

Connected Rear Warehouse with Fibre

A manufacturing site needed to extend the network to a rear warehouse filled with CNC machines and CCTV cameras. Wireless was not an option due to heavy interference from plant equipment, so we ran a dedicated 300-metre fibre link with ducting, then tied it back to the office core and onward to the data centre.

KEY RESULTS

300m

fibre run with protected ducting

100Gbps

core-to-core and dark fibre to data centre

40

CCTV cameras and CNC machines
connected reliably

BEFORE

- Rear warehouse had no reliable network connectivity for CNC machines and CCTV cameras
- Wireless links failed repeatedly due to electrical interference from machinery and metal racking
- 40 CCTV cameras needed stable bandwidth back to the office and data centre recording systems
- CNC machines required low-latency, consistent access to file servers and management systems

AFTER

- 300m - fibre run with protected ducting
- 100Gbps - core-to-core and dark fibre to data centre
- 40 - CCTV cameras and CNC machines connected reliably
- Surveyed the 300-metre route and planned ducting to avoid existing services and vehicle traffic

"The warehouse used to drop off the network every time a machine cycled. Now the cameras and CNC gear stay online even when the plant is running flat out."

- Operations manager, manufacturing site