



PRODUCTS

INTERLOCKING SYSTEM:

- SIL4 safety level for generic and specific applications
- ETCS L1 compliant solution to manage MAs and TSR for line and stations
- 2oo2 or 2oo3 hot-redundant architecture provides highest availability
- All-electronic system and object controllers with fail-safe design concept
- Modular architecture allows the product to be scaled for multi-station applications
- Diagnostic system and tools ensure system maintainability

TRAM / LRT CONTROL SYSTEM:

- SIL3 / SIL4 safety level for signalling and onboard control systems
- ATP protection via on-board unit for shorter headway solutions
- Point control/setting via on-board unit or local buttons
- Wayside controllers can be placed in outdoor panels
- Centralized command/control software can be provided
- Train categorization and timetable management via centralized software
- Train detection via axle counters, loops and track circuits
- Road traffic control interface at crossings



LEVEL CROSSING CONTROL:

- Independent level crossing solution with SIL4 safety level
- ETCS L1 compliant solution without interfering with existing IXL and ETCS L1
- Control equipment can be placed inside the outdoor cabinet
- Obstacle detection system can be provided for an additional safety function
- Environmentally friendly, solar-powered control system
- Easy to install and quick commission the system to meet the highest operator standards
- Diagnostic system for remote connection via existing communication infrastructure

PLATFORM SCREEN DOORS:

- Meet the highest safety standards up to SIL4 solutions with the highest availability
- Modular design to adapt to different customer needs and height requirements
- Easy installation of units as pre-assembled in factory or assembled in the platform area
- Local control panels used for local operation under special personnel authorization
- Safety interface established with CBTC control system

DEPOT MANAGEMENT SYSTEM

- Solution delivered to customer up to SIL4 safety level
- Easy implementation on complex layouts to deliver system in short time
- Safe and adaptable interface solutions with mainline signalling system
- Area management without restriction on the amount of wayside equipment

PROJECT MANAGEMENT

- Deliver efficient solutions for railway signalling and telecommunications projects
- Follow best engineering practices to deliver systems in the shortest time
- Work with state of art technology providers are partners in all fields of railway S&T
- Customer-oriented approach to reach satisfactory outcomes for all parties
- Design & Implementation know-how prevents costly results in each stage of the project
- Excellent system integration management to detect interface problems at the earliest possible stage

ENGINEERING SERVICES

Manufacturing:

- Turnkey signal mechanical manufacturing of housing, masts, plates and base foundations
- Mechanical manufacturing for customized needs for wayside equipment

Installation:

- Installation of S&T and power equipment both wayside and inside of buildings
- Preparation of cable distribution and installation plans for mainline and metro projects

Test and Commissioning:

- Test and Commissioning of signalling, telecom and power systems with experienced team
- Preparation of test and commissioning plans for overall or partial commissioning

Maintenance and Operational Services:

- Maintenance of S&T and power systems with preventive and corrective maintenance
- Fast and accurate hands-on response to faults by experienced teams

ABOUT US

AstraG is a railway technology company founded in 2024 in Ankara, Türkiye. Experts with over 20 years of experience in different fields within the company have come together.

AstraG brings the best solutions with its own products provided via state-of-the-art technology providers and/or technology transfer model. Products are customized by a proficient engineering team for each project to meet the highest standards, quality, and customer needs.

Projects are managed in detail starting from tendering/planning stage through design, procurement, implementation, system integration to final commissioning stage. Interface management is a key factor in delivering successful projects. Experienced management team identifies the issues and solves them in fastest and cost-effective way without compromise from quality.

Engineering services are also another business line as wayside mechanical component manufacturing, installation and maintenance activities to be carried out by specialized teams.

The company culture thrives on diversity and has a passion for focusing on systems engineering principles, technological development and innovation



Astrag

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**SAFETY
FIRST**

TO PROVIDE HIGH
QUALITY INNOVATIVE
SIGNALING SYSTEMS