



TruBend:

More bending
freedom.

Why TruBend is better.



Precise results whatever the format.

The right machine for every part geometry.

TruBend bending machines enable you to process parts of any geometry economically and with high-quality results. The advantages for your business include:

- Wide choice of machine configurations.
- Numerous press forces and working lengths.
- Wide variety of equipment options for back gauges, controls, and handling accessories.
- Choice of air bending, bottom bending, and precision-angle bending with ACB.

efficiency+

Our twofold objective is to work cost-efficiently and responsibly at the same time – our efforts to make sustainable use of resources underscore this objective.

- On-Demand Drive: main drive runs only during bending process to reduce energy consumption and noise emission.
- Modern hydraulic oil to eliminate the need for frequent oil changes.
- Innovative flow manufacturing to economize resources when assembling TruBend machines.
- ACB to automatically control bending angles and minimize rejects.

Cost-effective bending thanks to high productivity.

TruBend machines enable you to minimize your cost per part. Several factors contribute to this cost-saving effect:

- High-speed axis travel.
- Minimum tool setup time.
- Automatic tool clamping systems – compatible with other tool brands.
- Intelligently designed safety systems.

Top-quality parts.

With TruBend machines, you achieve precise results every time.

- Precision guaranteed by heat-treated, stable machine frame.
- Optimal press-force transfer using patented 4-cylinder drive concept.
- Identical angle over the entire length of the bend thanks to integrated CNC crowning.

Ease of operation and ergonomic design.

The interaction between operator and machine is a decisive factor in bending. That is why TruBend machines are designed with the operator in mind, to lighten the workload:

- Individually selectable control settings.
- User-friendly man-machine interface.
- Ergonomic bending supports and consoles.
- Remote operation with Mobile Control.
- Simple, vertical tool loading.

Single source for all requirements.

TRUMPF develops and manufactures bending machines, bending tools and automation solutions – making interface problems a thing of the past.

- TRUMPF LASERdur quality tools – also made to order.
- Highly advanced machine controls.
- Customized automation solutions.
- TRUMPF software and services.



Bending support in the TruBend Series 5000.



LED lighting used in the TruBend Series 7000.



Lower tool holder system for the TruBend Series 5000.



Footrest available with the TruBend Series 7000.

TruBend Series 3000

TruBend Series 3000:
Benefits at a glance.

- 1 Cost-efficient, even when operated at low capacity.
- 2 Configurable to your specific requirements.
- 3 Simple-to-operate, well-designed controls.
- 4 High positioning accuracy due to 4-cylinder drive.
- 5 Choice of tool clamping systems.



We offer a variety of different back gauge systems.

Economical basic machine.

The TruBend Series 3000 can either be your entry into precision bending with TRUMPF technology or it can expand your high-end machinery to include a flexible auxiliary machine. At an affordable price, it offers precise results, the best safety standards, and is very easy to operate – even for first time users. Your profitability is assured, even when operating at low capacity.

Well positioned.

The back gauge ensures that the metal blank is always positioned accurately. You can select from a variety of equipment options, depending on the type of parts you manufacture. In the standard version, TruBend Series 3000 machines are equipped with a 2-axis back gauge. As an option, this can be upgraded to 4 or 5 axes, enabling you to process almost any complex part geometry.



Patented 4-cylinder drive system.

Precisely bent parts.

The flat-front design of the patented 4-cylinder drive system provides generous edge clearance in the operating zone. Because the bending force is applied simultaneously at numerous points along the length of the workpiece, the ram is highly resistant to buckling. In combination with automatic crowning, you have the best possible conditions for achieving a precise result over the whole length of the bend.

Compatible with many tool brands.

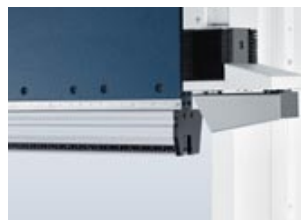
The TruBend Series 3000 allows you to choose from different tool clamping systems to suit your particular application. If necessary, other tool brands can be accommodated without requiring an adapter. As a result, you can save money by continuing to use your existing tools when you switch to a TRUMPF machine.



Segmented manual clamp with hexagon socket.



Quick Clamp – Segmented manual quick clamp.



Pneumatic clamp of one piece.



Segmented pneumatic clamp.



Technical data			
	TruBend 3066	TruBend 3120	TruBend 3180
Press force	660 kN	1200 kN	1800 kN
Bending length	2080 mm	3110 mm	4140 mm
Width between columns	1750 mm	2690 mm	3680 mm
Maximum table/beam distance	432 mm	432 mm	432 mm
Usable installation height	347 mm	347 mm	347 mm
Throat	420 mm	420 mm	420 mm
Operating height ^[1]	1000 mm	1000 mm	1000 mm
Inclination of beam	± 3 mm	± 3 mm	± 3 mm
Speeds^[2]			
Y rapid	200 mm/s	200 mm/s	200 mm/s
Y working	10 bis 20 ^[3] mm/s	10 bis 18 ^[3] mm/s	10 bis 15 ^[3] mm/s
Y return traverse speed	180 mm/s	180 mm/s	180 mm/s
X axis	500 mm/s	500 mm/s	500 mm/s
R axis	250 mm/s	250 mm/s	250 mm/s
Z axis	1000 mm/s	1000 mm/s	1000 mm/s
Precision			
Y axis position accuracy	0.01 mm	0.01 mm	0.01 mm
X axis position accuracy	0.05 mm	0.05 mm	0.05 mm
R axis position accuracy	0.1 mm	0.1 mm	0.1 mm
Working range			
Y axis stroke	200 mm	200 mm	200 mm
Travel Path X axis	600 mm	600 mm	600 mm
Max. gauge area in X	880 mm	880 mm	880 mm
Travel Path R axis	320 mm	320 mm	320 mm
Control	T 3000	T 3000	T 3000
Connection values			
Connected load	14.5 kVA	23 kVA	23 kVA
Oil capacity (approx.)	ca. 100 l	ca. 200 l	ca. 250 l
Dimensions and weight			
Length x Width	2600 x 1750 mm	3600 x 1750 mm	4610 x 2000 mm
Height	2330 mm	2330 mm	2330 mm
Weight	5400 kg	8300 kg	13200 kg

^[1] For tools with an effective height of 100 mm. May vary according to the size of the tool support.

^[2] Speeds freely programmable.

^[3] Depending on selected lower tool opening and application.

May vary in accordance with local regulations.