

Software Installations

This document explains how to install Bellows design software from J Tolonen Services (JTS). Instruction is valid for Programs released based on EJMA 10 and later. Where instructions are required for the older versions contact the developers.

There are several programs from JTS, which are used for the design of bellows/compensators/expansion joints. To save in installation file sizes and also to reduce the risk of overwriting valuable information specific installations do not contain all the information required to run the programs. The common set of data files is one of these. These are not included with most of the installation files. Files are included with Bellows Master II, Bellows Master II EN, Bellows Master II Toroidal, RecBel, ThickBel and sometimes with MatTool II. Therefore for you to be able to use other programs one of the programs with the material file have to be installed first. Note that Bellows Master II doesn't need to be registered if other programs are used.

BellowsMaster II EN has a separate material database to any other programs. Europeans use different system to American ASME method of giving allowable stress. User must not mix up the two different types of material databases. Programs try to verify that the user is using the correct database but this may not be 100% accurate checking.

When you buy Bellows Master II, Bellows Master II EN, , Bellows Master II Toroida, HeatTool, ThickBel or RecBel you get a licence per computer. Other programs are sold with site licences. This means that you may have single license programs like BM II only on one computer per license but other programs on several computers within one company. To be able to use all the programs the installation system as described below is recommended where no network is used. In case of a network installation e.g. common data files please ask developers for further information.

General

All main programs have standard Windows installation, which you have to run. Generally selecting default installation is the best/easiest. Some smaller programs may require only copying the EXE file into a suitable place and making standard short cut.

You most probably downloaded the installation files. Files are standard EXE files and require

only executing them.

All of the programs are “low volume” and this is causing problems with some virus protection programs. Developers are signing the installations using agreed system by the virus protection program developers. Not all of the developers use the system and even those who work with the system have false reporting from time to time. Unfortunately even this system has been discontinued. There has never been any report or detection that bellows design software has virus or other unwanted code. Developers have similar problems with many “low volume” software. Sometimes programs have been in use over 20 years without any issues and suddenly they are removed as “dangerous”. The best solution is to ask your virus protection supplier to double check. They will add the software to accepted and safe product.

Warning: Windows Vista and later versions have increased security. You need to have administrator rights to do the installations. Sometimes even this is not sufficient depending on your company’s IT policies, see below. The first trick is to try to run the installation program by right clicking on the installation file and selecting “Run As Administrator”. Registration and setting of databases may also be problematic because of increased security limitations. New versions of the programs are changed to use Current User registry key and different location for the data files to solve the issues. It doesn’t work always due to company policies.

User must have read and write permissions on those folders where the data files are located.

Where the files are located on a network of any other drive than C drive the path to the files has to be permanently mapped and it must not change when the computer is restarted or by any other action. Where the path changes the material databases have to be set again in the program/s.

Bellows Master II

Install Bellows Master II on a computer you intend to use it. Register it as described in the help file and Frequently Asked Questions (FAQ - available from our site, it is also part of the installation) and as a separate document Registration.pdf. The installation includes always all the required files.

After installation you need to tell the computer where the data files are. This is explained in help

file also, see "Select Database" topic.

Bellows Master II has 3 separate data bases. Note that the database format was changed when Bellows Master II was upgraded to EJMA 10 edition. To indicate the new format the file names have "_5" in them. Old format files cannot be used without converting them. Data bases are:

Company_5.adb

This database contains your company name/s and logo/s. File is located in:

NT/2000/XP: C:\Documents and Settings\User\Application Data\J Tolonen Services cc\BelData

Vista/7/8/10: C:\Users\User\AppData\Roaming\J Tolonen Services cc\BelData.

"User" is replaced by the current user's name.

File is automatically installed and the program knows where it is so you do not need to set it at all. You should include the file into your back up.

EJMA Calculations_5.adb

This database contains all your calculations and tooling that you have saved. Default installation installs the file into the same folder as *Company_5.adb*. You can move the file to an other location after the installation but you need to tell the program where the file is. You can even change the file name. Typical reason for you to set up different location is for instance that you have more than one user and you wish to use one common database for all users. An other case is that in the office you use one common database and while travelling you have a separate file on your laptop's hard drive. With improved internet connections you may even connect to your office. In each case the program needs to know where the file is. Setting is done via Program menu "Setup - Set Calculation Database". You simply navigate to the file you wish to use and select it.

EJMA Materials_5_.adb*

This database contains all of the material you have. File is handled in an identical manner as "*EJMA Calculations_5.adb*" except the menu to use is "Setup - Set Material Database". In the given name "*" indicates that the file name may differ between the program releases. Add on

databases have different names giving revision detail.

Database locations are saved into the registry. If the registry would get corrupted or you have reinstalled Windows you need to reset the file locations.

Program has very minimal checking that you have actually selected correct database. After setting the database if you get strange errors, you do not see expected results or materials you may have totally wrong or outdated file in use. If you keep changing the database establish some form of revision control so that you know what is the file you should use. Current version of the program doesn't have a facility to transfer data between different databases e.g. your travelling and office data bases.

If you purchased additional database you can either save it to the same location as the one supplied with the program or any other location you wish to use. You just need to point the program to the correct file. Which material database is used can be changed at any given time but it requires restarting the program.

Before using BMII program (or BMII EN and RecBel) you should set up the program defaults via Menu Setup - Defaults. One important setting is the Help file format. Microsoft had *.hlp type help file but it doesn't work on later edition of Windows. Those before Windows 10 can use this older type if the computer has correct add on driver. Windows 10 supports only new HTML based help file type. You need to set up the program to use the correct help file format. Old format help file will be removed from the installations slowly. The old format is actually better than the new.

RecBel

RecBel installation and datafile system in principle is the same as for Bellows Master II above.

- Database file version is new and is not compatible with Bellows Master II based on EJMA 9 code. As a result you cannot use older BMII material files in RecBel
- Default database location is the same as for Company_5.adb. However you can move the database where ever you like but you need to tell the program where they are.
- You can use, with some caution, also the add on database primarily intended for BMII.
- Database system is updated substantially and using the latest 2019 edition material database and RecBel program the additional material database is fully usable in all of

the programs excluding EN based calculations.

MatTool and MatTool II

There are two MatTool programs. They are identical excluding the fact that they are for the different version of the databases. Do not mix them up. Both installations have only the program files and material data files. The best computer to install the program is the one where Bellows Master II (or RecBel) is installed. If you have more than one BMII installation select one of them. MatTool is used to enter the material values and set the material database to be used by other programs. A possible reason to install MatTool on an other computer is security. If you do not wish the BMII user to have access to MatTool then install the program onto an other computer. Second reason to install MatTool would be to get material tables for other programs to use and more importantly to be able to set up the material database location for other programs, see BMII above.

After installing MatTool enter your materials. If the program is on the same computer as your BMII and you have only one licence and you have no other computer using the material data base then you do not need to do anything further. However if you have more than one BMII installation or you have installed FlangeTool, GimbalMaster or other program that requires the data base on a separate computer/s then you have to transfer the material data file. If you do not transfer the data file or use network installation option then you have to enter the material values on every computer. Data transfer is done as follows:

- Close all programs on both computer
- Make back up on both computer
- Delete the material database EJMA Materials_5.adb on target computer¹

- After deletion copy the same file from source computer to target.

Every time you add a material you should distribute the data file to other computers that require them.

¹EJMA Materials_5.adb is default name for the file. You can change it if you like.

AxMov, HinMov and HeatTool

These programs do not require any additional files. Therefore you can install them on any computer within licencing rules.

FlangeTool, PinMaster, GimbalMaster, RodMaster, BracketMaster and ThickBel

All these programs require the data file. Latest versions of the programs use the new database format. Installations do not include them and there is no facility in the programs to tell them where the material database is. For this reason you need to install MatTool II on the computer you wish to use the programs. It is used to set the material database for the programs. MatTool II has site license and therefore you can install it multiple times with the programs.

It is important to remember that the programs use the material database MatTool II was set to work with last!

Company Logo on reports

Bellows Master II, Bellows Master II EN, , Bellows Master II Toroidal and RecBel prints company logo on the reports based on your selection during data entry. Company name and logos are stored in Company_5.* files located in the installation directory, see above. After entering the company information you need to distribute the files to other computers where you may have Bellows Master II or RecBel. You do not need the files on the computers where Bellows Master II or RecBel are not registered.

Smaller programs print also company logo but this is a single BMP file located in the folder where the material database in use is located. To change the logo you just replace this file. File name is PrintLogo.BMP. If you need to change the logo often the easiest is to copy all required files into the directory/folder with different names e.g. PrintLogo_A.BMP, PrintLogo_B.BMP etc. Before printing rename the file you require as PrintLogo.BMP.

Programs that do not use any material database may have also a report with a logo. In these cases the PrintLogo.bmp is located in the same folder as the exe file:

C:\Program Files (x86)\J Tolonen Services cc\Bellows\Design2

License Transfer or reformatting the hard drive

From time to time license may have to be transferred to an other computer or the hard drive is formatted. Any program that has a site license can be freely installed to an other computer within the same company. However programs with an individual license have to be transferred using the following procedure:

Back up the installation directory where the program is plus directory where the data files are. Default installation locations are:

NT/2000/XP: C:\Documents and Settings\User\Application Data\J Tolonen Services cc\BelData

Vista/7/8/10: C:\Users\User\AppData\Roaming\J Tolonen Services cc\BelData

After backing up start BMII and go to Help menu and click Transfer license. Follow instructions. Copy the license transfer file or send it to us. Without the file there is no obligation to issue a license to an other computer.

Make sure your back ups are safe and working

On the new computer:

- Install Windows and other programs and make sure that everything works
- Install BMII or any other program where the license is transferred and ask for new license. Include with the request also the transfer license file (Name given in help file and dialogs during the process)
- We will send new license

From your back ups you need to copy 3 files to new installation:

- From the program installation directory:

Company_5.adb (Your logo file)

- From the Data directory:

EJMA Calculations_5.adb (Or similar name)

EJMA Material_5.adb (Or similar name)

Replace newly installed files with your back up files. If your data files are in an other location you

need to copy those!

Advanced details

In normal cases installation is straight forward and there are no issues. In corporate world IT department may have known or unknown policies, which prevent standard installation and even use of the program. This section describes some details how the default installation is set up. Where installation doesn't work it can be made to work but may require modifying registry entries and therefore requires good computer knowledge.

This section applies to Windows 10 and the following programs:

- Bellows Master II
- Bellows Master II EN
- Bellows Master II Toroidal
- RecBel
- ThickBel

Installations don't include any DLL or any other additional files excluding those that are installed into specified folders as listed.

Program files including help and similar are installed into:

C:\Program Files (x86)\J Tolonen Services cc\Bellows\Design2

Normally there is no reason to make any changes on this folder.

Folder which has caused problems is the one where data files are installed. Some corporate policies seem to cause issues. Folder where the databases are installed is:

C:\Users\"User name"\AppData\Roaming\J Tolonen Services cc\BelData

Where "User name" is the user name of the computer. Under some policies this folder is hidden in Windows Explorer and in the worst case installation is prevented creating the folder. Where the files are installed have to be established by Search.

Programs listed above excluding ThickBel install three databases. These are:

Company_5.adb (common for all)

Material data base

Calculation database (ThickBel doesn't have this)

Database names are:

Bellows Master II

EJMA Calculations_5.adb

EJMA Materials_5_R2.adb where R2 indicates revision and may change

Bellows Master II EN

EN Calculations.adb

EN_Materials_R4.adb where R4 indicates revision and may change

Bellows Master II Toroidal

EJMA Toroidal Calculations_5.adb

EJMA Materials_5_R2.adb where R2 indicates revision and may change

RecBel

Calculations_RecBel.adb

RecBel_2013_R5.adb where R5 indicates revision and may change

ThickBel

ThickBel_2013_R2.adb where R2 indicates revision and may change

It is recommended that all of the databases are backed up as a standard policy. Company database can be recreated, material database if not modified by the user can be asked from the developers but lost calculation database is lost if something happens to it.

During the installation registry key:

Computer\HKEY_CURRENT_USER\Software\J Tolonen Services cc\CommonData\Settings
and then key Databases

is created and the Databases key has the path to the databases.

There is critical difference between the Company database and Calculation/Material databases. All of the programs "know" that the Company database is in the folder given in the Databases key. Programs cannot change the key value but computer expert can using Registry Editor.

Although the databases are installed into the folder none of the programs “know” where the databases are. On the startup user is required to point the program to the databases listed or to those additionally purchased or to an existing one. Databases can be moved anywhere where user has read and write access. In some case they are on the server to allow database sharing between the users. Where the databases are is written into different registry keys under Computer\HKEY_CURRENT_USER\Software\J Tolonen Services cc\

Programs will read the key values and will find the data required.

User must have read write access to the registry keys and to the folders where the databases are located. Keys are user specific. Originally they were computer specific but it was causing too many problems and they were moved.

Recommendations:

- If the default installation works leave the Company database where it is installed
- If it is single user installation there are three options for the material and calculation databases: Keep where they are, move to easier place to back up or move to a server.
- If multiuser environment it is better to move calculation and material databases to the server where everybody is using the same databases

Where user travels having a laptop either have the databases on the hard drive or connect to the server via internet. Developers know that the remote server connection has been done but how it was done is unknown.