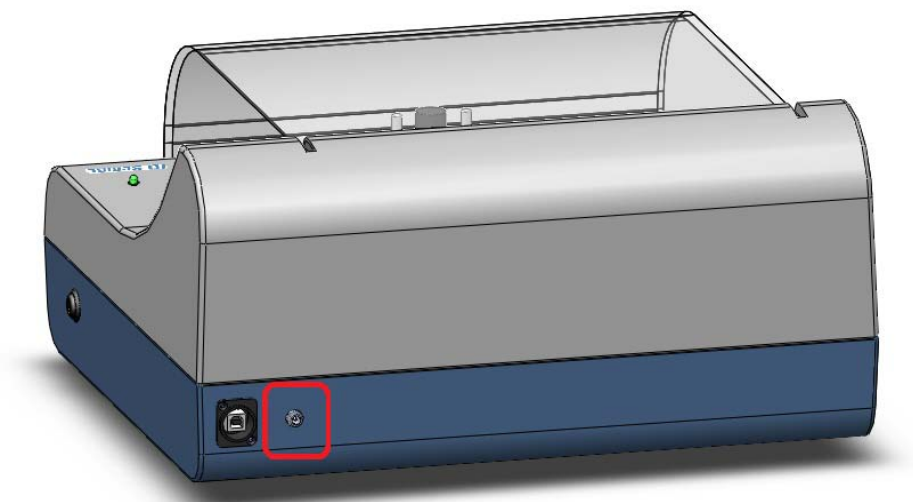


Figure 1–1. Power Jack

If the carriage does not move, please check whether the power supply is receiving power. The power supply has a green LED on the “brick” which indicates whether it is receiving power. Also check the green LED on the front panel. If the green light is not lit, try re-inserting the power supply cable into the power supply or check that your wall outlet is receiving power. Further troubleshooting tips on startup may be found at Chapter 9.



Note Do not connect the USB cable from the ID Scribe to your computer at this time. □

Installing the Software

Two disks have been provided with your ID Scribe:

- Keyspan USB Serial Adapter Software
- ID Scribe Software Installation Disk



Note If you are installing the software on a computer that requires a username and password, you will need to have “local administrative privileges” to install the ID Scribe USB drivers and Software. □

Installing USB Drivers

The ID Scribe communicates with your computer via USB. These USB drivers are located on the CD labeled “KeySpan USB Serial Adapter Software”.

- Insert the Keyspan or ID Scribe CD into your CD-ROM drive on your computer.



Figure 1–2. USB Driver Screen Shot

- The screen above should automatically appear, but if it does not, run the Launch.exe file on the CD or double-click on “Keyspan-USA19HS-driver-3.7S-WIN2000.xp.vista”. Click “Install Software” on the top left portion of the window.
- When the above screen appears click on “Install Keyspan USB Serial Adapter software”
- Click “Yes” to proceed
- Click “Next” to install the driver in the default location
- Registration is optional. For fastest installation click “Cancel”
- Click “Exit Registration” to proceed”
- Click “Finish” to complete USB driver installation

Installing the ID Scribe Software

The ID Scribe software is single executable file named ID Scribe.exe and does not require a formal “installation”. The files can merely be “dragged-and-dropped” onto your computer. There is no restriction on

which folder the ID Scribe application must be located. The Labware Files must be located in the same folder as ID Scribe.exe in a folder named “labwaretypes”. By following the instructions below, you do not need to create and files or folders.

- Insert the CD labeled “ID Scribe Software Installation Disk” into your CD-Rom drive.
- Open “My Computer” and open the CD-Rom drive titled “ID Scribe Installation Software”
- Copy the entire folder “ID Scribe Software” to your desktop. (Administrators can copy the folder to the “All Users” desktop folder if they would like the application to appear for all users).
- Open the “ID Scribe Software” folder that you copied to your desktop. You should see the files pictured below.
- To run the ID Scribe software, double-click on the “ID Scribe.exe” executable file. On some Windows configurations, you might not see the “.exe” extension on the ID Scribe file. You may want to create a shortcut and place it on your desktop for quicker access. To create a shortcut simply right-click on the ID Scribe.exe icon and choose “create shortcut”. Drag this shortcut to your desktop.

Microsoft Excel

The ID Scribe application was written so that you would not need to learn new software to enter the text for your items. The ID Scribe software allows you to use Excel on your computer to enter data and transfer the data from Excel to print onto your items. You will need to make sure you have a recent version of Excel (98 or later) on your computer.

Labware Files

Your lab may require printing on only one type of tube, vial, or other type of labware. (We call the tube, vial, etc. “labware”) Usually, however, you will use multiple labware types. Because of the various sizes and arrangements of labware, each type of rack has a different spacing and location. The settings for each type of rack are located in a simple text file we call a Labware File. While the ID Scribe.exe software can be located in any folder on your computer, the “labware” folder containing Labware Files must be located in the same folder as ID Scribe.exe.

Labware Files are text files that read almost like English. You can copy and modify Labware Files just like any text document.

Completing the Installation

Connect the USB cable to the back of the ID Scribe and your computer. A small message box will appear in the bottom right part of the computer screen with the message “Found New Hardware - Keyspan USB”.

Turn on the ID Scribe by using the power switch on the front right. Wait for the carriage to reset the X, Y and Z axes and cease motion in the upper left corner.

Open the ID Scribe folder on your desktop and click the ID Scribe.exe icon to launch the ID Scribe software. Wait for the software to say “Found the ID Scribe”.

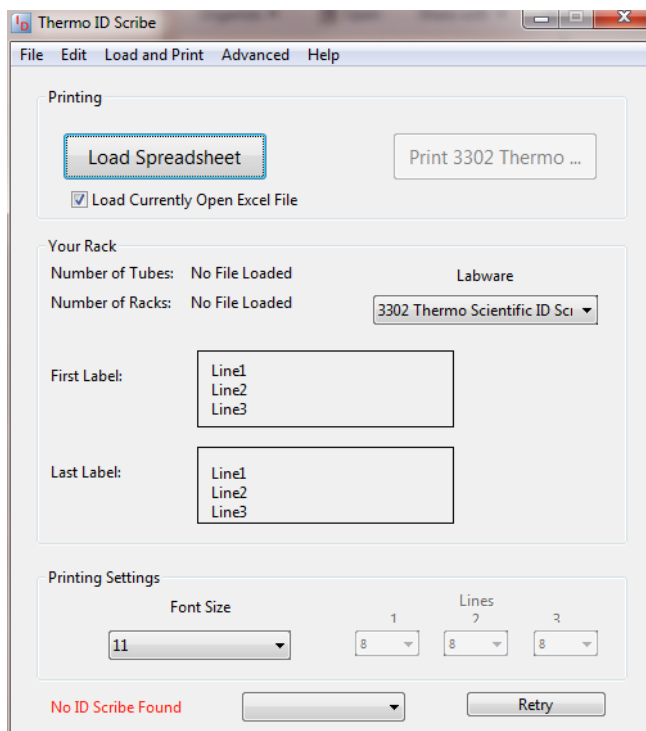


Figure 1–3. No ID Scribe Found

ID Scribe and Software Installation

Installing the Software

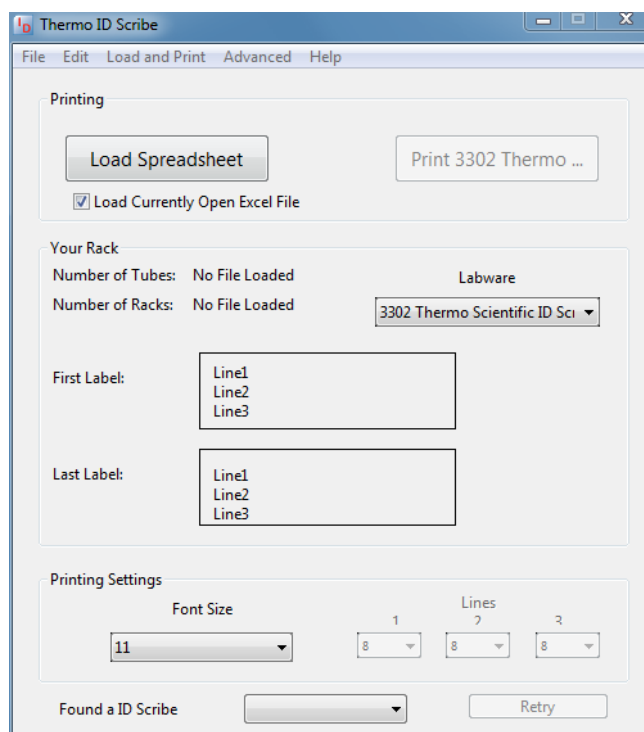


Figure 1–4. ID Scribe Found

Chapter 2

Printing Labware

How to Load Labware

Load Labware into Rack

This chapter shows you how to quickly print a rack of labware.

Locate the proper rack for the labware you will be printing on. Place the rack on a table such that the numbers indicating the labware location in the rack are on the left.

Loading the labware varies by rack type. Some examples of loaded racks are depicted below. (Figs. 2.1-2.2).

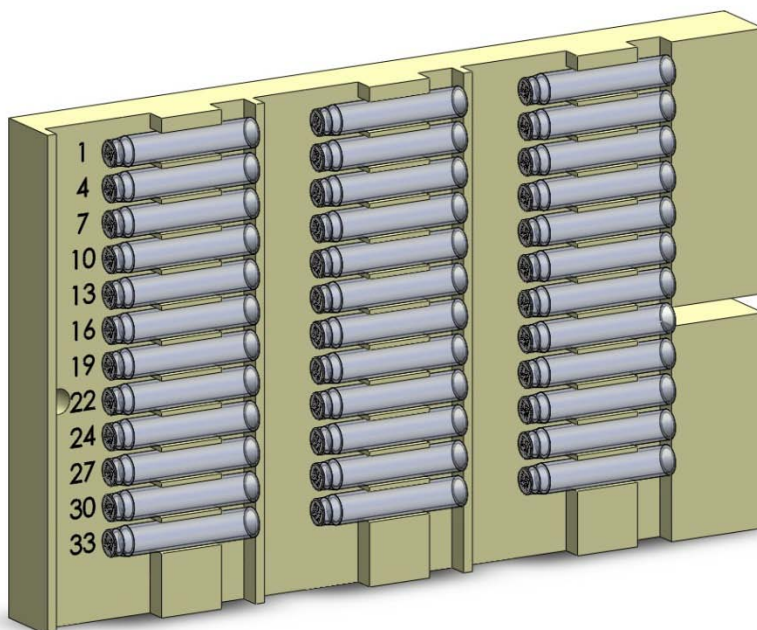


Figure 2–1. 36 1.4mL tubes in rack 3301



Figure 2–2. 24 HPLC vials in rack 3313

**Load a SideWriting
Rack onto a Spacer**

If the rack is a SideWriting rack and is not for a very large tube, such as a 50mL conical centrifuge tube, then the rack needs to be placed onto a spacer as shown below in Figure 2-3.

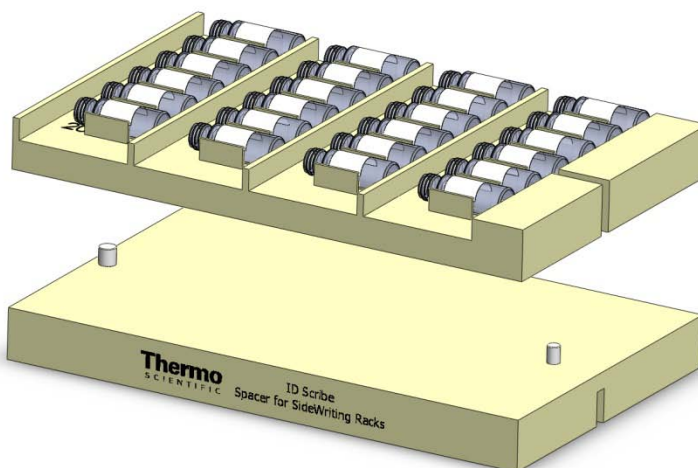


Figure 2–3. Rack and Spacer

**Load rack into ID
Scribe machine**

It is advisable to test one tube, vial, etc. with the desired text to ensure satisfaction with the placement of the text once printed

**Load Rack into ID
Scribe Machine**

Before you load the rack into the ID Scribe, make sure that the carriage is in the upper left corner of the travel space. To prevent errors and jams, we recommend that you not move the carriage by hand. Rather, turn the machine off and on and it will automatically reset to the “rest” position.

Once the ID Scribe is in the rest position, you can load the filled rack of labware into the ID Scribe. Line up the hole on the left side of the rack with the left post on the base of the printing area. Push the rack down while at the same time line up the slot on the right side of the rack with the slightly smaller post on the right side of the base (Figs 2.4 and 2.5). There is only one proper way to load the rack, so you cannot put it in backwards.

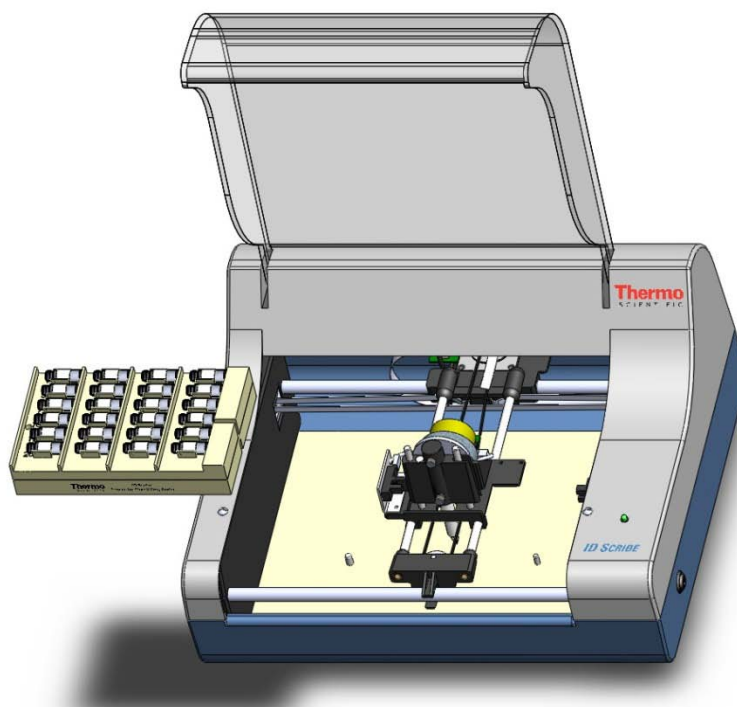


Figure 2–4. Placing rack and spacer onto pins

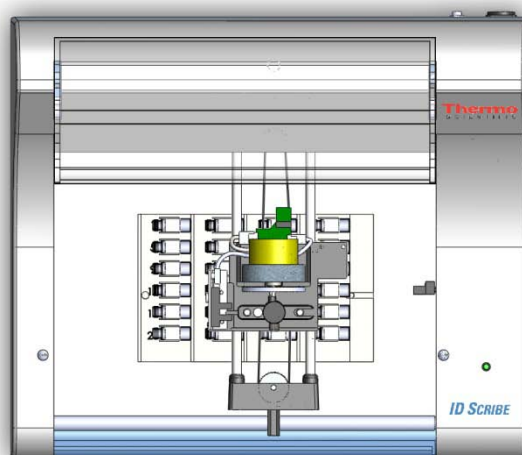


Figure 2–5. Top view of racks onto pins

Creating a Spreadsheet

Creating a standard spreadsheet for the ID Scribe is simple. First, launch Excel.

Column A in your Excel Spreadsheet will indicate the labware location in the rack. The rack is labelled so that you can tell what the placement of each item is in the rack. In Column A, type in numbers 1 through the number of labware items you want to print onto.

In Columns B, C and D you can type the characters that you want to print. For example, you can put “Sample #1” in Column B, “12/1/11” for the date in Column C and “KWP” for your initials in Column D (Fig 2-6).

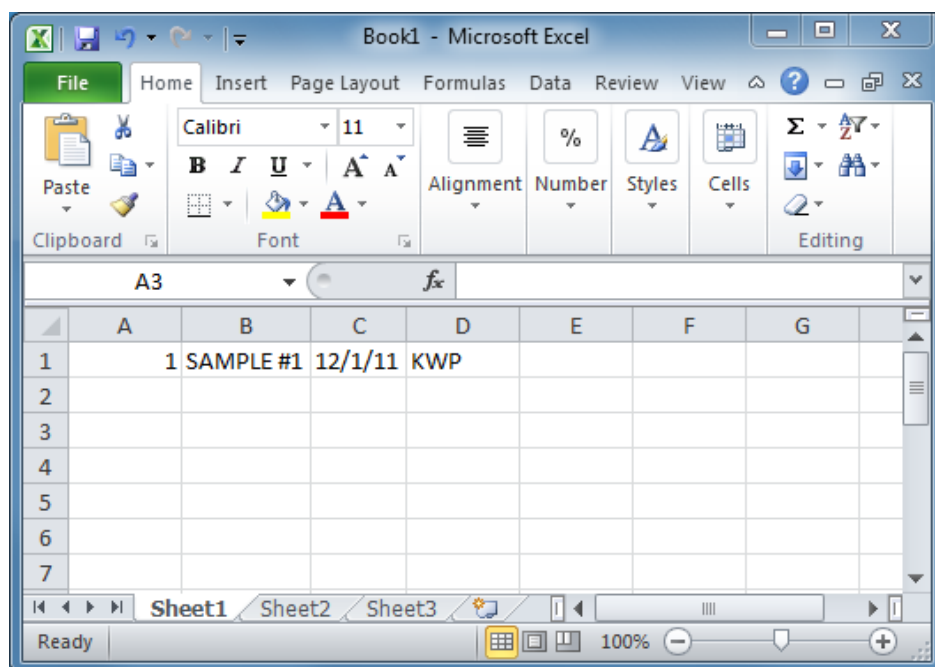


Figure 2–6. Sample 1-labware spreadsheet

Repeat the process or use the excel functions you are already familiar with (copy, paste, fill, drag, etc.) to add additional items to print. For more detailed information, see Chapter 5: Creating and Editing Spreadsheets.

Print the Labware

Launch the ID Scribe application if you haven't already done so. In the pull down menu titled “Labware Types”, select your type of labware to be printed on.

Press the button in the upper left corner titled “Load Spreadsheet”.

To the right of the “Load Spreadsheet” button is the “Print” button. It should have a label which corresponds to the labware you selected, i.e. “Print 3302 Thermo”.

Select “Print”. After a few seconds, the carriage should move and begin printing. You will note that the first letter/character will “double” print. This is to ensure ink is flowing in the pen if it has remained idle.

Chapter 3

Loading and Removing a Pen

This chapter shows you how to load a pen into the ID Scribe.

Choice of Pens

The ID Scribe comes with 5 Nalgene cryogenic pens which are appropriate for permanent marking on plastics or glass (2 black, 1 green, 1 blue, 1 red). The ID Scribe can accommodate any pen up to ½" in diameter. Please contact Technical Support for custom pens stops for your type of pen.

Pen Stop Assembly

The pen stop sets the height of the pen in the ID Scribe.

Place the non-writing end of the pen into the hole in the stop (Fig. 3-1). The end of the pen should sit flush against the bottom of the pen stop. Gently turn the thumbscrew clockwise until snug to secure the stop onto the pen. Do not use excessive force.



Figure 3–1. Pen and Stop

Loading a Pen

Take the pen with attached stop and remove the cap of the pen. Your pen should come with a stop already attached. Place the pen stop assembly through the hole in the top of penholder (Fig. 3-2) until the bottom of the stop is flush with the top of the penholder. Tighten the set screw clockwise (Fig. 3-2) in the penholder until snug to hold the pen in place.



Figure 3–2. Tighten by rotating clockwise

Your pen assembly is now properly loaded into ID Scribe.

Removing a Pen

After printing of labware is completed, remove and cap the pen to prevent the pen from drying out. To remove the pen, simply turn the thumbscrew screw counterclockwise (same screw used to load pen) in the penholder until pen is loose. Remove the pen by lifting it out of the penholder hole in the ID Scribe and cap for future use.

Chapter 4

Loading a Rack of Labware

Loading a Rack for TopWriting

This chapter shows you how to load labware into racks.

Each tube or vial for TopWriting™ (generally writing on tube or vial caps) is inserted lengthwise into a circular hole. You may place the tube or vial in any rotational orientation, but given the fact that the printing is always horizontal, orienting the tube or vial width-wise probably provides the largest writing area. The tubes or vials do not have to be completely bottomed out but getting close generally yields the best results.

After your tubes or vials have been loaded into the rack, you will need to load the rack into the ID Scribe. There are two pins in the base of the ID Scribe. The left pin is a little larger than the right pin. This prevents the rack from being loaded in the incorrect orientation. The left side of the rack has a hole which will fit onto the left pin.

The right side of the rack has a slot which will fit onto the right pin.

The rack for top writing loads onto the base of the machine (Fig. 4-1).

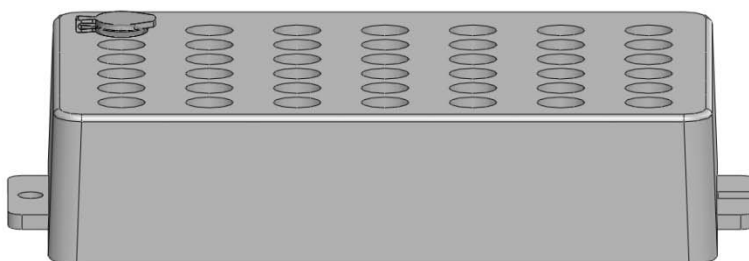


Figure 4–1. 1.5mL microcentrifuge tube in a 3303 TopWriting Rack



Note TopWriting Racks do not require a spacer underneath. □

Loading a SideWriting Rack

The SideWriting™ racks fit on the same pins as the TopWriting racks, but these racks require the included rack base to first be loaded into the ID Scribe to bring the labware up high enough to reach the pen (Fig. 4-2).

Labware such as tubes and vials are loaded into the side writing racks by pressing the tube or vial lengthwise into each slot. The head of the tube or vial usually points to the left, but in some cases you can reverse this orientation. The bottom of the tube or vial should touch the right divider and the tube or vial body should rest at the bottom of the slot. You may need to test print a couple of pieces of labware to be sure you are satisfied with the placement of tubes or vials the first time you use the ID Scribe.

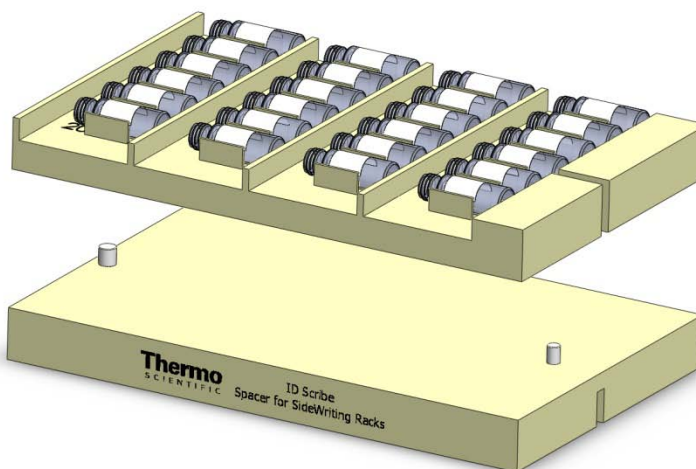


Figure 4–2. SideWriting Rack and Spacer

Chapter 5

Creating and Editing Spreadsheets

Spreadsheet Syntax

This chapter shows you how to create spreadsheets that contain the text that will be printed on your labware, such as tubes.

The ID Scribe software transfers text and data from Excel to the ID Scribe for printing on your labware. Interfacing with Excel allows you to use familiar commands (copy, paste, fill, drag, etc.) and formulas to quickly enter information.

Below is an example of how a simple Excel spreadsheet could be created (Table 5-1).

Table 5-1. Three Tube Spreadsheet

| Column A (tube placement in rack) | Column B (e.g., sample #) | Column C (e.g., sample descriptor) | Column D (e.g., date) |
|---|------------------------------|--|--------------------------|
| 1 | Sample #1 | Blood | 12-1-11 |
| 2 | Sample #2 | Serum | 12-1-11 |
| 3 | Sample #3 | DNA | 12-1-11 |

Entry of the data above would result in tubes printed as follows:

| | Tube 1 | Tube 2 | Tube 3 |
|--------|---------------|---------------|---------------|
| Line 1 | Sample #1 | Sample #2 | Sample #3 |
| Line 2 | Blood | Serum | DNA |
| Line 3 | 12-1-11 | 12-1-11 | 12-1-11 |

Column A Labware Number Position

Regardless of whether you will be printing the labware number on your labware, ID Scribe needs to know the labware number on which your

text will be printed. The labware number should be located in column A (Fig. 5-1).

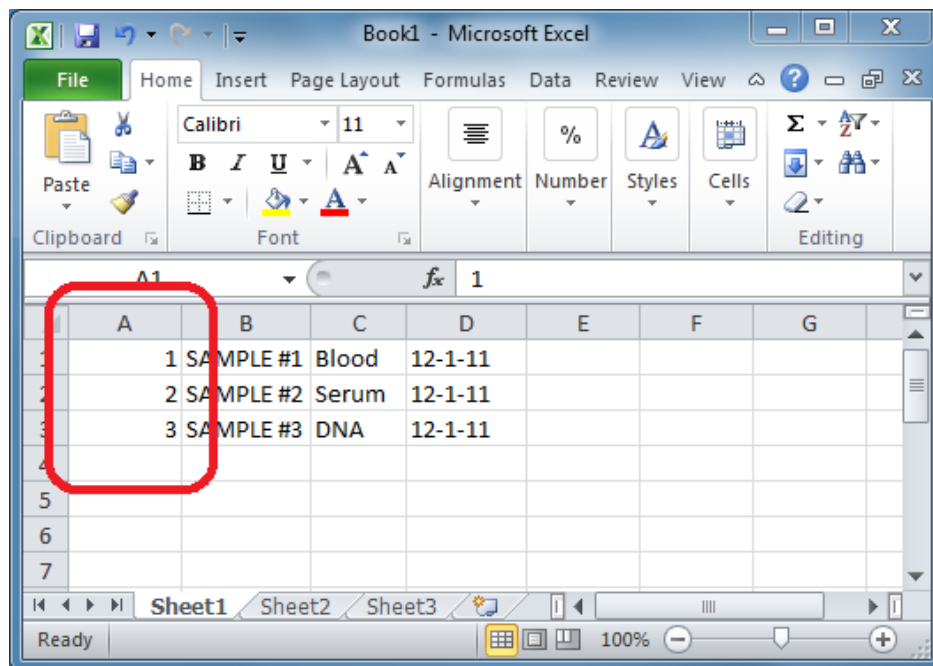


Figure 5–1. Column A is labware number

Typically, the item number column is filled with the numbers 1-20 or 1-30. The easiest way to quickly enter consecutive numbers in this column is to enter the number “1” in the left uppermost cell (A1). Then highlight the cells from that cell until cell A20, if you want twenty items, or cell A30 if you want thirty items. Then select Edit→Fill→Series and hit return.

Another way to accomplish the same series is to type “1” into cell A1, and “2” into cell A2, highlight these two boxes and drag down the column.

Columns B, C and D Text Columns

The next three columns, B, C and D, are used to enter text lines 1, 2 and 3, respectively. Each row corresponds to the item which is specified in column A.

Start with Row 1 and move consecutively

The ID Scribe application always starts with Row 1 in Excel. So if you wish to print some text on item number 2, you still must use the first row, but simply indicate the item number you want to print on (Fig 5-2).

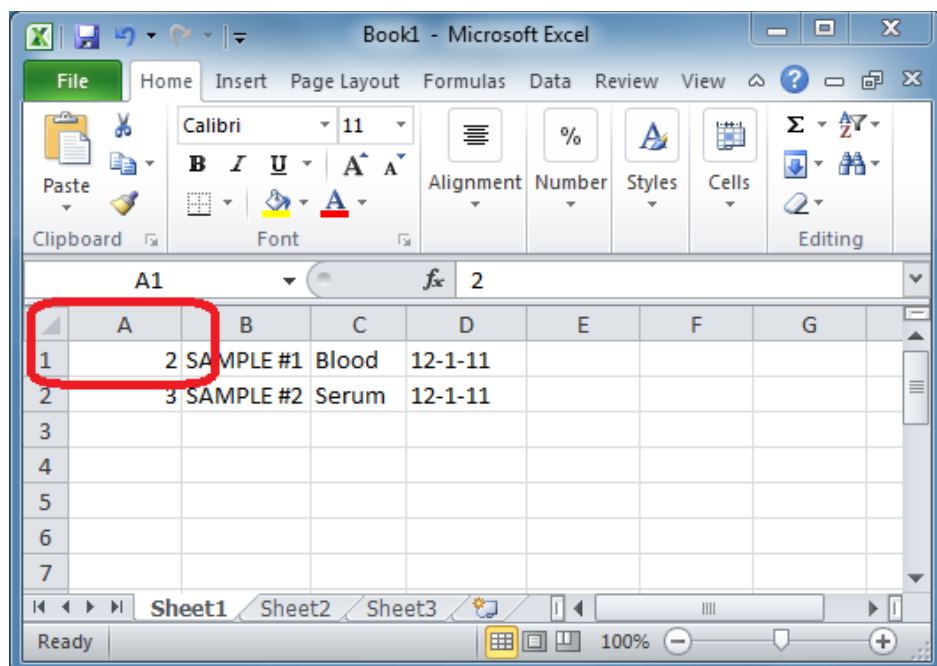


Figure 5–2. First row is second item

Also, the ID Scribe keeps moving down row by row until it sees a blank cell in Column A. So if you wanted to print on items 1 and 3, you would not skip row 2. Tube three would be placed on the second row. (Fig 5-3).

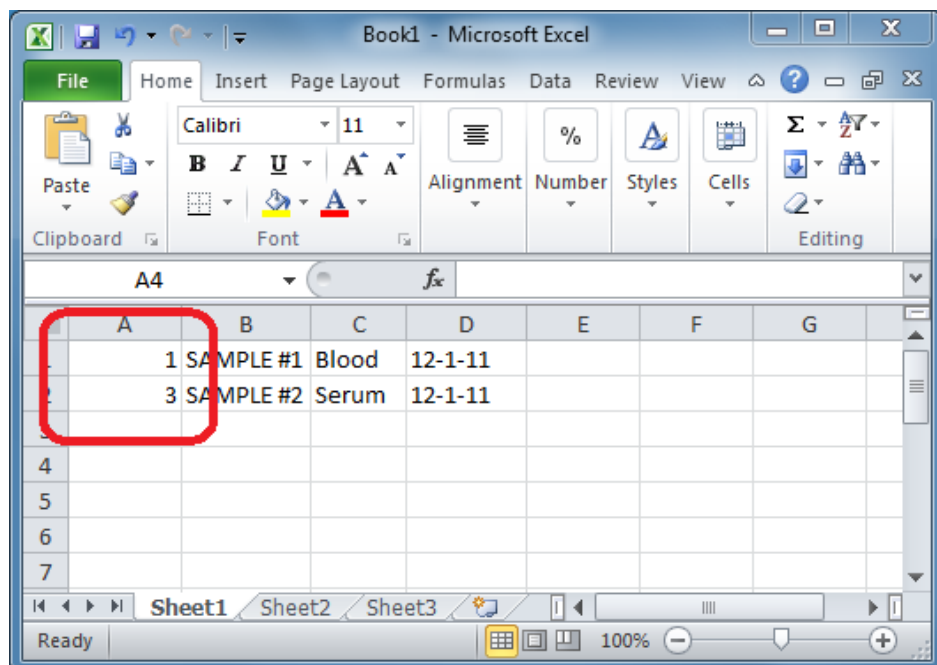


Figure 5–3. Skipping items

Limitations of Printing

The ID Scribe instrument cannot print more than 15 characters on each line, unless you have requested a customized instrument. Additionally, it can only print ASCII text characters unless otherwise specified.

Storing Spreadsheets

You can store and transfer ID Scribe spreadsheets like you would save any Excel file. If you have a network or a flash drive, you can load and store the spreadsheets on your network or on your flash drive.

Uppercase Text for Better Printing

The ID Scribe can print both upper and lower case text. For best printing results and legibility, we recommend using all upper case text since these characters are larger and easier to read.

If you are transferring data from a LIMS system and want to automatically make text into uppercase, use the UPPER function. For example, if you type the following into a cell:

=upper("abcd")

You will see "ABCD" in that cell.

Text to columns in Excel

Sometimes you will have multiple pieces of data which have already been placed into one cell. For example, your LIMS system may have produced many cells which look like the following:

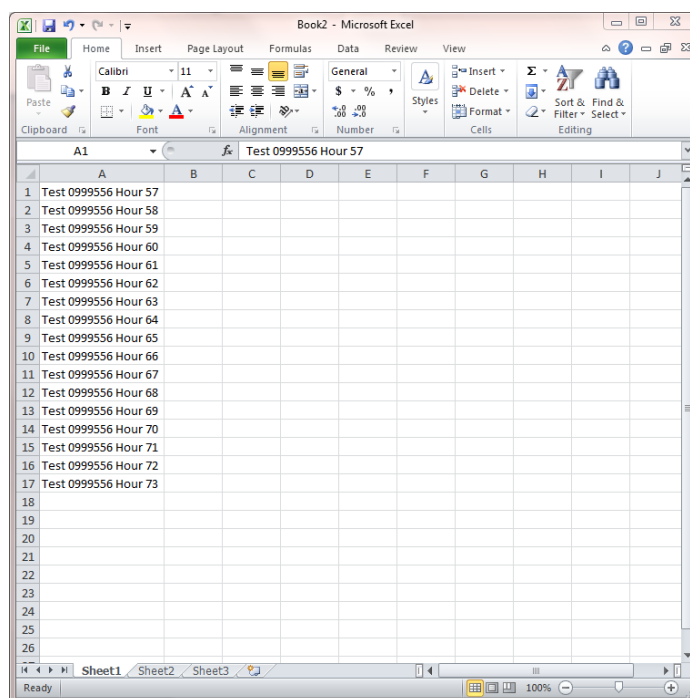


Figure 5–4. Text to columns

You may also need to split a column because the number of characters exceeds either the horizontal space available on the item or character limit of the ID Scribe.

You may notice above that all the text appears in one column. To split such text, use the “text to columns” feature of Excel. You may split a column into multiple columns based on a delimiter such as a space, comma, hyphen, etc. or based upon a certain number of characters (referred to as “fixed” width).

Below is an abbreviated example of using the “text to columns” feature. Please consult various examples of use in this feature across many versions of Excel, such as the following:

office.microsoft.com/en-us/excel-help/split-names-by-using-convert-text-to-columns-HA001149851.aspx

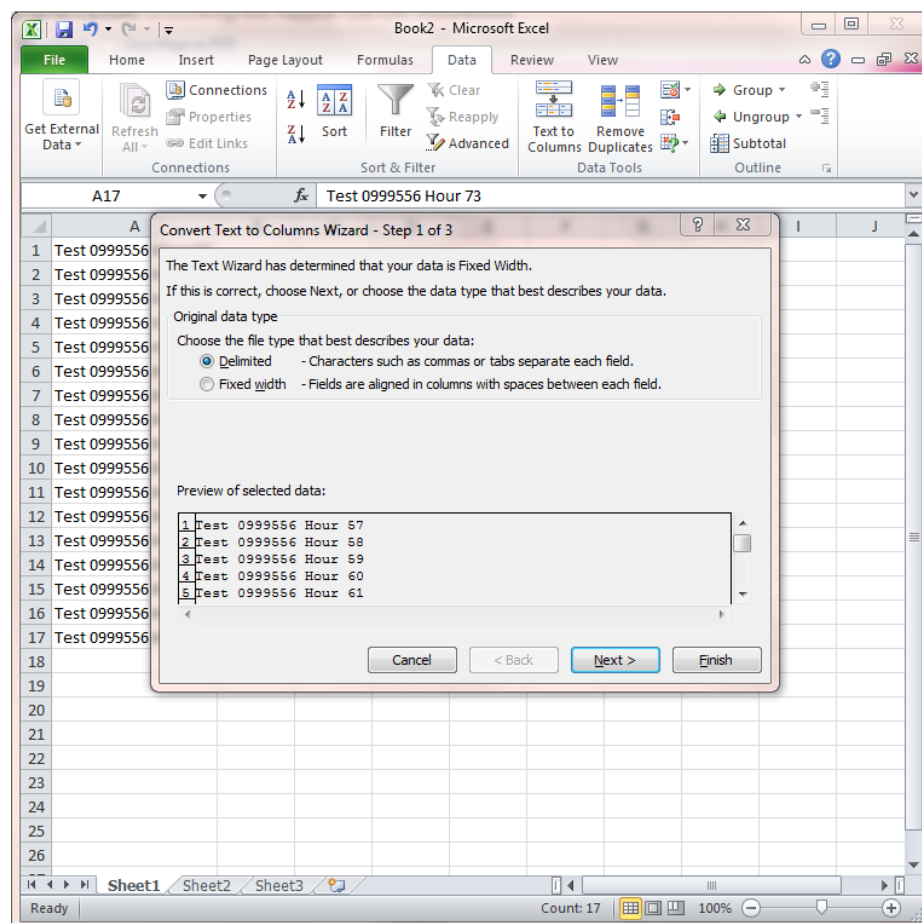


Figure 5–5. Text to columns

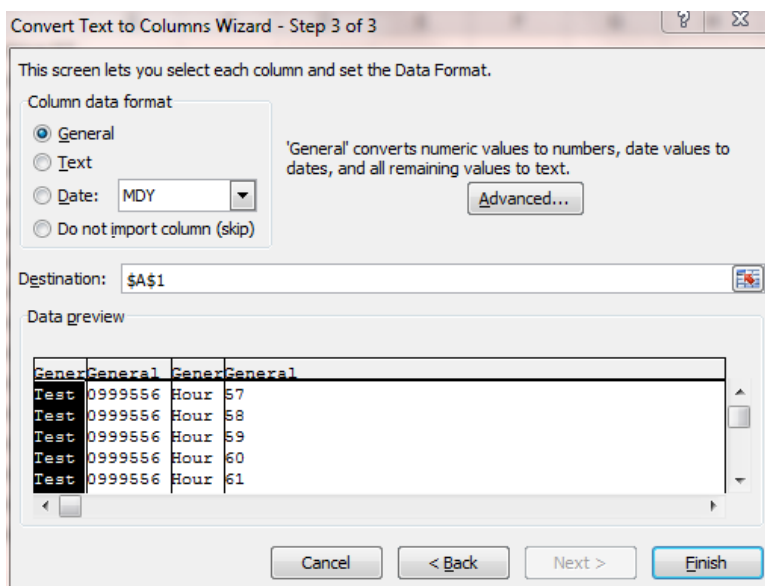


Figure 5–6. Text to columns

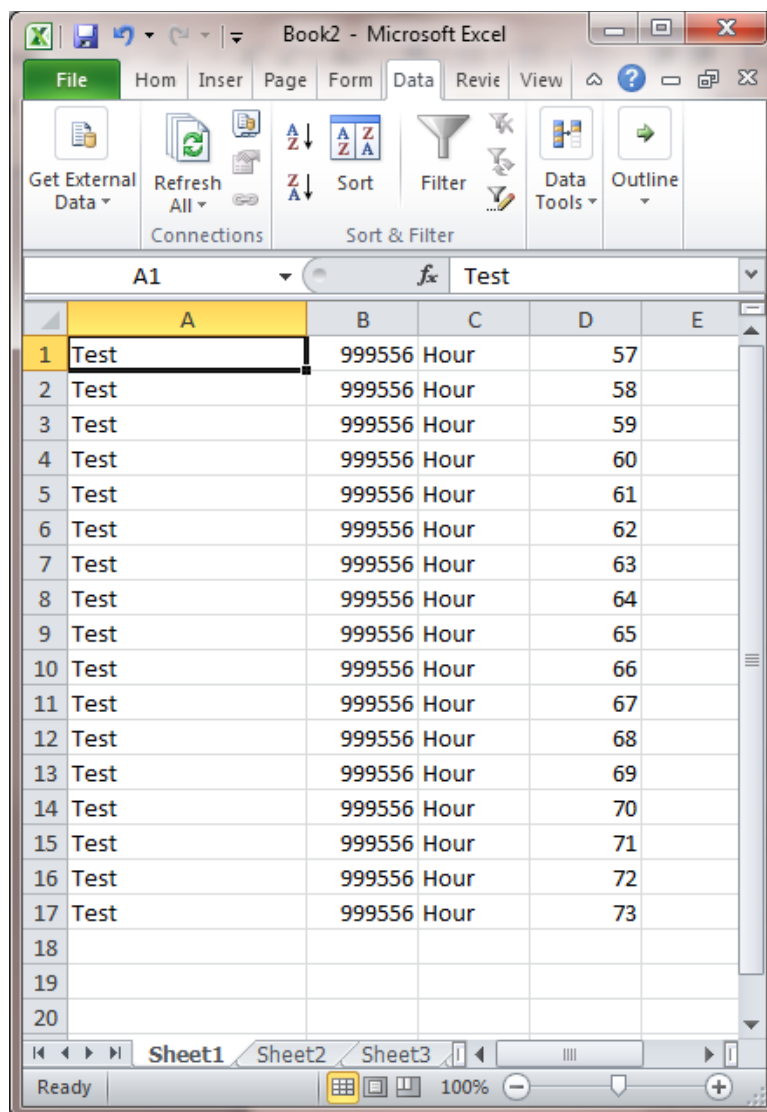


Figure 5–7. Text to columns

Chapter 6

Loading Spreadsheets

This chapter shows you how to load the spreadsheets you created in the last chapter.

Loading a Spreadsheet

The easiest way to load a spreadsheet is to open the Excel spreadsheet you would like to print and press the “Load Spreadsheet” button. By default the ID Scribe software will load the currently open spreadsheet from Excel.

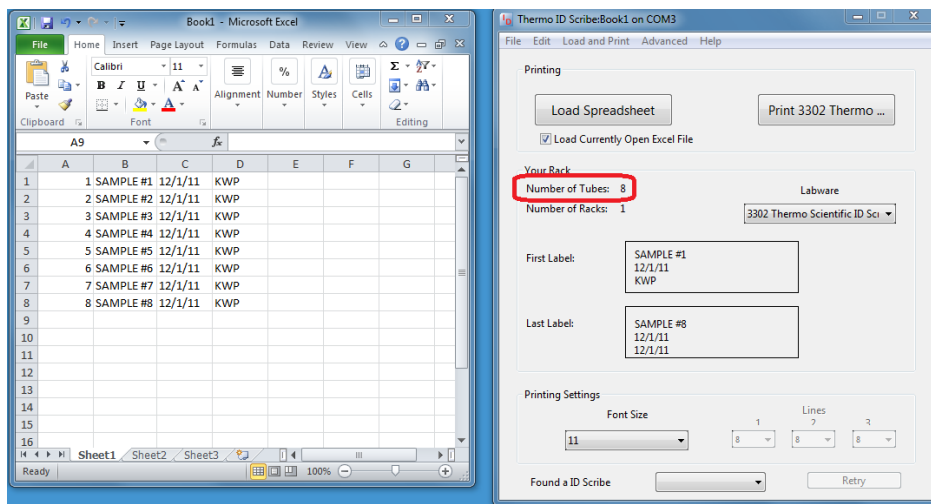


Figure 6–1. Eight Items

Number of Items

The total number of items that were read from your spreadsheet is displayed at the top of the “Your Rack” box (see “8” on the above figure). This number may be more than the number of slots available on a rack.

Number of Racks

Normally, the number of racks is 1, but if the number of items is greater than the number of racks, the ID Scribe will use all the slots for the first set of items and thereafter spread items onto other racks.

For example, if your rack holds three rows and ten columns, it has space for thirty items. If you load a spreadsheet with 75 tubes, the first thirty will be on rack one, the second thirty on rack two and the final fifteen items will be printed on the third rack.

Loading Spreadsheets

Loading a Spreadsheet

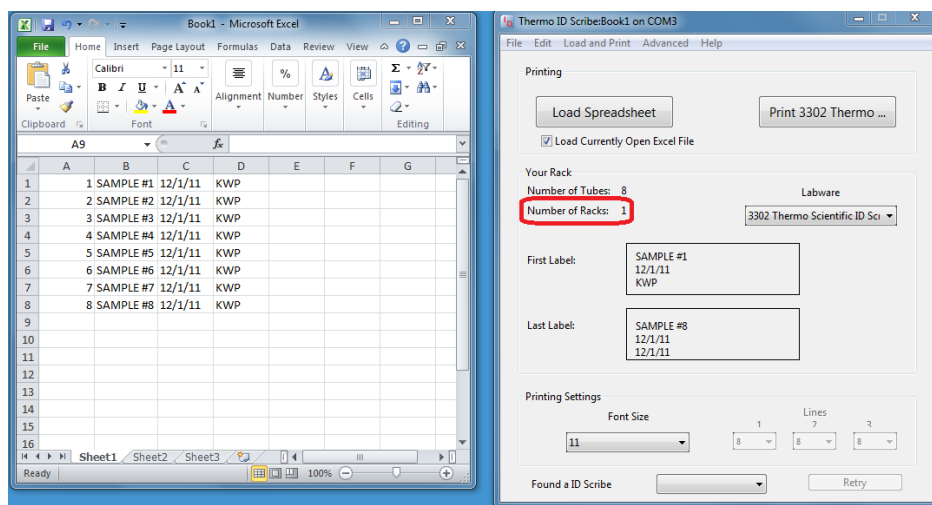


Figure 6–2. Number of Racks

The number of racks is displayed directly below the number of items (see “1” on the above figure).

First and Last Label

The text of the first item and the last item are displayed in the middle of the “Your Rack” box. If the justification setting in the current labware is left justified, the text displayed will be left justified, if it is center justified, the text will also be center justified.

Another feature of the first and last label is the display of “cut-off” letters. For example, if the line limit for the current labware is 4 characters, while the first line of your labware is six characters, the ID Scribe will display those two characters that will be cut-off in red outside the circle or rectangle representing the labware you are printing on.

If you change the second line of the standard spreadsheet’s text to a very long text such as “ABCDEFGHJKLMNOPQR”, and your current labware’s line limit is some smaller number of characters, you will see the cut-off characters on the right.

Loading Large Spreadsheets

If you would like to print 400 tubes on the 1.4mL tube rack (3301), you may use the following spreadsheet. Please note that this feature is only available with the ID Scribe, not the ID Scribe HT, which accepts a larger initial spreadsheet.

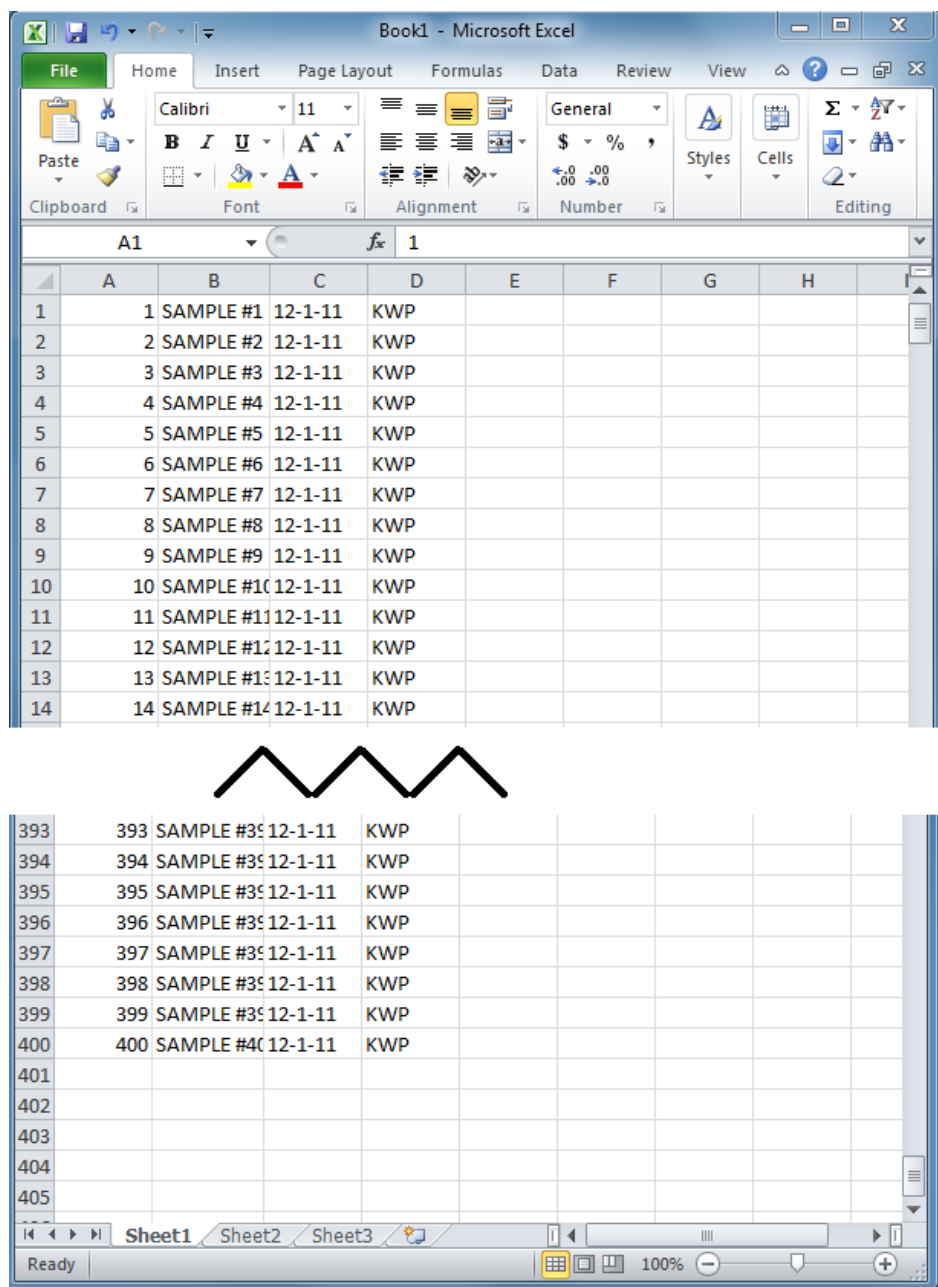


Figure 6–3. Large Spreadsheet

Chapter 7

Changing Settings: Font Sizes

Changing the Font Size

This chapter shows you how to change the font size of your printing lines.

The font settings for printing range from 8 to 20 point. The ID Scribe also allows you to change the font size before printing items. Simply select one of the pre-set font sizes to change the font size for all printing lines from the Advanced menu.

In addition, if you select Split Fonts, an additional set of pull-downs will be enabled. Split Fonts is the feature that allows you to have a different font size for each line. For example, if you wanted a large middle line surrounded by smaller lines, you can choose font 10 for line 1, font 20 for line 2 and font 10 for line 3.

Chapter 8

Creating and Editing Labware Files

This chapter shows you how to edit the files for labware.

What are Labware Files?

Labware Files are text files, located on your computer's hard drive, which contain all of the settings used to print on a particular labware. For example, the ID Scribe comes with a Labware File to print on the tops of 1.5mL microcentrifuge tubes named "Default 1_5mL.txt".

Your ID Scribe representative should have constructed Labware Files for each of the labware you requested. These settings will print well under normal conditions. Under certain circumstances, however, you might want to change these settings to customize your printing results.

Labware Files Location

Labware Files are located in the directory "labware." Labware is located in the same directory that the ID Scribe application is located.

Labware File Syntax

If you open up the file "Default 1_5mL.txt", it will look something like the following:

```
// x starting position is the x-coordinate of the origin
in pixels
// To move it left make the number more negative

x_starting_position = -1740

// y starting position is the x-coordinate of the origin
// To move it up increase the number

y_starting_position = 640

// The spacings are the distances in thousandth of an inch
between vials

x_tube_spacing = 625
y_tube_spacing = 850

// Z no touch is the height where you want an upstroke to
end on the pen

z_no_touch_height (clearance height) = 0

// Z touch is the height where you want a downstroke to
end
```

```
// Therefore, if the pen isn't touching the vial on a
downstroke
// Try making it more negative, e.g., change -40 to -60
z_touch_height (touch height) = 0

line_limit = 4

// If you are writing on the side of a tube, set
SideWriting to 1

SideWriting = 0

// font_size is the default font size. You can choose
between 8, 10, 14 and 20

font_size = S081610

number_of_rows = 3
number_of_columns = 10

// Justification: 0 is left aligned, 1 is centered and 2
is right aligned.

justification = 1

// Interlinespacing is the number of pixels between the
bottom of one line and top of another.
// A setting of 5-20 is about right.

interlinespacing = 13

// First Tube Repeat specifies the number of times to
print tube #1 in case your pen tends to dry out.

first tube repeat = 2

// First Tube Repeat specifies the number of times to
print tube #1 in case your pen tends to dry out.

first letter repeat = 3
```

Each line in this file corresponds to a particular setting which will be explained below.

The ID Scribe uses a standard X, Y, Z Cartesian coordinate system pictured below in Fig. 8-1. Assuming the user faces the ID Scribe, the direction of each axis is as follows:

ID Scribe Coordinate System

- X axis left-right direction with the positive direction being to the right
- Y axis front-back direction with positive moving away from the user towards rear of the machine where USB and power cables are located.
- Z axis up-down vertical direction with the positive direction raising the pen up from the labware. In the X, Y, and Z axes each unit represents approximately 0.01”.

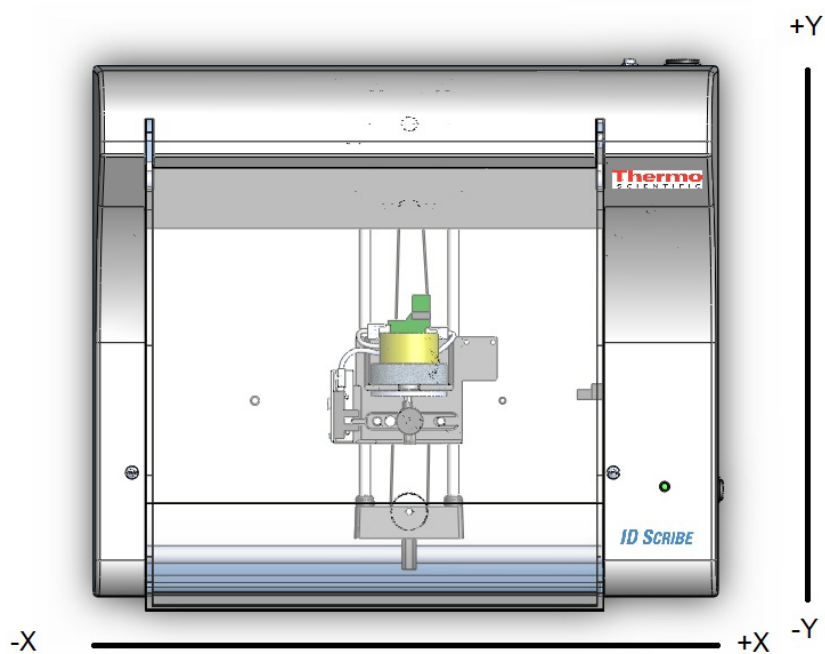


Figure 8–1. Top View

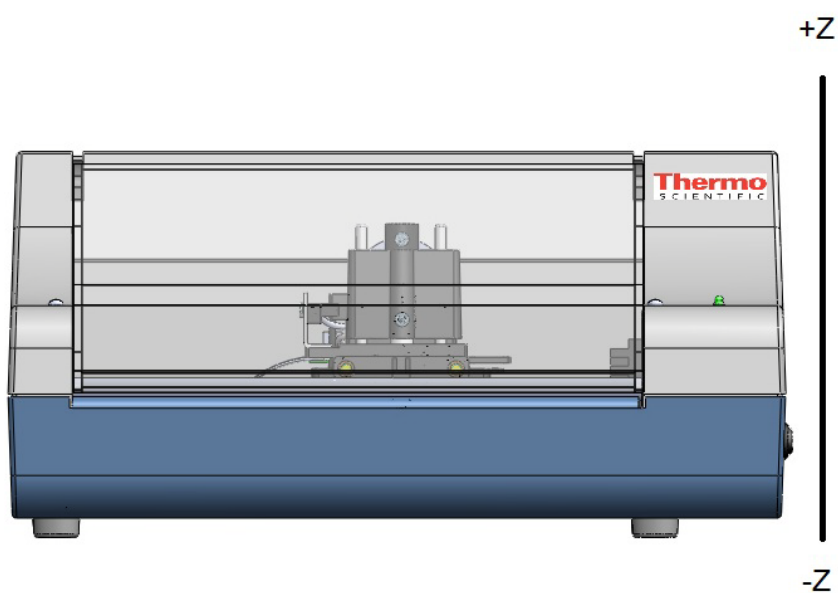


Figure 8–2. Front View

X Starting Position

The starting position is the location that the ID Scribe will write the first line of the first item. By modifying the x starting position and the y starting position, you can modify where all of the labware will be printed by shifting all of the printing locations.

For example, suppose the x starting position is set in a Labware File as -1,800 pixels to the left of the home position of the ID Scribe and you notice that the writing is too far the left of all the items as in Figure 8-3.

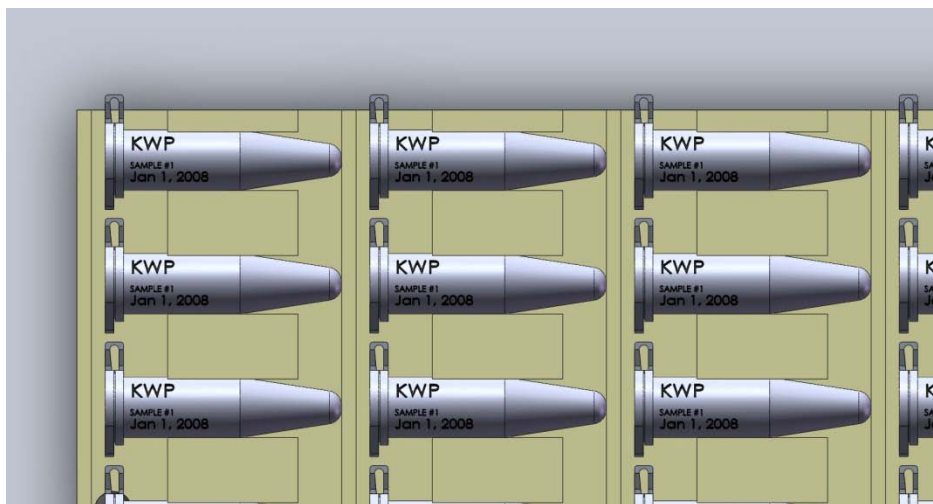


Figure 8–3. Too far left

If you were then to change the x starting position to -1760 (1,760 pixels to the left of home), then all of the items would be shifted to the right.

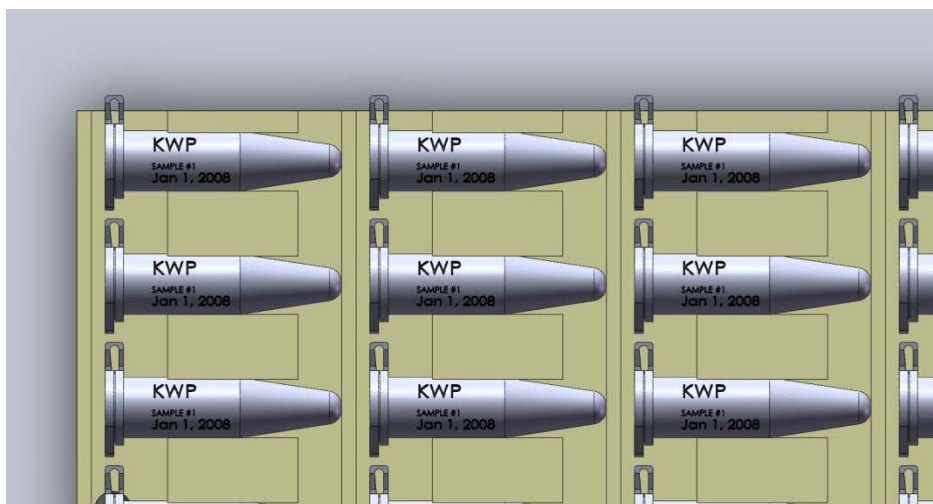


Figure 8–4. Too far right

Then an x starting position between -1760 and -1800 might be the appropriate position to print in the center of the items.

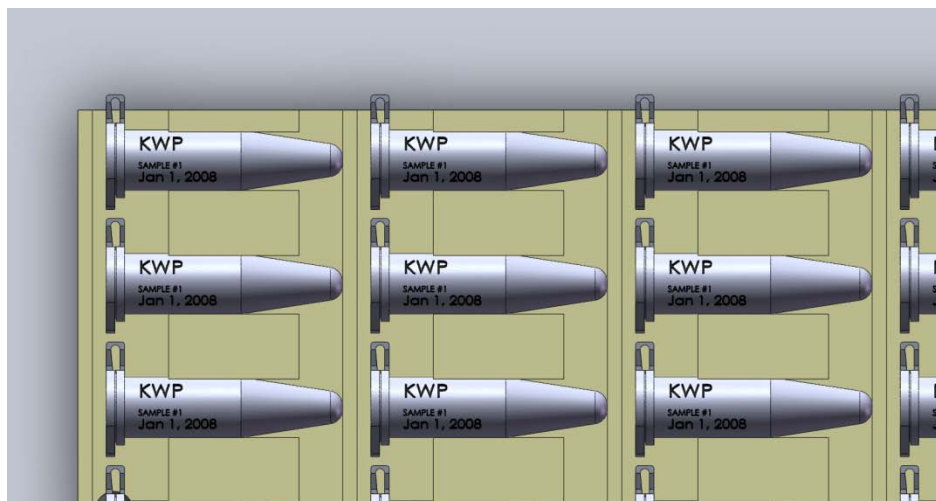


Figure 8–5. Possibly optimal position

Y Starting Position

The y starting position is the corollary to the x starting position in the y-axis.

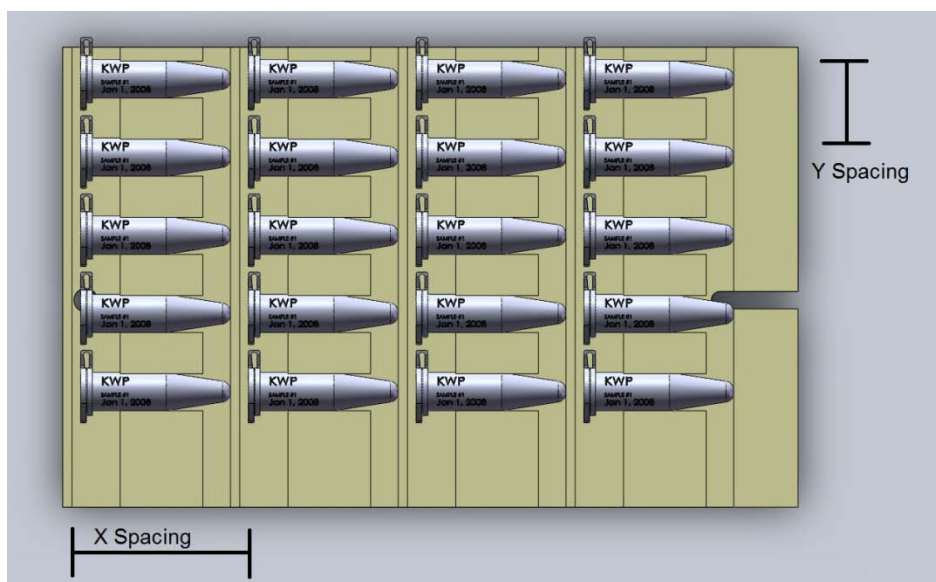


Figure 8–6. X and Y Spacing

X Spacing

X spacing is the number of thousandths of an inch on the x-axis between each labware. It is assumed that all items are evenly spaced.

Y Spacing

Y Spacing is the number of thousandths of an inch on the y-axis between each labware.

Clearance Height

The clearance height, or “z no touch height”, is the height of the plotter pen required to comfortably “clear” each item of labware as it finishes printing one item and passes to the next item. It is also the height at which the pen will not be touching item when moving between letters and line on the same item. The maximum height is 170, while the minimum height is -170.

Touching Height

The touch height is the height of the pen that is required for the pen to come into enough contact with the tube. Again, the maximum height is 170, while the minimum height is -170. The pen is built with slack so that if you were to reduce the minimum height too much, the pen will still just drop onto the labware. This slack ensures that labware of slightly different heights can be printed on.

Line Limit

By virtue of the geometry and size of your labware, there is a limit to how many characters that can be printed on each line. The line limit is a method which enables the software to automatically chop off any extra characters from the end of a line which exceeds the character limit. We recommend being conservative with line limits to ensure that your text fits completely within the bounds of your labware.

SideWriting

The method for printing on the tops of labware is different than printing on the sides. To notify the ID Scribe which printing method it should use, you may set SideWriting to “1” to turn on SideWriting. Set it to “0” for normal top writing.

Font Size

The ID Scribe prints in font sizes ranging from 4 to 20. We suggest 10 for the best legibility and number of characters. The setting “font_size” sets the default font size to load for a particular labware.

If you are using the split fonts feature, the syntax is S followed by two digits for the first line font size, two digits for the second line font size and two digits for the third line font size. For example, to set a split font of size 10 on the first line, eight on the second and 16 on the third line, use the following setting:

```
font size = S100816
```

Number of Rows

The number of rows is simply the number of rows in the applicable rack. For example, on the racks used in the examples above, the number of rows is three.

Number of Columns

The number of columns is simply the number of columns in the applicable rack. For example, on the racks used in the examples above, the number of columns is ten.

Justification

In some situations, aligning the text to the left is more appropriate. For example, SideWriting generally requires left justification. Because top

writing is usually accomplished with a circular geometry, center justification is more appropriate.

Interline Spacing

Interline spacing is the space in pixels between each printed line of text. Sometimes, rather than three lines of text, you only need two lines of text, but you would like to space the text out further.

First Tube Repeat

Certain pens that you may use with ID Scribe may tend to dry out quickly and need “wicking” to ensure the flow of ink. To make sure that all of your items are printed, “first tube repeat” is an option to allow you to repeat printing of the first item a number of times. Once this setting is appropriately set, you should have a sufficiently wet pen after the printing of the first item.

First Letter Repeat

Certain pens that you may use with ID Scribe may tend to dry out quickly and need “wicking” to ensure the flow of ink. To make sure that all of your items are printed, “first letter repeat” is an option to allow you to repeat printing of the first letter a number of times. Once this setting is appropriately set, you should have a sufficiently wet pen after the printing of the first item.

Editing a Labware File

Labware Files can be edited in two ways. You can either edit them as you would any text file or use the ID Scribe software to edit a file. In Windows you can double-click on a text file to edit the file with Notepad.

To edit a labware file from within ID Scribe software, select the particular file from the Labware Files pull-down. Then either press Ctrl-a or use your mouse and select Menu→Rack Settings.

You can change any of the settings for a Labware File and then hit “Save” to modify that particular file. You can also hit “Save as New File” to create a new Labware File.

Loading a Labware File

When launched, the ID Scribe will automatically look for Labware Files in the default labware folder. This folder is usually named “labware” and is found in the same folder that the ID Scribe application is found.

The list of Labware Files that the ID Scribe finds is displayed in a pull-down box labeled “Labware”. **Below you can see a side-by-side comparison of the labware folder and the labware pull-down.**

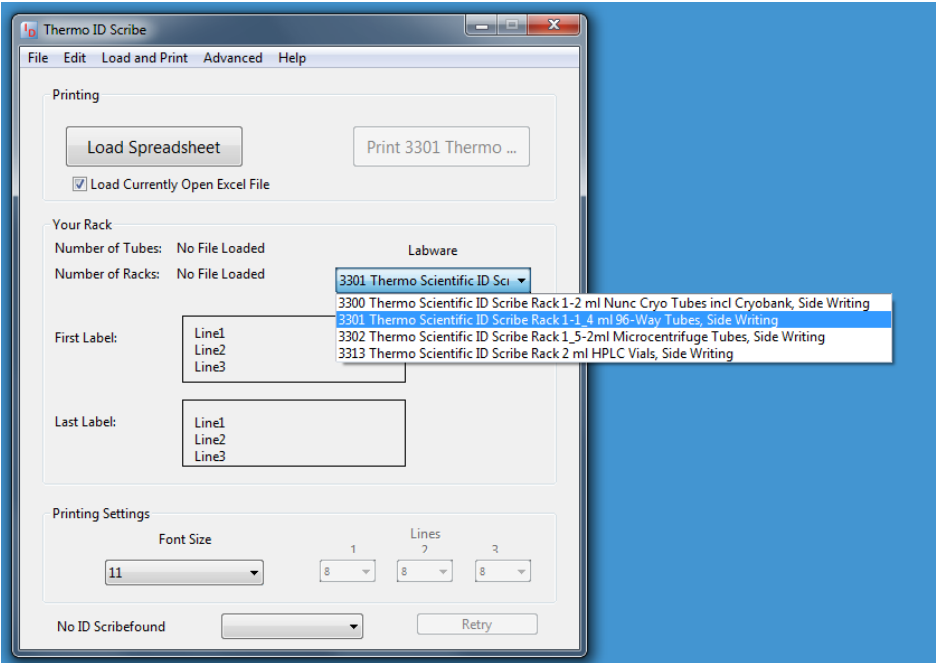


Figure 8–7. Pull-down layout of Labware

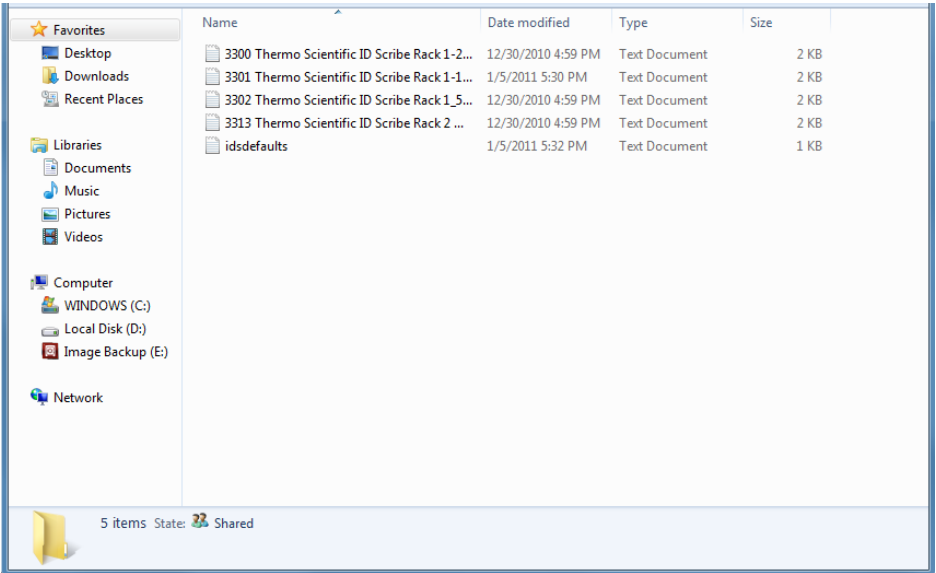


Figure 8–8. Folder Layout of Labware

To load a file, simply select the labware from the pull-down menu. The print button will dynamically change to indicate which labware you have selected. In the communication window, you will also see if the ID Scribe was able to correctly load the file.

Adding New Labware Files

New Labware Files are added when you receive racks for new labware types, need a modified Labware File for labware you currently print on, or would like to restore your factory Labware File settings.

When launched, the ID Scribe software will automatically look for Labware Files in the default labware files folder. This folder is usually named “labwaretypes” and is found in the same folder that the ID Scribe application is found.

To add a new Labware File simply copy the Labware File you received on your CD or via E-Mail to the “labwaretypes” folder located inside the ID Scribe directory.

The next time you restart the ID Scribe software, the filename of the Labware File should appear in the “Labware” pulldown menu.

You are now ready to print on your new labware type using the rack that was shipped to you.

Adjusting New Labware Files

New Labware Files sometimes need to be adjusted slightly. To do so, follow the following procedure:

Select desired labware in "labware" pull-down menu.

1. Print item 1 (top left corner).
2. Under "Advanced -> Rack Settings" in the ID Scribe software program adjust X and / or Y starting position.
3. Click "Overwrite ...Tube" button in the bottom left of the screen.
4. Reprint item 1.
5. Repeat steps 3-5 until printing occurs in the desired position on the item.
6. Print last item (bottom right position of the rack).
7. Under "Advanced -> Rack Settings" in the ID Scribe software program adjust X and / or Y spacing.
8. Click "Save " button in the bottom left of the screen.
9. Reprint last item until printing occurs in the desired position on the item.

Labware Files for ID Scribe HT

Labware files for the HT unit are exactly the same as labware files for the ID Scribe, except for addition of the following line to the labware file.

```
rack_x_spacing = 2250
```

Tube numbers for the ID Scribe HT continue across racks. For example, in Figure 2.1 on page 2-1 you can see rack 3301 holds 36 tubes. If you place this rack in the far left rack holder of the HT unit, the first tube on that rack would be tube 1.

If you now placed another rack directly to its right, its first tube would be tube 37.

If you placed all four racks into their positions, the last tube of the last rack would be tube 144.

Chapter 9

Troubleshooting and Tips

This chapter provides some solutions to problems you may experience in using the ID Scribe. The troubleshooting tips are divided into the following sections:

- Startup and Power Problems
- Startup Mechanical Movement
- Software Solutions
- Software Migration

Startup and Power Problems

The following solutions relate to starting the ID Scribe for the first time. When the ID Scribe is powered on, you should see the green LED light up, and the carriage attempt to reset itself by moving to the right.

If you connect the power cable to the ID Scribe and the green light does not turn on, please check that you are using the ID Scribe power supply and that the power supply's two ends are both connected properly.

If you power the ID Scribe on and the green LED lights up, but the carriage does not move completely to the right and then to the left, see the suggestions under "Startup Mechanical Movement".

Startup Mechanical Movement

The order in which the carriage resets is Z, X and then Y-axis motors resetting. All three must reset in order for the ID scribe to home itself.

The Z-axis motor is the motor which you can directly see on the carriage which holds the pen. The Z-axis motor rotates the black circle held on that carriage. If this black carriage is continually turning without stopping, there may be an obstruction which does not allow the piece which holds the pen to drop below and reset that axis.

The most common causes for obstruction are:

1. The pen is loaded into the carriage backwards, so that the thumbscrew for the pen stop is hitting the black circle. If this is the case, remove the pen from the pen holder and re-try resetting the unit by powering the ID Scribe off and then on.

2. Damage occurred to the carriage during transport which prevents movement of the pen holder. Please report this problem to technical service.

The X-axis motor is the motor which moves the carriage to the left and right. If the X-axis motor is obstructed, you may either see the carriage move to the left three times or move in an uneven fashion. If you notice uneven movement, you may try applying some light oil to the large rod in the rear of the unit. If the problem persists, please report this problem to technical service.

The Y-axis motor is the motor which moves the carriage towards and away from the user. If the Y-axis motor is obstructed, you may see the carriage move in an uneven fashion. If you notice uneven movement, you may try applying some light oil to the small rods. If the problem persists, please report this problem to technical service.

Software Solutions

Cannot find an ID Scribe

This section presents some solutions for installing the USB Drivers or the ID Scribe Software.

If you start up the ID Scribe software and you see the message “Cannot find an ID Scribe”, there are two possible problems: either the ID Scribe has not reset properly, or the USB drivers were not installed correctly, or two instantiations of the ID Scribe software are running at the same time.

Printed Lines Look Connected

If you notice that the printed text has too many extra lines connecting each of the letters together, try increasing the touching height.

No Printed Letters

If you notice that the printed text has too few lines or no printing at all, try decreasing the clearance height.

Excel in Edit Mode

If you receive a message that Excel is in edit mode, first try pressing either the “Enter” or “Esc” buttons in Excel on your keyboard. If that does not work, try rebooting your computer.

Also, communication errors may arise for a variety of reasons including sleep / wake states, multiple versions of Excel and other related IT issues.

Rebooting the computer reboot almost always re-establishes the connection between the ID Scribe software and Excel, but the following procedure can be followed for manually re-establishing the connection without rebooting.

1. Close all open Excel spreadsheets except the spreadsheet to be printed.

2. Save spreadsheet to be printed onto desktop as “idscribe.xls” (or other convenient name).
3. On the ID Scribe Software uncheck “Load Currently Open Excel File”
4. Click “Load Spreadsheet”
5. In the dialog box that appears, browse to desktop location and select “idscribe.xls” spreadsheet.
6. Recheck “Load Currently Open Excel File” in the ID Scribesoftware.
7. Click “Load Spreadsheet” then click “Print Labware”

Software Migration

Do not plug in USB cable connecting ID Scribe to your computer until instructed.

This installation typically requires local administrative privileges:

1. Copy the "ID Scribe Software" folder on old computer onto a USB flash drive.
2. Copy that folder on to any computer you would like to install the ID Scribe software. A typical location that gives access to all users who log on to the computer is:

C:\Documents and Settings\All Users\Desktop

3. Install the USB Drivers onto the new computer.
4. Turn on the ID Scribe.
5. Connect USB cable and wait until "new hardware" is installed.
6. Open "ID Scribe.exe" in ID Scribe Software folder.
7. "Found an ID Scribe" should be displayed in bottom left corner.

Chapter 10

FAQs

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| Q: | Does the ID Scribe work with any tubes/vials/etc? |
| A: | The ID Scribe has racks for nearly any type of tube, vial or other labware and if it doesn't we may be able to customize a rack for it. See the Cross Reference Chart for an idea of which labware can be used in the ID Scribe and with which rack. |
| Q: | How many tubes/vials/etc can I print on in each rack? |
| A: | It varies by the type of labware. Please see the Cross Reference Chart. |
| Q: | Does the writing on the tube withstand VPLN, -80C, and other cold storage conditions? |
| A: | Yes. |
| Q: | Does the writing on the tube withstand water/ethanol/DMSO and other chemicals? |
| A: | The ID Scribe uses standard laboratory markers. Typically this means the ink resists water and some other laboratory chemicals. It can depend on the frosting/pad printing that the writing is placed onto, the labware material (plastic, type of plastic, glass, etc.), if the labware is wiped/rubbed after contact with a chemical and other factors. Customized pen adapters are available for nearly any pen in the market, so if there is a pen used for a certain application just ask and you can most likely use your own pen. |
| Q: | Does the ID Scribe have to use the pens included with it? |
| A: | No, any laboratory marker can be used, but a new adapter for the pen is likely required. |
| Q: | How many racks come with my ID Scribe? |
| A: | Racks must be ordered separately. Typically we recommend 2 racks so that one can be printed while the other is loaded with labware. |
| Q: | How do I make an Excel spreadsheet to load into the ID Scribe software and print on my tubes? |
| A: | You can use an existing Excel spreadsheet or create a new one. It requires that in column A you indicate all the tube numbers, in columns B, C and D you print out the text you want written on the labware. |
| Q: | How do I know what "place" my labware is in to indicate in Column A and be sure I'm printing the right information on the right piece of labware? |
| A: | All racks are labeled on the left side with the corresponding labware number in that location. This makes it clear what labware is in what location when creating the spreadsheet. |
| Q: | Can I use formulas in the Excel fields? |
| A: | Yes, the ID Scribe will just print the final calculated number and whatever is showing in the Excel cell. |
| Q: | Can I use subscripts, superscripts, bold, underlined or italicized fonts? |
| A: | No. |
| Q: | Can I use characters other than numbers and letters? |
| A: | Currently only ASCII text and the "micro" symbol (μ) are available. |

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| Q: | How much can I print on the labware with the ID Scribe? |
| A: | Its possible to print up to 40 characters in each of the three lines, but this may not all fit onto your labware so you should test your own labware? |
| Q: | Can I change the font in the ID Scribe software? |
| A: | No, the font is preset in the software. |
| Q: | Can I print barcodes on my labware with the ID Scribe? |
| A: | No. |
| Q: | How fast does the ID Scribe print on my labware? |
| A: | It varies by the type of labware and the amount of text, but typically a rack takes 5-7 minutes. |
| Q: | Does the ID Scribe work with MACs? |
| A: | Yes, as long as you are using a recent version of Mac Office and OS X. |
| Q: | Can ID Scribe work with LIMS to use that data to create the Excel sheet for writing? |
| A: | Typically LIMS have an export function that incudes exports to Excel format. Once its into Excel, column A must be changed so that it indicates the labware location in the rack of the ID Scribe. |
| Q: | My software says "Cannot find ID Scribe"...what do I do? |
| A: | You can still load your Excel file and print in most cases. It will "find" the ID Scribe once you hit "print" on the software. If there are any problems, contact technical support. |
| Q: | Why does the ID Scribe double write on the first line of text? |
| A: | If the pen sits idle in the ID Scribe it can be a bit dry when it starts up, so it double writes to ensure that the first line is clear. |
| Q: | How do you keep the pen on the ID Scribe from drying out? |
| A: | If you must leave the pen for long periods of time without writing (~30 minutes), remove the pen and cap it to preven drying. |
| Q: | How long is the warranty on the ID Scribe? |
| A: | The warranty is 1 year from receipt. Extended warranties are available. |
| Q: | Can I use the output from my barcode reader (e.g., VisionMate) to print on 2D tubes? |
| A: | Yes. Direction for integration of the 2D reader are included in the manual. |
| Q: | Can I remove the dust/safety cover? |
| A: | If you remove the housing you can remove the dust cover. Contact technical support for help. |
| Q: | How can I tell what rack to use with what labware? |
| A: | Consult the Cross Reference Guide. |
| Q: | Can I spray down the ID Scribe with ethanol, diluted bleach, Spore Klenz, etc.? |
| A: | To avoid potential corrosion to the electronic components, it is recommended to use a pre-saturated alcohol wipe, or spray a cloth and wipe down the instrument, rather than directly spraying the unit. Corrosive cleaners such as bleach should be avoided. |
| Q: | Can I autoclave the racks? |
| A: | Yes. |
| Q: | Is it possible to load the racks and rack lifter in the wrong orientation? |
| A: | No, there are features to make sure you cannot load the rack and lifter "backwards". |
| Q: | Why does the ID Scribe printing head move but not print right away when I start it up? |
| A: | The ID Scribe is "homing" itself to be sure it prints in the right location on your labware. |
| Q: | Is regular maintenance required for the ID Scribe? |
| A: | Once a year the x, y and z rails can be wiped with alcohol. Other than that, no regular maintenance is required |

Thermo Fisher Scientific, Inc.
81 Wyman Street
P.O. Box 9046
Waltham, Massachusetts 02454-9046
United States

Thermo Fisher Scientific
Matrix Liquid Handling Products
22 Friars Drive
Hudson, New Hampshire 03051
United States

Technical Support:
North America
Tel: 800.345.0206
Email: ushud-technicalservices@thermofisher.com
Hours of Operation: 8:00 AM to 7:00 PM ET

Europe
Tel: +44(0) 161 486 2112
Email: matrixtechcorp.eu.service@thermofisher.com
Hours of Operation: 08:30 to 17:00 GMT

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