



TRUMPF

HIGHSPEED ECO THE GAME CHANGER

INCREASED THROUGHPUT, REDUCED CONSUMPTION

> How do you win a race? You leave out the pit stops.

The best laser cutting machine is of little use if it's at a standstill. Laser cutting is like racing: For successful results, you need more than a powerful engine – it's the engine tuning that brings the full potential to the road. A good machine must work without any intermediate stops and without having to be manually readjusted. It needs to be in control of the entire cutting process.

> The number of kW and the machine must harmonize.

In motor racing, the power that the car actually brings to the road is what is important. Exactly the same applies to laser cutting: Only with a sophisticated machine concept, whereby all components are designed to be compatible with each other, can the laser and the machine apply full power to the sheet. At TRUMPF, the machine, the laser and the functions are perfectly compatible. Not least because we develop and build all components for our machine ourselves.

* TRUMPF TruDisk 8001 laser with Highspeed Eco
These figures are average values and refer to a typical sheet mix of simple, average and complex parts in various sheet thicknesses.



▮ This is how Highspeed Eco can improve your processes:

Extremely fast

- Productivity and feed speed increased by up to 100%
- Shortest piercing time and maximum acceleration

Extremely robust

- Even on uneven ground
- Resistant to spatter and collisions

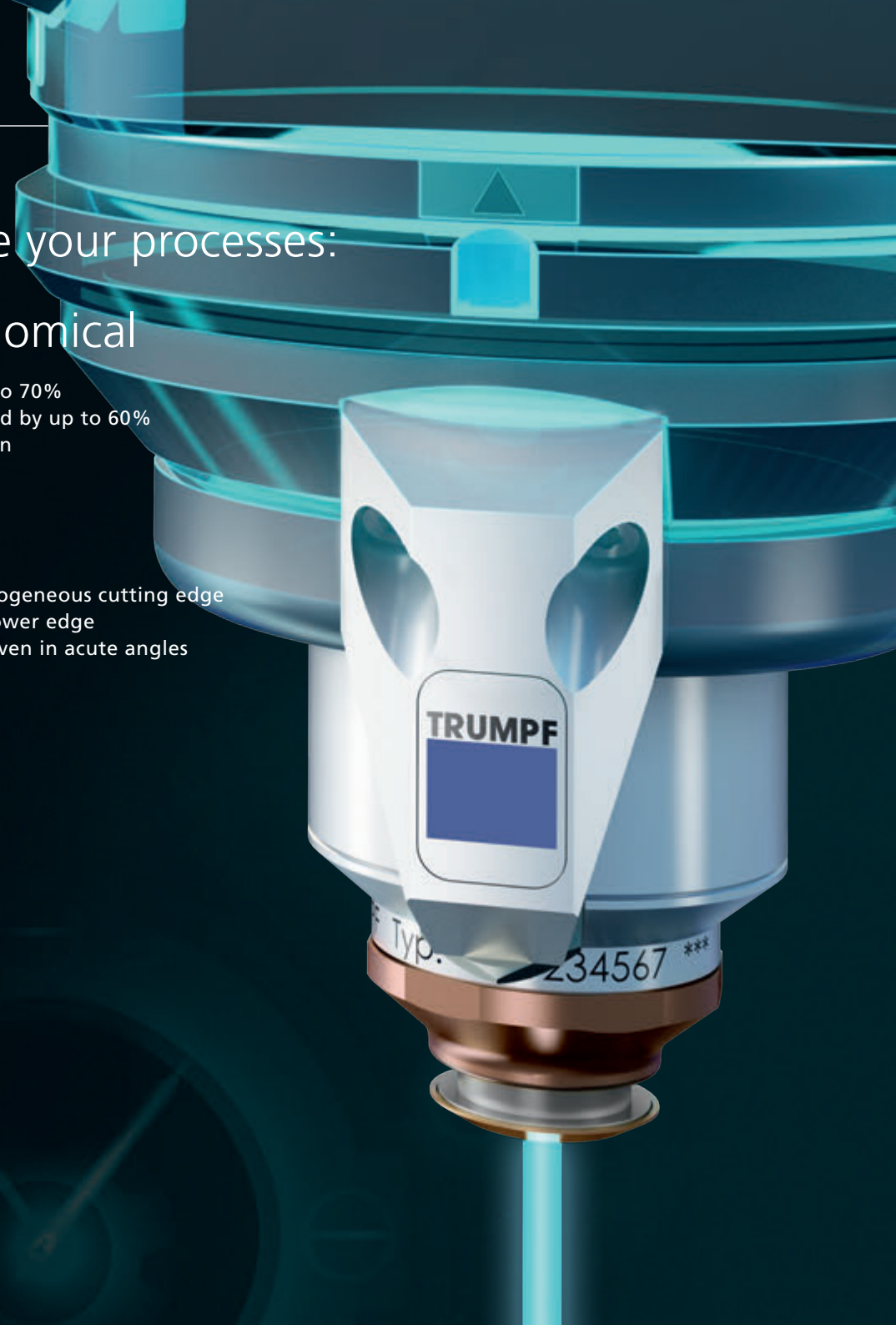
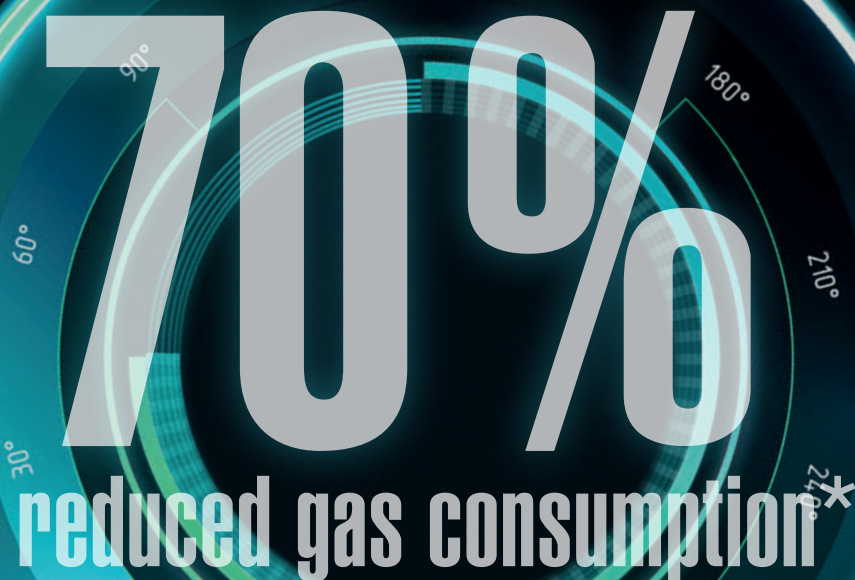
Extremely economical

- Cutting gas reduced by up to 70%
- Cutting gas pressure reduced by up to 60%
- Reduced power consumption

High-quality

- Extremely smooth and homogeneous cutting edge
- Minimal oxidation on the lower edge
- Minimum burr formation, even in acute angles

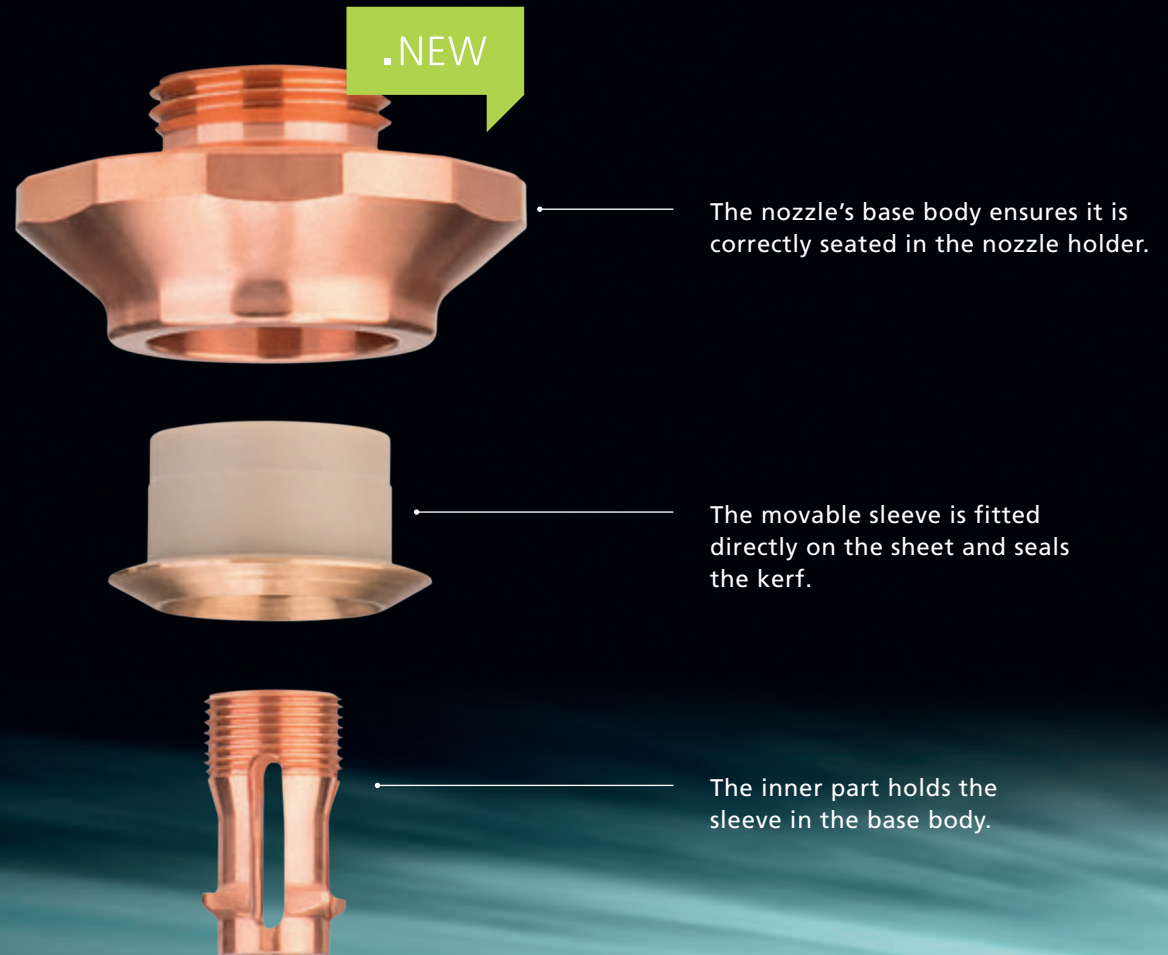
70%
reduced gas consumption*



ONE NOZZLE FOR THE ENTIRE RANGE OF APPLICATIONS

▶ Modular structure of the touchdown nozzle*

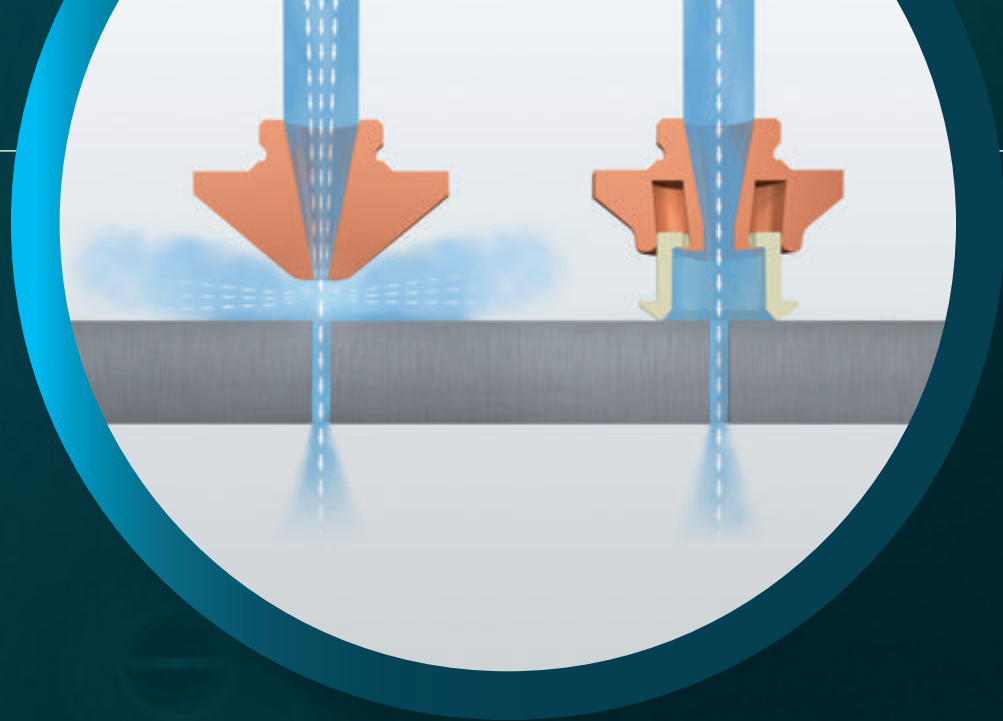
The sleeve is movable and tiltable, and the inner part is positioned at a considerable distance from the sheet. This means that the sleeve glides effortlessly over high mounds of material thrown up on the sheet, caused by piercing the sheet. At the same time, this material can be removed without difficulty.



* The design of the touchdown nozzle has been patented.

> Like out of a wind tunnel – optimized aerodynamics

The sleeve seals the kerf. As a result, the cutting gas is blown into the kerf in parallel and more efficiently; this reduces burr formation and slag adhesion. The feed speed can therefore be drastically increased and the approach length shortened – without compromising on quality.



> In the end, the best overall package will win

In the race for parts throughput, quality and profitability, it's not just the seconds you spend on laser cutting that count, it's also the hours and minutes you spend setting up, sorting parts or eliminating process faults. Place your trust in a powerful package that will take you to the next level on a permanent basis, with which you can manufacture high-quality goods quickly and cost-effectively.

The TruLaser 5030 fiber with the highly robust 8 kW laser TruDisk 8001 – a machine that will give you maximum productivity in the long term. It can be equipped with Highspeed Eco and numerous intelligent functions which ensure that laser cutting with TRUMPF is of unmistakable high quality and that your process is truly reliable.



> Your stable cutting process: With no compromises

During a cutting process, complex situations can occur in which your parts may be damaged and during which you lose time and money. The intelligent functions from TRUMPF minimize these risks or eliminate them completely.



SITUATION:

Parts need to be reproduced.

TRUMPF SOLUTION:

Normally, this is a slow and uneconomical task, but one which can be achieved quickly using Drop&Cut: You simply drag the remaining parts to your current sheet using the mouse.



SITUATION:

Back reflections.

TRUMPF SOLUTION:

Thanks to its design, the TRUMPF TruDisk disk laser offers extremely robust protection against back reflections, regardless of which metal you are machining.

SITUATION:

Unknown cutting problems

TRUMPF SOLUTION:

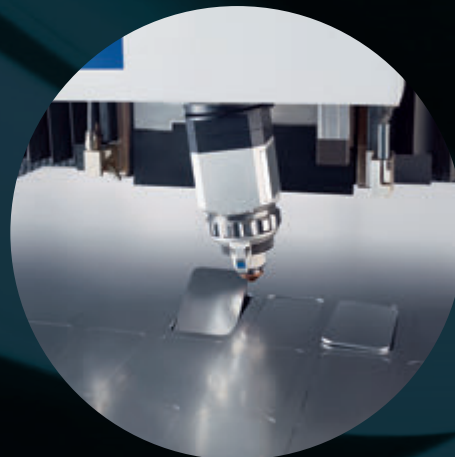
Don't know how to continue? Smart Beam Control can help: If necessary, it adjusts the position of the laser focus.

SITUATION:

Danger of collisions.

TRUMPF SOLUTION:

The narrow cutting head generally ensures there are fewer collisions than with comparable machines. There are also helpful functions such as Smart Collision Prevention, which can help you minimize the risk of collision. But if collisions do occur, the reversible collision prevention function will prevent damage to the machine.



SITUATION:

Nozzle needs to be changed.

TRUMPF SOLUTION:

The automatic nozzle changer is easy to use and extremely reliable: The nozzles are screwed in and then replaced once they have been changed, whereby their condition is automatically monitored.



You are optimally protected in every process step and optimally prepared for every situation – such smooth laser cutting is possible only with TRUMPF. You can confidently forgo any tedious pit stops and simply drive to your destination without having to take a break.

We would be happy to test your individual parts as part of a time study.

TRUMPF is certified to ISO 9001
(Find out more: www.trumpf.com/s/quality)

For more information on Highspeed Eco:
www.trumpf.com/s/highspeed-eco



HIGH SPEED ECO