Prima Power

The Bend
The Combi
The Laser
The Punch
The System
The Software

Master BendCam 1.0
Programming software for bending automation

MASTER BendCam

Master BendCam programming system is a user-friendly, integrated tool for managing Prima Power bending machines through interactive graphical techniques in the most efficient manner available.

The system may be used as a single part drafting and tooling program or as a fully-automated machine tool management system. It simulates the machine processes in a real manner and generates programs with a greater degree of automation.

Master BendCam has been developed for all Prima Power bending machines and cells and is supplied as part of standard machine delivery. The version supplied with the machine is called Master BendCam Basic, which allows the visualization of the bending sequence in 2D.

Two further functions can be added to Master BendCam:

- Master Bend Plus for 3D visualization of the machine and the check of possible collisions between the tools;

- Master Bend Parametric that allows reusing a bending program for panels with the same bending sequence but with different length and width.

Master BendCam is a production management tool designed for maximum positive impact on manufacturing flexibility and efficiency. Master BendCam features include:

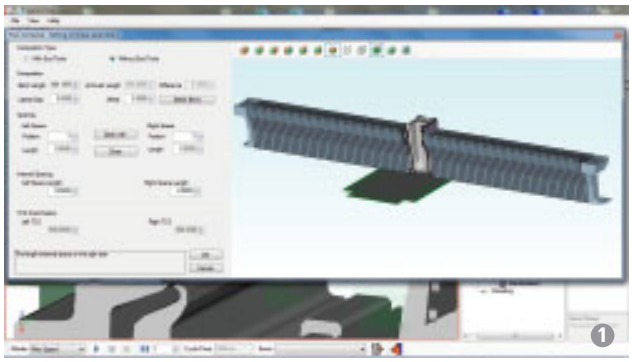
Import of 3D models and basic CAD functions

By importing from the most known 3D formats, such as IGES, STL, STEP, SAT and others, the operator can program a bend simply and fast.

When importing from a dxf, it is possible to edit the file to correct possible problems.

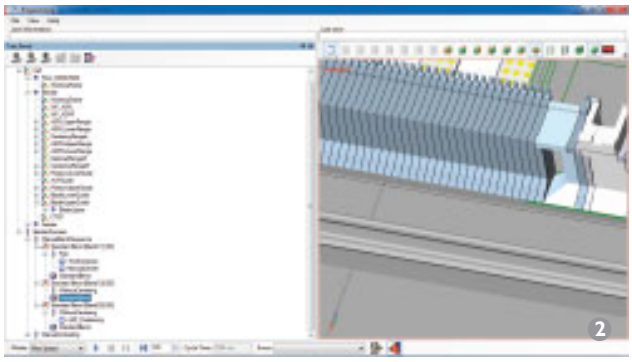
Simplified programming through pre-set bending cycles 1

The operator can introduce very elaborate bending sequences by editing a limited number of parameters.

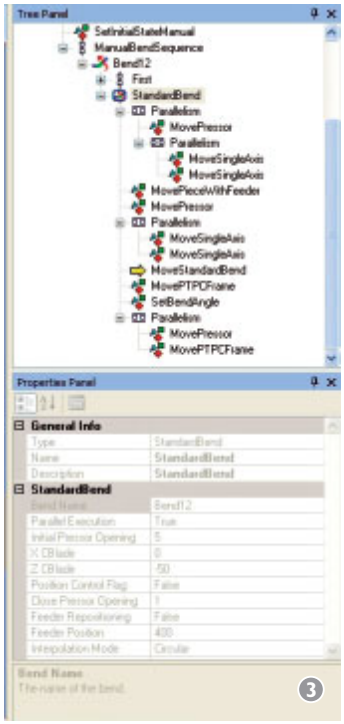


Simple positioning of the machine axes through visible support 2

The software allows piloting the position of the axes by moving them in the space in an intuitive and quick way.



Tree-view structure of the bending process 3



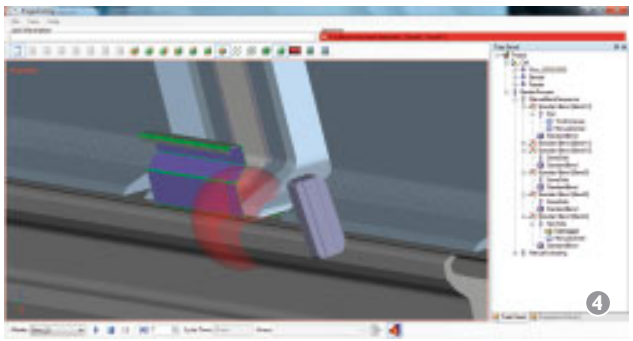
The sequence of programmed operations (loading, bending, unloading, etc.) may be collected in a tree-structure that allows easy access to the different elements of the program with the possibility of adding or removing any operation at any time.

Program optimization by 3D simulation

Complete 3D simulation of the bending process allows better optimization of the operations and quick correction of possible mistakes during off-line programming, avoiding waste of time during working.

Check of collision between part and tools 4

The software detects automatically the possibility of collision between mechanical parts of the machine, warning the operator with a visible and clear alarm. Collision check can be activated or deactivated using a special icon.

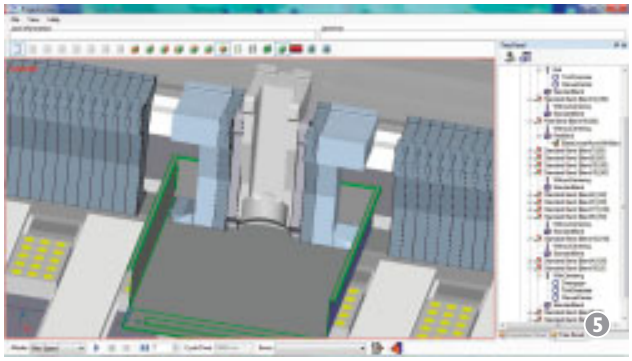


Programming of the bending process in Teach mode

For complex programs, it is possible to create sequences of movements in "teach mode", indicating the final point of each movement. This allows using all machine capabilities.

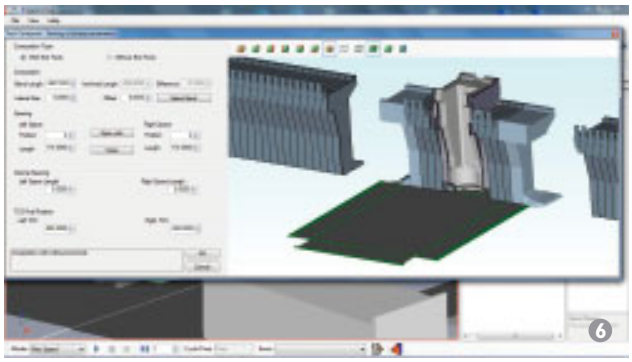
Complete tools management 5

The system allows intuitive calculation of the required tool composition and displays the status during working.



Tools setup 6

The operator can easily define and change terminate (3) machine setup by adding or removing the tools using the graphical interface.



Automatic calculation of the cycle times

Thanks to an accurate calculation of the running time, it is possible to know the time required for each part to be processed.

Additional features

NC Express™ unfolder to open and import 3D models

Master BendCam Plus with advanced tools for a fast 3D programming and simulation

Master BendCam Parametric combined with the Master BendCam Plus, for generating panels starting from a reference program.

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