

More bending freedom.





The best bending solutions.

Contents

The best bending solutions.	_2
Why TruBend is better	_4
TruBend Series 3000	_6
TruBend Series 5000	_10
TruBend Series 7000	_18
TruBend Cell	_22
ToolShuttle	_23
Bending tools	_24
Press force calculator.	_25
Software: Programmed for success	_26
TruServices: Service like no other	_27

TruBend machines incorporate a wealth of experience in press brake technology coupled with pioneering innovations. They enable you to fabricate parts in any format, from the simplest to the most complex, precisely and cost-effective.

TRUMPF has been designing and manufacturing press brakes since 1989. Among the most important developments are the ACB angle measuring system, patented 4-cylinder drive technology, machine control unit and operator ergonomics with innovative details such as the MagicShoe. TRUMPF leads the field in programming convenience and ease of operation. TruBend machines are renowned above all for their flexibility, finished part quality, and high cost-benefit ratio. Moreover, TRUMPF can meet all of your additional requirements – for tools, automation and software – from a single source. Designed for years of continuous operation at full capacity, TRUMPF press brakes are favored by industrial customers the world over.

TruBend: Benefits at a glance.

1	The right machine for every part geometry.
2	Cost-effective bending thanks to high productivity.
3	Parts of the highest quality.
4	Single source for all requirements, including top-quality tools.
5	Ease of operation and ergonomic design.





TruBend Series 3000

Economical standard machine.

The right choice for users who value TRUMPF quality, simple operating procedures, and a favorable cost-performance ratio.



TruBend Series 5000

Productive jack of all trades.

High productivity throughout, from programming and tool setup to the bending process. The TruBend Series 5000 is capable of performing bending work on a wide range of parts, always with the greatest precision.



TruBend Series 7000

Ergonomic high-speed machine.

Incorporating innovative features for high-speed bending of small and larger parts under optimized working conditions.

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.
- Choice of air bending, bottom bending, and precision-angle bending.
- Exact positioning thanks to 2-, 3-, 4-, 5- or 6-axis backgauge systems.



The BendGuard can easily be pushed to the rear making it possible to load from the side.



The MobileControl reduces the need to walk around.



The OCB accelerates angle measurement.

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 axis and working speeds.
- Minimum tool setup time.
- Automatic tool clamping systems.
- Energy-efficient drives.
- BendGuard: Maximum speed and optimum safety.

Top-quality parts.

With TruBend machines, you achieve precise results every time.

- The stable machine frame guarantees precision.
- Precise angles every time thanks to integrated CNC crowning.
- Precise results thanks to ingenious angle measuring systems.

Single source for all requirements.

TRUMPF does not only develop and produce press brakes. We also provide:

- TRUMPF LASERdur quality tools.
- Highly advanced machine controls.
- Customized automation solutions.
- TRUMPF software and services.

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.
- Less walking due to the MobileControl.
- Simple, vertical tool loading.
- Revolutionary easy stroke triggering thanks to the MagicShoe.



The footrest increases operator ergonomics.



LED lighting ensures optimal visibility.



2D code scanner facilitates program selection.



Efficient consultation thanks to provision of teleservices.

TruBend Series 7000

TruBend Series 7000: Benefits at a glance.



Working without fatigue at the TruBend Series 7000.

Ergonomic high-speed machine.

The TruBend Series 7000 is a perfect example of the coordinated interaction between operator and machine. You can be sure of achieving outstanding productivity at every stage of the process thanks to its high speed and acceleration, and the optimized working environment provided by its ergonomic features. It is a particularly cost-effective solution for bending small- and medium-sized parts.

Certified ergonomic quality.

Human factor engineering played a significant role in the conceptual design of the TruBend Series 7000. As a result, the machines are a pleasure to use, operators can work quickly and efficiently, and part quality is consistently high. It is the first press brake to be awarded a quality certificate specifically for its ergonomic design.

Better quality assurance.

An integrated bending line laser projects a line of light onto the surface of the sheet metal, indicating precisely where it will be bent and enabling the operator to verify that the workpiece is in the correct position.



The integrated bending line laser ensures spot-on positioning.

Outstanding productivity.

The gearless, direct-drive motor delivers high torque even when rotating at low speed – the optimum requirements for achieving a high press force coupled with a high throughput rate. This extremely energy-efficient electric motor helps you to reduce energy costs.

Maximized, multiaxis dynamics.

The time required to bend small parts depends only partly on the operating speed of the ram. An even more important factor is the acceleration of the backgauges. To enable them to be positioned more rapidly, they are built to a special design using a lightweight, stable carbon-fiber material. The machine can operate much faster because the mass it has to move is significantly lower. The system is available with either 3 or 6 axes.

The user-friendly touch screen with intuitive menus can be tilted to avoid reflections.





Technical data

Press force180 kN360 kNBending length510 mm1020 mmWidth between columns422 mm932 mmMaximum table/beam distance420 mm420 mmUsable installation height295 mm295 mmThroat150 mm150 mmOperating height ⁽¹⁾ 1150 mm150 mmOperating height ⁽¹⁾ 1150 mm150 mmSpeeds ^[2] 7 vapid220 mm/sY rapid220 mm/s220 mm/sY vorkingmax. 25 mm/smax. 25 mm/sY return traverse speed220 mm/s330 mm/sX axis1000 mm/s1000 mm/sR axis330 mm/s330 mm/sZ axis1000 mm/s1000 mm/sPrecision0.02 mm0.02 mmX axis position accuracy0.02 mm0.02 mmX axis position accuracy120 mm120 mmTavel path X axis75 mm500 mmI'm X500 mm5 kVA6 kVAConnected load5 kVA6 kVA<		TruBend 7018	TruBend 7036																																																																	
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	Weight	1800 kg	2600 kg																																																																	

^[1] For dies with a height of 100 mm.

^[2] Speeds freely programmable.

Subject to alteration. Only specifications in our offer and order confirmation are binding.

TruBend Cell

Productive all-purpose bending cell.

TruBend Cell 5000 enables you to process parts cost-efficiently and achieve high productivity. The BendMaster relieves the operator of many onerous tasks, especially when processing large and heavy workpieces weighing up to 100 kg. The bulk of the work is handled by the machine – working around the clock, seven days a week, if necessary. You can always rely on our automated bending solutions to produce parts of a consistently high quality.



Innovative high-speed bending cell.

Ideally suited for the automatic bending of small parts, the TruBend Cell 7000 is the compact solution for fabricators looking to increase their productivity. The innovative bending units are a unique feature of the machine, with their lightweight backgauges and modern drive concept. All in all, the TruBend Cell 7000 is the fastest bending cell in its class.



ToolShuttle



The right tool always at hand.

The tool shuttle quickly and ergonomically sets up your tools and accommodates 160 linear meters of bending tools. The compact tool storage can directly supply up to two bending machines, with the transfer carriage transporting the tools to the machines.

The tools are stored in drawers and automatically provided. In the process the tools are provided in setup position and at the right height, so the operator is optimally assisted. No time is lost looking for and transporting tools anymore, and setup times are reduced to a minimum. This will save you 60% time with every tool setup operation.

Bending tools.

Tailored to your requirements.

Bending tools from TRUMPF enable you to meet any challenge, however complex it may be. They are backed by the extensive experience of our experts, who are always there to help you:

- Customized advice and tailored design solutions.
- Development and testing of applicationspecific systems.
- Fast availability.
- High precision and a long service life.
- A single source for machines and tools.

Bending tools from TRUMPF live longer.

Precision and quality are the characteristics that count when manufacturing bending tools. Our unique LASERdur technique results in extremely hard-wearing tools. We use a laser hardening process to selectively strengthen tools in those areas that are most subject to wear.

Flexible standard tools.

We offer a range of over 150 punches and dies from which to choose those best suited to your application. And, you are free to decide whether you wish to order a complete set or compile your personal selection.

Custom-designed tools.

If your requirements are out of the ordinary, TRUMPF will develop a customized tool solution, just for you. To ensure that it meets the quality requirements for your parts, we will test the tools using the materials you specify and produce prototype parts for you to evaluate.



The LASERdur process used to harden the tools.



Everything you need from a single source.

Measuring tools.

We can provide automeasuring tools based on our proven ACB system for almost every standard tool in our range. Sensor disks incorporated in the forming tool send back measurement data directly from the operating zone. With ACB, you can reproduce angles of the highest accuracy.

Press force calculator.

TRUMPF calculation table.

The charts allow you to simply read off the required bending force (F) for a part measuring 1 m in length. The necessary force varies as a function of the sheet thickness (s, vertical scale) and the selected width of the die opening (w, horizontal scale). The tables also show the minimum leg length (b) and the inside radius (Ri) associated with the selected die size (w, width of die opening).



Calculation table also available as app.

													\wedge	F				
		Press force required for 90° air bend																
d steel		6	8	10	12	16	20	74	30	40	50	60	70	80	90	100	120	W
N/mm ²	s	4.5	6	7.5	9	12	15	18	22.5	30	37.5	45	52.5	60	67.5	75	90	b
· IN/11111		1	1.3	1.6	1.9	2.6	3.2	3.8	4.8	6.4	8	9.6	11	13	14	16	19	Ri
	0.75	52	39	31	26													
	1	93	70	56	47	35												
	1.25	145	109	87	73	55	44											
	1.5	209	157	126	105	79	63											
	1.75		214	171	143	107	86	71										F/m
	2			223	186	140	112	93										<
	2.5				291	218	175	145	116									
	3					314	251	209	168	126	407							
	3.5					428	342	285	228	1/1	13/	140						-
	4						447	372	298	223	1/9	149	102					-
	4.5						000	471	3//	283	220	189	200	175				-
	5								400	549	2/9	233	200	1/5	222			-
	7								070	684	547	456	207	201	223	274		-
	8									084	715	596	511	447	304	358	298	-
	10										715	550	798	698	621	559	466	-
	10												750	1005	894	804	670	-
															051	001	0.0	
nless steel	4	6	8	10	12	16	20	24	30	40	50	60	70	80	90	100	120	w
N/mm ²	S	4.5	6	7.5	9	12	15	18	22.5	30	37.5	45	52.5	60	67.5	75	90	b
N / 11111		1	1.3	1.6	1.9	2.6	3.2	3.8	4.8	6.4	8	9.6	11	13	14	16	19	Ri
	0.75	87	65	52	44													
	1	155	116	93	78	58												1
	1.25	242	182	145	121	91	73											
	1.5	349	262	209	175	131	105											
	1.75		356	285	238	178	143	119										F/m
	2			372	310	233	186	155										<
	2.5				485	364	291	242	194									
	3					524	419	349	279	209								_
	3.5						570	475	380	285	228							_
	4							621	497	372	298	248	260					
	4.5								628	471	377	314	269	201				_
	5									582	466	388	333	291				-
	6									838	6/0	559	4/9	419	507			-
	/										912	760	052	570	507	FOC		_
	8										1192	993	851	145	662	596		-
	10												1		1/1 / /	() 17	/ //	

s, w, b, Ri in mm

= optimum die opening

Programmed for success.



TruTops Boost takes you faster than ever from the geometry to the NC program.

TRUMPF's TruTops Boost is the software solution for designing and programming laser, punching and bending machines that lets you increase your performance at the touch of a button. The software combines all order processing steps, from the geometry through to the completed NC program, in a single all-in-one solution. Its new operating philosophy guides you through the software in a simple, process-oriented manner while allowing you to keep an overview of your orders. Thanks to its numerous automated functions, the innovative Boost technology also makes you unbeatably fast. With it, you become more profitable and boost your business!

Talk to your TRUMPF contact to find out when TruTops Boost will be available to you. Until then, our TruTops Bend software can offer you optimum support. We recommend our TruTops Fab software as the ideal production control system for your requirements.

TruTops Boost: Your benefits at a glance.

- From geometry to NC program faster than ever before.
- Everything monitored: Single software solution for all order processes.
- Everything under control: Intuitive user interface supports flexible working.
- Everything faster: Boost technology with productive automated functions.
- Innovative Boost technology + new operating philosophy = TruTops Boost

TruServices:

Service like no other.

Throughout the lifecycle of your machine.



Regardless of the TRUMPF technology you use, you will always get the best service. Thanks to the award-winning spare parts logistics at TRUMPF, we guarantee the highest availability of spare parts and provide you with all the products in the shortest time. TRUMPF offers you individual financing solutions quickly and without a lot of paperwork. Our service technicians are highly trained and always available when you need them. A Service Agreement is the ideal way of ensuring the highest availability of your machine. Should your requirements change, we have flexible upgrading options and technical innovations that will make your machine even better. Our broad range of training courses with experienced trainers and hands-on practice will also give you a head start in understanding and operating your machine.

The TRUMPF Group ranks among the world's leading manufacturers of production technology and industrial lasers. Technical and efficient solutions for our customers have been our focus since 1923. As a leading technology supplier, TRUMPF is a one-stop shop for all of your technology needs: machines, automation, storage technology and services.

TRUMPF is certified according to ISO 9001:2008

(for further information see www.trumpf.com/en/quality)

