Blank Development

- **Process body creation**
  Blank body will be created through development of bending plane and die draw. Radius and angle of bending part is recognized automatically, and blank body will be created automatically with K factor from master. Furthermore various development is available such as unnatural bending, burring, spring back, bending restore and so on.

- **2D Blank / Partial Blank**
  2D blank will be developed forming parts at one time. It will show analysis and simulation based on material data. (animation view, analysis for strain, stress, material thickness rate of decline) Partial blank will be developed forming parts from selected place. Considering of unfolding model is available, because of appoint of development angle, hold tip, adjust development direction.

- **Process body creation**
  Blank body will be created through development of bending plane and die draw. Radius and angle of bending part is recognized automatically, and blank body will be created automatically with K factor from master. Furthermore various development is available such as unnatural bending, burring, spring back, bending restore and so on.

So you can amend/edit easily because of feature function of history base. We utilize SolidWorks interface, so forming parts also will be developed with ordinary function of SolidWorks.

Layout Design

- **Layout Development**
  Process body will be placed into each stage automatically. Blank layout for nesting, hound's-tooth placement, mirror placement is also available. In addition, layout development for material width, border amount, sending pitch and number of stage are freely considered.

- **Layout Design others**
  - Pilot placement
  - Insert creation
  - Shank creation
  - Spacer creation
  - Fixed key creation
  - Material guide creation

Bending/Forming Punch

- **Bending/Forming Punch**
  Bending/forming punch will be created smoothly from cylinder face from bending part and/or forming part. Created bending/forming punch is associated with product, so the designer can check the gaps between product and bending/forming punch, it is easy to confirm and will reduce mistakes during the designing process.

Piercing Punch

- **Piercing Punch**
  Pierce punch will be created one time, because system recognize a hole automatically. In case there are lot of pierce hole, this function is effective. And, cutting edge of variant form is drawn by sketch function freely, and profile of products will be traced automatically. And, sketch of cutting edge profile for plural pierce punch is able to create at one time. So, design of punch with matching is available. And more, we have library for matching, heel, roof, shank, fringe.

Information of Die structure

- **Information of Die structure**
  In case of designing layout or estimation time, image of die structure appear (including plate thickness, XY size), so created punch dimension will be associated with plate thickness, and position of punch will follow die structure position automatically. So designer easy to consider layout image.
Die Structure

[Unit]
Internal standard parts such as springs and suspension bolts, inserts and bolts will be registered as standard unit parts. Adding coincidence, dimensional binding, relational formula between parts, each part size, each part place will be up-dated automatically. So design standardization and a reduction in design time will be possible.

[Customized parts]
Ordinary internal parts will be registered as customized parts, so you can create your own catalogue. Registration work is an intuitive and easy operation.

[Die Set]
CG PressDesign supports standard die set from FUTABA. It is easy to change plate size, and easy to insert new plate etc., so customized die set is available. Frequently used parts such as clamping bolt, knock-out pin, stripper bolt, register to customized die set, so it reduces design time for the die set.

Drawing Supports

[Standard Parts]
There are 6,200 libraries for Futaba and Misumi standard parts. Standard parts image appear in the screen, so easy to set for value of position and length on the plate. And template of machining is standard feature, so easy to set attribute of hole. And L dimension is associative with plate thickness, so length of pin will be optimized automatically.

[Parts Release]
2D drawing will be created automatically from assembly file and parts file. And parts list, purchasing sheet, title block will be created same time. Hole list, auto dimension will appear on the title block after parts release.

[Auto Dimension]
Dimension will be created automatically on the drawing. Dimension type is able to select each projection and hole attribution base is available. Dimension pattern will be registerd in to the master, so dimension will be created separately each plate such as punch plate, die plate.
- Software & Hardware Requirements -

**OS**
- Microsoft® Windows XP® Professional SP3
- Microsoft® Windows XP® Professional x64 Edition SP2
- Windows 7® Professional 32bit
- Windows 7® Professional 64bit

**CPU**
- Intel® Core™ 2 Duo or more

**MEM**
- 2GB or more

**HDD**
- 16GB or more

**Graphics**
- 3D Accelerator OpenGL® board

**Office**
- Microsoft® Excel2007 or newer

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