

FORMING THE FUTURE



## LASER BLANKING LINES

For the blank production of tomorrow

# MAXIMUM FLEXIBILITY. WITH DYNAMIC FLOW TECHNOLOGY.



Laser blanking line with one laser head LBL 1.18 DFT.



Laser blanking line with two laser heads LBL 2.18.


**Innovative DynamicFlow Technology for maximum flexibility.** Blanking lines with laser are particularly suitable for production processes with frequent product changes, as no dies are used in this process. Frequent and lengthy die changes, costly die maintenance and die storage are eliminated.

The innovative DynamicFlow Technology offers highly flexible production conditions at comparatively low investment costs. The laser blanking line processes a wide range of materials such as aluminum or high-strength steels and guarantees high product quality even for surface-sensitive outer skin blanks.



DynamicFlow Technology

## TECHNICAL DATA.

VARIATIONS	LBL 1.18-S2C	LBL 1.18-DFT	LBL 2.18-S-DFT	LBL 2.18-BP-DFT	LBL- 2.21-BP-DFT
DFT Dynamic Flow Technology	-				
S2C Stop to Cut Technology		-	-	-	-
Strip width [mm]	400 - 1,850	400 - 1,880	400 - 1,880	400 - 1,880	400 - 2,150
Coil weight [t]	22	25	max. 25	max. 30	max. 30
Strip material	Steel, aluminum, high-strength steel				
Strip thickness [mm]	0.5 - 4.0	0.6 - 3.0	0.6 - 3.0	0.6 - 3.0	0.6 - 3.0
Strip speed [m/min]	max. 40	max. 40	max. 40	max. 60	max. 60
Number of lasers	1	1	2	2	2
Laser power [kW]	6-10	6-8	6-8	4-8	4-8
Blank cleaning device	-*	-*	-*	incl.	incl.
Blank length [mm]	max. 4,000	max. 4,000	max. 2,000	max. 4,500	max. 4,500
Stacking height incl. pallet [mm]	max. 750	max. 750	max. 750	max. 750	max. 750

\* Upon request.

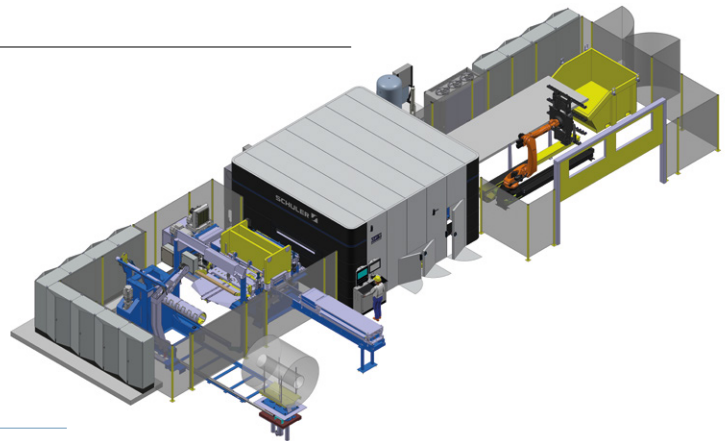
# SCHULER BLANKING LINES. THE PRODUCT FAMILY.

## FLEXIBILITY



### COILLASER S2C/DFT

Perfect for small batch sizes and  
a wide range of products  
Space-saving system

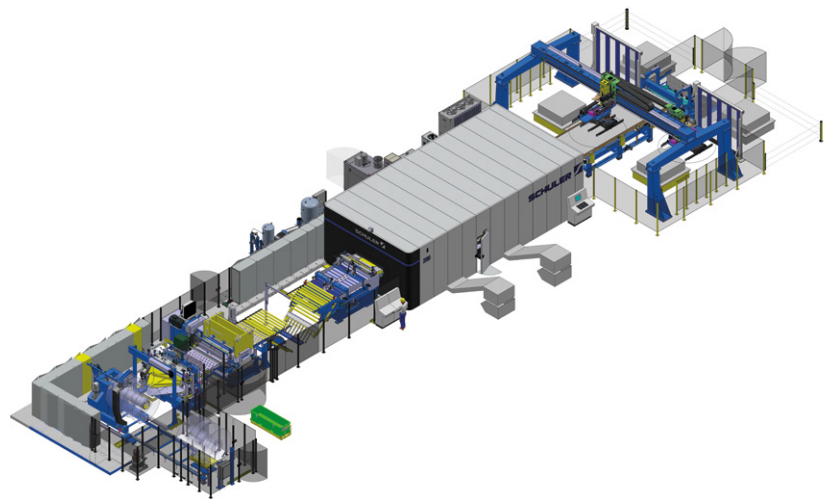


## FLEXIBILITY



### STRUCTURAL PARTS

Flexible stacking patterns  
Reorientation of the components  
High component accuracy

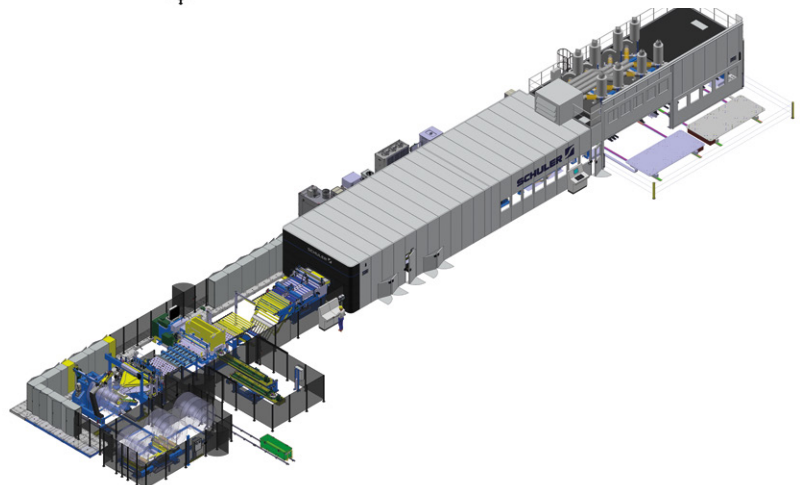


## FLEXIBILITY



### OUTER SKIN ALUMINUM/STEEL

Perfect for many product changes with small batch sizes  
Die-free cutting  
Highest outer skin quality  
Maximum output  
Simple and cost-efficient installation  
High material savings potential through digital nesting





# LASER BLANKING WITH DFT.

## ADVANTAGES AT A GLANCE.



Based on our many years of experience in the automotive industry, our Laser Blanking Lines with DFT deliver an impressive package for incredibly flexible production at comparatively low investment costs. This combination makes DFT the legitimate alternative to conventional, die-based cutting systems in the press shop.



### FLEXIBLE BLANK GEOMETRIES

**Suitable** for all blank shapes  
**Easy** adaptation after production start-up  
**No** restriction by dies  
**Simultaneous** production of diff. blank shapes  
**Backup** production for other models/sites



### HIGH SURFACE QUALITY

**Less** burr in the forming process  
**Homogeneous** blank edges  
**Clean** blanks



### PRODUCT CHANGE

**No** die change  
**Fast** product change at the push of a button  
**High** availability



### REDUCED NOISE EMISSION

**No** impact shock  
**No** press vibrations



### REDUCED INVESTMENT

**No** press foundation or loop pit required  
**No** dies  
**No** area for dies/maintenance  
**No** special infrastructure

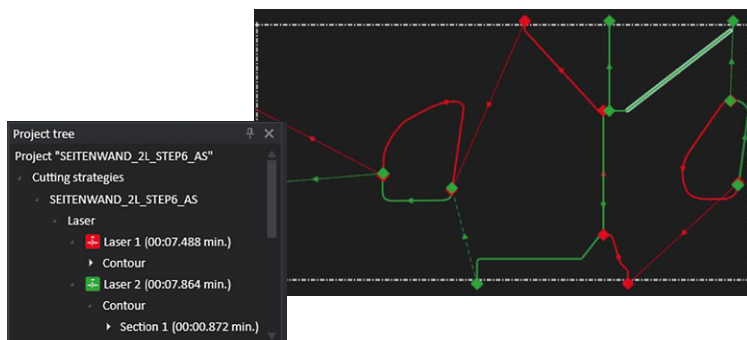


### ONGOING SAVINGS

**Lower** costs for maintenance  
**No** costs for dies and die storage  
**Reduced** material costs  
**High** energy efficiency

## LBL STUDIO: CAD/CAM PROGRAMMING TOOL

Conversion of a DXF file to an NC cutting program in seconds



- Simulation of various cutting strategies
- Simulation of throughput
- Offline programming on a laptop
- DXF export function for quality control
- Material parameters
- Laser parameters
- Laser marking available
- User-friendly Schuler solution

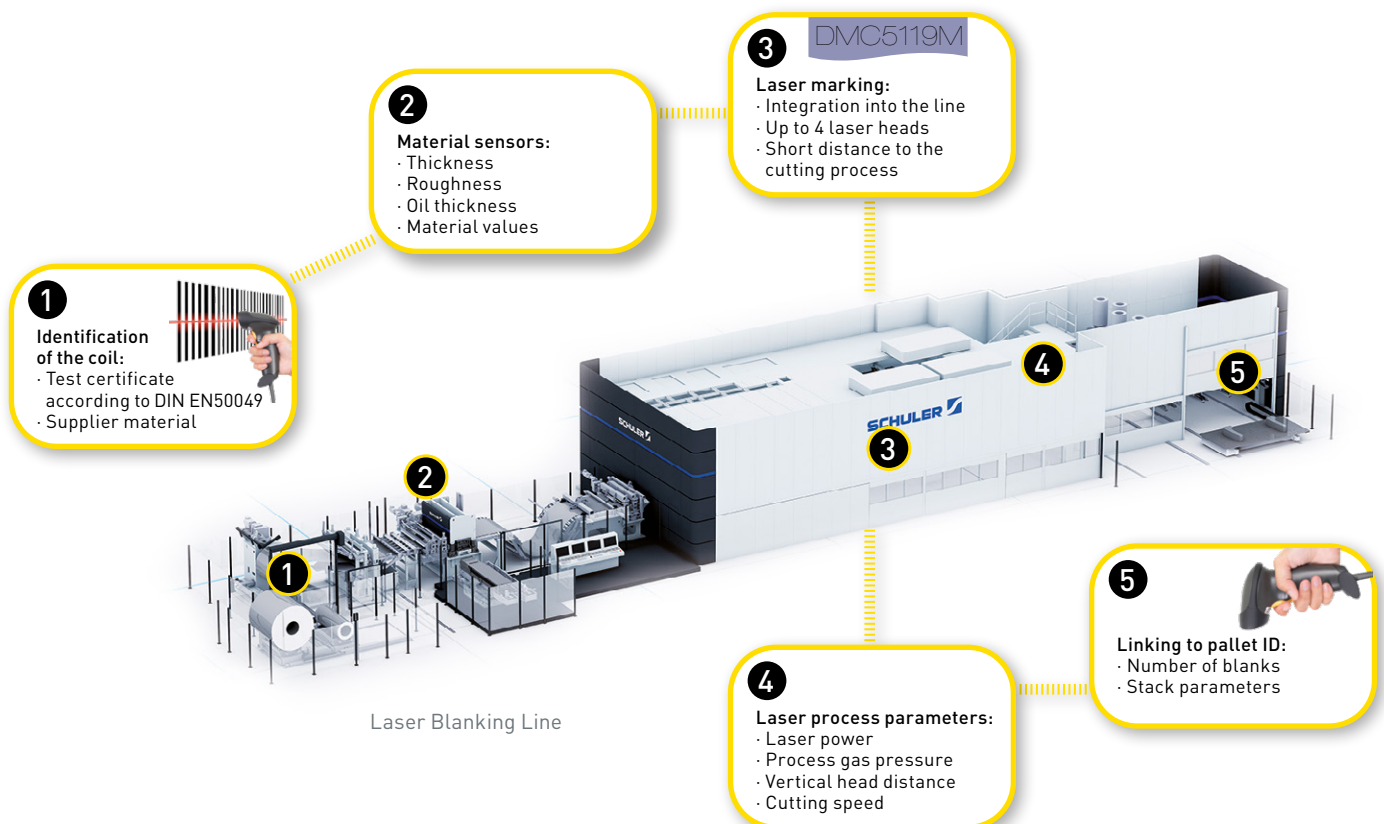
# TRACK AND TRACE FROM SCHULER.

## DETECT AND ELIMINATE DEFECTS IN PARTS.

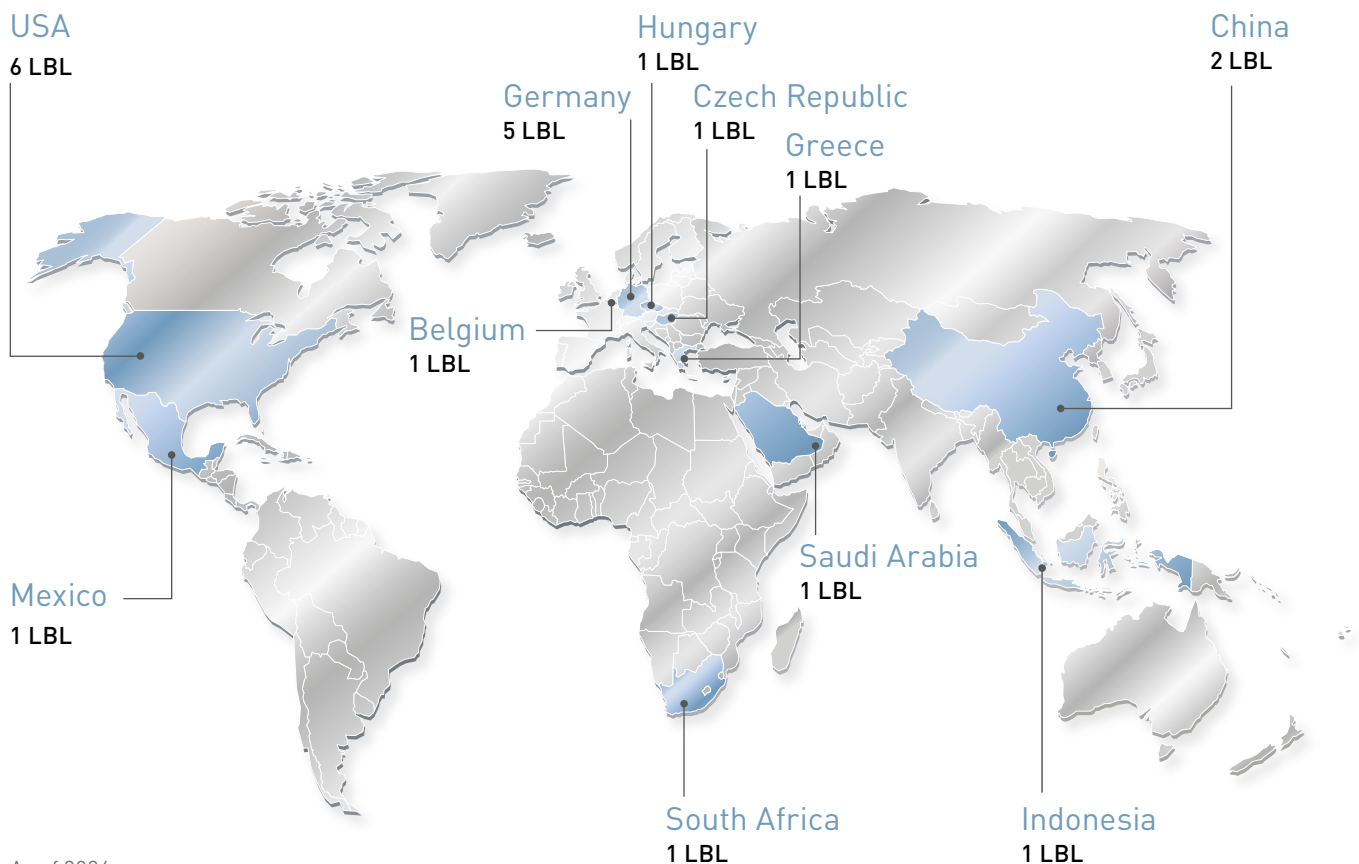
### LESS SCRAP, MORE QUALITY.

Using Track and Trace from Schuler you can track and trace your production process without having to compile data and information from different sources. Quality defects and their causes can be identified immediately. Every part is linked to relevant data and information. The system marks parts with a unique ID that can be identified again at various points in time and throughout different product stages. All important information for this ID is stored in a database so that it is subsequently possible to trace which

coil the processed part came from, what the parameters were during the forming process, and which quality characteristics the part exhibits. Schuler's Track and Trace has direct access to the system controller, and therefore to a wide range of different parameters. This in turn helps you minimize rejects and increase your product quality. Track and Trace can also be integrated into your existing system as a retrofit option.



# LASER BLANKING LINES. WORLDWIDE.



## DIGITAL SOLUTIONS – DIGITALIZATION IN THE PRESS SHOP

With Metris Digital Solutions, Schuler offers you new opportunities to boost the productivity of your press shop. From the networking of your systems and die protection to component tracking and production monitoring.

Embark on the path to digitalization with Metris. Reliable, uncomplicated, and customized to your individual needs.

[digital@schulergroup.com](mailto:digital@schulergroup.com)



<https://digitalsuite.schulergroup.com/en/>

## ABOUT THE SCHULER GROUP – [WWW.SCHULERGROUP.COM](http://WWW.SCHULERGROUP.COM)

Schuler offers customized cutting-edge technology in all areas of forming – from the networked press to press shop planning. In addition to presses, our products include automation, dies, process know-how and service for the entire metalworking industry. Within the Metris platform by ANDRITZ, Schuler brings together digital solutions for networking forming technology and develops them continuously to further improve line productivity and availability. For battery production in gigafactories, Schuler provides equipment and services in the process steps of cell assembly and formation. Our customers include automotive manufacturers and suppliers, as well as companies in the forging, household appliance and electrical industries. Presses from the Schuler Group mint coins for more than 180 countries. Founded in 1839 at our headquarters in Göppingen, Germany, Schuler has approx. 5,000 employees at production sites in Europe, China and the Americas, as well as service companies in more than 40 countries. The company is part of the international technology group ANDRITZ.

## WE ARE THERE FOR YOU

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