

**elMETAL**  
LABELLING AND SIGNAGE

# LINE LIGHT PROJECTORS LED AND LASER



## LINE LIGHT PROJECTORS

Line light projectors are an innovative solution for floor marking in industrial environments. Instead of traditional painted lines, these devices project bright, clearly visible light lines on the floor of a production hall, warehouse or loading ramp.

LED/laser line projectors are particularly effective in places where painted lines fail due to conditions, layout changes or maintenance costs. Here are specific situations and locations where projectors have a clear advantage:

### 1. Areas with heavy traffic

- Production halls with intense forklift, AGV and other vehicle traffic
- Painted lines wear off quickly – the light line remains always visible

### 2. Surfaces that are difficult to paint

- Oily, wet or chemically contaminated floors
- Paint lines do not adhere well or are not clearly visible – projectors eliminate this problem

### 3. Frequently changing production or warehouse layout

- Plants where the layout of lines often changes (e.g. due to new machines or processes)
- Projectors allow you to easily reposition the line without costly repainting

### 4. Areas with reduced visibility

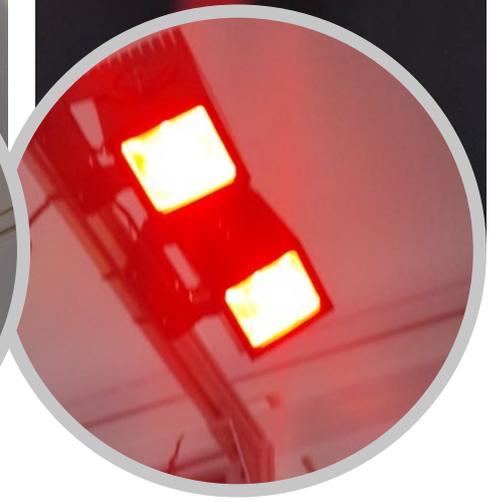
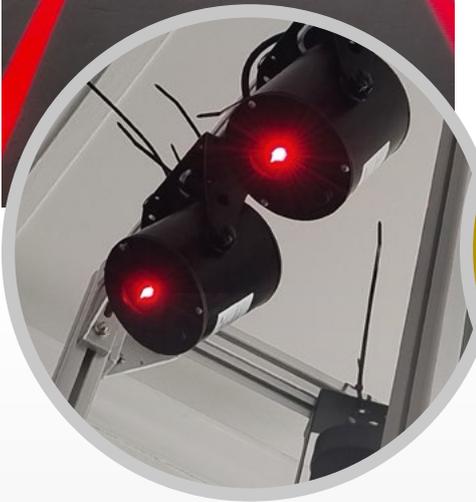
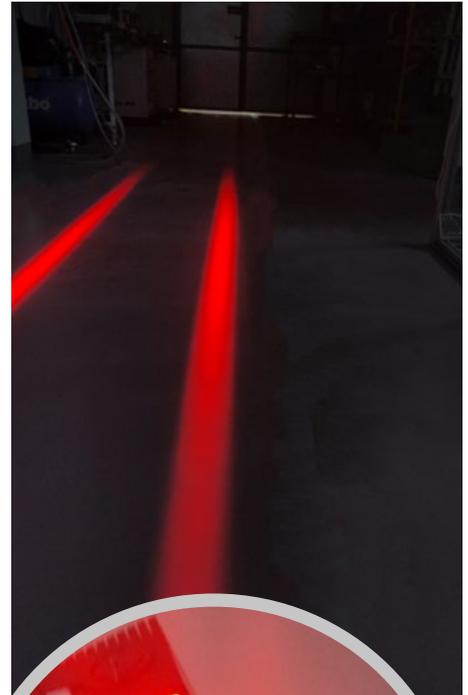
- Zones with poor lighting, dust, or technological mist (e.g. foundries, CNC areas, welding shops)
- The light line is more visible than a painted one

### 5. Temporary or seasonal zones

- Traffic restrictions during renovation works, buffer or unloading zones
- No need to paint something that will disappear in a month – you simply move the projector

### 6. High-risk areas

- Zones around dangerous machines where a bright, attention-grabbing warning line is needed
- Light lines have an additional psychological effect – they are treated more seriously

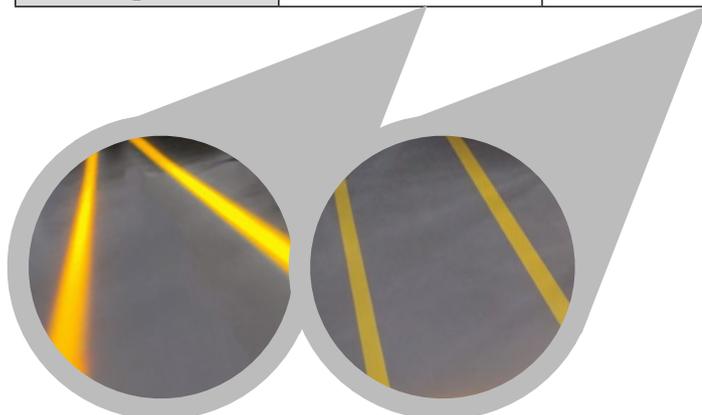


## Benefits of using projection

- **No downtime required** – installation without shutting down the traffic area
- **No wear** – lines do not abrade or fade
- **High visibility** – even in dusty, dark or humid environments
- **Flexibility** – easy relocation or reconfiguration of lines
- **Safety** – light attracts workers attention more than traditional paint

## Comparison: line projectors vs painted lines

Feature overview	LED/laser projectors	Painted lines
Visibility	Always clear	Deteriorates over time
Durability	Years without maintenance	Requires regular repainting
Installation time	A few minutes	Up to several hours + drying
Long-term costs	Low	High
Ability to change the layout	Immediate	Requires repainting





## LASER LINE PROJECTOR

LASER-LINE-30W is a laser device designed to create a sharp and highly visible light line over long distances – even up to 30 meters. It is dedicated for operation in harsh outdoor and industrial conditions, thanks to high resistance to dust, moisture and variable temperatures.

### Safety functions

- Projects a laser warning line in red, green or blue
- Facilitates visual marking of travel routes, hazardous zones and traffic corridors
- Ideal where noise excludes the use of audible signals
- Operates reliably in outdoor conditions – rain, dust, high and low temperatures



COLORS

## Technical parameters

- Power: 25 W / 35 W
- Light colours: red / green / blue
- Projection angle: 45° / 60° / 75° / 90°
- Projection distance: 3–30 m
- Operating temperature: -20 °C to +50 °C
- Power supply: AC 110–240 V
- Cooling: passive, via the housing
- Housing: aluminium and magnesium (aerospace grade), IP67
- Dimensions: 140 × 162 × 175 mm
- Weight: 3 kg (gross)
- Light source lifetime: up to 10,000 hours
- Certifications: CE, RoHS, CB

## Applications

- Outdoor loading and transport areas
- High-bay warehouses
- Industrial workshops
- Areas with high dust or humidity
- Conveyor lines, walkways and hazardous zones

## Why a laser projector?

- **Higher sharpness and precision of the line**

Thanks to the focused laser beam, the projected line is exceptionally clear and well visible even in strong sunlight, bright halls or on uneven surfaces.

- **Longer projection range**

The laser can project a line up to 30 meters without significant loss of brightness – much more than most LED projectors.

- **Better performance in harsh conditions**

With a high protection rating (IP67) and resistance to changing weather conditions, laser projectors are better suited for outdoor use and dusty environments.





## **LED LINE PROJECTOR MODEL: LG100VL-GM**

The LG100VL-GM projector is a high-performance LED device designed for visual marking of hazardous zones, traffic routes and pedestrian walkways in industrial plants. It works perfectly in production halls and warehouses, where a clearly visible light line improves safety for both operators and pedestrians.

### **Safety functions**

- Projects an intense light line in one of the colours: red, green, blue, white or yellow
- Helps identify areas where machines and people move
- Replaces traditional painted markings – it does not wear off and remains visible even on wet or dirty floors
- Operates silently – light signalling instead of audible alarms



## Technical parameters

- Power: 100 W
- Luminous flux: 11,000 lumens
- Light colours: red / green / blue / white / yellow
- Lenses: 55° (standard), 75° and 90° (optional)
- Dimensions: 145 × 245 × 135 mm
- Weight: 2.25 kg
- Operating temperature: -15 °C to +40 °C
- Power supply: 230 V (Plug & Play)
- Cooling: active (industrial fan)
- Housing: aluminium, IP40

## Applications

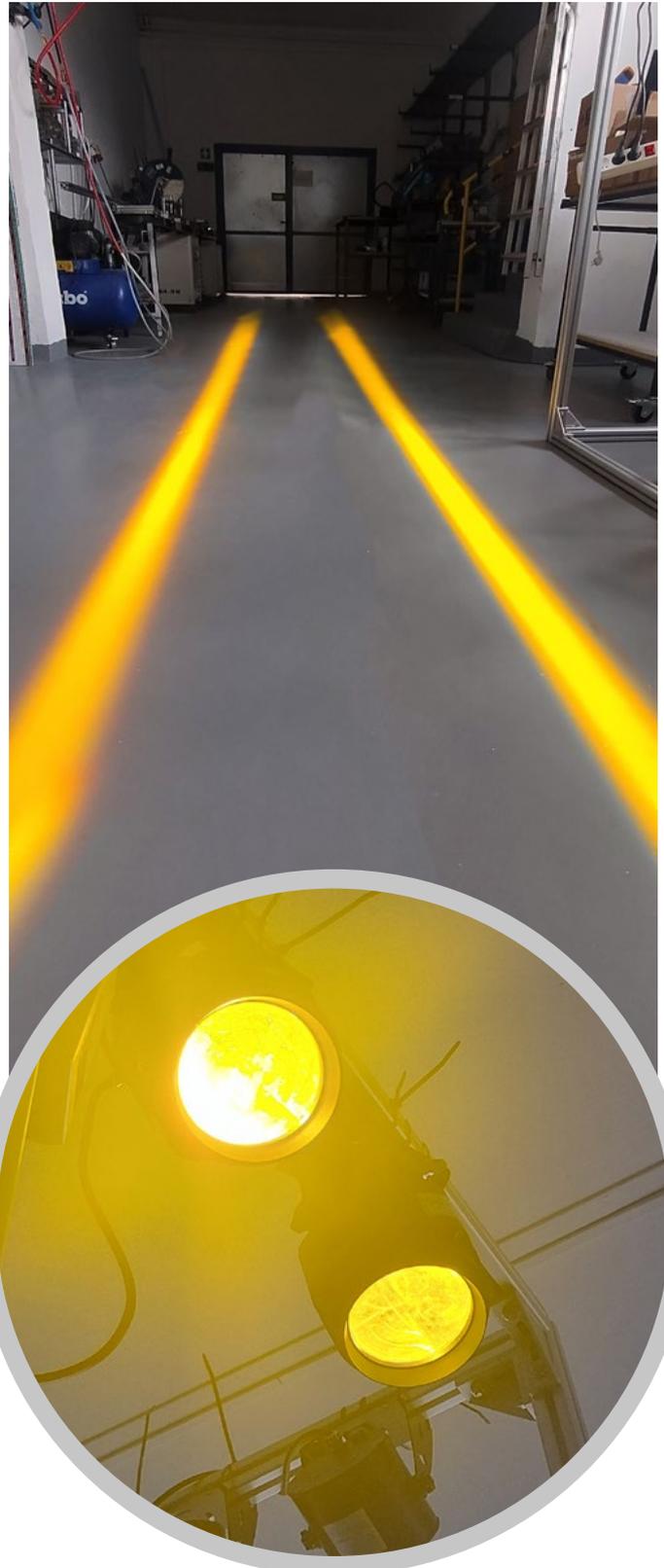
- Production halls
- Warehouses and logistics centres
- Sorting facilities and loading zones
- Assembly lines
- Hazardous areas near machines

## Line length adjustment

The length of the projected line can be easily adjusted by:

- changing the mounting height of the projector (the higher, the longer the line),
- using and manually bending aluminium shields that limit light dispersion,
- selecting the appropriate lens (55°, 75°, 90°) depending on the requirements.

Adjustment does not require tools – it is fast, safe and tailored to the conditions of an industrial hall.





## **LED LINE PROJECTOR MODEL: LED-LINE-27W**

The LED-LINE-27W projector is a compact device that emits a bright, linear light beam to create a clearly visible warning line on the floor.

Designed for industrial occupational safety applications, it improves safety in areas where machines and pedestrians move – both indoors and outdoors.

The availability of different light colours (red, green, blue) allows you to adapt the signalling to specific plant standards or international safety norms.

### **Safety functions**

- Creates a clear light line on the floor – signalling the presence of industrial vehicles (e.g. forklifts)
- Increases visibility of hazardous zones and the boundaries of circulation routes
- Can be used outdoors – housing resistant to water, dust and shocks (IP65)
- Operates in extreme temperatures from  $-40\text{ }^{\circ}\text{C}$  to  $+80\text{ }^{\circ}\text{C}$
- Equipped with reverse polarity protection



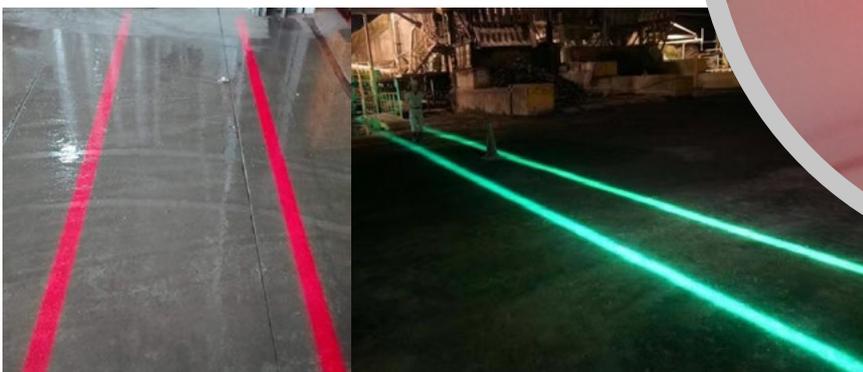
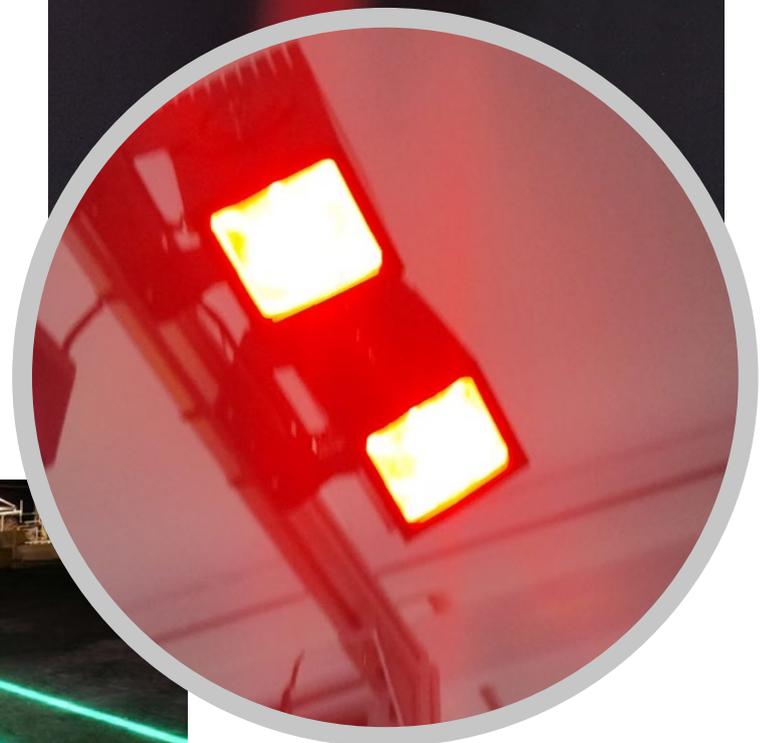
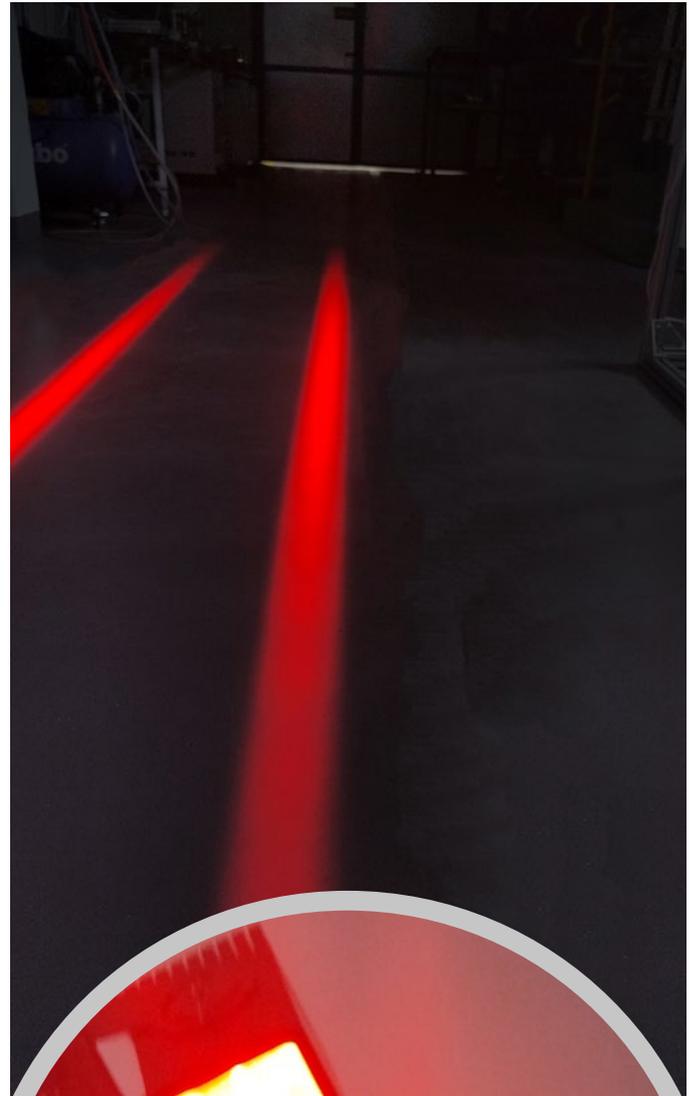
**COLORS**

## Technical parameters

- Light source: 9 × 3 W high-power Osram LEDs
- Light colours: red / green / blue / amber
- Power supply: 10–80 V DC
- Current consumption: green – 1.2 A @ 24 V, red – 0.75 A @ 24 V
- Luminous intensity (LUX): 1100 (green), 900 (red) @ 3 m
- Operating temperature: –40 °C to +80 °C
- Housing: aluminium casting + PC cover
- Dimensions: 100 × 154 × 165.5 mm
- Weight: 1.7 kg
- Lifetime: >50,000 hours
- Protection rating: IP65
- Warranty: 1 year

## Applications

- Production and storage halls
- Forklift traffic zones
- Food, logistics and automotive industries
- Loading and unloading areas
- Locations with high temperature and environmental resistance requirements





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