Release Notes for BendWizard 4.0 and BendWizard 4.0 Plus

ABB Solution s.p.a. 2002
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1. Introduction

In this document are described the specifications to run BendWizard 4.0 (BW4) and BendWizard 4.0 Plus (press programming), the installation and the Actual Known Limitations.

2. Supported platforms

Here you are the minimal characteristics for a PC to use BendWizard 4.0:

- Pentium III 800 MHz
- 700MBites HardDisk Space (if you want to install the full Library)
- Graphics Card 32MBites supporting OpenGL (for example: Diamond Fire GL1AGP or ELSA GLoria III)
- Three Buttons mouse
- Monitor 1024x768 (or higher)
- Small fonts
- 256M RAM
- Microsoft 2000 Professional service pack 1 or higher
- Microsoft Windows NT4.0 Service Pack 6 or higher and Internet Explorer 4.0 Service Pack 2.

3. Installation

- Install RobotStudio 2.0 (or higher, English version)
- Copy BendWizardLibrary in your PC.
- Verify that the BendWizardLibrary and its files are the Read-only property set to OFF.
- Run RobotStudio. Click on the Menu Tool/AddIns…
- Select the Addin BW4.dll from directory BendWizardLibrary \BWDLL
- Start The Addin BW4
- The first time that BW4 will start, it will ask you to choose to BendWizardLibrary.

4. License
• To get the License code contact the BendWizard Support
• Insert in the form that will start before BW the strings.
• If there is not license or the license is not valid you will get a message error. In this case BendWizard will run with full functionality but it will not generate Rapid.
• Attention: if you are making an upgrade from a BW4.dll before delete BW from RobotStudio Add-in form, than add the new one.

5. What’s on CD
• BendWizardLibrary
• BendWizard 4.0.
• BendWizard 4.0 Help on line.

6. How to import DXF files
These are the steps you have to do before import a drawing in BW4.
• Import the piece in a CAD system (use mm).
• Clean up the drawing from all the things that are no bending lines and profiles.
• Select all objects and use the command “EXPLODE”.
• Create a Layer with name: BENDINGLINE and put the bending lines
• Create a Layer with name: CUTPROFILE and put the profiles (also the holes).

It is also possible to assign a label to the bending lines including the angle (degree with sign).
For a full description see the Document BW2_Import_Rules.doc

7. How to unregister BW4
To unregister BW2 you can run the MS-Dos Command:
regsvr32/u c:\bendwizardlibrary\bwdll\bw4.dll
Make sure to set the Bw4 Directory correctly.
In this way you will be able to run RS as is (compatibly with your licenses).

BW4 is compatible with old projects of BW2 and BW3. Attention, if you save a new project with BW4 it is not more possible to open it on BW2 or in BW3.

• Hem bends are now supported: The system manages the first bends (the preparation one) and the Hem bend. Two types of tools are supported: up-down movement and backward-forward movement).
• Regripping in press is now supported.
• External Axis is now supported.
• Now it is possible to change the clamping face.
• It is upgraded the DXF/IGES import.
• Windows 2000 compatibility.
• Internal bends are now supported.
• Pallettization is managed by definition of a group of repeatable pieces.
It is possible to have a in BendWizard 4.0 Plus also the generation of the Bending Sequence file used for programming the press brake.

10. Known Limitations

- Mechanical grippers are not supported.
- Layout with more that standard stations is not supported.
- MicroBender. In some case the layout is not standard (picking station and centering station are coincident). The MicroBender is supported in an anomalous way: in the simulation it will be possible to see all the stations, in the real cell the centering station will be jumped.
- The bend with the robot over the piece is not supported.
- BendWizard does not support multiple picking. It is in any case possible to modify on the field the RAPID code to allow this operation.
- (Dimensional limitations of the piece: Long and thin pieces must be checked on the pre-design phase. This point needs some tests to define the real dimensional limitations).
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