

## Pantograph Damage Monitoring System

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[NewRail, the Centre for Railway Research at Newcastle University together with the specialised design and analysis company Northern Power Transmission Research Laboratories and the leading rail services provider Serco Assurance-Railtest have pioneered a unique novel system, which allows impact between overhead line and pantograph to be measured on normal service trains.](#)

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[Pantograph Damage Monitoring System](#)

[A system for evaluating the condition of a pantograph, the system comprising: a track-side pantograph monitoring station that captures one or more images of a pantograph, while a locomotive comprising the pantograph is in normal service; a station management system that analyzes one or more images captured at the monitoring site and determines the condition of the pantograph; and a user ...](#)

[US9061594B2—Pantograph damage and wear monitoring system ...](#)

[The automatic diagnosis systems can be installed directly on the locomotive, as are those based on the analysis of mechanical stress suffered by the pantograph or of the noise generated by friction...](#)

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[PANTOBOT 3D is the world’s first fully automated three-dimensional wayside pantograph inspection and monitoring system. Deployed by rail operators across Europe, North America, and Asia, PANTOBOT 3D uses advanced imaging and machine learning to assess pantograph condition – safely, in real-time and without the need to withdraw trains from service.](#)

[PANTOBOT 3D—CAMLIN Group](#)

[Serco’s extensive experience in pantograph testing and overhead line monitoring enabled us to develop an unattended pantograph monitoring system in partnership with Transmissions Dynamics Ltd. This system needed to be capable of being fitted to vehicles operating in passenger carrying service and has been designed to automatically detect and report the type of faults which lead to pantograph damage and possible de wirement incidents.](#)

[Unattended Pantograph Monitoring Systems](#)

[The Pantograph Condition Monitoring System \(PCMS\) is installed above the railway to automatically scan the condition of pantographs as they pass underneath. The process occurs without any contact between the system and the rollingstock itself: as the vehicle passes through the scan location, the system assesses wear on the pantograph head, and scans for any chips or damaged areas.](#)

[Catenary and pantograph monitoring catching snags before ...](#)

[In order to test the theory, Great Western Railway made available a class 387 electric multiple unit to which was fitted the pantograph monitoring camera. Following a calibration exercise to eliminate any lens distortion and ensure the pantograph was within height range, a network video recorder \(NVR\) was installed into the train roof-space.](#)

[OLErt—Overhead Line and Pantograph Monitoring | Rail ...](#)

[wear monitoring pantograph damage pantograph damage wear Prior art date 2007-08-06 Legal status \(The legal status is an assumption and is not a legal conclusion. Google has not performed a legal analysis and makes no representation as to the accuracy of the status listed.\) Granted Application number EP08782885.1A Other languages German \(de ...](#)

[EP2174117A4—Pantograph damage and wear monitoring system ...](#)

[Overhead Catenary System \(OCS\) inspection system Pantograph Monitoring System. For line doing mutual direct operation between the different railway companies, it detects any pantograph abnormalities. By the camera installed near the structure \(like beam, etc.\) near the operating boundary of each railway company, the photograph of pantagraph on the crossing train is taken each time automatically.](#)

[Pantograph Monitoring System | Overhead Catenary System ...](#)

[The Pantograph Condition Monitoring System \(PCMS\) provides automated analysis and reports on the condition of pantograph heads on electrified rolling stock passing through a monitoring site. Automated analysis from this system allows for the prevention of over-head wiring tear down incidents that are a result of damaged pantograph heads and also allows for predictive maintenance of carbon strips.](#)

[Pantograph Condition Monitoring System—Australian Rail ...](#)

[Product approval based on a successful two year in-service trial at Cheddington on the West Coast Main Line. Network Rail, the UK infrastructure manager, has confirmed that Ricardo Rail’s pantograph monitoring system – known as ‘PanMon’ – has been formally approved for use across the national network. Ricardo Rail is now working with Network Rail for a wider roll-out of the system, commencing with four sites on the West Coast Main Line \(WCML\).](#)

[Ricardo pantograph monitoring system approved by Network ...](#)

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[Internal or external factors affect the dynamic behavior of the system and lead to parameter variations. A pantograph in “non-standard conditions” might adversely affects the contact line or that requires a specific maintenance activities. A complete inspection of each of its parts is needed to perform data correlation.](#)

[Pantograph Parameters measurement and inspection systems](#)

[The system consists of an acquisition and Data Processing Module \(DPM\) installed on the live pantograph frame, which continuously monitors the acceleration at the pantograph head and detects when transient signals exceed user- defined limits.](#)

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