



Premier Gate Automation

Electric Gate Installation Process – A Professional Overview

Electric gate installation is a professionally managed process that combines bespoke fabrication, civil works, automation systems and safety compliance. When correctly designed and installed, electric gates provide reliable, discreet and secure access control.

Executive Summary

Installation involves site assessment, technical design, civil works, mechanical installation, automation commissioning and safety verification. Each phase is documented to support compliance and long-term performance.

Pre-Installation Site Assessment and Technical Design

- Entrance layout and available space
- Ground conditions and drainage
- Structural requirements for posts, pillars and foundations
- Power supply and cable routes
- Vehicle and pedestrian traffic flow
- Initial risk assessment and safety considerations

Civil Engineering and Groundworks

- Excavation and foundations
- Structural steel posts or masonry pillars
- Ground tracks or cantilever structures
- Drainage and ducting
- Surface reinstatement and finishing

Gate Fabrication and Mechanical Installation

- Mounting gate leaves or sliding structures
- Installing hinges, rollers or cantilever assemblies
- Alignment and geometry checks
- Structural fixings and reinforcement

Automation and Electrical Installation

- Gate operators (motors)
- Control panels and enclosures
- Power supply and backup batteries
- Photocells and safety edges
- Keypads, intercoms and ANPR systems

Safety Systems and Safeguarding

- Controlled movement geometry
- Safety edges and presence detection
- Force monitoring systems
- Emergency stop devices and signage

Commissioning and Testing

- Functional testing
- Safety device verification
- Control logic configuration
- Final alignment and adjustments
- Force testing where appropriate

Documentation and Handover

- User instructions
- Declaration of Conformity
- Maintenance recommendations
- Risk assessment and safety records

Ongoing Maintenance and Aftercare

Planned maintenance and periodic safety reviews help ensure continued safe operation, reliability and compliance throughout the system's working life.

How Premier Gate Automation Manages Installations

Premier Gate Automation designs, fabricates and installs bespoke electric gate systems across residential, commercial and public sector environments throughout Essex, London and the Home Counties.

Speak to Our Team

If you are planning a new installation or upgrading an existing system, our team can provide practical advice on design, specification and installation procedures.

www.premiergate.co.uk