



GOBOSERVICE
by Sunland Optics srl



Safety Light

Workplace Accidents

Nowadays, reducing or, ideally, completely eliminating the number of accidents at work is a priority.

An accident at work has both human and economic consequences.

The costs of an accident dramatically affect the individual who has suffered it, the person responsible for it, and the company where the accident occurred.

Indeed the European OSHA survey states that in 2019 alone, 55 billion euros were lost due to accidents in the workplace, a sum equal to 6.5% of GDP.



Industrial Accidents

Industry continues to be the sector which sees more deaths and accidents at work. Very often they happen because of bad traffic management in production or in warehouses where security signs usually consist of some floor marking tape or paint and adhesive safety labels which get worn out and become less visible and therefore less effective.



An Innovative Solution

The projection of safety signs is the most effective and economic solution available in the market.

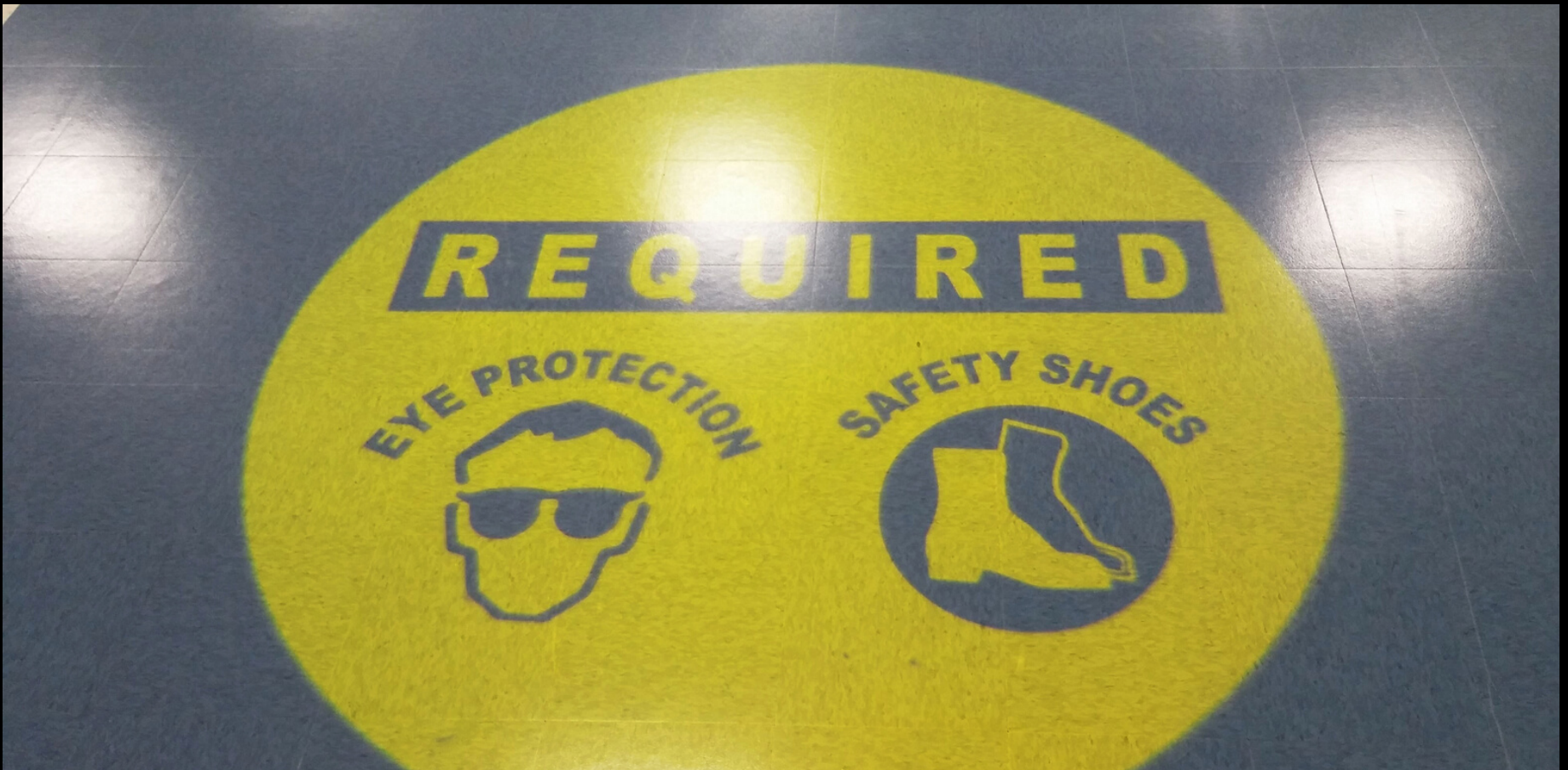
Safety projections are much better than classic signalling systems because they work well in low visibility conditions. Their flexibility and environmental friendliness have led to their rapidly spreading all over the world.

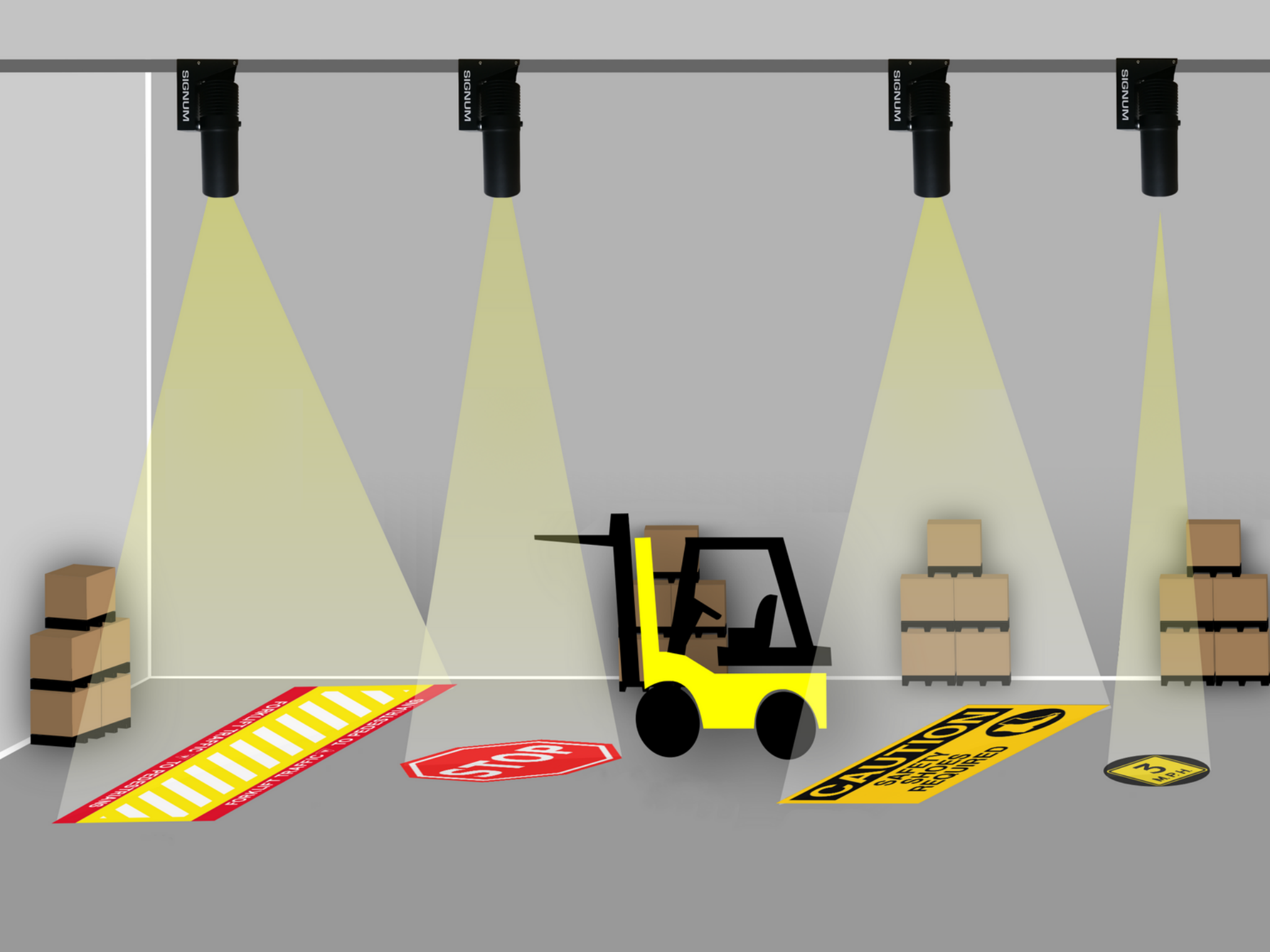


Projected Signage

So how does it work?

The projected signage requires an image projector (a gobo-projector) and the image itself (a gobo). The gobo, which is placed inside the projector, is like a slide but much more durable. The projector is mounted on the ceiling or wall and the security sign is projected onto the surface, meaning it is clearly visible even in low light conditions.





Analysis and Research

Goboservice by Sunland Optics developed the idea of using gobo-projectors in security services based on the Italian Legislative Decree 81/08, where a sign is defined as "a signal that, by means of combination of a geometric shape, colours and a symbol or pictogram, gives a determined indication, whose visibility is ensured by lighting of sufficient intensity".

The use of traditional graphic signs such as posters, adhesives or paint, has been shown to have clear limits, reducing its effectiveness and paradoxically increasing risks in the workplace.

These include:

- **LOW ATTENTION:** over-familiarity with a traditional sign can lead to indifference. They become ineffective when worn out.
- **TIME CONSUMING/HIGH COSTS:** classic signs are subject to wear and tear in pedestrian and vehicular traffic. On average, maintenance/replacement is required every 3-9 months meaning more work. The maintenance management of traditional signals (especially horizontal signals) is also expensive.
- **IMPACT MAINTENANCE:** maintenance of the visibility of traditional signs involves slowing down or even stopping production;
- **INFLEXIBILITY:** traditional signs cannot be repositioned or replaced rapidly;
- **ADAPTABILITY:** it is difficult to achieve a high-impact horizontal marking on uneven surfaces.

SIGNUM, a gobo-projector designed specifically for industrial security applications, based on the analysis of the limits listed above and the experience gained by Sunland Optics in various industrial and logistic environments of the North American and North European market.



An Effective Solution

The innovative gobo-projector **SIGNUM** perfectly adapts to industrial environments: made of lightweight but resistant material, watertight (IP65 certified) and with a passive system of heat dissipation, which prevents dust getting inside the machine through the use of fans.

The following features make SIGNUM the ideal solution:

- **EXCELLENT VISIBILITY**: a projection offers better visibility because the projected image could be transmitted in a "smart" mode with different options such as dynamism, alternation, intermittence and the possibility of integration with a motion sensor. The images thus projected are more noticeable by users. The SIGNUM is characterised by durable, high brightness.
- **LONG DURATION**: the lighting body made of COB LED guarantees the long life of the projector (up to 6 years). No wear and tear caused by pedestrian and vehicle traffic. Resists moisture, cold and dirt;
- **LOW COSTS**: the low energy consumption of COB LED greatly reduces overall costs by ensuring an average ROI of 1-2 years;
- **SIMPLE MAINTENANCE**: maintenance is quick and easy. It does not require any significant impact on the production organisation;
- **HIGH FLEXIBILITY**: small projectors are extremely easy to install and move. Simply replace the gobo to change the sign.
- **HIGH ADAPTABILITY**: the projection adapts to any surface however uneven it may be.

An Effective Solution

SIGNUM SERIES



GOBOSERVICE
www.goboservice.com

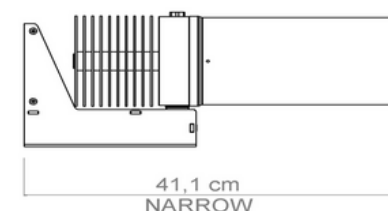
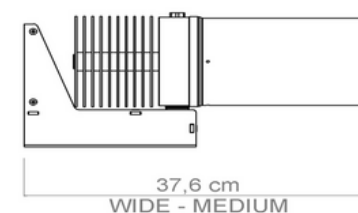
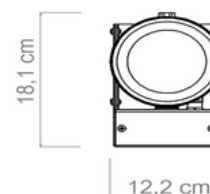
made in italy



A very powerful LED projector designed specifically to project signs in harsh industrial environments. The absence of fans and a degree of protection of IP65 means it can be used in dusty places, both indoors or outdoors, for extended periods of time, with an average LED life of 50,000 hours.

Size & Weight *Dimensioni & Peso*

Length <i>Lunghezza</i>	37,00 cm
Width <i>Larghezza</i>	18,00 cm
Height <i>Altezza</i>	11,00 cm
Weight <i>Peso</i>	6 kg



Construction

Dati Strutturali

SIGNUM

Material
Materiale

Aluminium
Alluminio

Protection Rating
Grado di Protezione

IP65

Color
Colore

Black
Nero

Electrical Parameters

Alimentazione

SIGNUM

Voltage
Voltaggio

100/240 V_{AC} - 50/60 Hz

Power
Potenza

50 W

Lamp

Lampada

SIGNUM

Type
Tipo

High efficiency White COB LED

Brightness
Luminosità

9.000 lm

Color Temperature
Temperatura di colore

6.400 K

Life
Durata

50.000 h

Cooling
Raffreddamento

Passive
Passivo

Included Accessories

Accessori Inclusi

SIGNUM

Optic
Ottica

24,4°

Fixed Gobo
Gobo Fisso

OD: 37,5 mm - ID: 30 mm

Optional Accessories

Accessori Opzionali

SIGNUM

Optics
Ottiche

30,6° - 18,2°

Track - adapter for suspension and fixing
Adattatore per binario elettrificato





Projected Signage Vs.

		Projected		Traditional
Longevity	LONG	Life of the projector (6+ yrs)	SHORT	3-9 months
Maintenance	LOW	Inexpensive and fast. Minimal impact on production	HIGH	Expensive and time intensive. Significantly slows or halts production
Cost	LOW	\$500 to \$6k one-time investment. Typical ROI time 1-2yrs	HIGH	\$1k to \$4k annually
Visibility	GREAT	Active projection = better visibility. Interactive system with proximity sensor can further enhance visibility	LIMITED	Workers become accustomed to traditional signage. Worn signage is hard to see
Durability	HIGH	No wear and tear from foot or vehicle traffic. Stands up to humidity, cold, and dirt	LOW	Foot and vehicle traffic wears off both adhesive and painted signage
Flexibility	HIGH	Swap out the gobo to change signage or just reposition	LIMITED	Signs must be scraped off and reapplied

Traditional Signage





DRAIN OPENING
DO NOT COVER
OR OBSTRUCT





DRAIN OPENING
DO NOT COVER
OR OBSTRUCT







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