

VBend

Virtual bend sequencing and
bend simulation software

Delem



Integrated solutions

With the DA-Offline range, an integrated solution between offline preparation and production enables optimum machine efficiency.

The **DA-Offline** software maximises machine efficiency and production output of press brakes. **VBend** offers the offline solution for programming your pressbrake, post processing the programs and simulation of the actual bending process.

Product programming, make-ability checks, tool preparation and many more can be carried out offline.

The VBend suite includes bend sequence calculation and modification in the main program completed with either a graphical product programming or multiple import converters for externally developed designs. This in 2D as well as 3D CAD file formats.

The **simulation** integrated in VBend shows the user the bending process on an accurate model of the used press brake. With the simulation even the latest dynamical collisions and practical production issues can be optimised in the design stage.

After finishing, a product can easily be transferred to a machine for production.

In VBend multiple press brake models can be used, for a complete production environment.

VBend featuring:

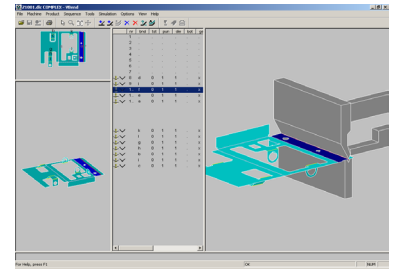
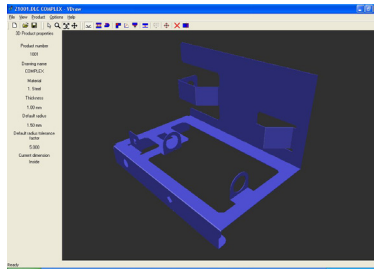
- Full-scale offline programming, simulation and adjustments
- Fast graphical product programming and program generation
- Full 3D automatic bend sequence calculation incl. collision detection
- Feasibility studies and production preparation
- Product sharing over Windows networking with press brake CNC
- Machine set-up preparation including print-out functionality
- 3D file import (SAT / IGES / STEP)
- Windows XP / Vista compliant

Specifications VBend

Product configuration

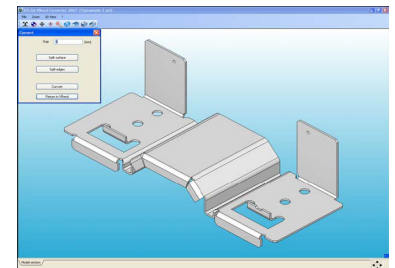
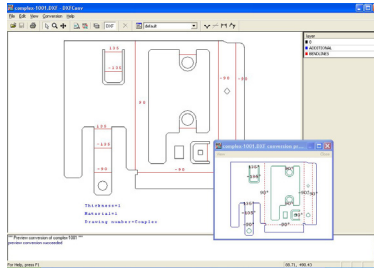
Standard

- Flexible bend sequence generation
- Collision detection for part, tools and machine
- 3D accurate machine representation
- 3D finger view
- T.O.M.[®], tool optimisation module



Ordering information

- VBend VMS-D, offline software incl. DXF-converter (VDXF)
- VBend VMS-F, offline software incl. fast graphical drawing module (VDraw)
- VBend VMS-X, offline software incl. DXF-converter and 3D-importer (V-SAT)
- V-IGES / V-STEP



Screenshots, VDraw, VBend, V-DXF, V-SAT

Technical specifications

Programming functions

- Bend sequence generation (unbend / bend by bend start flat)
- Numeric product naming, up to 7 digits
- Automatic bend sequence calculation
- Graphical product and tool selection
- Programmable axis speed
- Free material programming
- Special tool operations (hemming, bumping, etc.)
- Number of steps up to 99
- Production simulation on accurate press brake model
- CNC program editor
- Millimetres / inches
- kN / Ton selection

Tooling

- Graphical tool configuration
- Multiple tool station set-ups
- Tool optimisation module (TOM)
- Tool segmentation visualisation
- Parametric tool definition
- Tool import / export
- Tool library / database

Computed functions

- Tooling safety zones
- Press force
- Bend allowance
- Crowning adjustment
- Bottoming force
- Hemming force
- User definable bend allowance tables
- DXF output in cutting dimensions

Graphical print functions

- Print-out of CNC program incl.:
 - Product data
 - Tool set-up
 - Numerical bend sequence
 - Graphical bend sequence

Miscellaneous

- Multiple onboard dialogue languages
- Help texts, via Online Help functions
- Customised press brake modelling

System requirements

- IBM compatible PC
- Windows 2000 / XP
- CD-ROM player
- Parallel or USB port

Delem

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