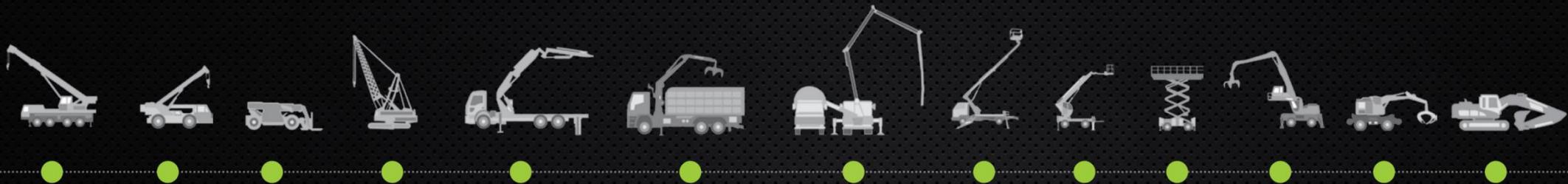


LOAD LIMITER



THRIFTY LED



SPRING

MACHINE CONTROL

ON BOARD ELECTRONIC SYSTEMS





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This family of products is the result of the work of a team that has been carrying out for more than 20 years. We have been designing – manufacturing – selling – installing electronic systems for industrial vehicles for more than 20 years.

In a field where the manufacturers usually rely on the usual partners we have started a project called **DAVIDE ^{vs} GOLIA**

At SPRING we are proud to be able to concentrate on an important goal even in such a difficult period of crisis.

We are proud of our results, because we obtained them thanks to our own strength, ideas, capability, passion and above all thanks the faith that our clients put in our company.

Our goal is not only to satisfy a technical request but also to offer a wide range of high performance products that can give profit from the management point of view.

Your profit is an important part of our project.

Please read carefully to better understand our **DAVIDE ^{vs} GOLIA**

Special thanks:

Clients– above all those who took the project to heart

R&D Smc

UTEC Smc

Technicians Smc

Suppliers Smc - above all those who overcame the obstacles

Thanks of taking part to the project **DAVIDE ^{vs} GOLIA**

”

THRIFTY LED

MOMENT LIMITER FOR INDUSTRIAL VEHICLES

THRIFTY LED is a very versatile system, projected for different applications on industrial vehicles.

The control software is a powerful Moment Limiter, it can be equipped with Traffic Light, the external visual and acoustic signal and the black box events.

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This system is projected in compliance with the Machinery Directive 2006/42/CE and related to UNI EN ISO 13849-1 and 13849-2 PL c.

ITS STRENGTH:

- Data upload with USB industrial key
- Modules – sensors – board IP65
- Safety integrated
- Data logger



SPRING machine control was the first company to introduce systems with the opportunity to **upload the software upgrade using a simple USB key.**

This idea has changed the working habit; during the test and the service, the technicians are no more obliged to have a PC

This characteristics is **appreciated not only by the manufacturer but also by the dealer** that is able to set the parameters of the system during the final installation.



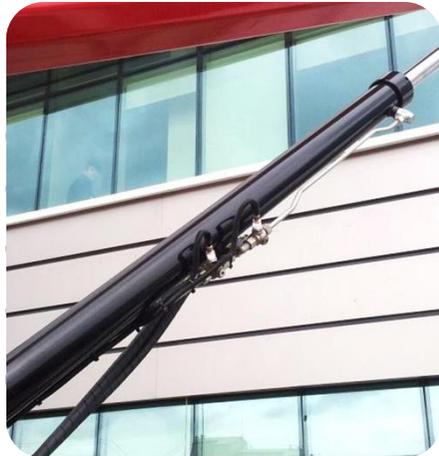
Software, hardware and sensors are manufactured with our trade mark.



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THRIFTY LED The System



Pressure sensors



THRIFTY LED module



Traffic Light

THRIFTY LED

The System

THRIFTY LED is a Moment Limiter. The system reads the main working pressure of the cylinder ARM1. When the machine is in overload condition, the only possible movement is the closing of the extensions arms.

- 100% : When the LED is on at the same time of the LED 90%; it means that the system is in overload condition (the only movements allowed are rotation, extension in and RESET). When 90% LED is off, the system is in extra-overload condition (the only movement allowed is extension in)
- 90% : It gets on when the system reaches the 90% of the overload pressure



THRIFTY LED Technical Features

The THRIFTY LED system is a Moment Limiter for Industrial vehicles.

The system can manage:

- Pressure Sensors, for ARM1 values
- Data Logger
- Two different working area, automatically, selected by digital input
- Output to control TRAFFIC LIGHT (optional)
- Output to control the Damp Valve
- Feedback output Damp Valve limiter
- Electrical harness
- Stabilization of the machine







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MACHINE CONTROL

ON BOARD ELECTRONIC SYSTEMS



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