



# Amphill Panchex

Client: Network Rail East Midlands | Value: £1.5m | Project Start: 09/21 | Project End: 03/23

## Working collaboratively to deliver on budget and time

SPL Powerlines UK were commissioned by the East Midlands Network Rail team to undertake a scheme of works which was to install pantograph monitoring cameras and equipment to the fast and slow lines at Amphill on the Midland Main Line SPC1.

The approximate extent of the East Midlands route encompasses - Midland Main Line from St Pancras to Chesterfield. The geographical area of panchex works focusses on the 25 kV Electrified SPC1 route specifically at Amphill.

The SPL Powerlines UK team worked closely with sub-contractors to enable works to run on budget and on programme.

WORKS DELIVERED BY SPL POWERLINES UK INCLUDED
Install 3 x 610chs piles
Install 1x portal structure and 1x TTC structure
Install new civils base to house 4 x processor units
Convert existing electrical feed to supply the Pantobot system
Install associated SPS to enable Camlin's to install the pantograph monitoring cameras
Enable and work alongside Camlin's to install 4 x Pantobot monitoring cameras and the associated cabling

## Enabling safer working through Pantobot

The pantograph monitoring system known as Pantobot was designed and installed by specialist contractor Camlin's, the pantograph system is the Pantobot 3D and is the world's first fully automated three-dimensional wayside pantograph inspection and monitoring system for rail monitoring. The rail monitoring and pantograph system allows operators to see the full picture of pantograph condition.

The Pantobot monitoring cameras enable safer working, accurate and repeatable results, reduces the risk of OLE tear downs and helps train operating companies and Network Rail maximum fleet operating capabilities.

