



# Innovative cutting solutions for future requirements

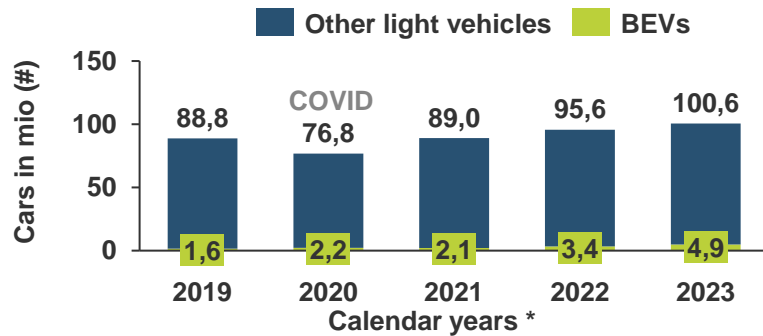
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Andreas Müllegger | Industry Management Mobility

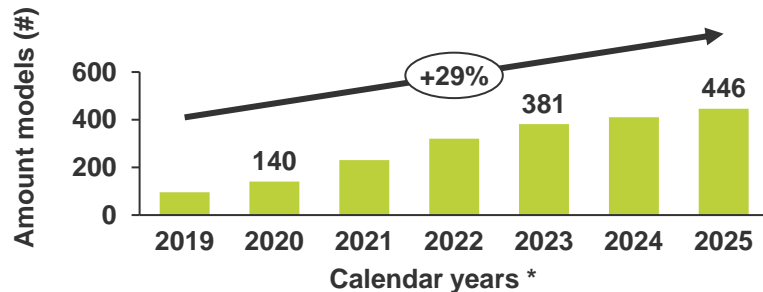
# Global market trends automotive BIW

## Battery electric vehicles (BEV) lightweight and safety

### Global light vehicle & BEV production



### Global sales BEV mainstream models



Change of requirements to production

### 2D- and 3D laser cutting

Trimming press hardened parts



Laserblanking **.NEW**



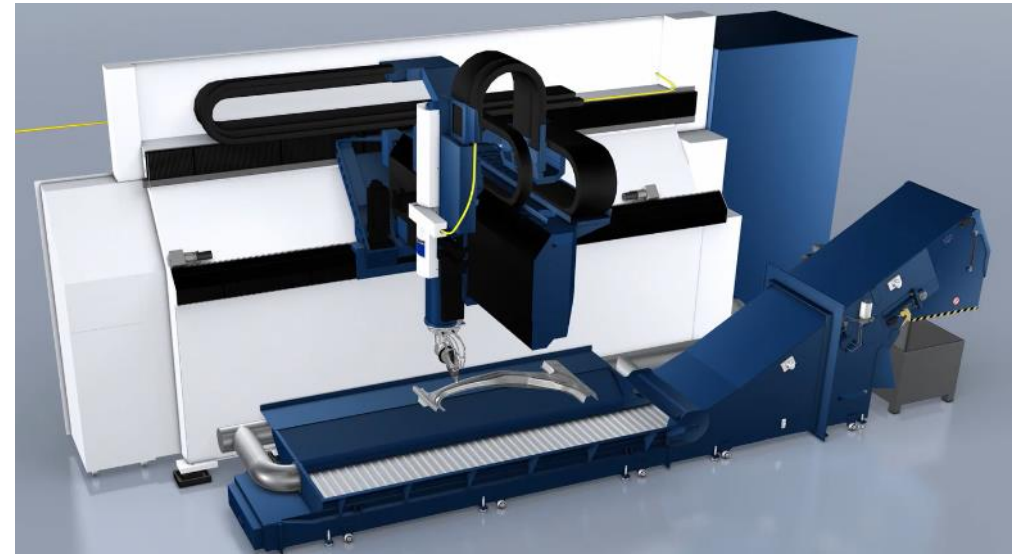
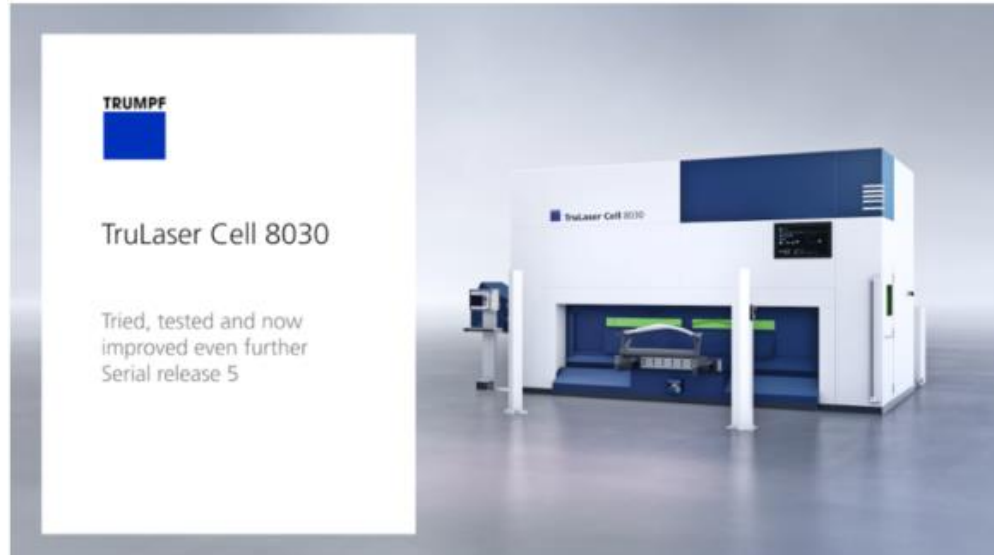
- Increased application of pbs-parts lead to the demand of efficient high performance cutting solutions
- High number of lots at small lot sizes require flexible blanking solution at minimum cutting cost per piece

\* = SOURCE: LMC Automotive Limited, 11.02.2021, Webinar – „Global Market Outlook“, U.K.



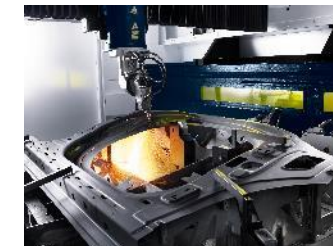
# TruLaser Cell 8030 – High performance 5 axis cutting

## Leading technology for trimming of press hardened parts



Video Link:

[https://www.trumpf.com/filestorage/TRUMPF\\_Master/Products/Machines and Systems/3D laser cutting systems/TruLaser Cell 8030 L60/TruLaser-Cell-8030-product-video-EN.mp4](https://www.trumpf.com/filestorage/TRUMPF_Master/Products/Machines_and_Systems/3D_laser_cutting_systems/TruLaser_Cell_8030_L60/TruLaser-Cell-8030-product-video-EN.mp4)



**World's most used equipment to cut hot stamped parts (installed base >1800 systems)**

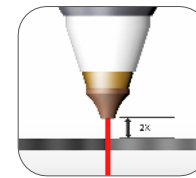
# TruLaser Cell 8030

Reliable system & innovative technologies ensure global success

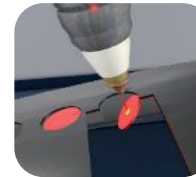


- Majority of cells run more than 10 years
- More than 60.000 h operation at tough conditions (21 mio km cutting length)
- Since 2011 still 99,6% systems in operation

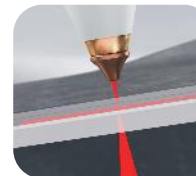
## Cut quality and productivity ensured by:



**X-Blast:** Higher distance to part increases geometry flexibility, nozzle service life and cell productivity



**ObserveLine (Comfort & Professional):** Slug detection and geometry check for best quality and accuracy



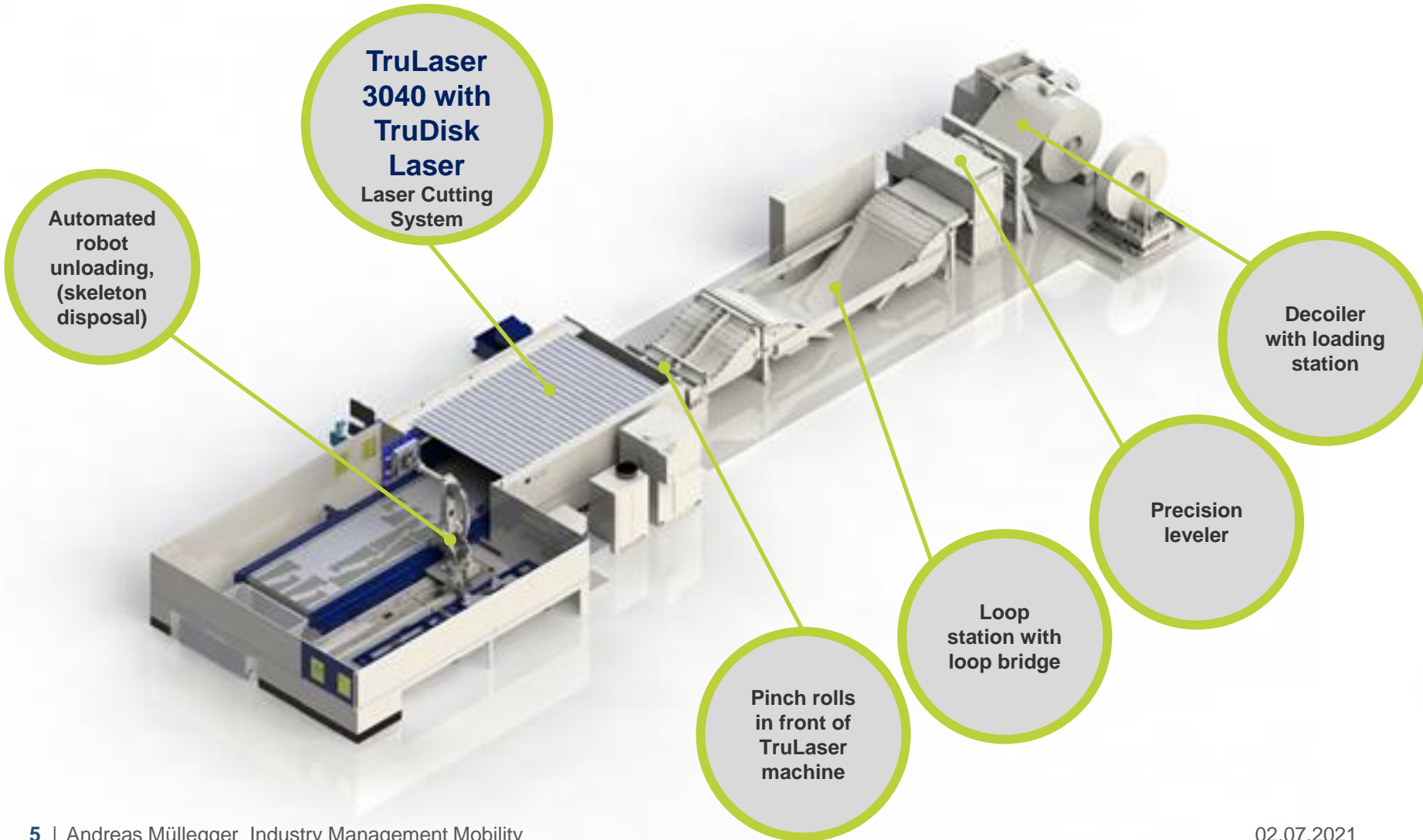
**FocusLine:** High class cutting results and the solution for patchwork parts



**TruDisk Laser:** Leading laser source with laser power control ensures constant high quality

# Solution: laser blanking system by TRUMPF

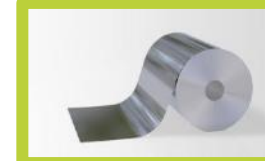
## Basic system overview



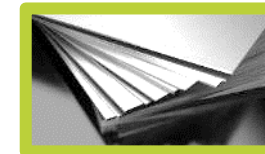
Working area  
**2,1 x 4 m<sup>2</sup>**



Sheet thickness  
**0.5 ... 4.0mm**



Material feed  
**Coil (future sheet)**

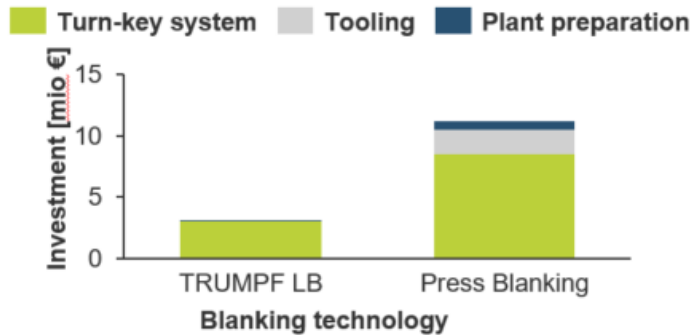


Cutting speed  
**>100m/min**

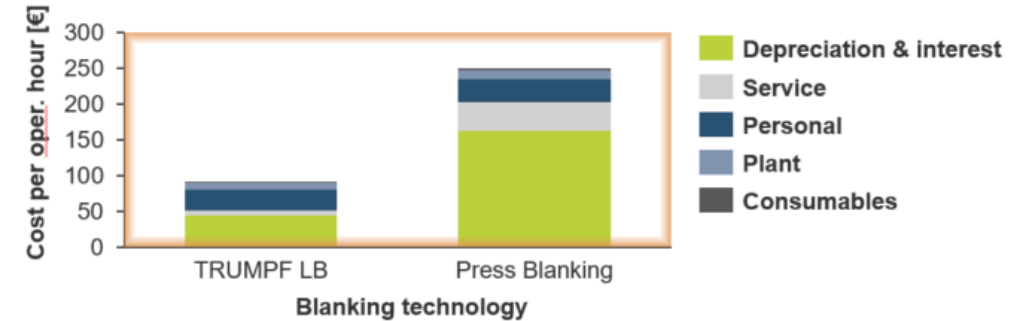
# Solution for high lot numbers at small lot sizes

## Low initial invest and minimum operational cost

Total investment



Operational cost per hour



- TRUMPF System “Turn-key” at low investment
- Plant preparation not necessary
- No cost for tooling (hardware & storage)

- Less service cost: Tool maintenance not necessary
- TruTops Boost offline programming and simulation supports minimum efforts at blank development, implementation and production planning
- Smallest possible footprint for performance blanking

➤ Minimum operational cost, less scrap and good OEE leads to low cutting cost per blank



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