

# LASER CUTTING WITHOUT LIMITS.



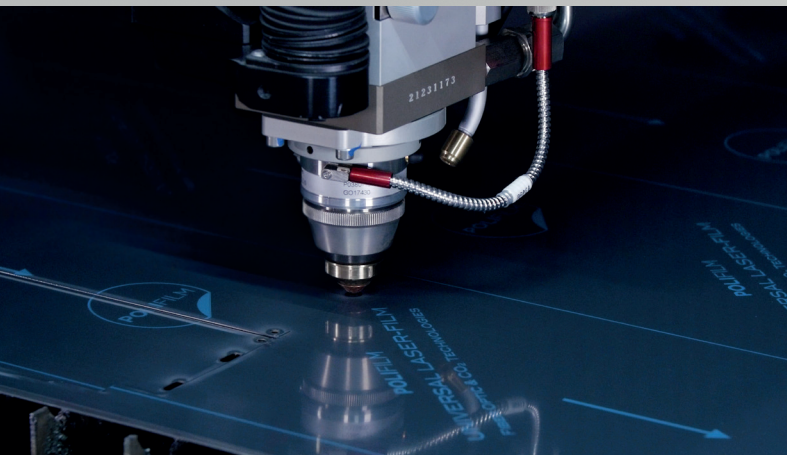
PF84CS

A new generation of laser protection films from POLIFILM PROTECTION allows the fibre laser to be operated at full speed without the need for pre-burning. The result: increased speed, streamlined processes and higher productivity. All of this comes with clean cutting edges and no bubble formation.

## MAXIMUM PRODUCTIVITY AND OPTIMUM QUALITY:

- **100% Absorption:** The laser beam is neither scattered nor reflected, allowing its energy to be completely converted into melt heat.
- **Maximum Speed:** At maximum cutting speeds, clean, burr-free cutting edges are achieved.
- **Accelerated process speed:** The cutting process is shortened by up to 20%!
- **Application optimised adhesive:** A new, soft-formulated adhesive ensures uncompromising adhesion and prevents bubble formation at the critical moment of the initial piercing.
- **Optimised processes:** Pre-burning is no longer necessary to prevent bubble formation and associated process interruptions.
- **Significant time savings:** Eliminating pre-burning reduces processing time by up to 35%!

Increased productivity thanks to a 100% absorption rate. Assured adhesion thanks to a softer adhesive formulation!



## IT'S A WINNER! INCREASE QUALITY – REDUCE COSTS.

The new generation of laser protection films from POLIFILM PROTECTION optimises processing times, energy consumption, and labour costs. They guarantee maximum efficiency and as such increased profitability, as well as perfect results in any subsequent edge forming, bending, or punching processes.

- **Efficient energy utilisation:** Energy costs per item are reduced as a result of 100% of the laser beam's energy reaching the metal surface.
- **Optimised machine utilization:** Increased production as a result of a faster cutting process as due to the elimination of the need for pre-burning.
- **Reduced rejection rates:** Clean cut edges and no bubble formation significantly reduce the rejection rate.
- **Streamlined Operations:** Due to optimised cutting processes and workflows.
- **Quick & Safe Removal:** The films can be removed easily and quickly without tearing or leaving any adhesive residues, meaning the need for time consuming rework is eliminated.
- **Reduced laser Downtime:** The laser nozzle stays cleaner for longer, requiring less frequent cleaning.

The time savings alone, through faster and more efficient fibre laser operation under a normal two-shift operation, amount to more than €100,000 per year!



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