



SPIRIT *Solar Powered Lighting Column*

The sustainable stand alone solution

 **kaal**
masten
more than masts

SPIRIT

Solar Powered Lighting Column

The sustainable stand alone solution

Governments are facing the social task of providing sufficient lighting with minimum energy consumption, thereby guaranteeing the safety of public spaces. The innovative **SPiRiT** can help you with this.

- The **SPiRiT** is the most sustainable lighting solution of its kind. The lighting is based completely on solar power, which means that electricity from the grid is no longer required. Moreover, as a CO₂ neutral column manufacturer we have selected the most environmentally responsible materials.
- Besides being a sustainable choice, the **SPiRiT** is also exceptionally practical: a stand alone solution that is delivered plug & play. Moreover, the **SPiRiT** can be custom-built, which ensures that there is an appropriate solution for every location and situation.

Sustainable, stand alone and plug & play: get to know the **SPiRiT**.

SPiRiT

Stand alone

There has been a long-held desire to deliver street lighting without using electricity supplies from the grid (with the accompanying costs and work). As a stand alone solution the **SPiRiT** meets this requirement completely, in both urban and rural areas.

The autonomous lighting system of the **SPiRiT** works on the basis of solar power and LED technology. The light source uses – always and anywhere – the stored solar power. This autonomous operation guarantees savings on your electricity costs.

This makes the **SPiRiT** ideally suited to places without an electricity grid in the vicinity, such as highways, country roads and mountain roads. You save significant installation costs, but are still able to guarantee traffic safety in restrictive circumstances.

Low light yields, thick clouds and indirect sunlight are absolutely no problem for the **SPiRiT**. The column will still always generate the required quantity of power. This even applies during snowfall, because snow does not or barely adhere to the cleverly designed column.



Plug & play

Cabling is a thing of the past with the **SPiRiT**: the column can be placed in a simple manner. Furthermore, all components are pre-fitted into the column, so that it is operational immediately after installation – plug & play. This means that Kaal Masten delivers a complete system that can be installed quickly with minimum installation costs and the lowest possible Total Cost of Ownership.

Smaller CO₂ footprint

With the **SPiRiT** you achieve the most sustainable result with the minimum environmental burden. The energy yield is high, the columns and the batteries are completely recyclable and electricity consumption has been reduced to zero. This significantly decreases the CO₂ footprint of your public lighting.

Kaal Masten makes exclusive use of environmentally friendly and sustainable materials. The column, produced from thermally galvanised iron, is treated in-house with a very sustainable coating system: Kaal DCC coating, which has a CO₂ free application.

Furthermore, the columns are suitable for all high quality LED armatures. This means that the **SPiRiT** is also the most sustainable choice in relation to the lighting.



LED lighting

- Using LED technology completes the sustainable profile of the **SPIRIT**. Besides the design, this responsible choice is also supported by a long life span and a high level of environmental friendliness. Moreover, the maintenance and management costs are minimal.

All high quality 115 or 230 Volt LED armatures are suitable for this column, but we also have solutions for other Voltages.

Stylish look

- With its high quality materials and innovative design, the **SPIRIT** gives the surroundings a completely unique look and a distinctive identity. Furthermore, the LED light creates a pleasant atmosphere for road users. Form and function go hand in hand at the very highest level.



Intelligent control

- The intelligent control system of the **SPIRIT** – developed in-house by Kaal Masten – ensures that the power is efficiently stored and supplied. This involved taking account of all (relevant) environmental factors: from the location of the column and the accompanying day-night rhythm to the quantity of power generated and required at any given time. The smart control system ensures that the lighting functions optimally, when and where you need it.

In a series of columns the columns operate with synchronised switching, but separate switching is also possible.

Modular system

The **SPIRIT** is a modular system in which the solar units and the batteries are built in as separate modules. That means that the height of the columns and the number of solar modules can be adapted to your specifications. You can choose from almost all normal standards, up to and

- including heights of 18 metres.

Kaal Masten

Kaal Masten is committed to sustainable, safe and attractive public areas. We offer a complete range of quality lighting columns and can take care of the entire process from design through to installation. Inspections of columns are also possible.

Active in many areas, such as mobility, lighting, communication, sustainability and safety, Kaal Masten are all-rounders! We provide solutions to complex issues; often by providing customized constructions!

The company is characterized by a sustainable, solution-oriented and cost-conscious way of working, with the principle being the provision of service at each level in the process. Kaal Masten is ISO 9001 certified. Moreover, Kaal Masten is CO₂ Neutral and we encourage the choice for climate-neutral columns.



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