HEXAGON
MANUFACTURING INTELLIGENCE

TubeShaper

Readme

TubeShaper 2.0
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Table of Contents

Recommended System Requirements

Operating System

TubeShaper v2.0 operates under the following:

- 64-bit Windows 7 SP1
- Windows 8.1 Pro
- Windows 10

No other operating systems are supported.

> 👁 When using third-party drivers, you should contact your local Hexagon Manufacturing Intelligence representative to ensure operating system compatibility.

> 👁 Running TubeShaper inside a Virtual Machine (VM) is not supported.

Advantages of 64-bit:

The 64-bit version of TubeShaper can use all of the physical memory that is available on the computer.

Microsoft .NET Framework

- Microsoft .NET 4.6.2 for Windows 7 SP1
- Microsoft .NET 4.5 for Windows 8

RAM

- 4 GB of RAM or higher

- 1 GB of video RAM

CPU

- For Windows 7 laptops: 2.5 GHz or higher Duo-Core processor. Intel Core i7 is recommended.
- For Windows 8 tablet computers: 1.6 GHz or higher. Intel Core i5 is recommended

Graphics

- For Windows 7 laptops: Nvidia Quadro 2000M graphics card or better.
- For tablet computers: Intel HD Graphics 3000.
- The graphics driver must support OpenGL 3.0 or higher. A warning message appears on TubeShaper startup if the driver does not support OpenGL 3.0 or if your graphics driver is more than a year old.

Hard Drive

- 2 GB of free hard drive space plus allocated virtual memory of 8 times the largest CAD file used
- SSD drive, HDD 10K, or two disks in RAID 0 mode (high-performance hard disk drive)

Display

- Screen resolution of 1280 x 1024 or higher

Connectivity

- One Ethernet port (for CNC tube bender connections, or connections to company networks. The ROMER Absolute Arm only requires one USB port to function with TubeShaper.)
- Two USB ports (a three button mouse is highly recommended)

Anti-Virus Software

The Sophos anti-virus tool was used by Hexagon Manufacturing Intelligence while testing TubeShaper. The performance of any other anti-virus tool will need to be confirmed by the user.

http://sophos.com/products/enterprise/endpoint/security-and-control/

ROMER Absolute Arm

TubeShaper is designed to work with all ROMER arms that use RDS software.

- ROMER Absolute Arm
- ROMER Infinite 1.0
- ROMER Infinite 2.0
- ROMER Stinger Iii

 Before installing TubeShaper, the RDS software version 4.0 or later must be installed.

Known and Tested Computer Configurations

The following computers have all been rigorously tested with TubeShaper and the ROMER Absolute Arm:

Lenovo W520

Windows 7 Enterprise 64bit

NVIDIA Quadro 2000M graphics card

Intel Core i7 processor @2.5GHz

8Gb RAM

Dell Precision T3610

Windows 7 Ultimate 64bit

NVIDIA Quadro K2000 graphics card

Intel Xeon processor @3.7GHz

32Gb RAM

Dell Precision M6600

Windows 7 Ultimate 64bit

NVIDIA Quadro 3000M graphics card

Intel Core i7 processor @2.5GHz

8Gb RAM

Dell Precision M6800

Windows 7 Ultimate 64bit

NVIDIA Quadro K3100M graphics card

Intel Core i7 processor @2.8GHz

32Gb RAM

Samsung Slate

Windows 8.1 Pro

Intel HD Graphics 3000 graphics card

Intel Core i5 processor @2.8GHz

4Gb RAM

New Product Information

TubeShaper v2.0 Release

TubeShaper v2.0 is only supported on these versions of the Windows operating system:

- Windows 7 SP1
- Windows 8.1 Pro
- Windows 10

TubeShaper is not supported on Windows XP.

Release Notes

Version v2.0 is the latest release of the TubeShaper software.

For a list of enhancements and bug fixes from the previous version of TubeShaper, please see the "ReleaseNotes.txt" file. It can be found in the root of the installation folder. The default location of the installation folder is:

"C:\Program Files\Hexagon\TubeShaper <version> 64-bit" for 64-bit installs

* Replace <version> with the installed version of TubeShaper.

Installing TubeShaper

To install TubeShaper, follow these steps:

Step 1: Log on as an Administrator

You must be logged on as a user with administrator privileges in order to install and run TubeShaper for the first time.

Step 2: Check System and Hardware Requirements

Before you attempt to install a new TubeShaper version, ensure that you meet the system and hardware requirements. For details, see the topic "TubeShaper Recommended System Requirements". You must also have a valid software license for the installation to work. Please contact your Hexagon Manufacturing Intelligence representative for information.

To view your system properties:

Windows 7 systems

1. From the **Start** menu, click **All Programs**
2. Click **Accessories**
3. Click **System Tools**
4. Click **System Information**

Windows 8.1 systems

1. Open Control Panel
2. Click or tap **System and Security**
3. Click or tap **Administrative Tools**
4. Use the vertical scroll bar or swipe down the list until you find **System Information**
5. Click or tap **System Information**

Windows 10 systems

1. From the taskbar, type "system information" in Cortana's **Search** box
2. Click or tap the **System Information** option in the **Best Match** list

Step 3: Install RDS v4.0 (or later) and Back Up User Files

TubeShaper is compatible with RDS v4.0 (or later versions) only. Earlier versions are not compatible with TubeShaper because of changes to the configuration of the ROMER arm buttons.

RDS v4.0 (or a later version) must be installed before installing TubeShaper. To install it, simply launch the "*RDS Installer v4.0.0.EXE*" installer found on your TubeShaper media and follow the instructions.

By default, TubeShaper attempts to migrate existing user files from previous installs on the same computer. It may be necessary to do a clean install on a new computer or you may want to do a back up of the existing user files for security.

> Changes made to the default TubeShaper settings are migrated over to the new version automatically.

User files include your Projects, CAD, Report and Bender files.
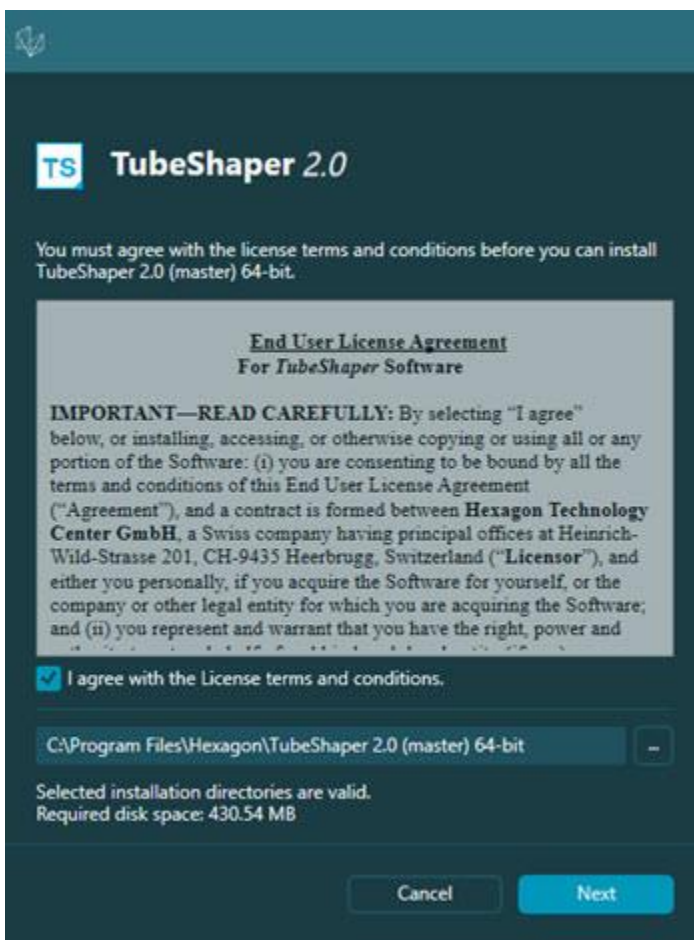
To backup your user files:

1. Start up your current version of TubeShaper and click the **Application Settings** button from the main menu.
2. Click the **Paths** tab and note the paths for the projects, benders and reports. By default, CAD files are found in the "C:\Users\Public\Documents\Hexagon\TubeShaper\" folder.
3. Manually copy the files or folders from these locations to a secure location.
4. Close TubeShaper and install the new version.
5. Once the new version has been installed, you can copy the files or folders back into the original folders if necessary.

Step 4: Install TubeShaper

To install TubeShaper:

1. Ensure your licensing for TubeShaper is completed and, if a portlock is required, it is connected.
2. Locate the TubeShaper v2.0 install file on your installation media; or if you downloaded it, open the directory containing the downloaded file.
3. Double-click the install file to begin the installation process. The **License Agreement** dialog box is displayed.
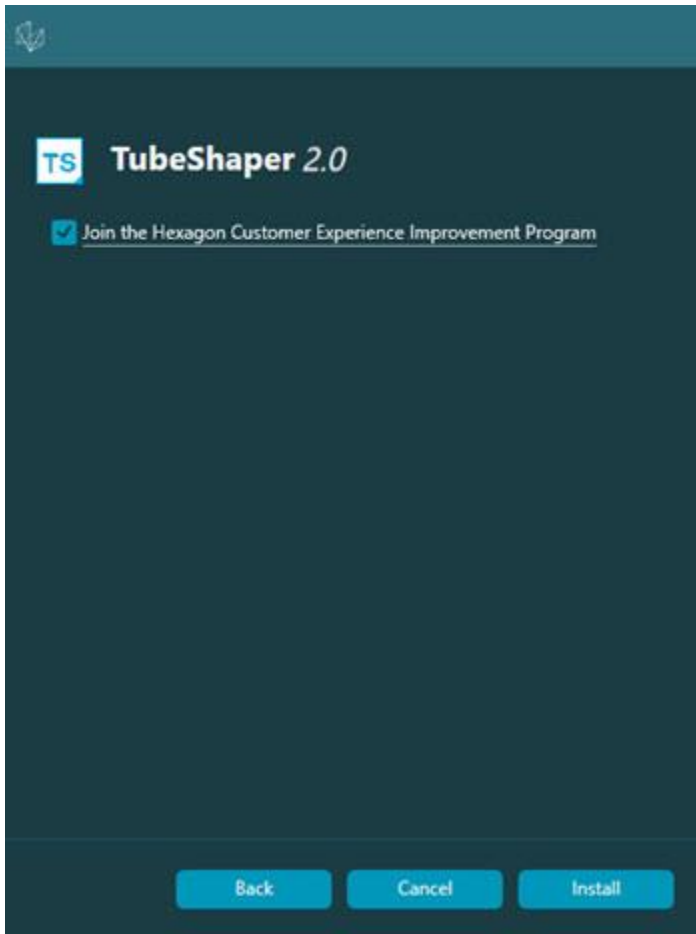

You must read the license agreement and mark the **I agree with the License terms and conditions** check box in order to proceed with the installation.

To change the location of the installation:

a. Click the **Browse** button ▬.

     b. Select the folder from the **Browse For Folder** dialog box that appears.

     c. Click **OK**.

4. Click **Next** and the **Product Options** dialog box appears. Mark the check boxes for the options to include in the installation.

The Hexagon Customer Experience Improvement Program is a completely voluntary program designed to help Hexagon improve its software applications over time. Without any interruption, this program collects information about your computer hardware and how you use our products. The collected information helps us identify which products and features to improve.
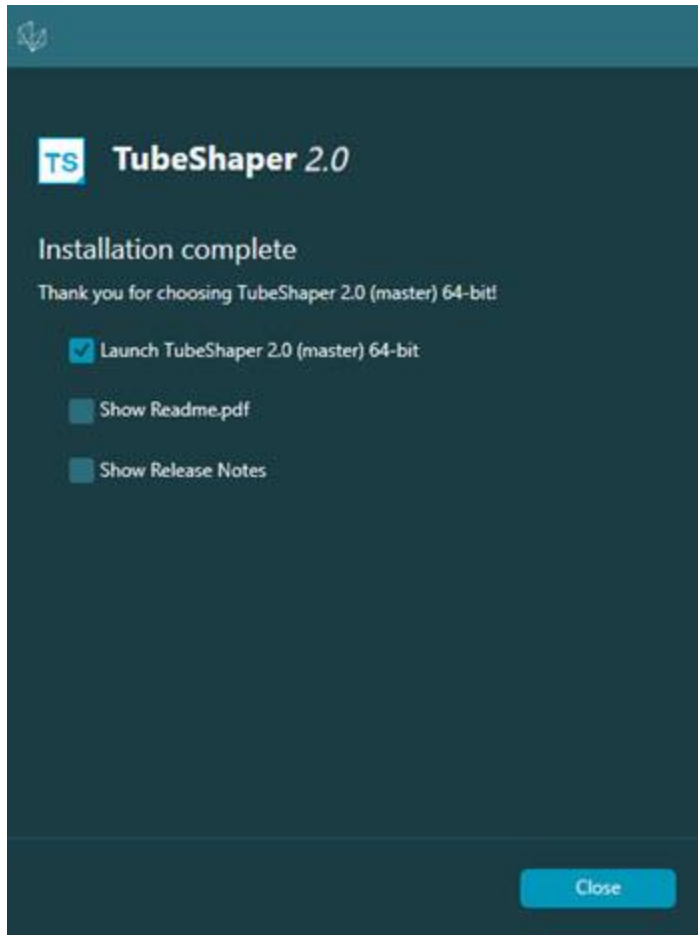
For more information on the Hexagon Customer Experience Improvement Program please go to:

http://hexagonmi.com/about-us/hexagon-customer-experience-improvement-program

5. When ready, click **Install** to proceed with the main installation.

6. Once installation finishes, the **Installation Complete** screen is displayed. Select the appropriate option from the dialog box.

The options available are:

- **Launch TubeShaper** - Mark this check box to launch TubeShaper after you click **Close**. You must have a TubeShaper license installed and activated before you can run the software.
- **Display Release Notes** - Mark this check box to view the Release Notes for TubeShaper v2.0 after you click **Finish**.

7. Click **Close** to close the installation program. TubeShaper v2.0 is now installed.

Installing the TubeShaper License

A license is required in order to run TubeShaper.

TubeShaper Licensing Requirements

- You must be connected to the Internet.
- You must have an Entitlement ID. If you do not, contact a Hexagon Manufacturing Intelligence representative. For details, see the topic "Contact Hexagon Manufacturing Intelligence".
- You must have RDS v4.0 (or later versions) installed prior to installing TubeShaper. For details, see the "Step 3: Install RDS v4.0 (or later) and Back Up User Files" topic.
- Once RDS v4.0 (or later) is installed, you must have TubeShaper installed.

Once the TubeShaper licensing requirements are met:

1. Double-click the TubeShaper desktop icon. The **Online License Activation** dialog box appears.
2. Copy and paste your Entitlement ID into the **Entitlement ID** box.
3. Click **Activate** to activate the license.

   You can now run TubeShaper. The computer no longer needs to be connected to the Internet once the license is activated.

Updating TubeShaper

The Hexagon Universal Updater application automatically checks for software updates if your computer is connected to the Internet. This application is installed with TubeShaper. If the updater detects that an update is available, the updater uses the Windows notification area to the right of your clock on your taskbar to inform you of the update. You can then click on a notification to open the updater to download and install that update.

If the updater is running, a small icon for the updater appears in your taskbar's Notifications area (). You can click this icon to open the updater.

If the updater is not running, you can manually run the updater to check for updates. You can also use the updater to launch software or install new software applications. To run the updater, from the **Start** menu, type **Universal Updater**, and select the shortcut for the updater.

If you need additional help with the updater, you can access the help content available from within the updater itself.
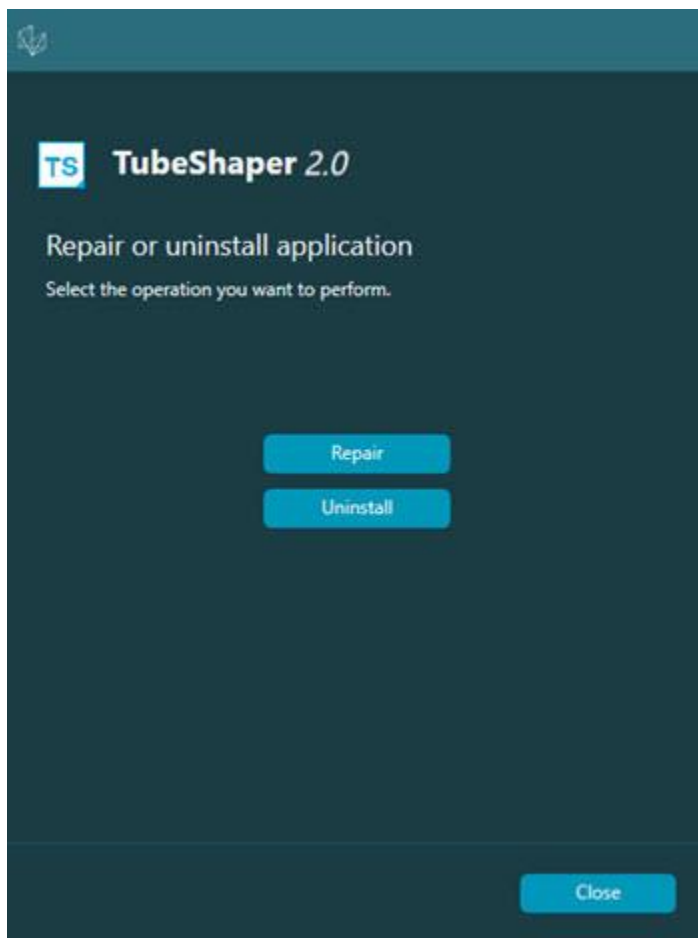
>   During the download and installation processes, your firewall must allow the http://www.wilcoxassoc.com/WebUpdater Internet address. In addition, you must have Administrator privileges to install the software update.

For information on the installation process, follow the installation steps in "Installing TubeShaper". Once the installation process finishes, you can use the latest version.

Repair or Uninstall TubeShaper

To modify or repair an installation:

1. Double-click the **TubeShaper** installation file. The **Repair or uninstall application** dialog box appears with these options:

2. Select the option you want to perform and follow the instructions on the dialog box.

   The options are:

- **Repair** - Reinstalls all of the product files as they were originally installed. This option may help resolve issues where an installation didn't properly install all of the files or a corrupted install file.
- **Uninstall** - Removes the application from your computer. You can also uninstall the application from the **Programs and Features** option of the Control Panel.

Running TubeShaper in Another Language

TubeShaper can be automatically run in any of these languages:

- Chinese Simplified
- Dutch
- English
- French
- German
- Italian
- Japanese
- Korean
- Polish
- Portuguese
- Russian
- Spanish
- Turkish

For details on changing the language, see the "Application Settings" section in the "Introduction to TubeShaper" chapter of the TubeShaper help.

Troubleshooting

This topic provides information for you to troubleshoot installation, startup, and software update problems.

Contact Hexagon Manufacturing Intelligence

If you would like further information on TubeShaper or technical support, please contact hexagonmi.com/contact-us or visit hexagonmi.com/products/software. You can also reach Hexagon Technical Support by calling 1-800-343-7933.