

Best choice.

Laser cutting: old challenges - modern solutions

Burgdorf, November 28<sup>th</sup> 2018 Gilbert Schiltges

## **Bystronic**





Founded

1986





Conzzeta

1994

Field of activity

systems for sheet metal processing





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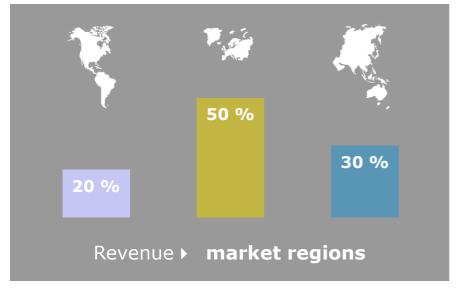


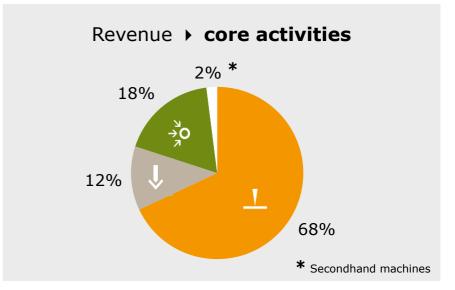


## 856 Mio. CHF

774 Mio. € / 867 Mio. \$ **Revenue** 





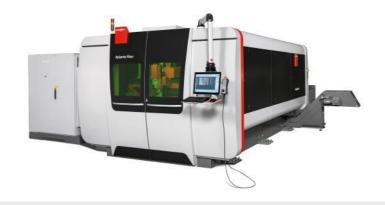




ByStar Fiber



BySprint Fiber XXL

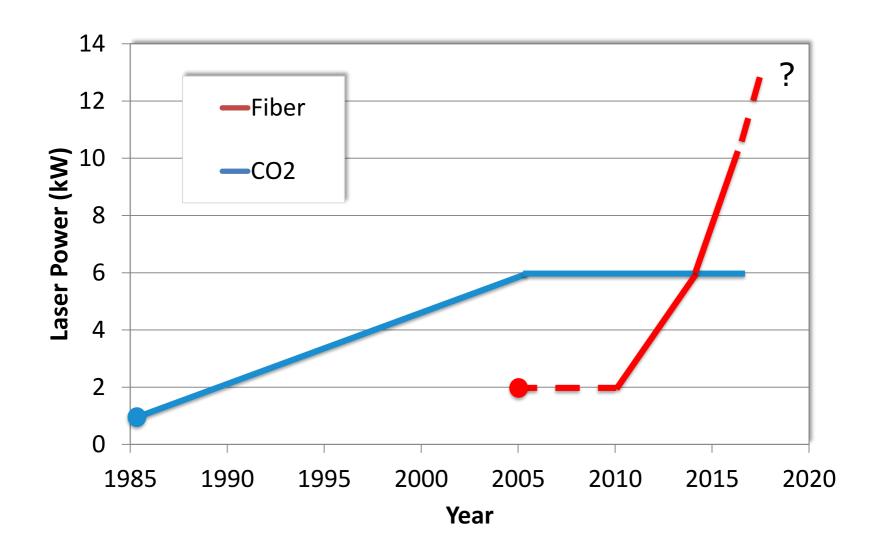


**BySprint Fiber** 

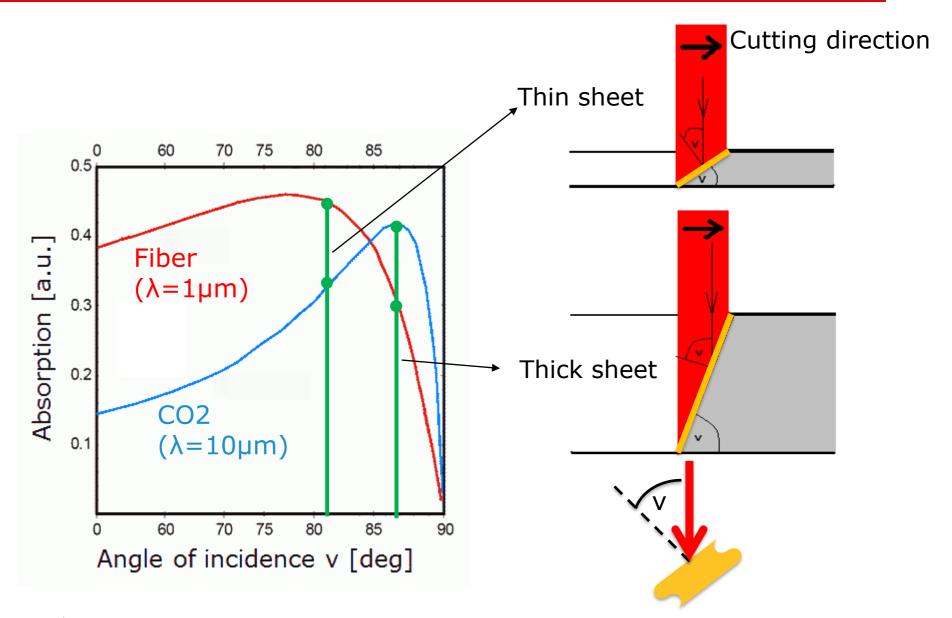


BySmart Fiber



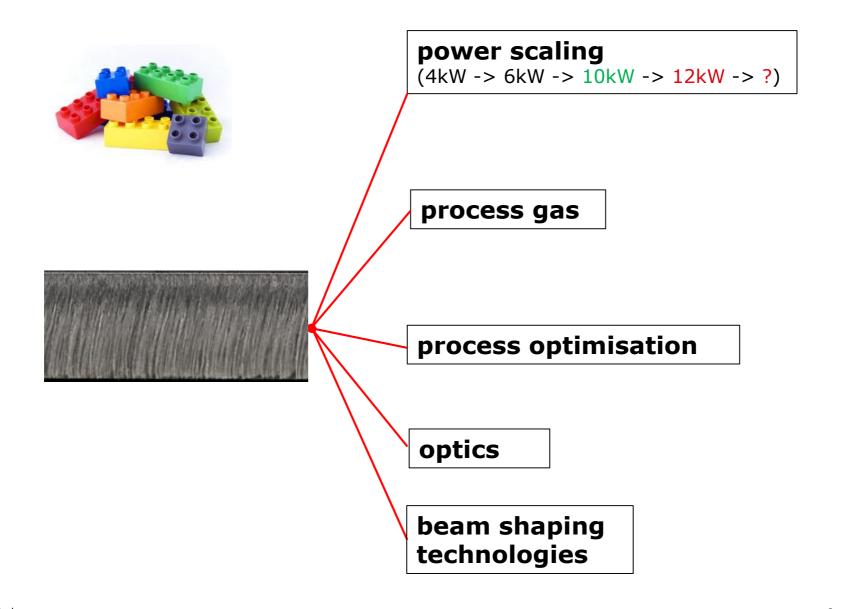




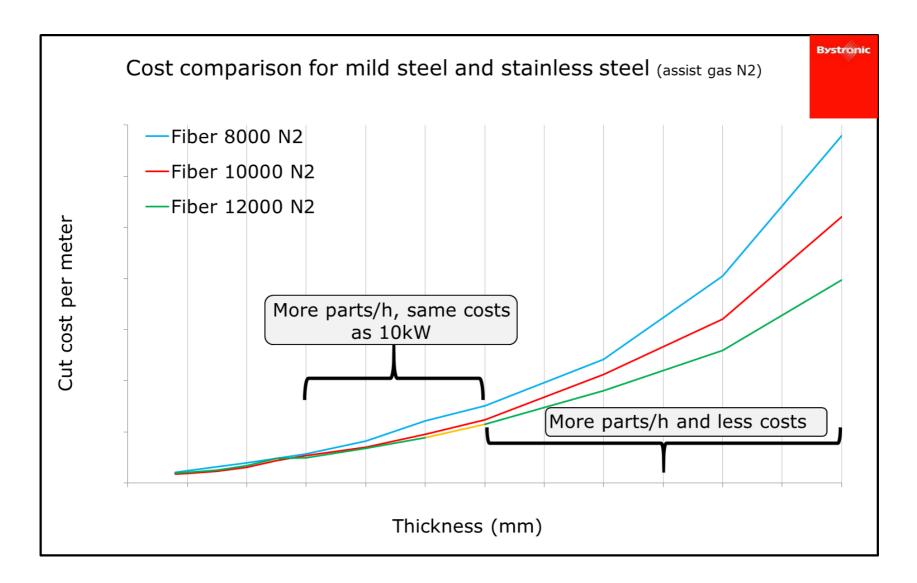


## **Technology components for improving cutting** *Robustness and performance*







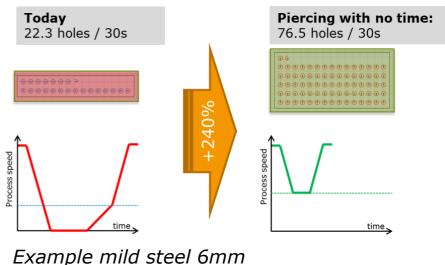


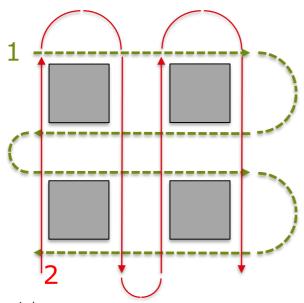
#### **Process optimization**



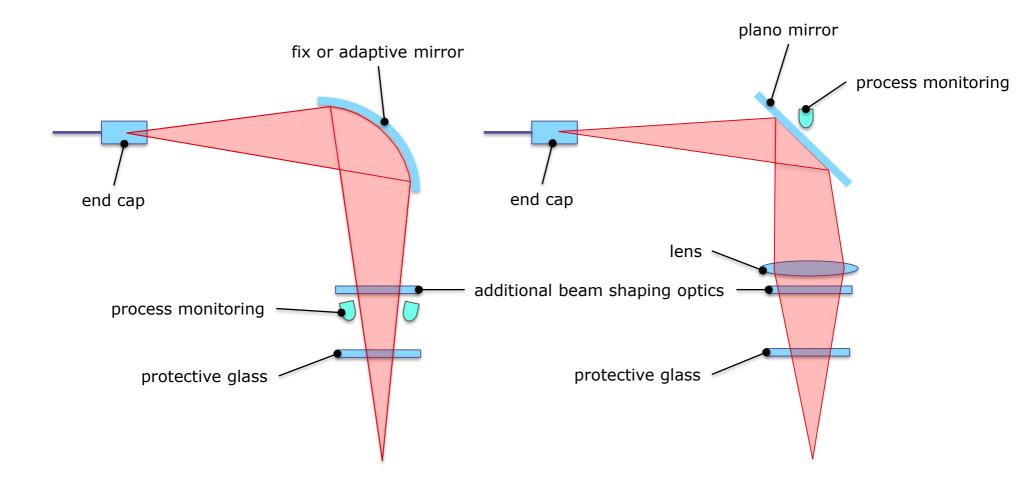
- Piercing with "no time" up to 10mm.
- Increased efficiency by optimized process sequence.

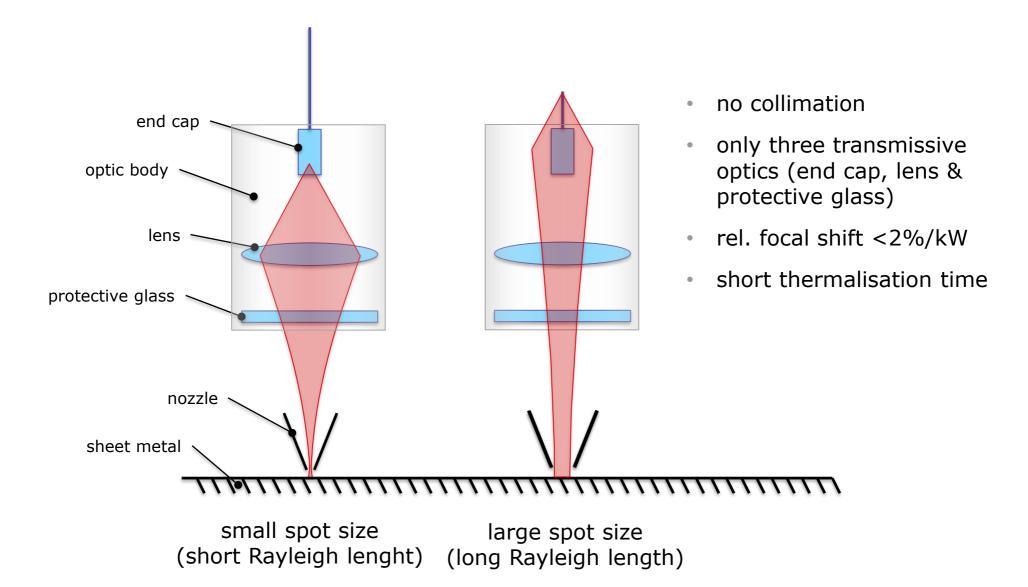






- High speed process scanning with constant cutting speed thanks optimized path calculation.
- Increase productivity compared with conventional processing up to 400%.





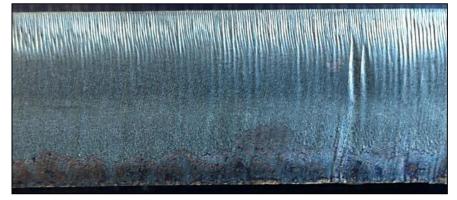
## Beam Shaping Technologies Static beam shaping in flame cutting of mild steel



#### flame cut in «low quality» mild steel 20mm



typical cutting result with standard laser beam



**Bystronic BeamShaper** 

## Bystronic BeamShaper

- field of application: flame cutting of mild steel 10 / 12 / 15 / 20 / 25 / 30mm
- higher process stability
- better cutting edge quality in particular for «low quality» mild steel
- up to 28% higher cutting speeds in «commercial grade» mild steel

# Bystronic Best choice.

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