

Field : **ON-BOARD VIDEO SURVEILLANCE**



## Hard drives under high protection

With the constantly increasing number of passengers carried, safety on board trains, underground trains and trams has become a major issue for operators. Surveillance systems mainly involve analysing video images recorded on on-board hard drives. SOCITEC offers reinforced suspension systems to prevent damage caused by impact and rolling vibrations.



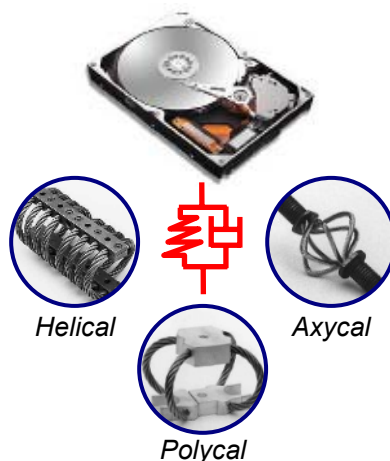
### ULTRA SENSITIVES COMPONENTS

Providing video-channel acquisition of up to 25 images per second, and even integrated multimedia applications in some cases, on-board recorder hard-drives are put to intense use. The need for a high storage capacity encourages manufacturers to downsize mechanical components. Downsizing, however, makes components fragile and particularly sensitive to rolling environments such as roads or

railways. Operators need to make every endeavour to protect the hard drives to avoid being confronted with disk write errors that hinder the recording functions. Furthermore, the maintenance and downtime costs associated with these faults can be substantial.

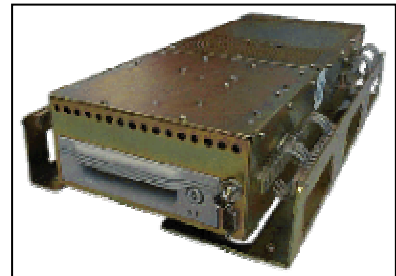
### A RANGE OF SHOCK ABSORBERS FOR ALL WEIGHTS AND ENVIRONMENTS

The means of protection that can be used for the hard drives all depends on the mechanical environment and the geometry of the suspension system. Protection involves isolating either the hard drive only, or the recorder assembly. The sprung mass is a key parameter as it conditions the stiffness of the shock absorbers. These need to be perfectly adjusted to ensure all impacts and vibrations are filtered, and must be able to guarantee excellent fatigue strength over time.



Boasting extensive experience and a full range of HELICAL, POLYCAL and AXYCAL wire rope isolators, SOCITEC is able to provide customized solutions.

### A MYRIAD OF APPLICATIONS



SOCITEC works in partnership with the leading manufacturers of recording apparatus designed for human transport surveillance. This activity is one of many, as SOCITEC has developed a multitude of showpiece solutions already appreciated in the field of defence and in the industrial sector. Whether on workstations or integrated into portable computers, several thousand hard drives are currently suspended using systems designed and manufactured by SOCITEC. These can be seen on board road vehicles or caterpillars, war ships, submarines and fighter aircraft, not to mention in production workshops where certain hard drives are isolated from mechanical stresses generated by production tools.