

Color Laser Film

Labeling at the Highest Level

Your Challenge

You want to

label your products individually in serial production.

Up to now you have used

different
labeling solutions.

You would like to react
quickly and

flexibly to **changes.**

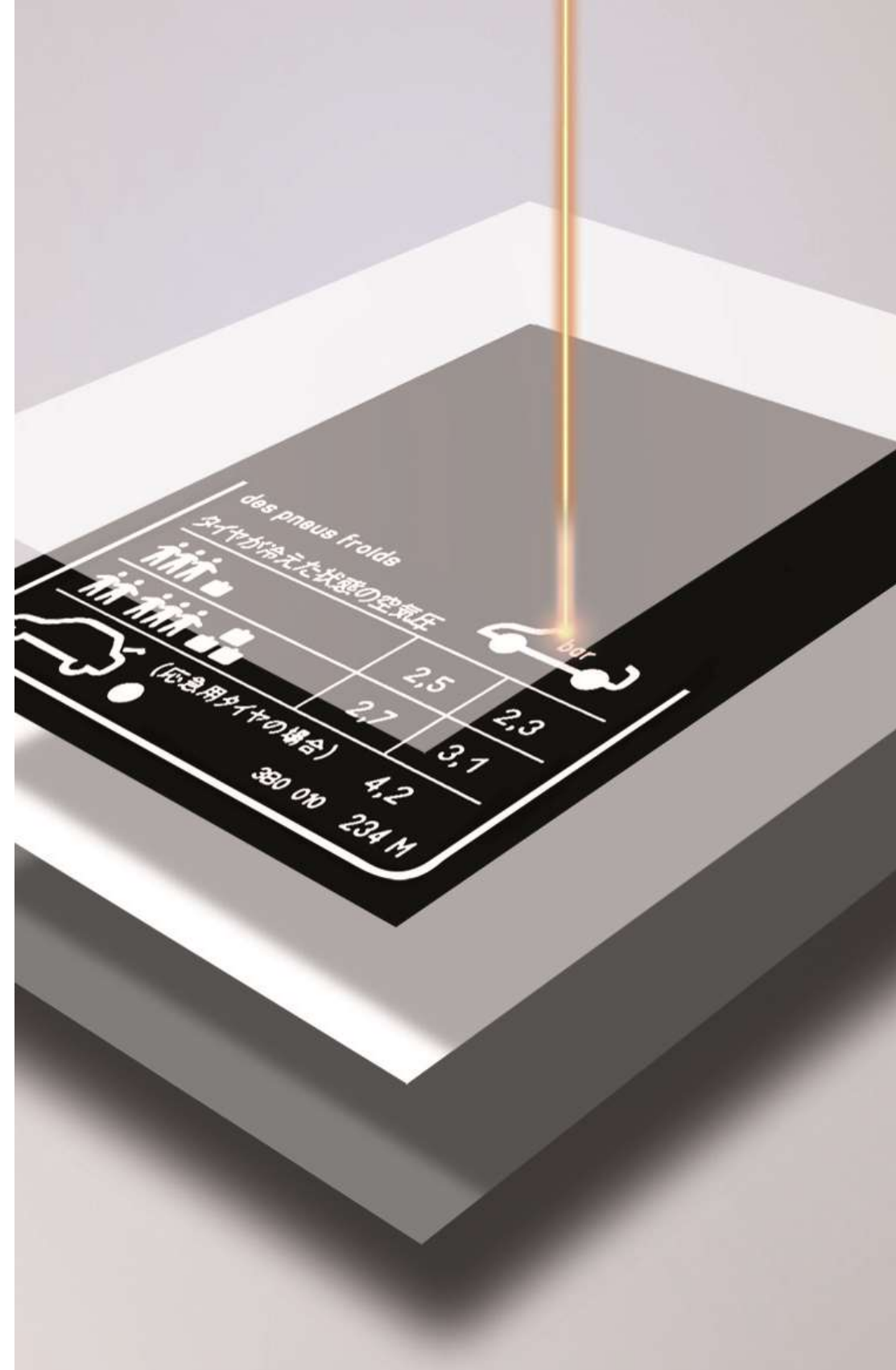
You need **highly resistant** labeling.

Your Solution

Color Laser Film (CLF)

High-quality, custom-made laser marking

- The idea: Laser are produced on command. The Color Laser labels are cut to size and marked by laser inline.
- The laser beam pervades the transparent laminate layer without destroying it and removes the color reference layer.
- Suitable for ND:YAG, Vanadate and Fiber Laser Systems

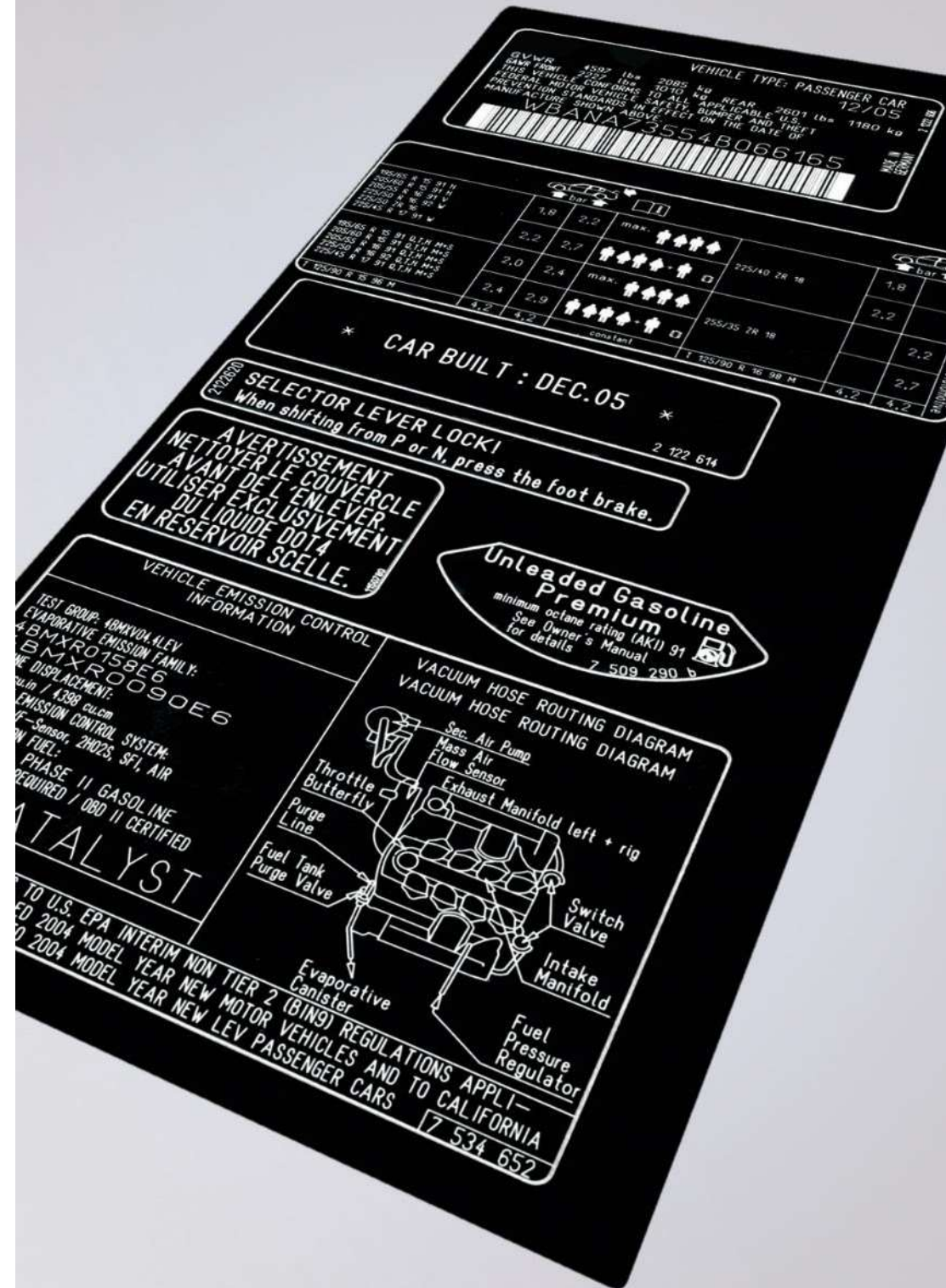


Your Solution

Color Laser Film (CLF)

One film, a large variety of applications

- Quick adaptation of contents and formats
 - No unnecessary stockpiling of labels
 - No tedious ordering and storage organization for product marking
- Easy introduction of new elements, sizes and variable data (e.g. serial numbers), thus maximum flexibility in the production process



Color Laser Film (CLF)

Your Benefits

Emissions-free inscription

- The contactless laser marking happens inside the composite material underneath a transparent protective laminate.
- The chemical conversion of the laser-active layer does not release any particles or gas.
- Only the cutting process produces minor emissions.
- When using pre-cut labels the process is entirely emission-free and suitable for cleanroom and controlled zone applications.
- Reduced cleaning and maintenance of the laser equipment



Color Laser Film (CLF)

Your Benefits

Maximum resistance

- High chemical resistance against organic solvents, oils, water, cleaning agents
- High mechanical resistance
- High temperature resistance
- High resistance to weathering

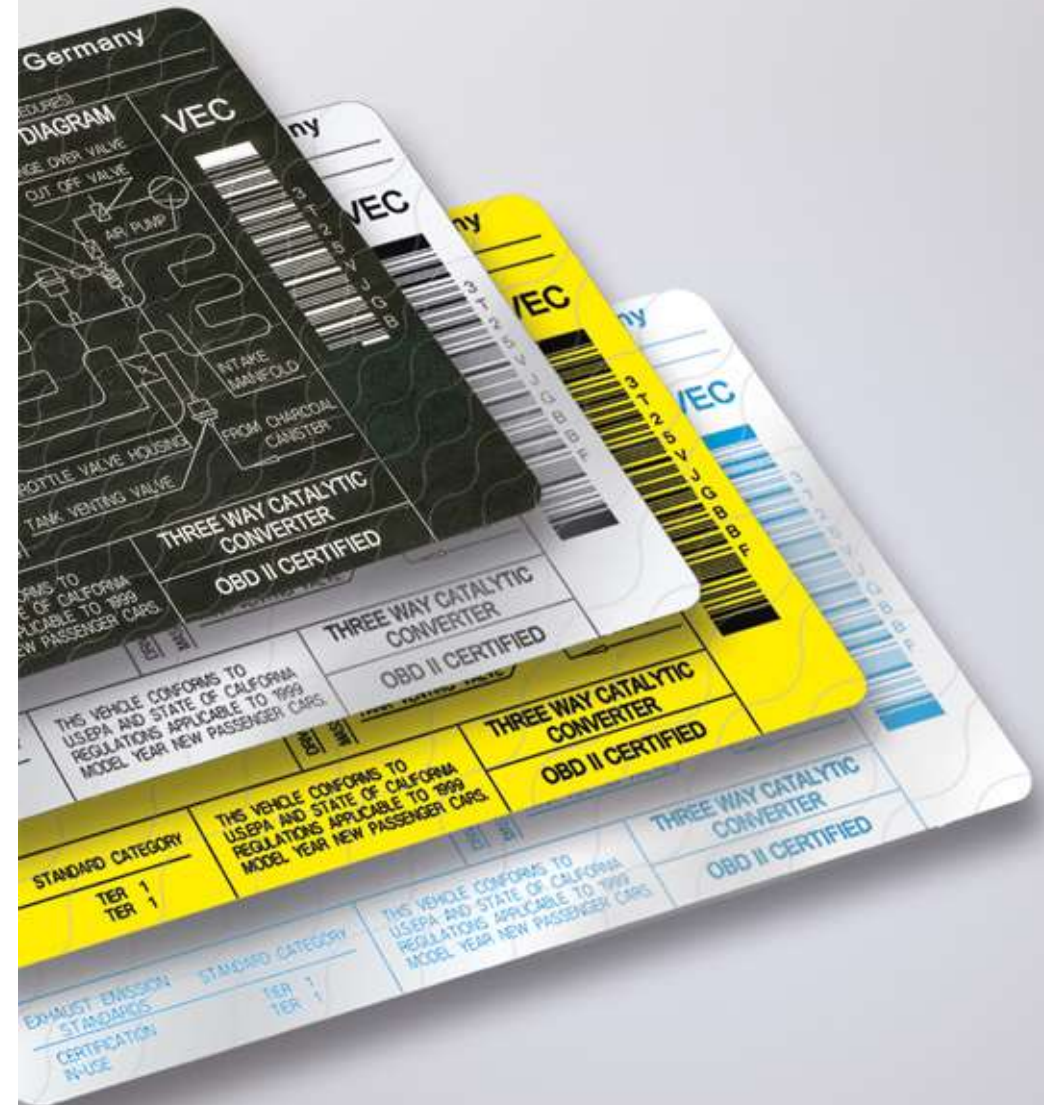


Color Laser Film (CLF)

Your Benefits

Wide range of designs

- Base material and inscription available in many color combinations
- Standard variants (material/text)
 - Black/white
 - Silver/black
 - Other color variants upon request, e.g. yellow/black, red/black, white/black
- All types of individual label formats

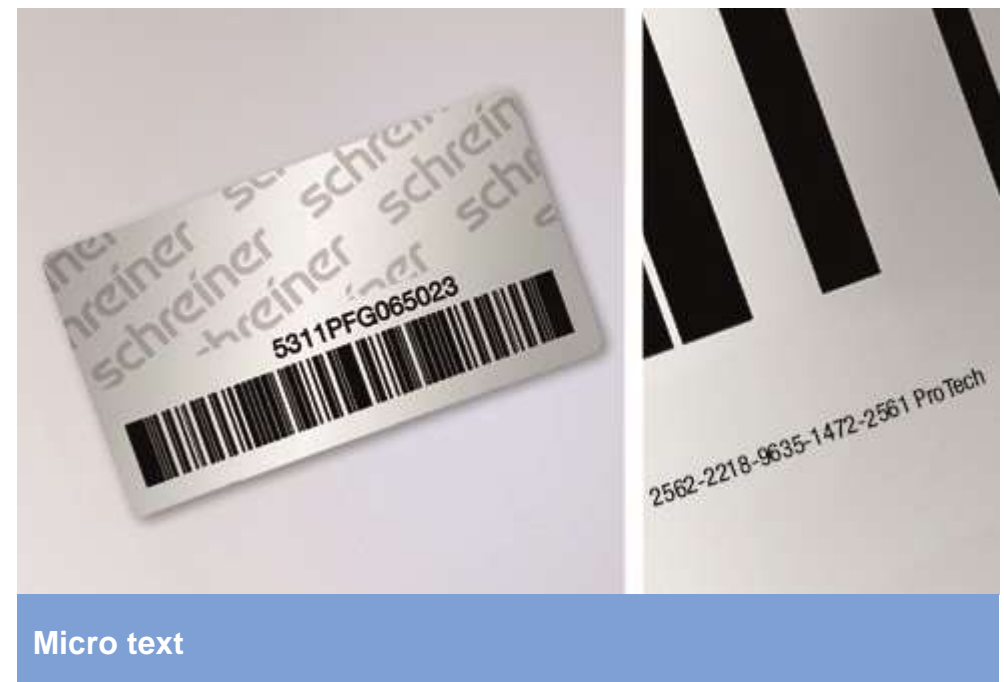


Color Laser Film (CLF)

Your Benefits

Integrated product and brand protection

- CLF with secure document features:
Predetermined breaking points in the composite material destroy the label upon any attempt at tampering
- CLF with security features:
Combination with security technologies for brand and counterfeit protection
 - Hologram
 - Color-shifting inks
 - KeySecure
 - Individual customer word mark in the gloss level of the surface



Color Laser Film (CLF)

Your Benefits

Uncompared user friendliness

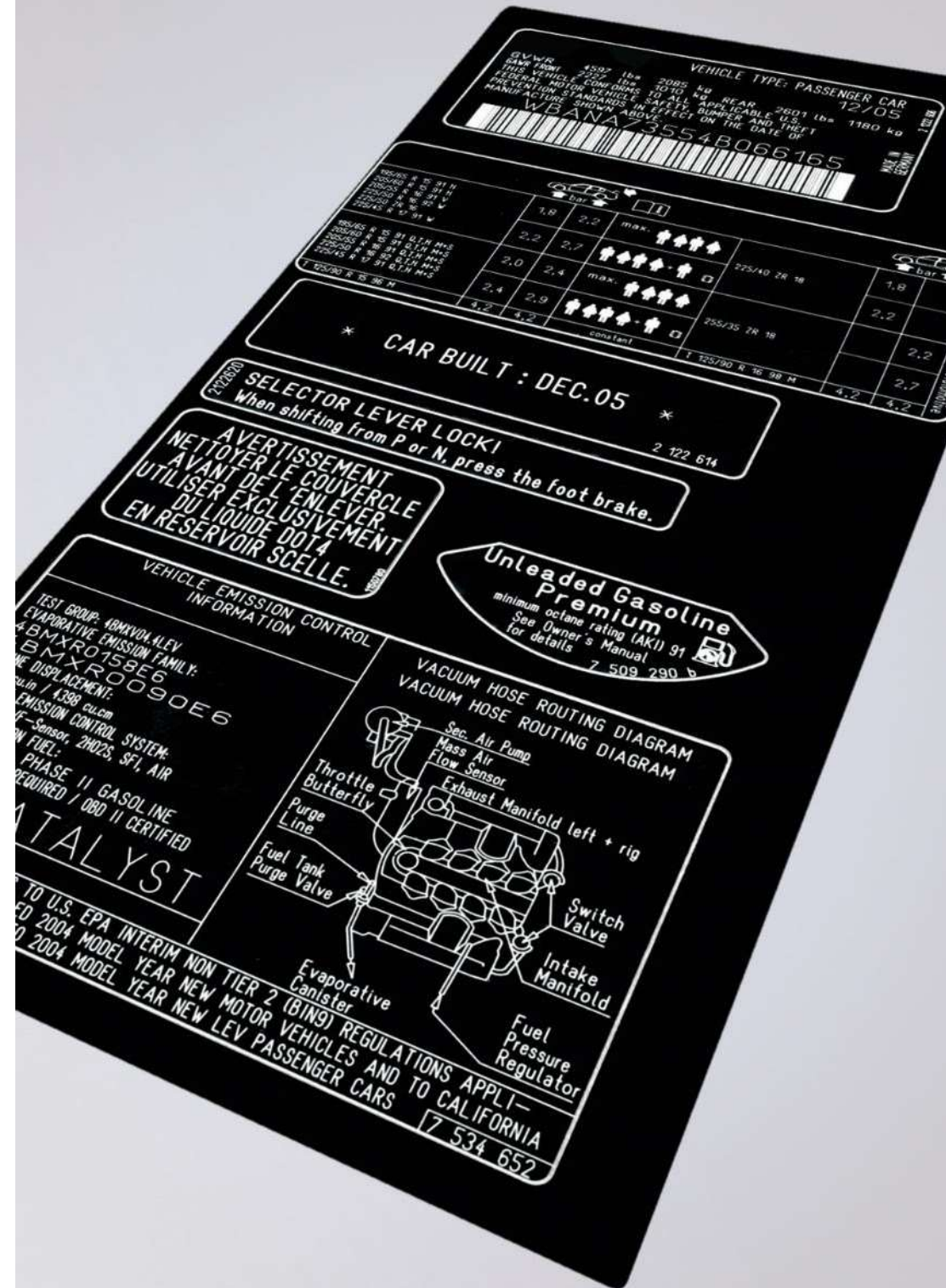
- Dimensionally stable film guarantees outstanding manual or automated processing.
- Cutting and marking in one process step

Individual adhesive

- Adhesive and specific application match perfectly

Low operating costs

- Emissions-free marking
- Low energy consumption while marking and cutting
- High processing speed



Color Laser Film (CLF)

Special Designs

CLF Preprint

- Pre-printed label
- Customized subsequent laser marking with variable contents at the customer's facilities

CLF Individual

- Individual integration of your logo into the film

CLF Laser Membrane Label

- Combination of CLF nameplate/warning notice and Pressure Compensation Seals (PCS)
- Ventilation of the component underneath the label
- Variable positioning of the PCS since ventilation opening and label contour can be laser cut individually



CLF Preprint



CLF Laser Membrane Label



CLF Individual

Product Solutions by Schreiner ProTech

Color Laser Film: Labels die-cut to Size

Always in good shape

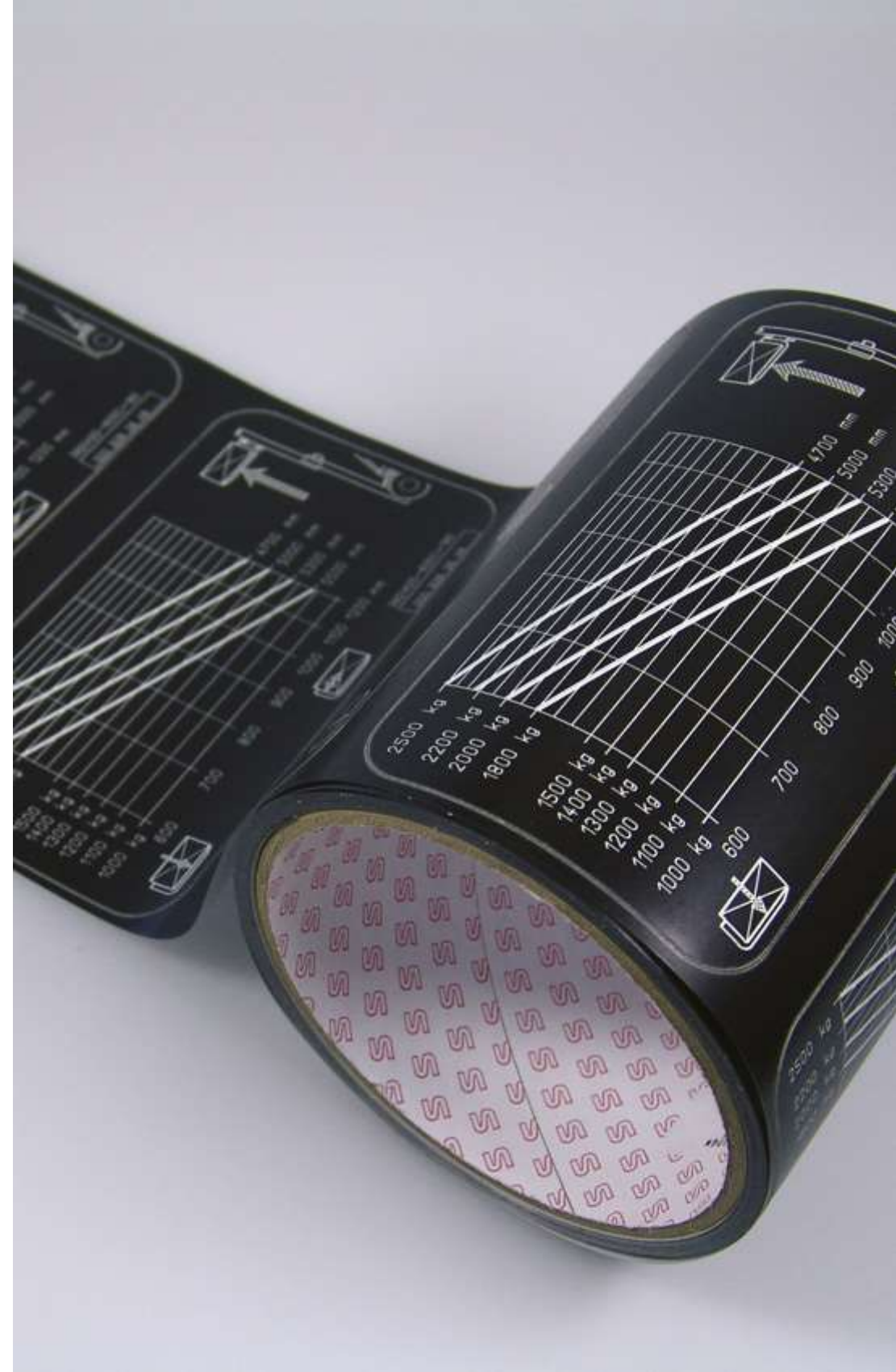
- Emissions-free throughout further processing
- Suitable for processing in clean rooms and controlled areas
- Optimal for automated processing
- High marking speed of up to 5,000 mm/s



Color Laser Film: Endless Film

Durable label, produced on demand

- Cutting to size and marking in one process step
- Manufacture of complete, individual plate kits possible
- Just-in-time and inline
- Maximum flexibility in label design



Color Laser Film: Paint Mask

For exacting requirements under rough conditions

- CLF marking through the Paint Mask
- Ensures readability of information before and after the painting process
- Application as a control label in complex production processes
- For several consecutive painting processes a multi-layered Paint Mask Label is available, which provides readability after every sub step
- The starter tab enables easy removal of the Paint Mask.



Practical Example

Automobile Manufacturers

- Comprehensive plate sets in the automobile industry
- Creation of an individual plate set in the production chain
- Reduction of label diversity and storage costs by using a standard system.
- All labels are on the same liner
- Reduction of error potential during label application



Fuel door



Engine compartment label



VIN-Label



Nameplate

Partnership

Advice and Support for the Start

- On site support during the introduction of laser technology (cooperation with network partners)
- Advice on optimum laser setting and programming
- If the customer has not yet decided to invest in laser equipment, Schreiner ProTech offers customized solutions and initially carries out the marking itself.





Matthias Tübel

Dipl.-Ing. (FH) – Sales Director NAFTA

Phone +1 845 848 9145

Fax +1 845 848 9043

Cell +1 845 664 5118

matthias.tuebel@schreiner-protech.com

www.schreiner-protech.com

Schreiner Group LP

300 Corporate Drive, Suite 10

Blauvelt, NY 10913, USA