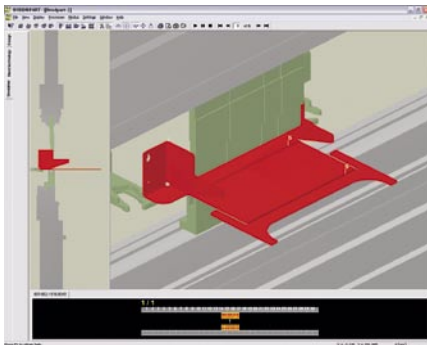


## Bybendpart – tailored, solution-oriented, and plausible



Are you still programming on the machine?

If you are, it's worth optimizing your processes. By both modeling your parts and generating the corresponding bending process data on the PC instead of on the machine, you will save time and money. You will simplify the entire bending process and ease the burden on your bending department.

With Bybendpart, Bystronic provides you with software with which you can

1. parameterize production-ready 3D models of your bent parts and
2. create reliable bending process data conveniently.

### **Production-ready modeling of bent parts**

How well constructed a part is determines how easily and quickly the subsequent bending process goes on the machine, and thus also how cost-effectively the part can be produced. Therefore, the new Bybendpart is also a perfect designer for the logical, parameterized 3D modeling of production-ready bent parts that are optimally adapted to your production equipment.

### **Reliable bending process data**

After you have modeled your bent parts, in a second step you can efficiently and plausibly create reliable bending process data. The bending sequence calculation is integrated consistently, which optimizes part handling. This is achieved by taking into account criteria such as the part center of gravity and moment of inertia. The result is quick and easy bending on the press-brake.

In all of its functions, Bybendpart is plausible and simple to operate, making the creation of accurately fitting bent parts and the reliable calculation of unfolding and bending process data are considerably facilitated.

# How can bending programs be created?

## Starting with a fax, sketch, or idea

With the help of Bybendpart, you can generate parameterized 3D models that can be edited without limitation repeatedly. Furthermore, 3D deformations such as dimples or studs and ventilation louvers can be added to the model; these are taken into account during the collision monitoring of the 3D bending simulation.

## Starting with 3D data

If you already have 3D data for the bent part in SAT, STEP, IGES, or IPT format, this can of course be processed. The resulting unfolding is based on empirically determined values.

## Starting with 2D data

The basis for determining the bending process data is always correctly reduced unfoldings. However, this also means that the immediate processing of DXF files is still guaranteed insofar as they fulfill this criterion. If unfoldings must be adapted, using Bybendpart they can be prepared as 3D models and reworked into correct bent parts with a few mouse clicks.

## Customer benefits

### Bybendpart is tailor-made

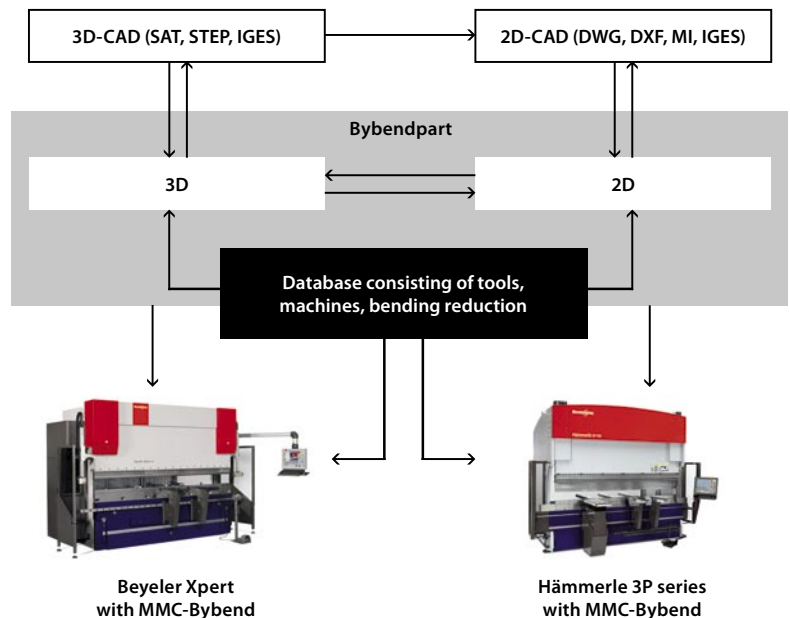
- ▀ Modeling of accurately fitting sheet bent parts thanks to reconciliation with machine data
- ▀ The placement and consideration of 3D deformations guarantee process-secure production data
- ▀ The blank size is determined on the basis of the tools used
- ▀ Incorrect 2D files can be upgraded to 3D data suitable for the production

### Bybendpart is solution-oriented

- ▀ The bending sequence is determined automatically and suggested to the user
- ▀ Quicker and easier production thanks to optimized handling of the parts
- ▀ No unnecessary idle times caused by programming on the machine

### Bybendpart is plausible

- ▀ Its operating comfort and ergonomics inspire
- ▀ The feasibility of a bent part can be checked already on the screen
- ▀ Significantly reduced preparation time



## Your contact

[www.bystronic.com](http://www.bystronic.com)