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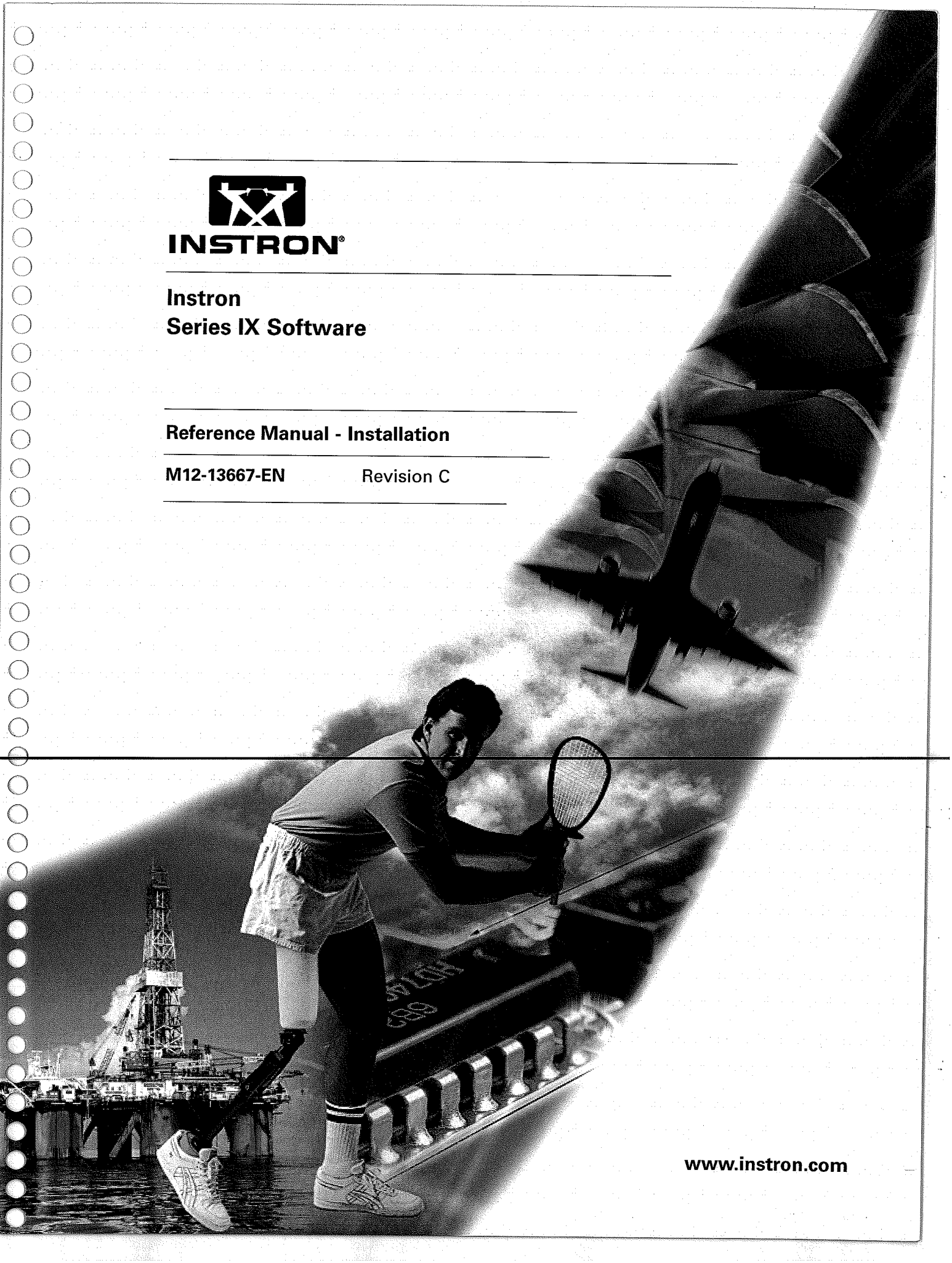
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INSTRON®

Instron
Series IX Software

Reference Manual - Installation

M12-13667-EN Revision C

www.instron.com

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Electromagnetic Compatibility

Where applicable, this equipment is designed to comply with International Electromagnetic Compatibility (EMC) standards.

To ensure reproduction of this EMC performance, connect this equipment to a low impedance ground connection. Typical suitable connections are a ground spike or the steel frame of a building.

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General Safety Precautions

Materials testing systems are potentially hazardous.

Materials testing involves inherent hazards from high forces, rapid motions and stored energy. You must be aware of all moving and operating components which are potentially hazardous, particularly the actuator in a servohydraulic testing system or the moving crosshead in an electromechanical testing system.

Whenever you consider that safety is compromised, press the Emergency Stop button to stop the test and isolate the testing system from hydraulic or electrical power.

Carefully read all relevant manuals and observe all Warnings and Cautions. The term Warning is used where a hazard may lead to injury or death. The term Caution is used where a hazard may lead to damage to equipment or to loss of data.

Ensure that the test set-up and the actual test you will be using on materials, assemblies or structures constitutes no hazard to yourself or others. Make full use of all mechanical and electronic limits features. These are supplied for your safety to enable you to prevent movement of the actuator piston or the moving crosshead beyond desired regions of operation.

The following pages detail various general warnings that you must heed at all times while using materials testing equipment. You will find more specific Warnings and Cautions in the text whenever a potential hazard exists.

Your best safety precautions are to gain a thorough understanding of the equipment by reading your instruction manuals and to always use good judgment.

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Warning

Disconnect the electrical power supply before removing the covers to electrical equipment.

Disconnect equipment from the electrical power supply before removing any electrical safety covers or replacing fuses. Do not reconnect the power source while the covers are removed. Refit covers as soon as possible.

Disconnect power supplies before removing the covers to rotating machinery.

Disconnect equipment from all power supplies before removing any cover which gives access to rotating machinery. Do not reconnect any power supply while the covers are removed unless you are specifically instructed to do so in the manual. If the equipment needs to be operated to perform maintenance tasks with the covers removed, ensure that all loose clothing, long hair, etc. is tied back. Refit covers as soon as possible.

Shut down the hydraulic power supply and discharge hydraulic pressure before disconnection of any hydraulic fluid coupling.

Do not disconnect any hydraulic coupling without first shutting down the hydraulic power supply and discharging stored pressure to zero. Tie down or otherwise secure all pressurized hoses to prevent movement during system operation and to prevent the hose from whipping about in the event of a rupture.

Shut off the supply of compressed gas and discharge residual gas pressure before you disconnect any compressed gas coupling.

Do not release gas connections without first disconnecting the gas supply and discharging any residual pressure to zero.

Use protective shields or screens if any possibility exists of a hazard from the failure of a specimen, assembly or structure under test.

Use protective shields whenever a risk of injury to operators and observers exists from the failure of a test specimen, assembly or structure, particularly where explosive disintegration may occur. Due to the wide range of specimen materials, assemblies or structures that may be tested, any hazard resulting from the failure of a test specimen, assembly or structure is entirely the responsibility of the owner and the user of the equipment.

Protect electrical cables from damage and inadvertent disconnection.

The loss of controlling and feedback signals that can result from a disconnected or damaged cable causes an open loop condition which may drive the actuator or crosshead rapidly to its extremes of motion. Protect all electrical cables, particularly transducer cables, from damage. Never route cables across the floor without protection, nor suspend cables overhead under excessive strain. Use padding to avoid chafing where cables are routed around corners or through wall openings.

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Warning

Wear protective clothing when handling equipment at extremes of temperature.

Materials testing is often carried out at non-ambient temperatures using ovens, furnaces or cryogenic chambers. Extreme temperature means an operating temperature exceeding 60 °C (140 °F) or below 0 °C (32 °F). You must use protective clothing, such as gloves, when handling equipment at these temperatures. Display a warning notice concerning low or high temperature operation whenever temperature control equipment is in use. You should note that the hazard from extreme temperature can extend beyond the immediate area of the test.

Take care when installing or removing a specimen, assembly or structure.

Installation or removal of a specimen, assembly or structure involves working inside the hazard area between the grips or fixtures. Keep clear of the jaws of a grip or fixture at all times. Keep clear of the hazard area between the grips or fixtures during actuator or crosshead movement. Ensure that all actuator or crosshead movements necessary for installation or removal are slow and, where possible, at a low force setting.

Do not place a testing system off-line from computer control without first ensuring that no actuator or crosshead movement will occur upon transfer to manual control.

The actuator or crosshead will immediately respond to manual control settings when the system is placed off-line from computer control. Before transferring to manual control, make sure that the control settings are such that unexpected actuator or crosshead movement cannot occur.

Keep clear of the operating envelope of a robotic device unless the device is de-activated.

The robot in an automated testing system presents a hazard because its movements are hard to predict. The robot can go instantly from a waiting state to high speed operation in several axes of motion. During system operation, keep away from the operating envelope of the robot. De-activate the robot before entering the envelope for any purpose, such as reloading the specimen magazine.

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Chapter 1
Introduction

Outline

This chapter describes the installation program for your Series IX software. It tells you what the program will do, gives you some general information regarding computer requirements, screen resolution, and uninstalling your software, and discusses the control and protection functions of the program.

- The Installation Program 1-2
- General Information 1-3
- Control and Protection 1-5

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The Installation Program

The Instron installation program lets you easily install and configure your Series IX software.

When you start the program, you can choose one of the following four functions:

- Complete installation
- Install program options
- Install custom software
- Configure your software

The various chapters of this manual are designed to help you install your software easily.

- Chapter 2 details the procedure for installing all of your software options.
- If you are installing separately purchased options to a previously installed system, read Chapter 3.
- If you have purchased a custom written software package from Instron, turn to Chapter 4.
- For information on how to configure your software, enable and disable installed options, and so on, read Chapter 5.

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General Information

Computer Requirements

The following hardware is the minimum specification to run the Series IX software:

Computer	Intel Pentium – 200 MHz
External cache	256 Kb
Installed RAM	32 Mb
CD-ROM drive	4x
Hard disk	1.2Gb IDE with at least 50 Mb free space
1.44 Mb floppy disk drive	1
Parallel port	1
Serial port	1
Video	SVGA
Expansion bus	ISA/PCI
Power supply	145 Watt

Screen Resolution

Series IX is designed to run at a minimum screen resolution of 800 by 600 and with small fonts. If you try to run Series IX at a lesser resolution, you will not see the entire screen interface.

To change the screen resolution settings, click the ***Start*** button on the Windows Taskbar, then choose ***Settings*** > ***Control Panel***. Double-click the ***Display*** icon and the ***Settings*** tab. Set the ***Desktop area*** slider to the required resolution and the ***Font size*** list box to Small Fonts.

Disk Maintenance

Instron strongly recommends that, before installing or re-installing software, you delete any temporary files from the WINDOWS/TEMP directory and that you run disk maintenance software such as ScanDisk and Disk Defragmenter.

Uninstalling Series IX

If you should ever wish to completely uninstall Series IX, use the following procedure:

Caution

Make sure that you save copies of your Series IX data, method, report, and user program files before you uninstall Series IX. Uninstalling can cause you to lose your saved data.

If your data, method, report, or user program files are saved into the default locations, or if you have saved them into new folders under the INSTRON folder, you should save these files to a new location before you use this procedure.

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- Save any data, method, report, or user program files that reside in the INSTRON folder to a new location. These files are normally saved to the USER/TEMPLATE, S9/DATA, S9/METH, S9/OUTPUT, and S9/USERPROG folders.
- Delete the INSTRON folder on the hard disk (C:).
- Delete the INSTRON.INI file from the WINDOWS folder.
- Edit SYSTEM.INI in the WINDOWS folder and remove the *device* = entries for VDGL2D.386 and VVIDD.386 (if the video extensometer was installed) in the *[386Enh]* section of the ini file. Also delete the [Instron] and [Videoex] sections.
- Delete VDGL2D.386 and VVIDD.386 (if it exists) from C:\WINDOWS\SYSTEM.
- Delete TEMPLATE.INI from C:\WINDOWS.
- Edit AUTOEXEC.BAT and remove any PATH references to Series IX software (e.g. C:\INSTRON\ORIG, C:\INSTRON\COM). Also remove any *SET* entries for Series IX (i.e. MTMETH, MTDB, MTPROG, and MTSET).
- Delete any *.MER and INSTRON.BAK files that may be installed on your computer.
- Delete the *INSTRON* group from the Windows Start menu.

Once these changes have been made, the system is ready to install Series IX.

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Control and Protection

Key Code

Series IX uses a key code system to automatically install those items that you have purchased. The key code may be supplied on the CD-ROM case, on a separate card, or incorporated into the installation disks

If on the disks, the installation program reads the number automatically and installs the relevant software.

If on a card or the CD-ROM case, the program asks you to input the number during installation.

If you purchase software options at a later date, you may be supplied with a new CD-ROM or new disks or you may just be given a new key code number to unlock your new option. Refer to Chapter 3 for instructions on installing software options.

File Protection

While installing a new version of the software over an older version, the program may identify identical user files such as method files or data files. At the start of the installation, the program will ask you for instructions on what to do with those files using the ***Select Files to Re-Install*** dialog as shown in Figure 1-1.

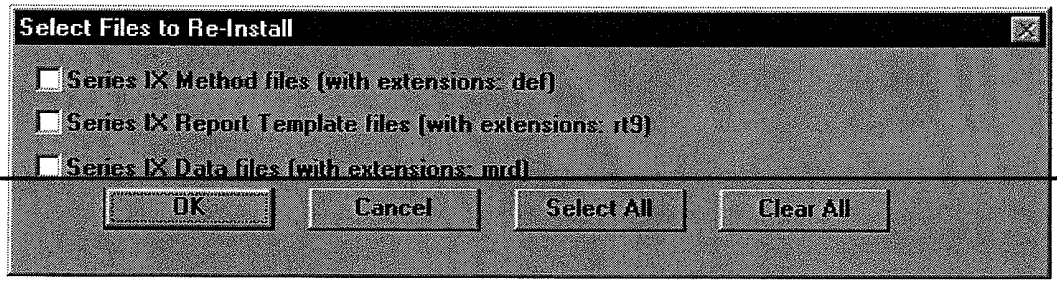


Figure 1-1. Select Files to Re-Install Dialog Box

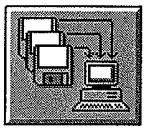
If you check any group of files, the default sets of files will be installed, overwriting any files that you have in the relevant directories. Before re-installing, you should save any data, method, report, or user program files that reside in the INSTRON folder to a new location. These files are normally saved to the USER/TEMPLATE, S9/DATA, S9/METH, S9/OUTPUT, and S9/USERPROG folders.

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Chapter 2
Complete Installation

Outline



The *Complete Installation* button automatically installs all of the software options that you have purchased. This chapter details the fastest way to install your new software.

- Program Installation 2-2

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Program Installation

Notes *If you are using the Series IX software to control an Instron test instrument, Install the drivers for your GPIB board first. Use the installation disk and instructions supplied by National Instruments, the manufacturer of the GPIB board*

If you have a customized test instrument, such as a specialized frame, or if you have specially written Series IX software, then your installation disk set may include a disk marked Custom. Refer to Chapter 4 for details on installing custom software.

CD-ROM Installation

Insert the CD into your CD-ROM drive. The Setup program should start automatically. If the Setup program does not run, use Windows Explorer to access the files on the CD-ROM and double-click on SETUP.EXE to run the program.

Floppy Disk Installation

Use the following procedure to install the program from floppy disks:

1. Insert Disk 1, labeled ***Setup***, into the A: or the B: floppy disk drive.
2. Click the Windows ***Start*** button on the Taskbar and the ***Run***... command. The ***Run*** dialog box appears as shown in Figure 2-1.
3. In the text box, type A:\SETUP, as shown (or B:\SETUP if your floppy disk is in the B: drive).

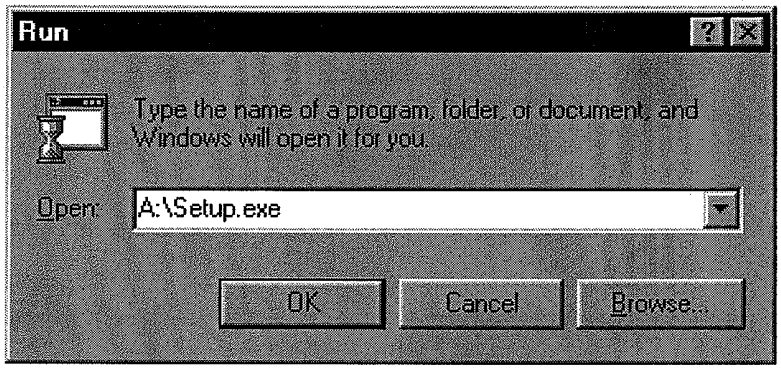


Figure 2-1. Run Dialog Box

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General Installation Procedure

1. The language selection screen appears as shown in Figure 2-2. Click on the appropriate button to select the language that you want to install.

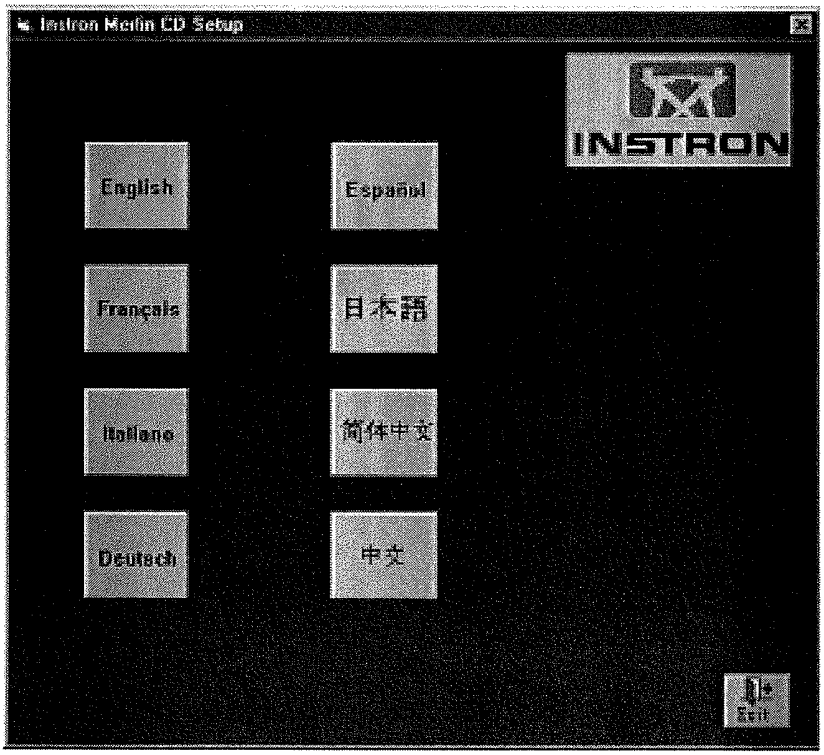
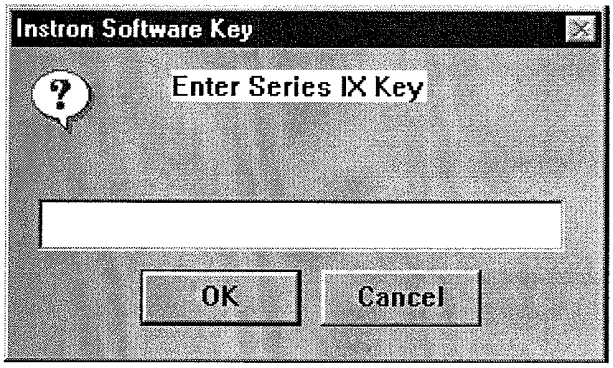


Figure 2-2. Language Selection Screen

2. The Setup screen appears, and the program checks to see if the key code is present on the disk. If your key code is supplied separately, a dialog box appears for you to insert the code, as shown in Figure 2-3. Enter the code and click the ***OK*** button.



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Figure 2-3. Key Code Dialog Box

3. The ***Main Installation Options*** dialog box appears as shown in Figure 2-4.

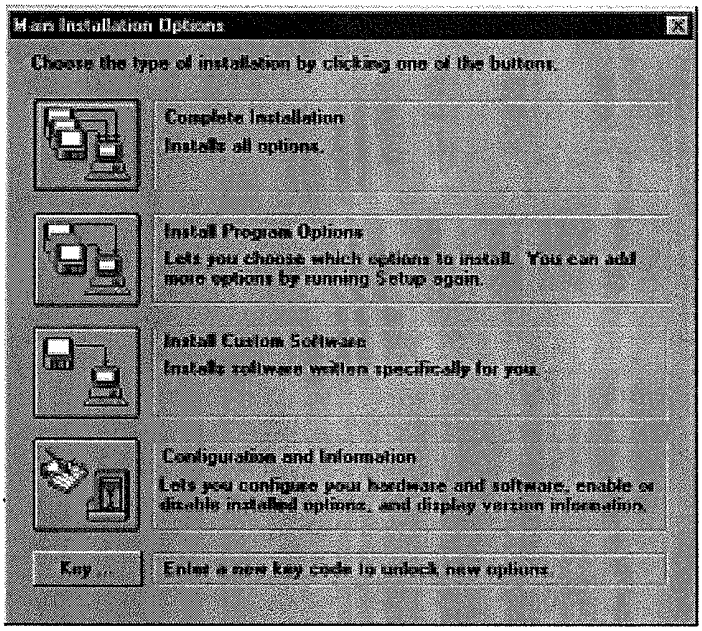
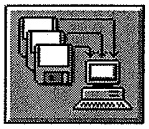


Figure 2-4. Main Installation Dialog Box



4. Click on the ***Complete Installation*** button. The program searches for previous installations, then displays the ***Installation Location*** dialog box, as shown in Figure 2-5.

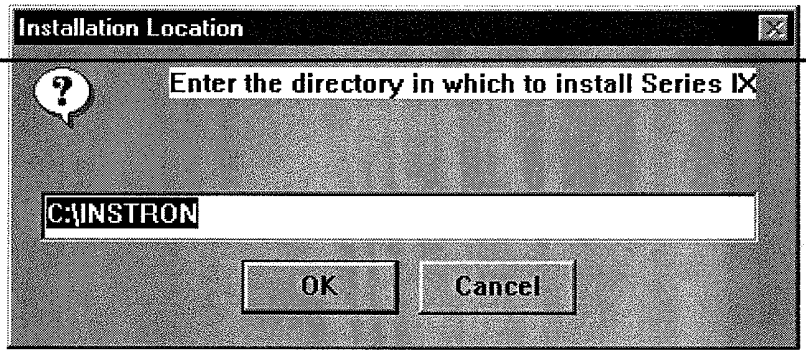


Figure 2-5. Installation Location

5. The default drive and directory C:\INSTRON is already selected.
   If you wish to accept the default selection, just click on the ***OK*** button.

Note *We recommend that you accept the default drive and directory setting. If you choose another drive or directory or both, you may experience problems loading report templates associated with example methods.*

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If you wish to use another drive or directory or both, enter the drive and directory where you would like to install the program. For example, if you would like to install on the D: drive to a directory called TESTING, enter D:\TESTING to the text box and click on the ***OK*** button.

6. The program creates the directory structure if necessary, then indicates installation progress on a progress indicator as shown in Figure 2-6.

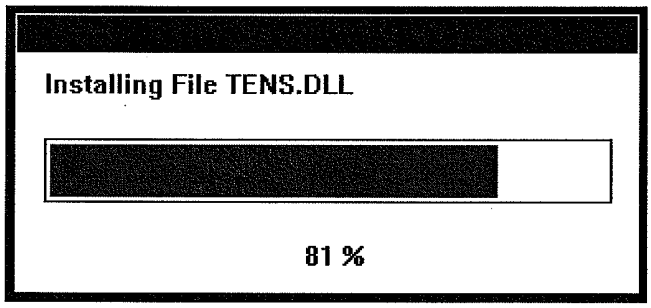


Figure 2-6. Installation Progress Indicator

7. When all the files are installed, the program displays the ***Enable Options*** dialog box, as shown in Figure 2-7.

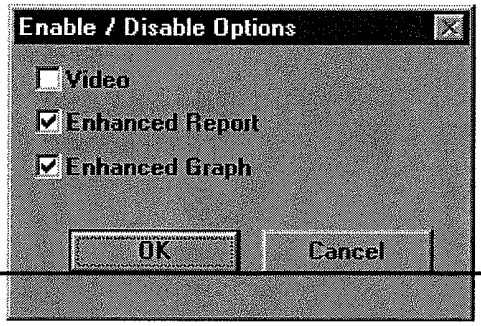


Figure 2-7. Enable Options Dialog Box

8. Enable the check boxes for the options that you wish to use. You can change the enabled state of the options at any time by running the Setup program again. Refer to Chapter 5.

Note: Do not select video if you do not have a video extensometer installed on your system.

9. The program now displays a series of configuration dialogs for you to confirm the settings for its configuration on your system. Refer to Chapter 5 for information on configuration settings.

10. The program displays a message box asking you if you want AUTOEXEC.BAT and CONFIG.SYS modified as shown in Figure 2-8. Select the appropriate option button and click the ***OK*** button.

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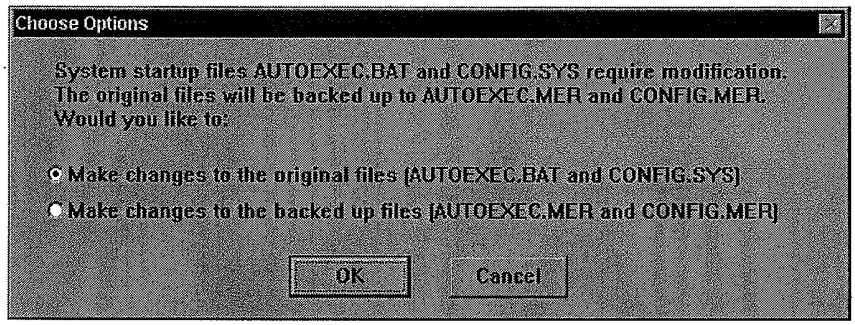
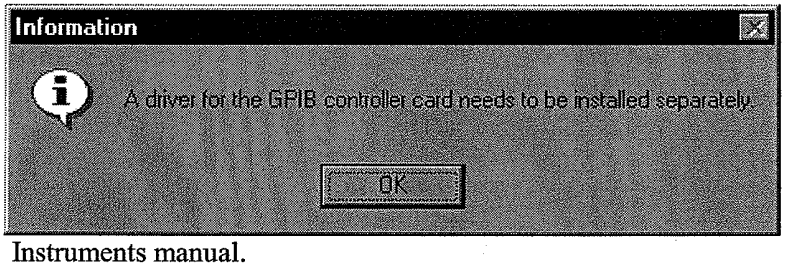


Figure 2-8. Autoexec Message Box

11. If you have not yet installed a GPIB driver, the program displays a message box informing you of this as shown in Figure 2-9. You must install a National Instruments GPIB driver and card suitable for your computer before using Series IX on an Instron test instrument. Follow the instructions in the National



Instruments manual.

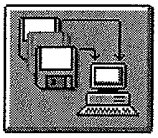
Figure 2-9. GPIB Message Box

12. The program displays a message box prompting you to restart the computer. Click the ***OK*** button and the computer restarts. Your installation is now complete.

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Chapter 3
Installing Options

Outline



This chapter details how to install Series IX optional software packages.

- Option Installation 3-2

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Option Installation

If you purchase further Series IX options, Instron will send you either a new CD-ROM, disk set, or a new key code to unlock the options on your original media.

Caution

Make sure that Series IX is shut down before you run the Setup program.

Check that Series IX is shut down before you run the Setup program. Running Setup while Series IX is already running will cause Series IX to cease functioning.

Procedure

Use the following procedure to install the program:

1. Click the Windows ***Start*** button on the Taskbar and select ***Programs*** > ***Instron*** > ***Series IX Setup***.

2. In the ***Main Installation Options*** dialog box, click on the ***Key***... button. The ***Key Change*** dialog box opens as shown in Figure 3-1.

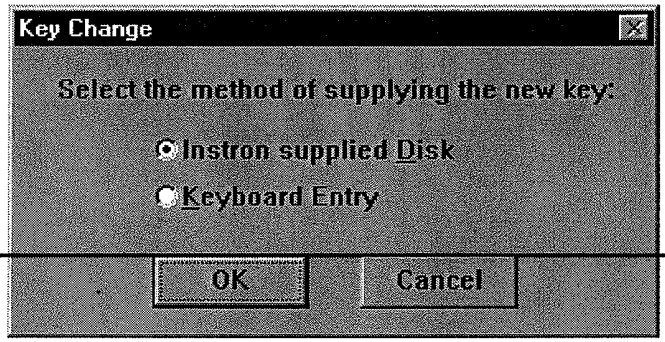


Figure 3-1. Key Change Dialog Box

3. Choose the appropriate option and click OK.

   a. If Instron has supplied the key number on a disk and you choose this option, the software prompts you to insert the disk, as shown in Figure 3-2.

   b. If Instron has supplied the number on a card, and you choose to enter the key number manually, the software prompts you to enter the key number, as shown in Figure 3-3.

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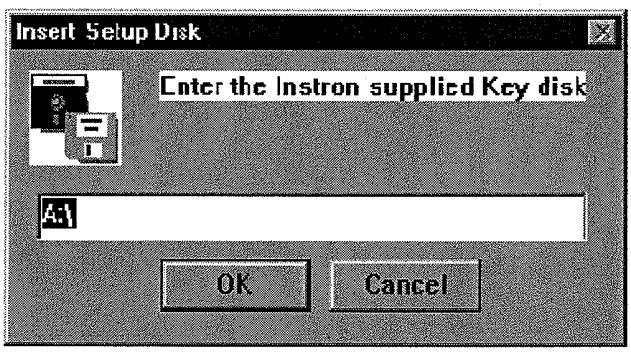


Figure 3-2. Key Disk Dialog Box

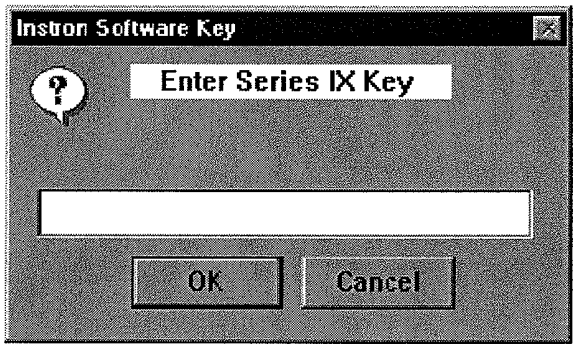
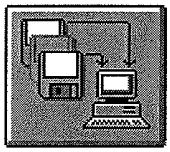


Figure 3-3. Key Code Dialog Box

4. Type in the key code number as supplied by Instron, and click the ***OK*** button. The ***Main Installation Options*** dialog box displays.



5. Click on the ***Install Program Options*** button. The ***Options*** dialog box displays as shown in Figure 3-4.

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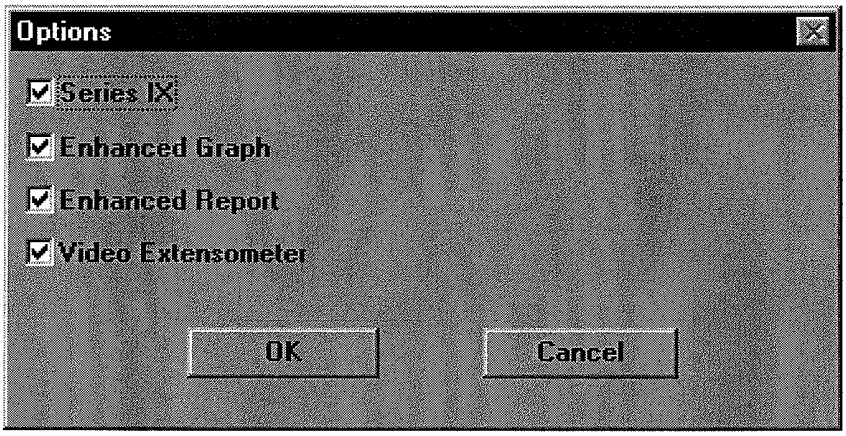


Figure 3-4. Options Dialog Box

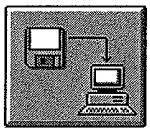
6. The ***Options*** dialog box shows you all the options available for installation, including the new options that your key code number has unlocked. Unavailable options are grayed out. Check the options that you wish to install. (You can uncheck the options that are already installed if you wish).

7. Click the ***OK*** button. The installation now proceeds. You may need to set up some configuration settings. Refer to Chapter 5 for details.

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Chapter 4
Installing Custom Software

Outline



This chapter details how you can install customized software that Instron has developed for you. If you have customized software, you need to install the basic Series IX software first, then install your custom software to tailor the system to your needs. Refer to Chapter 2 for details on installing your Series IX software, then turn to this chapter for details on customizing your installation.

- Custom Installation 4-2

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Custom Installation

Your custom software comes on one or a series of numbered disks that are separate from the main Series IX software package. Normally you will install your custom options after the basic Series IX software is installed. (Refer to Chapter 2).

This procedure is a general guide to installing custom software. However, Instron normally supplies detailed instructions with any custom software package and you should follow those instructions where available.

Caution

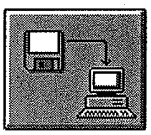
Make sure that Series IX is shut down before you run the Setup program.

Check that Series IX is shut down before you run the Setup program. Running Setup while Series IX is already running will cause Series IX to cease functioning.

Procedure

Use the following procedure to install the custom software:

1. Click the Windows ***Start*** button on the Taskbar and select ***Programs*** > ***Instron*** > ***Series IX Setup***.

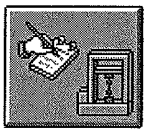


2. In the ***Main Installation Options*** dialog box, click on the ***Install Custom Software*** button. The software prompts you through the installation procedure.

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Chapter 5
Configuring Your Software

Outline



This chapter shows you how to configure your hardware and software. You can use the configuration section of the installation program at any time by running Setup from the Instron group. Thus you can easily enable or disable your various software options, configure your calculations, and so on.

Starting Configuration.....5-2
Configuring Video Board.....5-3
Enabling and Disabling Options 5-4
Viewing Version Information 5-5

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Starting Configuration

You use the installation program to configure the various settings for your testing hardware and software.

Caution

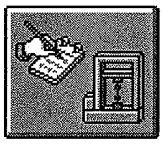
Make sure that Series IX is shut down before you run the Setup program.

Check that Series IX is shut down before you run the Setup program. Running Setup while Series IX is already running will cause Series IX to cease functioning.

Procedure

Use the following procedure to configure your system:

1. Click the Windows ***Start*** button on the Taskbar and select ***Programs*** > ***Instron*** > ***Setup***.



2. In the ***Main Installation Options*** dialog box, click on the ***Configuration and Information*** button. The ***Configuration/Information Options*** dialog box opens as shown in Figure 5-1.

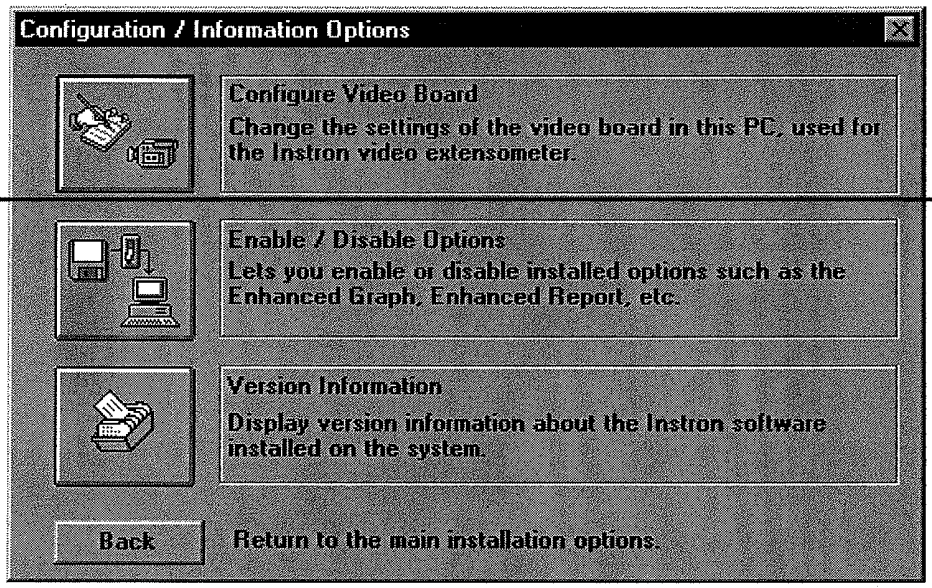
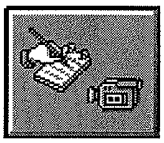


Figure 5-1. Configuration/Information Options Dialog

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Configuring Video Board

To configure the video board:



1. Click on the ***Configure Video Board*** button. The ***Configure Video Board*** dialog box displays as in Figure 5-2.

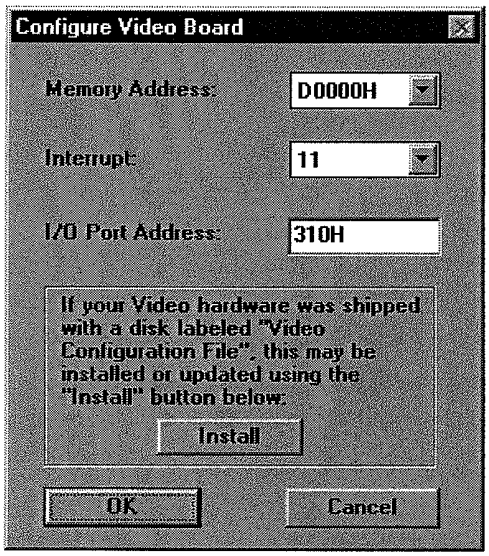


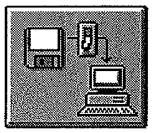
Figure 5-2. Configure Video Board Dialog Box

2. Set the values as required for your system. The default settings are normally correct for your system. You should only change these settings if you know what you are doing or under the guidance of an Instron service technician.

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Enabling and Disabling Options

You can use the installation program at any time to enable or disable the software options that you have installed.



To enable or disable your software options:

1. Click on the ***Enable/Disable Options*** button. The ***Enable/Disable Options*** dialog box displays as shown in Figure 5-3.

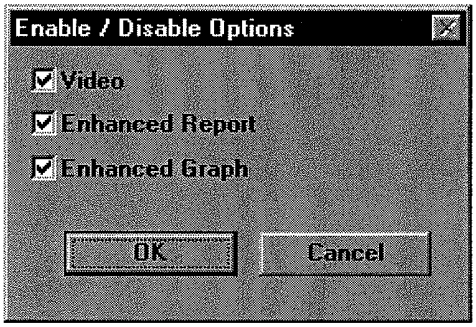


Figure 5-3. Enable/Disable Dialog Box

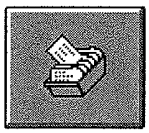
2. Check the options that you wish to have enabled in your software and click the ***OK*** button. Options that are not installed are grayed out.

Note: Do not select video if you do not have a video extensometer installed on your system.

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Viewing Version Information

You can use the installation program at any time to view the version numbers of the software modules that you have installed.



To view your software version information:

1. Click on the ***Version Information*** button. The ***Version Information*** window displays as shown in Figure 5-4.

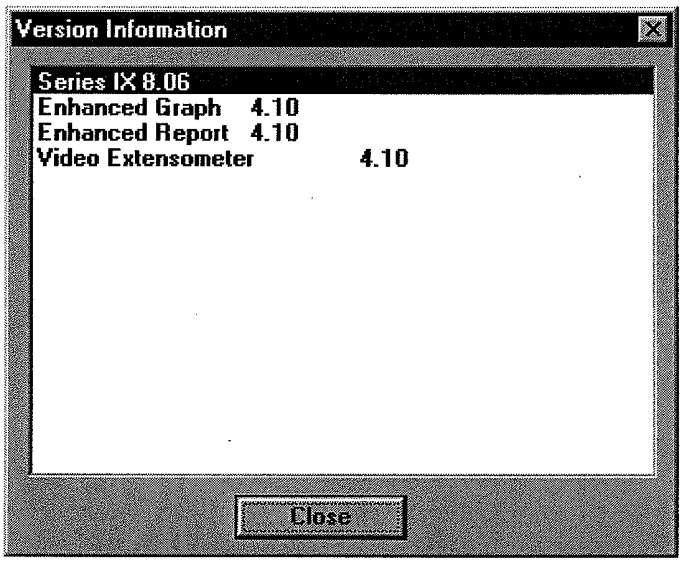


Figure 5-4. Version Information Window

2. Click on the ***Close*** button to dismiss the window.

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Table 5-8. 4400 Series - Double Extra Height Frames

	Model #	Height	Width	Depth	Weight	Load Capacity	Maximum Power Requirement
Floor Standing Models	4481	3,181 mm 125.2 in	1,124 mm 44.3 in	976 mm 38.4 in	998 kg 2,200 lb	50 kN 11,240 lbf	1,400 VA
	4482	3,181 mm 125.2 in	1,124 mm 44.3 in	976 mm 38.4 in	998 kg 2,200 lb	100 kN 22,500 lbf	1,400 VA
	4484	3,181 mm 125.2 in	1,124 mm 44.3 in	976 mm 38.4 in	1,098 kg 2,420 lb	150 kN 33,750 lbf	2,800 VA
	4485	3,181 mm 125.2 in	1,124 mm 44.3 in	976 mm 38.4 in	1,098 kg 2,420 lb	200 kN 45,000 lbf	2,800 VA

Table 5-9. 4400 Series - Double Extra Height w/ 2nd Test Space

	Model #	Height	Width	Depth	Weight	Load Capacity	Maximum Power Requirement
Floor Standing Models	4481 (1)	3,258 mm 128.3 in	1,124 mm 44.3 in	976 mm 38.4 in	1,188 kg 2,620 lb	50 kN 11,240 lbf	1,400 VA
	4482 (1)	3,258 mm 128.3 in	1,124 mm 44.3 in	976 mm 38.4 in	1,188 kg 2,620 lb	100 kN 22,500 lbf	1,400 VA
	4484 (1)	3,310 mm 130.3 in	1,124 mm 44.3 in	976 mm 38.4 in	1,338 kg 2,950 lb	150 kN 33,750 lbf	2,800 VA
	4485 (1)	3,310 mm 130.3 in	1,124 mm 44.3 in	976 mm 38.4 in	1,338 kg 2,950 lb	200 kN 45,000 lbf	2,800 VA

(1) Allow an additional space of 200 mm (8.0 in) above the crosshead for loadcell installation and removal access.

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Table 5-10. 4400 Series - Double Extra Height and Extra Wide

	Model #	Height	Width	Depth	Weight	Load Capacity	Maximum Power Requirement
Floor Standing Models	**4481** (1)	3,181 mm 125.2 in	1,483 mm 58.4 in	976 mm 38.4 in	1,230 kg 2,712 lb	50 kN 11,240 lbf	1,400 VA
	4482 (1)	3,181 mm 125.2 in	1,483 mm 58.4 in	976 mm 38.4 in	1,230 kg 2,712 lb	100 kN 22,500 lbf	1,400 VA
	4484 (1)	3,181 mm 125.2 in	1,483 mm 58.4 in	976 mm 38.4 in	1,330 kg 2,930 lb	150 kN 33,750 lbf	2,800 VA
	4485 (1)	3,181 mm 125.2 in	1,483 mm 58.4 in	976 mm 38.4 in	1,330 kg 2,930 lb	200 kN 45,000 lbf	2,800 VA

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Accessories

There are many accessories available with our 4400 series electromechanical frames. Some accessories may change the frame's dimensions and require more space than the measurements shown in this manual. Special electrical requirements may also be necessary. Some accessories may require additional services, such as pneumatic grips requiring an air supply with filtered air and an air regulator.

If you purchased accessories with your testing system, contact Instron's service department for additional information you may need to properly prepare your test site. Refer to “Product Support” on page 1-3 for Instron’s contact information.

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Chapter 6
Series 5500 Frames

Outline

This chapter describes the site requirements for the Series 5500 load frames and provides the general specifications common to all the 5500 frames. It also provides basic frame specifications and dimensions, for all available frame options, that are required in order to adequately prepare the testing site for installation.

- Site Requirements 6-2
- Common Specifications 6-4
- Frame Specifications 6-6
- Accessories 6-13

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Site Requirements

Proper site preparation is imperative so that the testing system operates in accordance with its specifications and provides accurate test results.

Note: Models 5587 and 5589 require specialized site preparation that cannot be generalized for the purposes of this manual. Refer to the specific Installation manual for these models.

Floor Loading

The supporting floor must be checked for its weight loading and be able to support the weight of the load frame and any other accessory parts that may have been purchased. The floor must be free of vibrations from other activities taking place in or near the building.

For larger load frames, it is recommended that you consult your facility engineer, foundation specialist, or a civil engineer to ensure that the load capacity of the floor can support at least three times the weight of the load frame and its component parts. The higher load capacity is necessary because large dynamic loads may occur when a specimen breaks and this additional load may be absorbed into the floor.

Anti-vibration mountings are available as an option in order to reduce the transfer of these large dynamic loads into the supporting floor. Contact your local Instron sales representative to discuss your needs.

Table Loading

The supporting table must be checked for its weight loading and must be able to support the weight of the load frame with all its components and accessories, if the computer and accessories are placed on the same table. There must be a sufficient margin of safety in the table's weight loading to ensure the stability of the system.

The table must be free of vibrations from other activities taking place in or near the building. A table with leveling feet is recommended.

Power Supply

Ensure that the required power supply is available and complies with the requirements detailed under "Electrical Power Requirements" on page 6-4.

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Telephone and Network Access

Ensure that a telephone line is located within the general testing area. This enables the user to contact Instron's service department directly from the testing area so the user can perform the instructions provided and resolve the situation while on the telephone with the service representative. This facilitates resolving issues in a timely manner and reduces the number of repeated phone calls on the same problem.

It is also suggested that network drops, or digital phone lines, be within the general testing area. Instron's goal is to provide remote diagnostics in order to resolve system issues. Having a network drop or digital phone line available will enable an Instron service representative to dial into the testing system's computer to diagnose and resolve problems more efficiently. Including the network or digital lines in your initial site preparation will facilitate adding this function if it becomes necessary in the future.

Ceiling Clearance

Ensure that there is adequate ceiling clearance so that the load frame can be easily placed in its testing location. Take into consideration how you will be transporting the frame (by forklift or crane, for instance) and ensure that the ceiling height can accommodate your mode of transportation.

Environmental Conditions

Ensure that the testing site meets the standards described under "Environmental Conditions" on page 6-5.

Accessibility

The load frame must be accessible for routine maintenance. There should be approximately 915 mm (36 in) of space on all sides of the frame. This allows easy access to all components of the testing system without having to move the load frame. If the frame is moved, it may need to be re-verified.

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Common Specifications

The following information is common to all 5500 testing systems:

Electrical Power Requirements

Table 6-1. 5500 Series - Electrical Power Requirements

Model #	Voltage *	Frequency	Maximum Distance from Power Source
5525 (1), 5542, 5543, 5544, 5547, 5548, 5565, 5566, 5567, 5569	Single Phase Voltage 100/ 120/ 220/ 240 Vac ±10% Power cords are available for the various international standards	47 to 63 Hz	2.44 m 8 ft Measured from the right side of the load frame (2)
5564	Single Phase Voltage 100/ 120/ 220/ 240 Vac +10/-5% Power cords are available for the various international standards	47 to 63 Hz	2.44 m 8 ft Measured from the right side of the load frame (2)
5581, 5582, 5584, 5585	Single Phase Voltage 100/ 120/ 220/ 240 VAC ±10% The voltage setting for the frame determines the type of plug you will receive: 100 and 120 V includes NEMA L5-30P 30A plug 220 and 240 V includes IEC309 16A plug	47 to 63 Hz	2.44 m 8 ft Measured from the right side of the load frame (1)
5587, 5589	Three Phase Voltage 200-240, 360-440, or 440-480 Vac ±10%	50 to 60 Hz	Refer to the Installation manual for these frames

* Refer to the "Frame Specifications" for details regarding the maximum power requirements for your specific testing system model.

(1) For the AsphaltPro system (model 5525), the information provided above applies to the load frame only. A chiller unit is also required, and available with either 120 Vac or 230 Vac and frequency 57/63 Hz. The chiller unit requires a separate, dedicated circuit from the rest of the system. The electrical requirements are provided in a separate manual provided by the chiller's manufacturer. Contact Instron service for additional information.

(2)If the power source is located to the left of the load frame, then the distance must also include the width of the load frame.

For model #5564, the power supply must not be greater than 10% nor less than 5% of the specified voltage.

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For models #5581, 5582, 5584, 5585: Although these frames operate at the indicated voltages, high speed turn-around times will be affected if voltage is near the extreme of tolerance. For 230 V operation, the frame is normally set to 220 V.

Environmental Conditions

Operating Temperature:	+10° to +38° C (+50° to +100° F)*
Storage Temperature:	-40° to +66° C (-40° to +150° F)
Humidity:	10% to 90% (non-condensing)
Atmosphere:	Designed for use under normal laboratory conditions. Protective measures may be required if excessive dust, corrosive fumes, electromagnetic fields, or hazardous conditions are encountered.

* AsphaltPro tester requires an operating temperature range of +10° to +30° C (+50° to +86° F).

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Frame Specifications

Table 6-2. 5500 Series - Standard Frame Specifications

	Model #	Height	Width	Depth	Weight	Load Capacity	Maximum Power Requirement
AsphaltPro Tester	**5525** (1)	385 mm 15.2 in	421 mm 16.6 in	593 mm 23.3 in	38.6 kg 85 lb (2)	500 N 112 lbf	100 VA (3)
Single Column Table Top Models	**5542**	875 mm 34.4 in	375 mm 14.75 in	500 mm 19.7 in	36 kg 79 lb (4)	500N 112 lbf	225 VA
	5543	1,275 mm 50.2 in	375 mm 14.75 in	500 mm 19.7 in	41 kg 90 lb (4)	1 kN 225 lbf	225 VA
	5544	1,275 mm 50.2 in	375 mm 14.75 in	500 mm 19.7 in	42 kg 92 lb (4)	2 kN 450 lbf	360 VA
Micro-Testers	**5547**	1500 mm 59.05 in (Maximum)	452.2 mm 17.80 in	440 mm 17.32 in	80 kg 176 lb (5)	2 kN 450 lbf	435 VA
	5548	1500 mm 59.05 in (Maximum)	452.2 mm 17.80 in	440 mm 17.32 in	80 kg 176 lb (5)	2 kN 450 lbf	435 VA
Twin Columns Table Top Models	**5564**	1,597 mm 62.9 in	909 mm 35.8 in	700 mm 27.5 in	136 kg 300 lb	2 kN 450 lbf	300 VA
	5565	1,597 mm 62.9 in	909 mm 35.8 in	700 mm 27.5 in	136 kg 300 lb	5kN 1,125 lbf	300 VA
	5566	1,597 mm 62.9 in	909 mm 35.8 in	700 mm 27.5 in	136 kg 300 lb	10 kN 2,250 lbf	300 VA
	5567	1,597 mm 62.9 in	909 mm 35.8 in	700 mm 27.5 in	182 kg 400 lb	30 kN 6,750 lbf	600 VA
	5569	1,597 mm 62.9 in	909 mm 35.8 in	700 mm 27.5 in	240 kg 530 lb	50 kN 11,240 lbf	700 VA

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Table 6-2. 5500 Series - Standard Frame Specifications (Continued)

	Model #	Height	Width	Depth	Weight	Load Capacity	Maximum Power Requirement
Floor Standing Models	**5581** (6)	2,092 mm 82.4 in	1,307 mm 51.5 in	757 mm 29.8 in	862 kg 1,900 lb	50 kN 11,240 lbf	1,400 VA
	5582 (6)	2,092 mm 82.4 in	1,307 mm 51.5 in	757 mm 29.8 in	862 kg 1,900 lb	100 kN 22,500 lbf	1,400 VA
	5584 (6)	2,092 mm 82.4 in	1,307 mm 51.5 in	757 mm 29.8 in	952 kg 2,100 lb	150 kN 33,750 lbf	2,800 VA
	5585 (6)	2,092 mm 82.4 in	1,307 mm 51.5 in	757 mm 29.8 in	952 kg 2,100 lb	200 kN 45,000 lbf	2,800 VA
	5587	2,553 mm 100.5 in (7)	1,617 mm 63.7 in	762 mm 30.0 in (8)	2,214 kg 4,880 lb	300 kN 67,500 lbf	3,000 VA
	5589	2,972 mm 117.0 in (7)	1,604 mm 63.2 in	762 mm 30.0 in (8)	3,629 kg 8,000 lb	600 kN 135,000 lbf	5,000 VA

(1) Dimensions for chiller unit are: Height - 432 mm (17 in); Width - 330 mm (13 in); Depth - 533 mm (21 in)

(2) Weight includes load frame, power amplifier, and controller unit. To include the weight of the chiller unit add:
34 kg (75 lb) for 120 Vac unit
41 kg (90 lb) for 230 Vac unit

(3) For load frame, power amplifier, controller, and RTD meter. Maximum power for the chiller unit:
960 VA for 120 Vac unit
1550 VA for 230 Vac unit

(4) Weight includes the load frame and control panel only. To include the 5500 electronics module or computer, add an additional 9 kg (18 lb) to the weight shown above.

(5) Weight includes the load frame and control panel only. To include the 5500 electronics module, add an additional 9 kg (18 lb) to the weight shown above. To add the transducer interface (DSP assembly) or computer, add 4 kg (8 lb) to the weight shown above.

(6) The optional Support Base/Extension #2910-061 adds the following dimensions to the standard frame when fitted: Height 300 mm (11.8 in)
Weight91 kg (200 lb)

(7) Includes leveling feet. Height is decreased by 40 mm (1.625 in) if leveling feet are not used.

(8) Depth measurement does not include controller.

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Table 6-3. 5500 Series - Standard Frame w/ 2nd Test Space

	Model #	Height	Width	Depth	Weight	Load Capacity	Maximum Power Requirement
Twin Column Table Top Models	**5564** (1) (2)	1,636 mm 64.4 in	909 mm 35.8 in	700 mm 27.5 in	154 kg 340 lb	2 kN 450 lbf	300 VA
	5565 (1) (2)	1,636 mm 64.4 in	909 mm 35.8 in	700 mm 27.5 in	154 kg 340 lb	5kN 1,125 lbf	300 VA
	5566 (1) (2)	1,636 mm 64.4 in	909 mm 35.8 in	700 mm 27.5 in	154 kg 340 lb	10 kN 2,250 lbf	300 VA
	5567 (1) (2)	1,636 mm 64.4 in	909 mm 35.8 in	700 mm 27.5 in	248 kg 547 lb	30 kN 6,750 lbf	600 VA
Floor Standing Models	**5581** (2)	2,173 mm 85.6 in	1,307 mm 51.5 in	757 mm 29.8 in	1,047 kg 2,310 lb	50 kN 11,240 lbf	1,400 VA
	5582 (2)	2,173 mm 85.6 in	1,307 mm 51.5 in	757 mm 29.8 in	1,047 kg 2,310 lb	100 kN 22,500 lbf	1,400 VA
	5584 (2)	2,223 mm 87.5 in	1,307 mm 51.5 in	757 mm 29.8 in	1,138 kg 2,510 lb	150 kN 33,750 lbf	2,800 VA
	5585 (2)	2,223 mm 87.5 in	1,307 mm 51.5 in	757 mm 29.8 in	1,138 kg 2,510 lb	200 kN 45,000 lbf	2,800 VA

(1) Add 30 mm (1.2 in) to the frame height with the load cell fitted.

(2) Allow an additional space of 200 mm (8.0 in) above the crosshead for loadcell installation and removal access.

Table 6-4. 5500 Series - Extra Height Frames

	Model #	Height	Width	Depth	Weight	Load Capacity	Maximum Power Requirement
Twin Column Table Top Models	**5564**	2,122 mm 83.5 in	909 mm 35.8 in	700 mm 27.5 in	151 kg 333 lb	2 kN 450 lbf	300 VA
	5565	2,122 mm 83.5 in	909 mm 35.8 in	700 mm 27.5 in	151 kg 333 lb	5kN 1,125 lbf	300 VA
	5566	2,122 mm 83.5 in	909 mm 35.8 in	700 mm 27.5 in	151 kg 333 lb	10 kN 2,250 lbf	300 VA
	5567	2,122 mm 83.5 in	909 mm 35.8 in	700 mm 27.5 in	200 kg 440 lb	30 kN 6,750 lbf	600 VA
	5569	2,122 mm 83.5 in	909 mm 35.8 in	700 mm 27.5 in	263 kg 580 lb	50 kN 11,240 lbf	700 VA

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Table 6-4. 5500 Series - Extra Height Frames (Continued)

	Model #	Height	Width	Depth	Weight	Load Capacity	Maximum Power Requirement
Floor Standing Models	5581	2,592 mm 102.0 in	1,307 mm 51.5 in	757 mm 29.8 in	930 kg 2,050 lb	50 kN 11,240 lbf	1,400 VA
	5582	2,592 mm 102.0 in	1,307 mm 51.5 in	757 mm 29.8 in	930 kg 2,050 lb	100 kN 22,500 lbf	1,400 VA
	5584	2,592 mm 102.0 in	1,307 mm 51.5 in	757 mm 29.8 in	1,025 kg 2,260 lb	150 kN 33,750 lbf	2,800 VA
	5585	2,592 mm 102.0 in	1,307 mm 51.5 in	757 mm 29.8 in	1,025 kg 2,260 lb	200 kN 45,000 lbf	2,800 VA
	5587	3,162 mm 124.5 in	1,617 mm 63.7 in	762 mm 30.0 in	2,449 kg 5,400 lb	300 kN 67,500 lbf	3,000 VA
	5589	3,582 mm 141.0 in	1,604 mm 63.2 in	762 mm 30.0 in	3,719 kg 8,200 lb	600 kN 135,000 lbf	5,000 VA

Table 6-5. 5500 Series - Extra Height Frames w/ 2nd Test Space

	Model #	Height	Width	Depth	Weight	Load Capacity	Maximum Power Requirement
Twin Column Table Top Models	5564 (1) (2)	2,161 mm 85.1 in	909 mm 35.8 in	700 mm 27.5 in	169 kg 373 lb	2 kN 450 lbf	300 VA
	5565 (1) (2)	2,161 mm 85.1 in	909 mm 35.8 in	700 mm 27.5 in	169 kg 373 lb	5kN 1,125 lbf	300 VA
	5566 (1) (2)	2,161 mm 85.1 in	909 mm 35.8 in	700 mm 27.5 in	169 kg 373 lb	10 kN 2,250 lbf	300 VA
	5567 (1) (2)	2,161 mm 85.1 in	909 mm 35.8 in	700 mm 27.5 in	266 kg 586 lb	30 kN 6,750 lbf	600 VA
Floor Standing Models	5581 (2)	2,673 mm 105.2 in	1,307 mm 51.5 in	757 mm 29.8 in	1,116 kg 2,460 lb	50 kN 11,240 lbf	1,400 VA
	5582 (2)	2,673 mm 105.2 in	1,307 mm 51.5 in	757 mm 29.8 in	1,116 kg 2,460 lb	100 kN 22,500 lbf	1,400 VA
	5584 (2)	2,723 mm 107.2 in	1,307 mm 51.5 in	757 mm 29.8 in	1,211 kg 2,670 lb	150 kN 33,750 lbf	2,800 VA
	5585 (2)	2,723 mm 107.2 in	1,307 mm 51.5 in	757 mm 29.8 in	1,211 kg 2,670 lb	200 kN 45,000 lbf	2,800 VA

(1) Add 30 mm (1.2 in) to the frame height with the load cell fitted.

(2) Allow an additional space of 200 mm (8.0 in) above the crosshead for loadcell installation and removal access.

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Table 6-6. 5500 Series - Extra Wide Frames

	Model #	Height	Width	Depth	Weight	Load Capacity	Maximum Power Requirement
Twin Column Table Top Models	5565	1,580 mm 62.2 in	1,427 mm 56.2 in	700 mm 27.5 in	330 kg 725 lb	5kN 1,125 lbf	300 VA
	5566	1,580 mm 62.2 in	1,427 mm 56.2 in	700 mm 27.5 in	330 kg 725 lb	10 kN 2,250 lbf	300 VA
	5567	1,580 mm 62.2 in	1,427 mm 56.2 in	700 mm 27.5 in	425 kg 935 lb	30 kN 6,750 lbf	600 VA
Floor Standing Models	5581	2,092 mm 82.4 in	1,666 mm 65.6 in	757 mm 29.8 in	1,090 kg 2,400 lb	50 kN 11,240 lbf	1,400 VA
	5582	2,092 mm 82.4 in	1,666 mm 65.6 in	757 mm 29.8 in	1,090 kg 2,400 lb	100 kN 22,500 lbf	1,400 VA
	5584	2,092 mm 82.4 in	1,666 mm 65.6 in	757 mm 29.8 in	1,180 kg 2,600 lb	150 kN 33,750 lbf	2,800 VA
	5585	2,092 mm 82.4 in	1,666 mm 65.6 in	757 mm 29.8 in	1,180 kg 2,600 lb	200 kN 45,000 lbf	2,800 VA

Table 6-7. 5500 Series - Extra Wide and Extra Height Frames

	Model #	Height	Width	Depth	Weight	Load Capacity	Maximum Power Requirement
Twin Column Table Top Models	5565	2,105 mm 82.9 in	1,427 mm 56.2 in	700 mm 27.5 in	347 kg 765 lb	5kN 1,125 lbf	300 VA
	5566	2,105 mm 82.9 in	1,427 mm 56.2 in	700 mm 27.5 in	347 kg 765 lb	10 kN 2,250 lbf	300 VA
	5567	2,105 mm 82.9 in	1,427 mm 56.2 in	700 mm 27.5 in	443 kg 975 lb	30 kN 6,750 lbf	600 VA
Floor Standing Models	5581	2,592 mm 102.0 in	1,666 mm 65.6 in	757 mm 29.8 in	1,158 kg 2,550 lb	50 kN 11,240 lbf	1,400 VA
	5582	2,592 mm 102.0 in	1,666 mm 65.6 in	757 mm 29.8 in	1,158 kg 2,550 lb	100 kN 22,500 lbf	1,400 VA
	5584	2,592 mm 102.0 in	1,666 mm 65.6 in	757 mm 29.8 in	1,253 kg 2,760 lb	150 kN 33,750 lbf	2,800 VA
	5585	2,592 mm 102.0 in	1,666 mm 65.6 in	757 mm 29.8 in	1,253 kg 2,760 lb	200 kN 45,000 lbf	2,800 VA

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Table 6-8. 5500 Series - Double Extra Height Frames

	Model #	Height	Width	Depth	Weight	Load Capacity	Maximum Power Requirement
Floor Standing Models	5581	3,181 mm 125.2 in	1,307 mm 51.5 in	976 mm 38.4 in	998 kg 2,200 lb	50 kN 11,240 lbf	1,400 VA
	5582	3,181 mm 125.2 in	1,307 mm 51.5 in	976 mm 38.4 in	998 kg 2,200 lb	100 kN 22,500 lbf	1,400 VA
	5584	3,181 mm 125.2 in	1,307 mm 51.5 in	976 mm 38.4 in	1,098 kg 2,420 lb	150 kN 33,750 lbf	2,800 VA
	5585	3,181 mm 125.2 in	1,307 mm 51.5 in	976 mm 38.4 in	1,098 kg 2,420 lb	200 kN 45,000 lbf	2,800 VA

Table 6-9. 5500 Series - Double Extra Height w/ 2nd Test Space

	Model #	Height	Width	Depth	Weight	Load Capacity	Maximum Power Requirement
Floor Standing Models	5581 (1)	3,258 mm 128.3 in	1,307 mm 51.5 in	976 mm 38.4 in	1,188 kg 2,620 lb	50 kN 11,240 lbf	1,400 VA
	5582 (1)	3,258 mm 128.3 in	1,307 mm 51.5 in	976 mm 38.4 in	1,188 kg 2,620 lb	100 kN 22,500 lbf	1,400 VA
	5584 (1)	3,310 mm 130.3 in	1,307 mm 51.5 in	976 mm 38.4 in	1,338 kg 2,950 lb	150 kN 33,750 lbf	2,800 VA
	5585 (1)	3,310 mm 130.3 in	1,307 mm 51.5 in	976 mm 38.4 in	1,338 kg 2,950 lb	200 kN 45,000 lbf	2,800 VA

(1) Allow an additional space of 200 mm (8.0 in) above the crosshead for loadcell installation and removal access.

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Table 6-10. 5500 Series - Double Extra Height and Extra Wide

	Model #	Height	Width	Depth	Weight	Load Capacity	Maximum Power Requirement
Floor Standing Models	5581	3,181 mm 125.2 in	1,666 mm 65.6 in	976 mm 38.4 in	1,230 kg 2,712 lb	50 kN 11,240 lbf	1,400 VA
	5582	3,181 mm 125.2 in	1,666 mm 65.6 in	976 mm 38.4 in	1,230 kg 2,712 lb	100 kN 22,500 lbf	1,400 VA
	5584	3,181 mm 125.2 in	1,666 mm 65.6 in	976 mm 38.4 in	1,330 kg 2,930 lb	150 kN 33,750 lbf	2,800 VA
	5585	3,181 mm 125.2 in	1,666 mm 65.6 in	976 mm 38.4 in	1,330 kg 2,930 lb	200 kN 45,000 lbf	2,800 VA

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Accessories

There are many accessories available with our 5500 series electromechanical frames. Some accessories may change the frame's dimensions and require more space than the measurements shown in this manual. Special electrical requirements may also be necessary. Some accessories may require additional services, such as pneumatic grips requiring an air supply with filtered air and an air regulator.

If you purchased accessories with your testing system, contact Instron's service department for additional information you may need to properly prepare your test site. Refer to "Product Support" on page 1-3 for Instron's contact information.

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Chapter 7
Series 5800 Frames

Outline

This chapter describes the site requirements for the Series 5800 load frames and provides the general specifications common to all the 5800 frames. It also provides basic frame specifications and dimensions, for all available frame options, that are required in order to adequately prepare the testing site for installation.

- Site Requirements 7-2
- Common Specifications 7-4
- Frame Specifications 7-6
- Accessories 7-12

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Site Requirements

Proper site preparation is imperative so that the testing system operates in accordance with its specifications and provides accurate test results.

Note: Models 5887 and 5889 require specialized site preparation that cannot be generalized for the purposes of this manual. Refer to the specific Installation manual for these models.

Floor Loading

The supporting floor must be checked for its weight loading and be able to support the weight of the load frame and any other accessory parts that may have been purchased. The floor must be free of vibrations from other activities taking place in or near the building.

For larger load frames, it is recommended that you consult your facility engineer, foundation specialist, or a civil engineer to ensure that the load capacity of the floor can support at least three times the weight of the load frame and its component parts. The higher load capacity is necessary because large dynamic loads may occur when a specimen breaks and this additional load may be absorbed into the floor.

Anti-vibration mountings are available as an option in order to reduce the transfer of these large dynamic loads into the supporting floor. Contact your local Instron sales representative to discuss your needs.

Table Loading

The supporting table must be checked for its weight loading and must be able to support the weight of the load frame with all its components and accessories, if the computer and accessories are placed on the same table. There must be a sufficient margin of safety in the table's weight loading to ensure the stability of the system.

The table must be free of vibrations from other activities taking place in or near the building. A table with leveling feet is recommended.

Power Supply

Ensure that the required power supply is available and complies with the requirements detailed under "Electrical Power Requirements" on page 7-4.

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Telephone and Network Access

Ensure that a telephone line is located within the general testing area. This enables the user to contact Instron's service department directly from the testing area so the user can perform the instructions provided and resolve the situation while on the telephone with the service representative. This facilitates resolving issues in a timely manner and reduces the number of repeated phone calls on the same problem.

It is also suggested that network drops, or digital phone lines, be within the general testing area. Instron's goal is to provide remote diagnostics in order to resolve system issues. Having a network drop or digital phone line available will enable an Instron service representative to dial into the testing system's computer to diagnose and resolve problems more efficiently. Including the network or digital lines in your initial site preparation will facilitate adding this function if it becomes necessary in the future.

Ceiling Clearance

Ensure that there is adequate ceiling clearance so that the load frame can be easily placed in its testing location. Take into consideration how you will be transporting the frame (by forklift or crane, for instance) and ensure that the ceiling height can accommodate your mode of transportation.

Environmental Conditions

Ensure that the testing site meets the standards described under "Environmental Conditions" on page 7-5.

Accessibility

The load frame must be accessible for routine maintenance. There should be approximately 915 mm (36 in) of space on all sides of the frame. This allows easy access to all components of the testing system without having to move the load frame. If the frame is moved, it may need to be re-verified.

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Common Specifications

The following information is common to all 5800 testing systems:

Electrical Power Requirements

Table 7-1. 5800 Series - Electrical Power Requirements

Model #	Voltage *	Frequency	Maximum Distance from Power Source
5842, 5843, 5844, 5848, 5865, 5866, 5867, 5869	Single Phase Voltage 100/ 120/ 220/ 240 VAC ±10% Power cords are available for the various international standards	47 to 63 Hz	2.44 m 8 ft Measured from the right side of the load frame (1)
5864	Single Phase Voltage 100/ 120/ 220/ 240 VAC +10/-5% Power cords are available for the various international standards	47 to 63 Hz	2.44 m 8 ft Measured from the right side of the load frame (1)
5881, 5882, 5884, 5885	Single Phase Voltage 100/ 120/ 220/ 240 VAC ±10% The voltage setting for the frame determines the type of plug you receive: 100 and 120 V includes NEMA L5-30P 30A plug 220 and 240 V includes IEC309 16A plug	47 to 63 Hz	2.44 m 8 ft Measured from the right side of the load frame (1)
5887, 5889	Three Phase Voltage 200-240, 360-440, or 440-480 VAC ±10%	50 to 60 Hz	Refer to the Installation manual for these frames

* Refer to the "Frame Specifications" for details regarding the maximum power requirements for your specific testing system model.

(1)If the power source is located to the left of the load frame, then the distance must also include the width of the load frame.

For model #5864, the power supply must not be greater than 10% nor less than 5% of the specified voltage.

For models #5881, 5882, 5884, 5885: Although these frames operate at the indicated voltages, high speed turn-around times will be affected if voltage is near the extreme of tolerance. For 230 V operation, the frame is normally set to 220 V.

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Environmental Conditions

Operating Temperature:	+10° to +38° C (+50° to +100° F)
Storage Temperature:	-40° to +66° C (-40° to +150° F)
Humidity:	10% to 90% (non-condensing)
Atmosphere:	Designed for use under normal laboratory conditions. Protective measures may be required if excessive dust, corrosive fumes, electromagnetic fields, or hazardous conditions are encountered.

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Frame Specifications

Table 7-2. 5800 Series - Standard Frame Specifications

	Model #	Height	Width	Depth	Weight	Load Capacity	Maximum Power Requirement
Single Column Table Top Models	**5842**	875 mm 34.4 in	375 mm 14.75 in	500 mm 19.7 in	36 kg 79 lb (1)	500 N 112 lbf	225 VA
	5843	1,275 mm 50.2 in	375 mm 14.75 in	500 mm 19.7 in	41 kg 90 lb (1)	1 kN 225 lbf	225 VA
	5844	1,275 mm 50.2 in	375 mm 14.75 in	500 mm 19.7 in	42 kg 92 lb (1)	2 kN 450 lbf	360 VA
Micro-Tester	**5848**	1500 mm 59.05 in (Maximum)	452.2 mm 17.80 in	440 mm 17.32 in	89 kg 194 lb (2)	2 kN 450 lbf	435 VA
Twin Columns Table Top Models	**5864**	1,597 mm 62.9 in	909 mm 35.8 in	700 mm 27.5 in	136 kg 300 lb	2 kN 450 lbf	300 VA
	5865	1,597 mm 62.9 in	909 mm 35.8 in	700 mm 27.5 in	136 kg 300 lb	5 kN 1,125 lbf	300 VA
	5866	1,597 mm 62.9 in	909 mm 35.8 in	700 mm 27.5 in	136 kg 300 lb	10 kN 2,250 lbf	300 VA
	5867	1,597 mm 62.9 in	909 mm 35.8 in	700 mm 27.5 in	182 kg 400 lb	30 kN 6,750 lbf	600 VA
	5869	1,597 mm 62.9 in	909 mm 35.8 in	700 mm 27.5 in	240 kg 530 lb	50 kN 11,240 lbf	700 VA
Floor Standing Models	**5881** (3)	2,092 mm 82.4 in	1,124 mm 44.3 in	757 mm 29.8 in	862 kg 1,900 lb	50 kN 11,240 lbf	1,400 VA
	5882 (3)	2,092 mm 82.4 in	1,124 mm 44.3 in	757 mm 29.8 in	862 kg 1,900 lb	100 kN 22,500 lbf	1,400 VA
	5884 (3)	2,092 mm 82.4 in	1,124 mm 44.3 in	757 mm 29.8 in	952 kg 2,100 lb	150 kN 33,750 lbf	2,800 VA
	5885 (3)	2,092 mm 82.4 in	1,124 mm 44.3 in	757 mm 29.8 in	952 kg 2,100 lb	200 kN 45,000 lbf	2,800 VA
	5887	2,553 mm 100.5 in (4)	1,617 mm 63.7 in	762 mm 30.0 in (5)	2,214 kg 4,880 lb	300 kN 67,500 lbf	3,000 VA
	5889	2,972 mm 117.0 in (4)	1,604 mm 63.2 in	762 mm 30.0 in (5)	3,629 kg 8,000 lb	600 kN 135,000 lbf	5,000 VA

(1) Weight includes the load frame and control panel only. To include the 5800 electronics console or computer, add 13.5 kg (30 lb) to the weight shown above.

(2) Weight includes the load frame, control panel, base tray and Heidenhain interpolator box. Does not include the 5800 Electronics console (tower) or computer. To include the 5800 Electronics console, add 13.5 kg (30 lb) to the weight shown above.

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(3) The optional Support Base/Extension #2910-061 adds the following dimensions to the standard frame when fitted: Height 300 mm (11.8 in)
Weight91 kg (200 lb)

(4) Includes leveling feet. Height is decreased by 40 mm (1.625 in) if leveling feet are not used.

(5) Depth measurement does not include controller.

Table 7-3. 5800 Series - Standard Frame w/ 2nd Test Space

	Model #	Height	Width	Depth	Weight	Load Capacity	Maximum Power Requirement
Twin Column Table Top Models	**5864** (1) (2)	1,636 mm 64.4 in	909 mm 35.8 in	700 mm 27.5 in	154 kg 340 lb	2 kN 450 lbf	300 VA
	5865 (1) (2)	1,636 mm 64.4 in	909 mm 35.8 in	700 mm 27.5 in	154 kg 340 lb	5 kN 1,125 lbf	300 VA
	5866 (1) (2)	1,636 mm 64.4 in	909 mm 35.8 in	700 mm 27.5 in	154 kg 340 lb	10 kN 2,250 lbf	300 VA
	5867 (1) (2)	1,636 mm 64.4 in	909 mm 35.8 in	700 mm 27.5 in	248 kg 547 lb	30 kN 6,750 lbf	600 VA
	5869 (1) (2)	1,636 mm 64.4 in	909 mm 35.8 in	700 mm 27.5 in	306 kg 674 lb	50 kN 11,240 lbf	700 VA
Floor Standing Models	**5881** (2)	2,173 mm 85.6 in	1,124 mm 44.3 in	757 mm 29.8 in	1,047 kg 2,310 lb	50 kN 11,240 lbf	1,400 VA
	5882 (2)	2,173 mm 85.6 in	1,124 mm 44.3 in	757 mm 29.8 in	1,047 kg 2,310 lb	100 kN 22,500 lbf	1,400 VA
	5884 (2)	2,223 mm 87.5 in	1,124 mm 44.3 in	757 mm 29.8 in	1,192 kg 2,630 lb	150 kN 33,750 lbf	2,800 VA
	5885 (2)	2,223 mm 87.5 in	1,124 mm 44.3 in	757 mm 29.8 in	1,192 kg 2,630 lb	200 kN 45,000 lbf	2,800 VA

(1) Add 30 mm (1.2 in) to the frame height with the load cell fitted.

(2) Allow an additional space of 200 mm (8.0 in) above the crosshead for loadcell installation and removal access.

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Table 7-4. 5800 Series - Extra Height Frames

	Model #	Height	Width	Depth	Weight	Load Capacity	Maximum Power Requirement
Twin Column Table Top Models	5864	2,122 mm 83.5 in	909 mm 35.8 in	700 mm 27.5 in	151 kg 333 lb	2 kN 450 lbf	300 VA
	5865	2,122 mm 83.5 in	909 mm 35.8 in	700 mm 27.5 in	151 kg 333 lb	5 kN 1,125 lbf	300 VA
	5866	2,122 mm 83.5 in	909 mm 35.8 in	700 mm 27.5 in	151 kg 333 lb	10 kN 2,250 lbf	300 VA
	5867	2,122 mm 83.5 in	909 mm 35.8 in	700 mm 27.5 in	200 kg 440 lb	30 kN 6,750 lbf	600 VA
	5869	2,122 mm 83.5 in	909 mm 35.8 in	700 mm 27.5 in	263 kg 580 lb	50 kN 11,240 lbf	700 VA
Floor Standing Models	5881	2,592 mm 102.0 in	1,124 mm 44.3 in	757 mm 29.8 in	930 kg 2,050 lb	50 kN 11,240 lbf	1,400 VA
	5882	2,592 mm 102.0 in	1,124 mm 44.3 in	757 mm 29.8 in	930 kg 2,050 lb	100 kN 22,500 lbf	1,400 VA
	5884	2,592 mm 102.0 in	1,124 mm 44.3 in	757 mm 29.8 in	1,025 kg 2,260 lb	150 kN 33,750 lbf	2,800 VA
	5885	2,592 mm 102.0 in	1,124 mm 44.3 in	757 mm 29.8 in	1,025 kg 2,260 lb	200 kN 45,000 lbf	2,800 VA
	5887	3,162 mm 124.5 in	1,617 mm 63.7 in	762 mm 30.0 in	2,449 kg 5,400 lb	300 kN 67,500 lbf	3,000 VA
	5889	3,582 mm 141.0 in	1,604 mm 63.2 in	762 mm 30.0 in	3,719 kg 8,200 lb	600 kN 135,000 lbf	5,000 VA

Table 7-5. 5800 Series - Extra Height Frames w/ 2nd Test Space

	Model #	Height	Width	Depth	Weight	Load Capacity	Maximum Power Requirement
Twin Column Table Top Models	5864 (1) (2)	2,161 mm 85.1 in	909 mm 35.8 in	700 mm 27.5 in	169 kg 373 lb	2 kN 450 lbf	300 VA
	5865 (1) (2)	2,161 mm 85.1 in	909 mm 35.8 in	700 mm 27.5 in	169 kg 373 lb	5 kN 1,125 lbf	300 VA
	5866 (1) (2)	2,161 mm 85.1 in	909 mm 35.8 in	700 mm 27.5 in	169 kg 373 lb	10 kN 2,250 lbf	300 VA
	5867 (1) (2)	2,161 mm 85.1 in	909 mm 35.8 in	700 mm 27.5 in	266 kg 586 lb	30 kN 6,750 lbf	600 VA
	5869 (1) (2)	2,161 mm 85.1 in	909 mm 35.8 in	700 mm 27.5 in	329 kg 725 lb	50 kN 11,240 lbf	700 VA

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Table 7-5. 5800 Series - Extra Height Frames w/ 2nd Test Space (Continued)

	Model #	Height	Width	Depth	Weight	Load Capacity	Maximum Power Requirement
Floor Standing Models	**5881** (2)	2,673 mm 105.2 in	1,124 mm 44.3 in	757 mm 29.8 in	1,116 kg 2,460 lb	50 kN 11,240 lbf	1,400 VA
	5882 (2)	2,673 mm 105.2 in	1,124 mm 44.3 in	757 mm 29.8 in	1,116 kg 2,460 lb	100 kN 22,500 lbf	1,400 VA
	5884 (2)	2,723 mm 107.2 in	1,124 mm 44.3 in	757 mm 29.8 in	1,265 kg 2,790 lb	150 kN 33,750 lbf	2,800 VA
	5885 (2)	2,723 mm 107.2 in	1,124 mm 44.3 in	757 mm 29.8 in	1,265 kg 2,790 lb	200 kN 45,000 lbf	2,800 VA

(1) Add 30 mm (1.2 in) to the frame height with the load cell fitted.

(2) Allow an additional space of 200 mm (8.0 in) above the crosshead for loadcell installation and removal access.

Table 7-6. 5800 Series - Extra Wide Frames

	Model #	Height	Width	Depth	Weight	Load Capacity	Maximum Power Requirement
Twin Column Table Top Models	**5865**	1,580 mm 62.2 in	1,427 mm 56.2 in	700 mm 27.5 in	330 kg 725 lb	5 kN 1,125 lbf	300 VA
	5866	1,580 mm 62.2 in	1,427 mm 56.2 in	700 mm 27.5 in	330 kg 725 lb	10 kN 2,250 lbf	300 VA
	5867	1,580 mm 62.2 in	1,427 mm 56.2 in	700 mm 27.5 in	425 kg 935 lb	30 kN 6,750 lbf	600 VA
Floor Standing Models	**5881**	2,092 mm 82.4 in	1,483 mm 58.4 in	757 mm 29.8 in	1,090 kg 2,400 lb	50 kN 11,240 lbf	1,400 VA
	5882	2,092 mm 82.4 in	1,483 mm 58.4 in	757 mm 29.8 in	1,090 kg 2,400 lb	100 kN 22,500 lbf	1,400 VA
	5884	2,092 mm 82.4 in	1,483 mm 58.4 in	757 mm 29.8 in	1,180 kg 2,600 lb	150 kN 33,750 lbf	2,800 VA
	5885	2,092 mm 82.4 in	1,483 mm 58.4 in	757 mm 29.8 in	1,180 kg 2,600 lb	200 kN 45,000 lbf	2,800 VA

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Table 7-7. 5800 Series - Extra Wide and Extra Height Frames

	Model #	Height	Width	Depth	Weight	Load Capacity	Maximum Power Requirement
Twin Column Table Top Models	5865	2,105 mm 82.9 in	1,427 mm 56.2 in	700 mm 27.5 in	347 kg 765 lb	5 kN 1,125 lbf	300 VA
	5866	2,105 mm 82.9 in	1,427 mm 56.2 in	700 mm 27.5 in	347 kg 765 lb	10 kN 2,250 lbf	300 VA
	5867	2,105 mm 82.9 in	1,427 mm 56.2 in	700 mm 27.5 in	443 kg 975 lb	30 kN 6,750 lbf	600 VA
Floor Standing Models	5881	2,592 mm 102.0 in	1,483 mm 58.4 in	757 mm 29.8 in	1,158 kg 2,550 lb	50 kN 11,240 lbf	1,400 VA
	5882	2,592 mm 102.0 in	1,483 mm 58.4 in	757 mm 29.8 in	1,158 kg 2,550 lb	100 kN 22,500 lbf	1,400 VA
	5884	2,592 mm 102.0 in	1,483 mm 58.4 in	757 mm 29.8 in	1,253 kg 2,760 lb	150 kN 33,750 lbf	2,800 VA
	5885	2,592 mm 102.0 in	1,483 mm 58.4 in	757 mm 29.8 in	1,253 kg 2,760 lb	200 kN 45,000 lbf	2,800 VA

Table 7-8. 5800 Series - Double Extra Height Frames

	Model #	Height	Width	Depth	Weight	Load Capacity	Maximum Power Requirement
Floor Standing Models	5881	3,181 mm 125.2 in	1,124 mm 44.3 in	976 mm 38.4 in	998 kg 2,200 lb	50 kN 11,240 lbf	1,400 VA
	5882	3,181 mm 125.2 in	1,124 mm 44.3 in	976 mm 38.4 in	998 kg 2,200 lb	100 kN 22,500 lbf	1,400 VA
	5884	3,181 mm 125.2 in	1,124 mm 44.3 in	976 mm 38.4 in	1,098 kg 2,420 lb	150 kN 33,750 lbf	2,800 VA
	5885	3,181 mm 125.2 in	1,124 mm 44.3 in	976 mm 38.4 in	1,098 kg 2,420 lb	200 kN 45,000 lbf	2,800 VA

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Table 7-9. 5800 Series - Double Extra Height w/ 2nd Test Space

	Model #	Height	Width	Depth	Weight	Load Capacity	Maximum Power Requirement
Floor Standing Models	**5881** (1)	3,258 mm 128.3 in	1,124 mm 44.3 in	976 mm 38.4 in	1,188 kg 2,620 lb	50 kN 11,240 lbf	1,400 VA
	5882 (1)	3,258 mm 128.3 in	1,124 mm 44.3 in	976 mm 38.4 in	1,188 kg 2,620 lb	100 kN 22,500 lbf	1,400 VA
	5884 (1)	3,310 mm 130.3 in	1,124 mm 44.3 in	976 mm 38.4 in	1,338 kg 2,950 lb	150 kN 33,750 lbf	2,800 VA
	5885 (1)	3,310 mm 130.3 in	1,124 mm 44.3 in	976 mm 38.4 in	1,338 kg 2,950 lb	200 kN 45,000 lbf	2,800 VA

(1) Allow an additional space of 200 mm (8.0 in) above the crosshead for loadcell installation and removal access.

Table 7-10. 5800 Series - Double Extra Height and Extra Wide Frames

	Model #	Height	Width	Depth	Weight	Load Capacity	Maximum Power Requirement
Floor Standing Models	**5881**	3,181 mm 125.2 in	1,483 mm 58.4 in	976 mm 38.4 in	1,230 kg 2,710 lb	50 kN 11,240 lbf	1,400 VA
	5882	3,181 mm 125.2 in	1,483 mm 58.4 in	976 mm 38.4 in	1,230 kg 2,710 lb	100 kN 22,500 lbf	1,400 VA
	5884	3,181 mm 125.2 in	1,483 mm 58.4 in	976 mm 38.4 in	1,330 kg 2,930 lb	150 kN 33,750 lbf	2,800 VA
	5885	3,181 mm 125.2 in	1,483 mm 58.4 in	976 mm 38.4 in	1,330 kg 2,930 lb	200 kN 45,000 lbf	2,800 VA

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Accessories

There are many accessories available with our 5800 series electromechanical frames. Some accessories may change the frame's dimensions and require more space than the measurements shown in this manual. Special electrical requirements may also be necessary. Some accessories may require additional services, such as pneumatic grips requiring an air supply with filtered air and an air regulator.

If you purchased accessories with your testing system, contact Instron's service department for additional information you may need to properly prepare your test site. Refer to “Product Support” on page 1-3 for Instron’s contact information.

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Chapter 8
Site Preparation Checklist

The following checklist provides a quick summary of items that should be considered when planning and preparing the site location of your testing system. Additional information regarding each item below is provided within this manual. If you need more specific information, contact Instron's Professional Services department or your local Instron office for assistance. Refer to "Product Support" on page 1-3 for Instron's contact information.

Note: *This manual provides general guidelines for all electromechanical testing systems. Therefore, some of the items listed below may not pertain to your specific system (i.e. smaller systems in which size and weight are not an issue).*

Models 4487,4489, 5587, 5589, 5887 and 5889 require specialized site preparation that cannot be generalized for the purposes of this manual. Refer to the specific Installation manual for these models.

Site Location

- ❑ Floor and table is able to support the weight of the frame, and its computer components. For floor frames, refer to the site requirements for additional weight requirements.
- ❑ Environment complies with the specifications for your specific model:
  - Operating temperature
  - Storage temperature
  - Humidity
  - Atmosphere
- ❑ The required power supply is available and is compatible with the electrical requirements for your specific model.
- ❑ Electrical outlets are within the minimum distance requirement to the load frame's location.
- ❑ Phone lines are located within the general testing area so that users can call Instron's service department directly from the testing area. It is also suggested that network drops, or digital phone lines, be within the general testing area.

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- ❑ Ceiling clearance is adequate for the load frame, including the additional space necessary to lift and move the frame by either a forklift or crane.
- ❑ Location provides sufficient accessibility for routine maintenance (915 mm or 36 in).
- ❑ Employees are adequately trained to operate the load frame and its computer system.

Transporting

- ❑ You have the correct number of packing boxes as stated on the packing list.
- ❑ Insurance coverage is secured or verified.
- ❑ You have the required equipment for the chosen transporting method.
- ❑ You have the appropriate packaging to protect the load frame when moving or relocating it.
- ❑ Pathway from the loading dock to the final site location has sufficient width and height to fit the frame and forklift (or crane). Measure all doors and hallways. Refer to either the frame dimensions for your specific load frame or to Table 3-1 on page 3-8 for the packaging dimensions of your model type.
- ❑ Floor area along the pathway to the final site location is able to support the weight of the frame and forklift (or crane).
- ❑ There are no loose accessories on the shipping skid or frame.
- ❑ Your equipment operators have the appropriate licenses and have complied with your local safety standards (i.e. the appropriate training required by OSHA in the U.S.).

Scheduling Installation

- ❑ When the testing site is ready, contact Instron Professional Services to schedule an installation appointment:

In U.S. & Canada: **1-800-473-7838**

Outside U.S. & Canada: **Contact your nearest Instron office.**

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