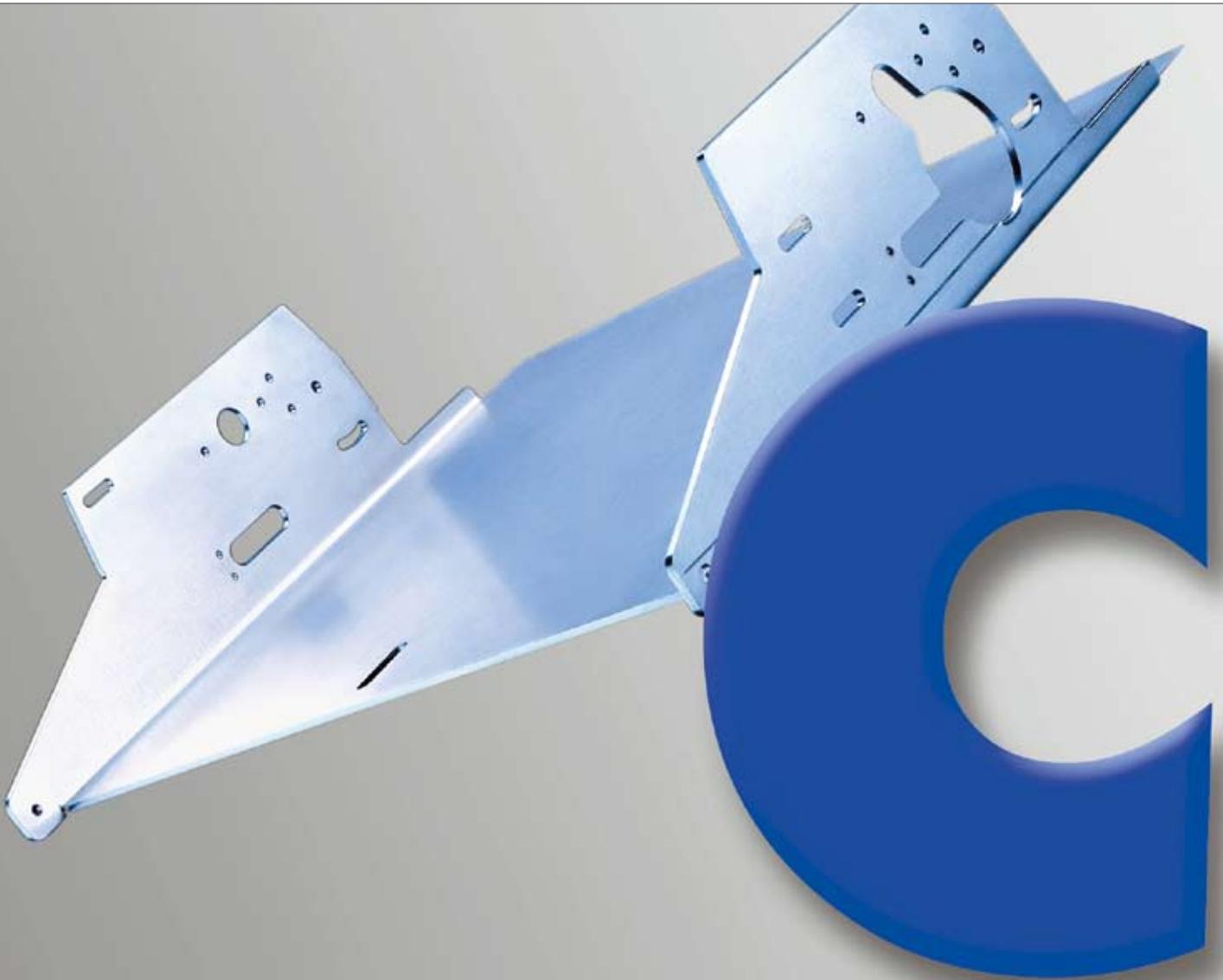
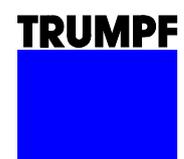


TRUMPF Press Brakes



Economic bending
made easy

TrumaBend C-Series



Economic bending made easy

Economic production resulting from high productivity and superior part quality is a must in advanced sheet metal fabrication plants.

The TrumaBend C-Series press brakes fully meets these requirements. TRUMPF, in cooperation with its customers, has developed a machine to economically produce dimensionally accurate parts. The machine is very simple to operate and the price/performance ratio is just right.



Reliable machine concept – For highly productive manufacturing processes

The TrumaBend C-Series' reliability is appealing. Thanks to innovative bending technology, it produces dimensionally accurate parts with high repeatability. As a result, the last workpiece is as perfect as the first. But that's not all: The TrumaBend C-Series also operates precisely and productively.

Everything is included – The extensive basic configuration

All of the TrumaBend C-Series machines are very well equipped.

Users benefit from the innovative drive concept, with four cylinders that minimize the beam deflection and provides flawless bending quality. The crowning adjusts automatically, compensating for frame deflection. Thanks to the controlled beam incline, bending is possible at several stations throughout the entire bending length.



The precise, flexible CNC stop system ensures optimum parts quality and also saves time with quick travel speeds and no required setup time for the X and the R axes.

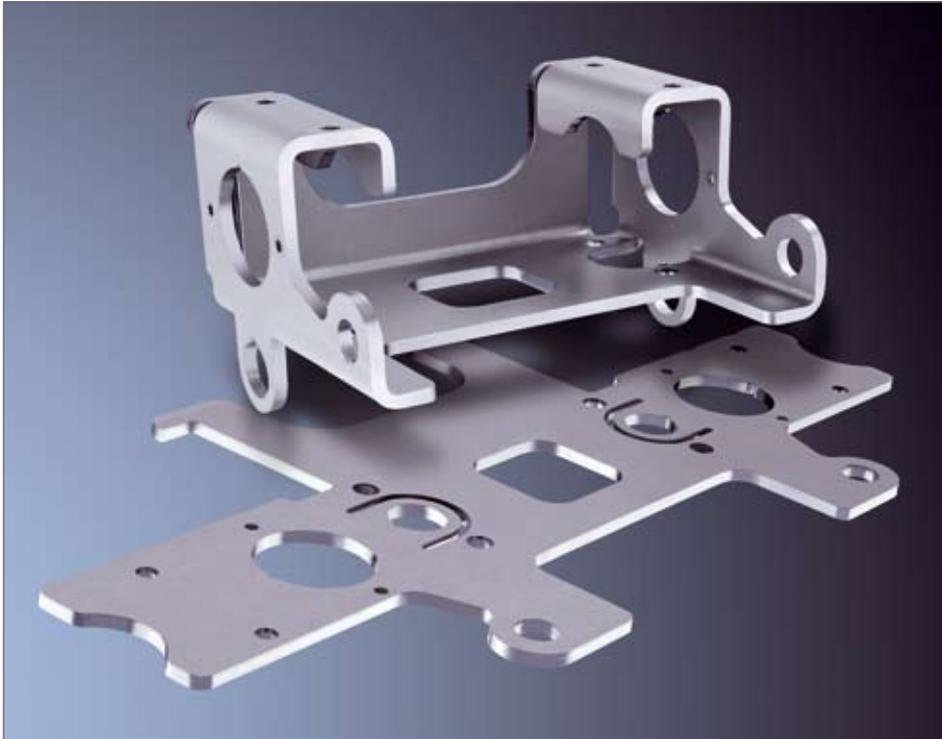
The self-centering TRUMPF tool adapter is an additional time saver. The machine does not have to stop for the tools to be aligned. As an alternative, Amada or American style tool clampings can be selected as basic equipment.

The control system can be used to program even complex parts with ease. A two-dimensional color display makes this task very easy to accomplish. The required time is basically limited to the graphic representation of the product profile. Due to its large storage capacity, the control system makes it possible to administer thousands of bending programs in addition to storing material specifications.

The standard setup also includes an oil cooler integrated into the hydraulics system as well as a stainless steel oil tank.

Machine Concept

Precision Through Innovation



Precision starts with the design of the machine. The extremely robust machine frames of the TrumaBend C-Series are made of high-strength steel and are calculated using FEM (finite element method). After they have been welded, they are annealed, sandblasted, and painted with multiple layers. The innovative, patented four-cylinder drive concept offers several advantages:

- Optimum part quality – beam deflection is minimal.
- Excellent part flexibility, since few collision contours are formed.
- The spherical beam suspension preserves the cylinders.
- Encoder measuring rods continuously control the position of the beam.

Due to the large bending clearance you can bend even large or complex parts easily, providing the flexibility to work on a wide variety of orders. Side doors and rear roll-up gates make it easy to access the machine's interior and save floor space. The CNC stop system ensures the precise position of the printed circuit board during the bending process and makes sure the sides are exactly as long as they should be.

Flexible CNC Stop System

Exact Positioning for Perfect Bending



The position of the back stop fingers for the standard 2-axis system can be freely programmed in the X and R direction. The operator manually moves the stops in the Z direction where the push of a button is sufficient to move the stops in front of the bending line. After that, they can be safely positioned by hand and moved to the working position at the touch of a button.

The stop fingers use the 4-axis system, which is available as an option, to move into the Z direction in a program-controlled manner. The 4-axis system is particularly recommended when work pieces are produced at several stations throughout the entire bending length of the machine. In the process, productivity increases significantly, since the stop fingers can quickly and automatically be moved to the next position.

Tool Clamping

Flexible, Fast, Reliable

The TrumaBend C-Series offers you the choice between clamping systems for TRUMPF, Amada or American style tools – enabling you to continue using the tools you have. The TRUMPF tool holder system offers a range of advantages, regardless of whether clamping is manual or pneumatic:

- The tools are self-centering, no reference stroke is required and the tools can be used when they are rotated 180°.

- Upper tools that are fitted with Safety Click can be set up in the vertical direction in a very short period of time.
- The clamping device accommodates head and shoulder-carrying upper tools.

The C-Series comes standard with a manual screw-type clamping device. As an option, the manual “Quick Clamp” clamping device or a pneumatic clamping device is available for upper and lower tools.



Machine Control

Simple and Convenient

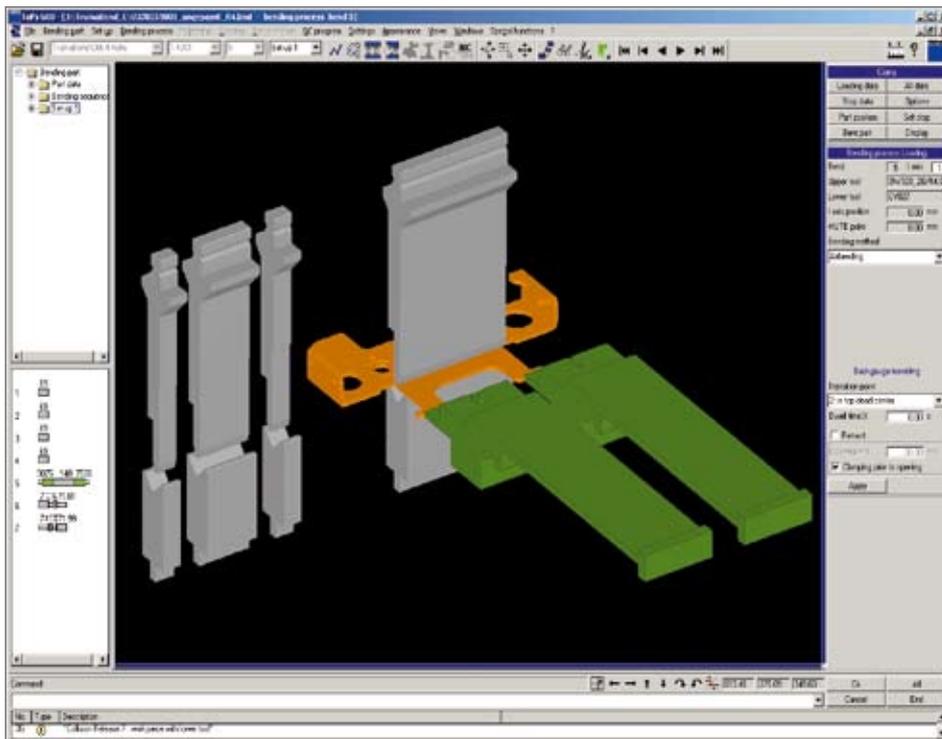
The Microsoft Windows-based control system DA-65TW has a high storage capacity (40 MB) and permits uncomplicated, “graphic” programming. The operator sketches the desired bending profile on the display. Then the control system automatically calculates the bending sequence and creates a bending program taking stored bending factors into consideration. In the event of complicated parts, it is possible to manually position the axes carefully using the hand-controlled wheel.

The operator can program both directly at the machine and on a separate PC. Additionally, the machine panel can be tilted into the most comfortable ergonomic position. Thanks to the flat screen LCD with color display and optional 3D-visualization, the operator can always keep track of the process. A USB interface is available for keyboard, mouse, and data transfer.

The control system also provides Internet access, so that you can always benefit from TRUMPF Info-Service and order tools or replacement parts in our E-Shop.



Programming No Problem with ToPs 600



The ToPs 600 option is a technology-oriented programming system that fully supports the operation of the TrumaBend C-Series. It recommends bending sequences, creates setup plans for your specific tools, and simulates the entire bending process. An extensive database for managing programs, bending tools, and correction factors helps with your daily tasks.

ServicePlus Good Advice Means Customized Advice



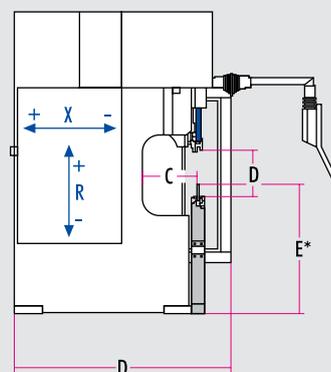
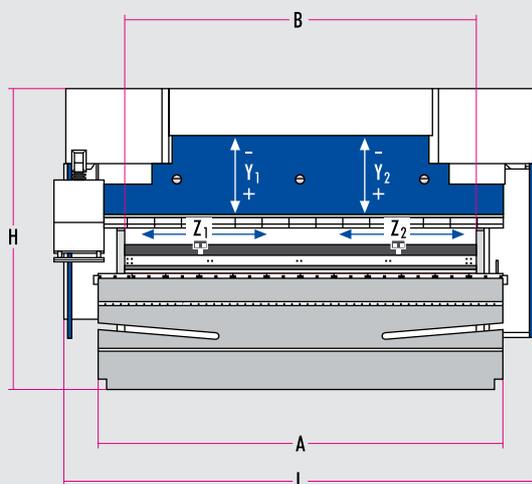
TRUMPF provides you with customized service and support during the entire life of your machine.

We will consult with you in detail before you make a decision to buy. As a result, you will receive a machine that fulfills your requirements to the greatest extent possible. There are many financing and leasing options available for your purchase. After delivery your TrumaBend is ready for operation within a very short period of time. From then on, we will maintain your machine and retrofit new options upon request. We will even come to your facility to optimize machine parameters. We will also train you in the most current technology, so that you can take full advantage of your press brake's potential. And our designers will help you to improve your parts in terms of cost, production, and function. Should you need a replacement part, our service is available to you around the clock, worldwide. And if you want a brand new unit, we will be more than happy to help you modernize your machine fleet and sell your used machines.

Technical Data

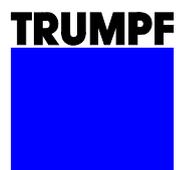
Machine	TrumaBend C66	TrumaBend C120
Press tonnage	660 kN	1200 kN
Stroke (Y1/Y2)	200 mm	200 mm
Max. installation height	432 mm	432 mm
Usable installation height (D)	347 mm	347 mm
Inclined position of beam	± 3 mm	± 3 mm
Bending length (A)	2,080 mm	3,110 mm
Free frame opening (B)	1,750 mm	2,690 mm
Working range (C)	420 mm	420 mm
Table width	80 mm	100 mm
Working height (E) with die 100 mm	1,000 mm	1,000 mm
Max. back stop area in X	880 mm	880 mm
Travel in X-axis	600 mm	600 mm
Max. travel speed in X	500 mm/s	500 mm/s
Travel in R-axis	340 mm	340 mm
Max. travel speed in R	200 mm/s	200 mm/s
Max. travel speed in Z (option)	1,000 mm/s	1,000 mm/s
Max. Y-quick motion	200 mm/s	115 mm/s
Max. Y-working speed	20 (10 [*]) mm/s	15 (10 [*]) mm/s
Max. Y-retraction speed	180 mm/s	135 mm/s
Drive motor	11 kW	11 kW
Oil filling (approx.)	100 l	200 l
Weight (approx.)	5,400 kg	8,300 kg
Dimensions (L x D)	2,600 x 1,750 mm	3,600 x 1,750 mm
Total machine height (H)	2,330 mm	2,330 mm

* Europe



* for a tool height of 100 mm

TRUMPF is DIN EN ISO 9001 and VDA 6.4 certified.



TRUMPF Werkzeugmaschinen
GmbH + Co. KG
Johann-Maus-Strasse 2
D-71254 Ditzingen · Germany

Telephone: +49 (0) 7156 303-0
Fax: +49 (0) 7156 30 33 09
e-mail: info@de.trumpf.com
Internet: www.trumpf.com