



TruPunch 1000 and
TruMatic 1000 fiber

The first machine
concept that grows
with you



Starting out and scaling up

Is it worth the risk? That's the question many companies ask themselves before taking the plunge into the world of industrial sheet metal processing, especially when it comes to punch laser processing. That's why TRUMPF has developed a machine that relies on an economical modular solution to minimize your investment risks. This modular design means you can upgrade your punching machine to an automatic punching machine or even a punch laser machine whenever the time is right. The flexibility of this approach will help your company grow faster than the competition, paving the way to a successful future.

“Sheet metal processing sounds lucrative, but I can’t be sure how business will go in the future.”



We understand – so that's why we've developed an affordable machine to keep you flexible. You can opt for punching or punch laser processing, with or without automation, depending on how well business is going.



“Material handling takes up so much time and manpower!”



Absolutely. That’s why you need a professional automation system to fully exploit your machine’s potential. Discover solutions for loading, unloading, and part sorting that are unparalleled in their class.



“New machines take up too much space – that’s why we can’t replace the system we have now.”

Space constraints are a problem for many companies, so our developers were determined to keep things compact. Even with automation, this machine concept is still more compact than the other comparable machines currently on the market.





Think big, start small

The first modular machine concept that grows with your success.

Like a lizard going from strength to strength after hatching, this machine grows its capabilities to mirror the success of your evolving business. As you build up experience and your customer base grows, you are likely to receive more complex jobs that could boost your profits. So do you simply turn them down? No way! You simply upgrade your machine, fill those orders, and watch the profits roll in!

1. Cost-efficient punching

The TruPunch 1000 punching machine is your entry point to industrial sheet metal processing.



2. Successful combination

Convert your punching machine into a punch laser machine by connecting up a 3 kW TruDisk solid-state laser. With just a few other adjustments, you'll soon be benefiting from the enormous opportunities offered by a combination of punching, forming, and laser cutting.



3. Earn more – automatically

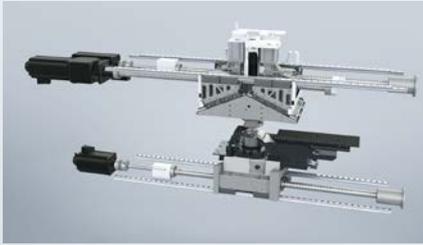
Automation makes your punching or punch laser machine even more productive – and it's a remarkably ergonomic way to get the job done.



With these attractively priced machines, TRUMPF has made it easier than ever for you to incorporate or scale up to new manufacturing methods such as punch laser technology.

01 Delta Drive: the flying punching head

Our development team has come up with a completely new design for the drive in our two 1000-class machines – and it's both compact and dynamic. For the first time, the patented Delta Drive eliminates the need to move the sheet and work table in the Y axis. It achieves this by making the punching head "fly" back and forth, all thanks to a sophisticated drive system.



02 Smart unloading with the part removal flap

A large part removal flap automatically unloads parts up to a format of 400 x 600 mm. A sensor on the part removal flap detects whether the parts fall through the flap. That gives you the reassurance of knowing that all the parts have been properly ejected into containers or onto conveyors or Euro pallets during both punching and laser operations.



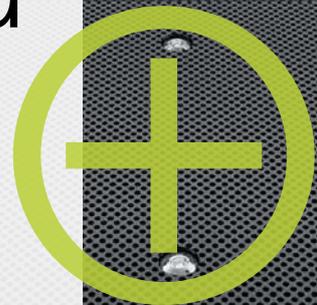
See the Delta Drive in action:
www.trumpf.info/3fzh45



More of what you need

Whatever level of configuration you choose, the TruPunch 1000 and the TruMatic 1000 fiber offer more of what you need.

The automation components are a great example, offering capabilities that are unparalleled in this class of machine.



03 Well sorted – automatically

Your machine can automatically sort parts measuring up to 180 x 180 mm. All the good parts are sent down a chute into a temporary buffer unit. Up to four different boxes can be positioned beneath the machine. The buffer unit chooses the right box and places the parts inside.



04 Compact footprint

Even with automation, the TruPunch 1000 and the TruMatic 1000 fiber take up less space than comparable commercially available machines. So you get a compact powerhouse that slots in even where space is tight.



How the part sorting system works:
www.trumpf.info/bt9jh6



04

Additional automation solution:

The SheetMaster Compact loads small and medium-format sheets and blanks and unloads micro joint sheets and scrap skeletons. It has a load capacity of three tons.



See the SheetMaster Compact in action during loading and unloading.
www.trumpf.info/hcuzdp



TruPunch 1000

The novel punching machine that you can upgrade to a punch laser production cell to match your requirements and order situation.

01

Fast

and cost-effective punching

04

Future-proof

machine that grows with your business

02

Versatile

array of functions and tools

03

Compact

and automated



Technical specifications			
Working area	Nominal working area X axis	mm	2500
	Nominal working area Y axis	mm	1250
Capacity	Max. sheet thickness	mm	6.4
	Max. punching force	kN	165
Speed	Simultaneous (X and Y)	m/min	100
	Max. stroke rate (punching) (E = 1 mm)	1/min	600
	Max. stroke rate (marking)	1/min	1000
Max. axis acceleration (punching)	X/Y axis	m/s ²	10/8
Programmable part ejection system	Max. part size, chute	mm	180 x 180
	Flap size (X x Y)	mm	400 x 1250*

* Reliable ejection of parts measuring max. 400 x 600 mm.

We reserve the right to make changes at any time. Only the information given in our quotation and order confirmation shall be valid.

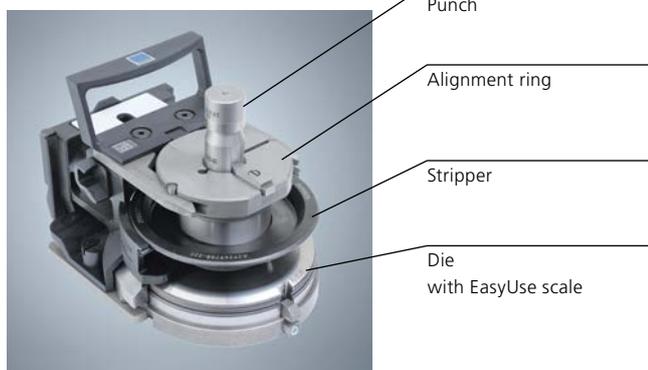
01

Fast

and cost-effective punching

Whether a part calls for contours or formed sections, you can rise to the challenge with a multitude of forms, grinds, and coatings as well as set-up features. The punching head can rotate all the tools to whatever angle is required. And you can make things even more productive with our Multi-Tool punching system, which combines up to ten different punch and die inserts in a single tool. The MultiTool solution is a cost-effective solution for punching multiple small holes in a single part.

The TRUMPF tool system:

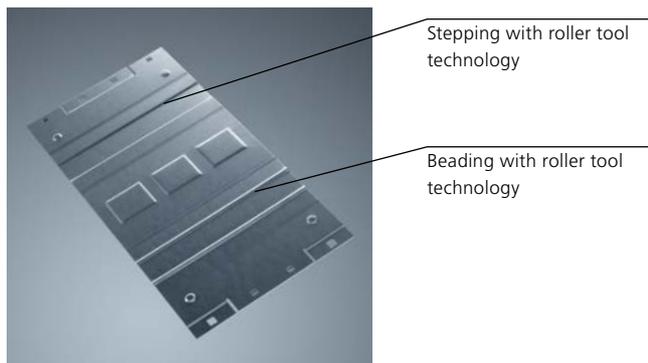


02

Versatile

array of functions and tools

Your machine offers a wealth of sophisticated tools and functions that give it the edge over other systems. With the MultiBend tool, you can create 90 degree bends up to 90 millimeters long. And TRUMPF roller technology can be used to create both straight and curved forms of any length in record time – with no visible nibble marks. Threads, inscriptions, and logos are equally easy to apply directly on the machine using the appropriate tool.

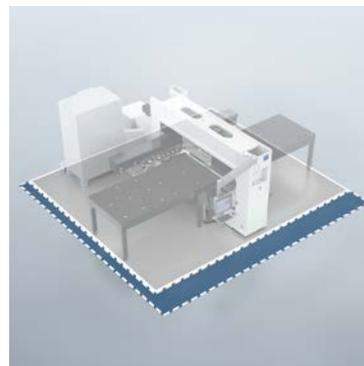


03

Compact

and automated

Compared to previous models, the TruPunch 1000 has a footprint that is up to 15 percent smaller. And with the SheetMaster Compact automatic loading and unloading system, the machine remains very space-saving. The machine also has a container section, which can be used to unload finished parts up to 180 x 180 mm. This can easily be pulled out to carry out further work on the parts. A part removal flap is also available as an option for unloading large parts.



The TruPunch 1000 takes up 15 percent less space than its predecessor.

04

Future-proof

machine that grows with your business

Look ahead to a successful future with the world's first modular machine configuration for punching and laser cutting. It gives you the flexibility to respond to rising demand – so as your company grows, so does your machine.



Retrofitting the laser and other components turns the TruPunch 1000 into a TruMatic 1000 fiber.

TruMatic 1000 fiber

The new laser machine that punches, forms, taps threads and comes with clever automation – all on a very small footprint.

01

Flexible

laser cutting and punching

04

Smart ejection

of laser-cut small parts



02

24 %

smaller footprint*

03

Enhanced reliability and versatility

Solid-state laser

Technical specifications			
Working area	Nominal working area X axis (Combined operation)	mm	2500 (2035)
	Nominal working area Y axis (Combined operation)	mm	1250 (1250)
Capacity	Max. sheet thickness	mm	6.4
	Max. punching force	kN	165
	Laser / output power		TruDisk 3001 (3 kW)
Speed	Simultaneous (X and Y)	m/min	100
	Max. stroke rate (punching) (E = 1 mm)	1/min	600
	Max. stroke rate (marking)	1/min	1000
Max. axis acceleration (punching)	X/Y axis	m/s ²	10 / 8
Programmable part ejection system	Max. part size, chute	mm	180 x 180
	Flap size (X x Y)	mm	400 x 1250 **

* Compared to a TruMatic 3000 fiber.

** Reliable ejection of parts measuring max. 400 x 600 mm.

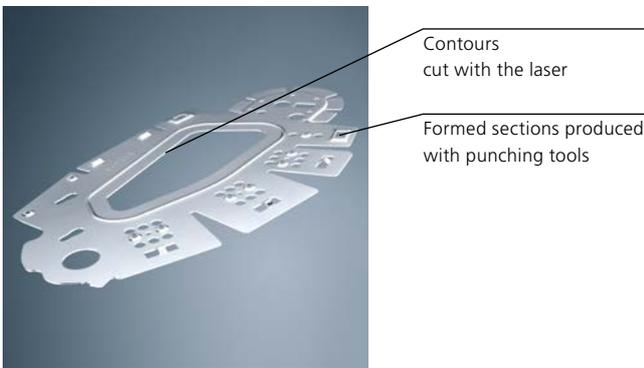
We reserve the right to make changes at any time. Only the information given in our quotation and order confirmation shall be valid.

01

Flexible

laser cutting and punching

TruMatic machines give you all the benefits of punching and laser processing. They enable you to produce a broad range of parts and successfully handle even the most challenging jobs – all on just one machine. The punching head tackles standard contouring and forming tasks, while complex contours are cut by the laser.



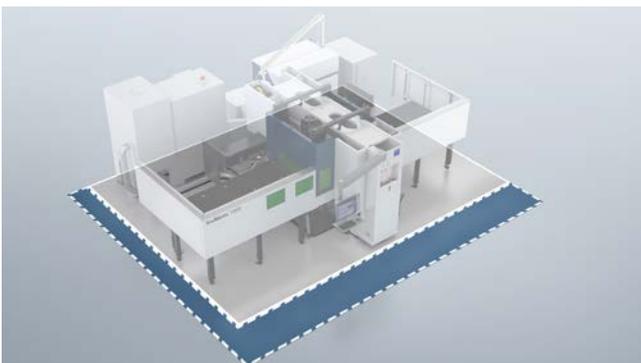
Laser-cut contours, punched contours, and formed sections – all in one part

02

24 %

smaller footprint*

The world’s most compact punch laser machine is 24 percent smaller than its predecessor and incredibly compact – even with automation. That’s partly due to the cleverly designed beam guard system. The machine concept includes sophisticated unloading solutions such as a large part removal flap and small part sorting system.



The intelligent beam guard system comes in a space-saving format, just like the machine itself.

03

Enhanced reliability and versatility

Solid-state laser

Our robust TruDisk laser is a highly productive solution, even for nonferrous metals. The benefits are clear: TruDisk lasers are energy efficient and can be used to full capacity in a laser network: You can use a single solid-state laser to supply multiple TRUMPF machines.



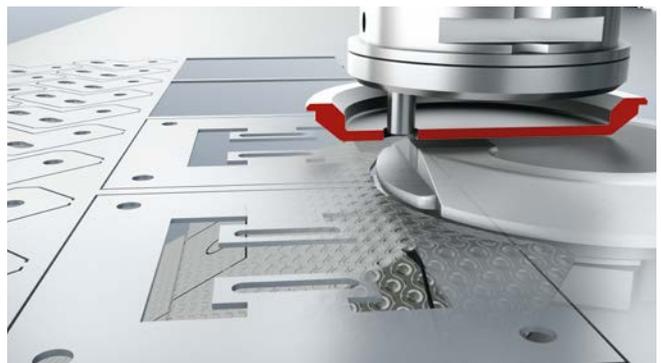
The TruDisk laser is the perfect tool for day-to-day industrial applications.

04

Smart ejection

of laser-cut small parts

The Delta Drive decouples the punch from the die, paving the way for new punching applications. One of the highlights of combined operation is the ability to eject small, laser-cut parts in a reliable and efficient manner. By slightly offsetting the punch the machine prevents small parts from falling through the die into the scrap bin. Instead, these small parts slide down a part chute into the boxes provided for this purpose.



Making things easier: the machine automatically separates small parts into good parts and scrap.

TRUMPF is certified to ISO 9001:2008
(find out more at www.trumpf.info/quality)

Ident no. 2257801_201610_S – Subject to change without notice



TRUMPF Werkzeugmaschinen GmbH + Co. KG
www.trumpf.com