



Site Safety

Tough TILT

Slope Indicators lead the way in reducing accidents caused by operators exceeding maximum tilt angles of site dumpers

NEW ARRIVALS:

The EMOLICE Si-1 Slope Indicator for Off Highway Machines

AVAILABLE FROM
Emolice Technology, or visit www.emolice.com

PRICE
• POA

OUR RATING



THE GOOD
Purpose designed slope indicator for retrofit or new machines. Designed & tested with a leading machinery suppliers.

NOT SO GOOD
Only available from a limited number of outlets - for now!

The Health and Safety Executive estimate that as many as 33% of deaths on construction sites are caused by site dumpers. Despite an ever increasing focus on health and safety through the adoption of risk assessments, method statements and safe working practices, accidents still happen.

Owners of site dumpers have a duty to ensure that their operators are provided with clear indications that they are using the machine within the safe operating limits prescribed by the manufacturer.

With UK Crown Courts having recently imposed fines and costs of over £150,000 for a breach of Section 2(1) of the Health and Safety at Work Act where an overturned site

dumper resulted in death of the operator, the message is clear; owners and operators need to do more.

To help address the safety challenges faced by site dumper owners and operators, Emolice worked closely with some of the countries leading a equipment suppliers. The result was a purpose designed and built audio visual warning device that can be either retrofitted or used on new off-highway machines such as site dumpers, tractors, excavators and other machines where there is a risk of the machine overturning on gradients.

Comprising an integrated dual axis tilt sensor, the Emolice Si-1 slope indicator measures the operating angle of the machine

PROS/CONS

▲ Purpose designed audio visual warning device for new machines or simple retrofit to existing machines.

▼ Currently only available as an aftermarket accessory or through dealer networks.

in realtime for both pitch (front to back) and roll (side to side). The realtime tilt measurement is shown on two high intensity LCD screens that are visible in both low light and bright light conditions.

Designed to be configured at the time of installation, the Emolice Si-1 is programmed

UK Courts have imposed fines and costs of over £150,000 for a breach of Section 2(1) of the Health and Safety at Work Act resulting in death or injury caused by an overturning site dumper

with the maximum operating angle of the machine. The maximum working angle and all of the other Si-1 settings cannot be changed by the operator.

Whilst the machine is in use, the operator will receive a visual (orange LED) warning when the operating angle of the machine reaches 75% of the maximum working angle.

When the maximum working angle of the machine is exceeded, the operator receives an audible alarm and visual (red LED) warning. Additionally, the relay is triggered, cutting power to any connected attachments or accessories.

For machines where remote angle measurement is re-

quired (for example articulated machines) the Emolice Si-1 offers an external sensor option allowing the tilt sensing to be performed remotely from the Slope Indicator.

In addition to the angle measurement and alarm functions, many of the other features of the Si-1 are testament to the expertise and experience of our partnership with some of the countries leading equipment suppliers.

For example, an automatic self test at power up ensures that all visual and audible indications are working which helps owners and operators ensure compliance with the Provision and Use of Work Equipment Regulations (PUWER) 1998

Additionally, the Emolice Si-1 incorporates a 10-30V DC Protection Circuit to protect from voltages spikes as high as +60V and negative voltages as low as -40V that can often be seen on site dumpers

Finally, the device and all of its' connections are protected to IP66 for outside use in all weather conditions which also allows the Si-1 to remain mounted to the machine during power washing, cleaning and maintenance operations.

Annual safety and calibration testing provides traceability

The Emolice Si-1 is available now, contact your local groundcare specialist or alternatively contact Emolice at www.emolice.com for further details.



10 min installation

4 Step Simple Installation

1 Backplate Mounting

- Mount the backplate using 4x M4 bolts to the console or a suitable mounting bracket prior to attaching the Si-1.

2 Connecting Power

- Connect the power cable via a 2x Pin plug.
- Route and connect the red conductor to an ignition switched 10-30 VDC supply.
- Route and connect the black conductor to either the chassis ground or battery -ve terminal as appropriate.

3 Si-1 Mounting

- Align the Si-1 with the backplate.
- Using the hex key supplied, bolt the Si-1 to the backplate.

4 Configure

- Power up the Si-1 and follow the on-screen menus to configure the device.

AV Alarms:

With the maximum angle configured to 20 degrees, the amber alarm is triggered at 15 degrees and the red alarm and buzzer is triggered at 20 degrees.

