EverScan

Assessment of cable-stayed and prestressed structures

YOUR CHALLENGES

- Predict **structural risks**
- **Good knowledge** of the state of your assets
- Detect **hidden defects**
- **Secure** heavy maintenance operations
- Guarantee **safety** of users
- Validate **conformity** and **extending lifetime** of assets

OUR SOLUTION

Assessment of cable-stayed and prestressed structures:

The **EverScan** range includes innovative inspection tools to assess structural pathologies and help predict the residual life of infrastructures.

Our solutions provide loads, stresses and strains **measurement.** They allow to **detect hidden defects**, such as corrosion, fatigue and other failures, before they become visible.

THE BENEFITS

- Receive **relevant information** about the current state of your asset
- Obtain measurement of hardly accessible data from cutting edge **non-destructive control**
- Prepare optimal **monitoring and maintenance plan** for your asset

Sixense's

- A unique expertise and unparalelled references on cable-stayed structures (shrouds and prestressing)
- Unique and patented techniques.
- More than 20 years of experience
- Complete monitoring panel
- Possibility to combine monitoring and surveys in a global Sixense offering.

CONTACT US

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› INFRASTRUCTURE MONITORING – STRUCTURAL HEALTH MONITORING - SHM

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APPLICATIONS

On prestressed or cable structures, **EverScan** allows to:

- Measure cable **tension** and **damping**
- Detect **broken wires** in the strands
- Detect **voids** and **white paste** inside injected cables
- Measure **stresses** in concrete structures
- Measure **tension** in prestressed bars
- Detect **defaults** in structures by measurement of vibration behaviour
- Perform an **expert analysis** of the data
- Anticipate and optimising **maintenance operations**

ASSESSMENT OF STRUCTURAL HEALTH STATE

Our solutions for assessing hidden defects and signs of structural ageing:

Escan
Void and white paste detection in cement grouted stay cables or external prestressing cables.

Uscan
Assessment of stays or prestressing cables by ultrasonic measurement of wire state in the anchorage zone .

Modal analysis
Vibration analysis of a structure in order to assess its health by the variation of its eigenfrequencies.

LOAD AND STRESS MEASUREMENTS

Our solutions for measuring loads and stresses in cable-stayed and prestressed structures:

Slotstress
Measurement of the effective residual stress in a concrete structure.

Upus®
Assessement of tension in bars and bolts by ultrasonic measurement.

Vibration analysis
Vibration analysis of cables in order to assess their loads and damping capacity.

REFERENCES

- Ile de Ré Bridge, France
- Evripos Bridge, Greece
- Grand Paris Express - Lot T3C, France
- Normandy Bridge, France

CONTACTEZ-NOUS

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