

Bending the Future

Special Offer!

COPRA® MetalBender Standalone

Powerful 3D-Sheet Metal Design and Flat Pattern Calculation including AutoCAD OEM 2010 for Budget Price



The screenshot displays the COPRA MetalBender website interface. At the top, the 'data M Sheet Metal Solutions' logo is visible. The main navigation menu includes 'Home', 'Products & Solutions', 'Service', 'Training & Support', 'News & PressInfo', 'Reseller', 'about data M', and 'data M Internal'. A search bar is located on the right. The 'Products & Solutions' section is expanded to show 'Roll Forming', 'Metal Bending', 'MetalBender for Inventor®', 'MetalBender for AutoCAD', 'MetalBender Standalone', 'Simulation with FEA', and 'Quality Control'. The 'MetalBender Standalone' product is highlighted. Below this, an 'Info Brochure' is available in German and English. The main content area features a large 3D rendering of a blue metal pipe elbow. Text on the page includes: 'Now available: COPRA® MetalBender software modules as standalone version, including the basic software AutoCAD OEM 1'. Pricing information is provided: 'COPRA® MetalBender Standalone: € 2.950,-' (including AutoCAD OEM 2010) and 'COPRA® MetalBender Solver Standalone: € 1.990,-' (including AutoCAD OEM 2010). A list of features for the standalone version includes: '• Calculation of neutral line according to DIN', '• Material...', and '• Motors'. Another section for 'COPRA® MetalBender HVAC S' lists features like '• Easy to use', '• Parametric 2D and 3D unfolding library', '• Quick modification by entering new parameters', '• Calculation of blanks - with all intersection curves', '• Curves represented as continuous lines or arcs', and '• NC programming interface'. A footer note states: 'Prices excluding VAT and shipping costs.'

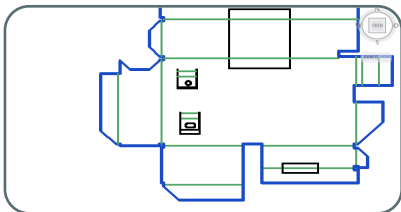
 **data M**
Sheet Metal
Solutions

COPRA® MetalBender Standalone

Today, the design and development and unfolding of 3D sheet-metal parts is already included in many 3D CAD-systems. These systems are on the one hand very powerful, but purchasing them is associated with relatively high costs. In addition to the investment in the required hard and software is the necessity of a qualified designer who can efficiently use such a tool.

The COPRA® MetalBender Stand-Alone Version has not only low purchase costs, but also enables you to become proficient with its use within a very short period of time. Even complex parts can be quickly and easily designed with the help of "sheet-metal design" adapted surfaces and the available design tools "Close Corner" and "Set Mitre Cut", as well as the automatic generation of box geometries.

- Working with a sheet-metal module in basic AutoCAD without high investment
- Easy design and unfolding of 3D sheet-metal parts
- Easy to handle without training effort with the help of available documentation
- Dynamic design of various edge types eg. Z-flange
- Automatic box-geometry calculation of 2D-contours
- Automatic assignment of different punching tools in unfolding
- Automatic adaption of sheet-metal thickness via a foil model
- Various export formats (DXF, Cybele, ToPs)
- Unfolding of imported 3D parts
- Integrated tool-library

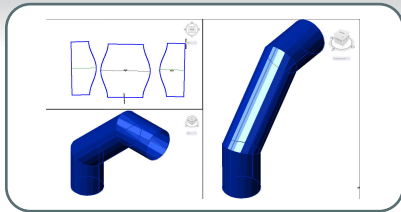


► COPRA® MetalBender 3D

The powerful design utilities allow an easy and quick design of even very complex sheet metal parts. Flanges to be added can be filleted or sharp-edged, with or without relief cut as well as with a predefined offset from the reference edge. The integrated pre-view allows a collision control already during the definition of the flange parameter. COPRA® Metal Bender 3D also provides the possibility to convert 2D shapes or contours automatically into 3D solid models. The created solid model can be completed with all necessary features like punch holes, notchings and piercings.

- **User friendly handling**
Windows look-and-feel
- **Design in 2D, automatic conversion into 3D**
powerful tool for automatic box design
- **Powerful editing tools**
allows a "semi-parametric" handling
- **Comfortable 2D-view creation of solid models**
- **Realistic transition of bent areas in corners**
avoids reworking of the flat pattern
- **Optimisation of the flat pattern data for easy NC-programming**
default for punching or laser cutting
- **Create simulation model**
for an easy check of manufacturability

2.450,-
incl. AutoCAD
OEM 2010 €



1.990,-
incl. AutoCAD
OEM 2010 €

► COPRA® MetalBender Solver

The software is perfectly integrated in the user environment of AutoCAD and calculates the exact flat pattern geometry of 3D sheet metal parts including overbending angle and -radii.

The optional reduction of the intersection points or automatic conversion into arcs allows an optimised production sequence. For the calculation of the neutral line the methods according to DIN 6935, material properties, machine correction tables or expert values are available.

The overbend angle and -radii are calculated taking the material properties and bending method into account.

COPRA® MetalBender Solver also provides extra tools to check the flat pattern and apply any necessary modification automatically.

- **Calculation of the neutral line according to DIN 6935**
- **Machine dependent correction factors**
- **Use company specific know how**
- **Calculation of overbend angle and -radii** for springback compensation
- **Bothsided flat pattern calculation** for intersection curves in thick material
- **Take break-through objects into account** calculation of the required cutting curve
- **Optimize points of intersection curves** convert splines into radii
- **Flat pattern calculation for sharp-edged parts** allows flat pattern calculation of transitions
- **Flat pattern calculation for solid models** can unfold any bendable 3D solid
- **Specific corner (trunk-like corner)**
- **No training cost**
- **Exact and fast flat pattern calculation** including all punch holes ect.

**A
Ho Ho Hot
Price For
Summer!**

€ 2.950,-

Special Offer!
All 3 modules incl.
AutoCAD OEM
2010

**COPRA®
MetalBender
Standalone**

Our software-package for the budget price € 2.950,- includes:

- AutoCAD OEM 2010 +
- COPRA® MetalBender 3D ++
- COPRA® MetalBender Solver +++
- COPRA® MetalBender HVAC +++

**Get your trial version at:
www.copra-metalbender.com**

► COPRA® MetalBender HVAC

The 3. dimension for Heating, Ventilation and Air-conditioning. A great number of easy-to-use and helpful features are available. If you do not find your desired parametrised 2D-macro – just design it as a 3D AutoCAD Solid. The user is able to modify the shape or position of already defined parts.

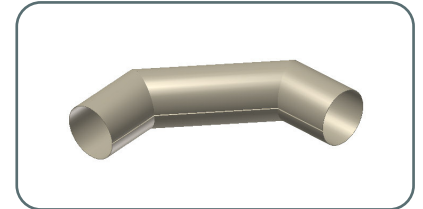
The flat pattern can then be calculated by using the included COPRA® MetalBender Solver. Using the membrane model is very helpful if you have to handle heavy gauges (thick material). In this case you are able to overlay top- and bottom side of the flat pattern.

- Easy to use
- Parameter driven 2D and 3D part library
- Quick modification by entering new parameters
- Calculation of blanks with all intersection curves
- Curves represented as continuous lines or arcs
- NC programming interface

2.450,-
incl. AutoCAD
OEM 2010 €

2D-unfolding library

- Pipe
- Pipe branch
- Elbow
- Bend
- Conical bend
- Cone
- Cylinder/cut cylinder
- Transitions/round to round, round to rectangular and rectangular to rectangular
- Cut prism/cut pyramid
- Forked pipe round and round-rectangular
- Dished boiler end
- Cut conus

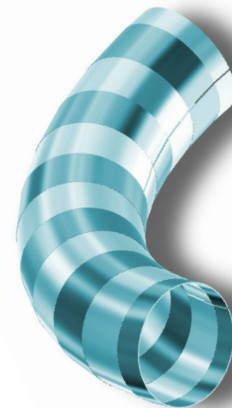


3D-unfolding library

- All kinds of cylinder/conus or conus/cylinder intersections, even if there are several branches
- Cylindrical or conic branch on dished boiler end

Transitions (any combination) from

- Round
- Rectangular
- Filleted rectangular



Bending the Future

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