

Istanbul Ulaşım



ISTANBUL
METROPOLITAN
MUNICIPALITY



The holistic solution for railway mobility



Istanbul Ulasim



Established as a municipal subsidiary in 1988 by Istanbul Metropolitan Municipality with the aim of serving its citizens, Istanbul Ulasim offers safe and comfortable transportation services to more than 1 million passengers each day. Operating nine different inner city railway lines amounting to a length of 120 km, the company also provides maintenance services for these lines and their vehicles.

With over 20 years' experience and a highly-qualified workforce, Istanbul Ulasim makes and continuously improves engineering applications and provides operations and maintenance services. Other activity areas of Istanbul Ulasim include:

- Engineering and Consulting
- Renovation and Turnkey Systems
- Operations Management Tools
- Rolling Stock Design and Manufacture

Istanbul Ulasim pursues a business policy that makes customer satisfaction and service quality the first priority. Its products, services, and every phase of its rail-system investments are continuously improved thanks to the successful transfer of operations experience.

Operations

With 9 different urban railway lines in operation, amounting to a length of over 120 km as of 2012, Istanbul Ulasim offers safe and comfortable public transport services to more than 1 million passengers every day.

By expanding the current railway network from 120 km to over 600 km in the long term, Istanbul Metropolitan Municipality envisages to increase the share of railway systems in inner city public transportation up to 45%.



**Life in the Metro:
As Vibrant as on the Street**

Beyond simply fulfilling the task of passenger transportation, Istanbul Ulasim sees all its customers as guests, offering them social facilities with cafés, ATMs, kiosks, childcare and exhibition/art galleries located in its stations; thus it ensures a high-quality experience for its passengers.



Istanbul Ulasim offers the following services for transportation authorities:

- Operations Planning
- Traffic Management
- Station Services
- Management for Operations Control Center



Quality in Transportation

As part of its operations, Istanbul Ulasim also provides operational services compatible to EN 13816 standards.



Maintenance and Repair of Rolling Stock

Istanbul Ulasim performs periodic and overhauling maintenance services for its rolling stock fleet comprised of over 600 railway cars with 12 different models, which cover a total distance of 62 million km every year.



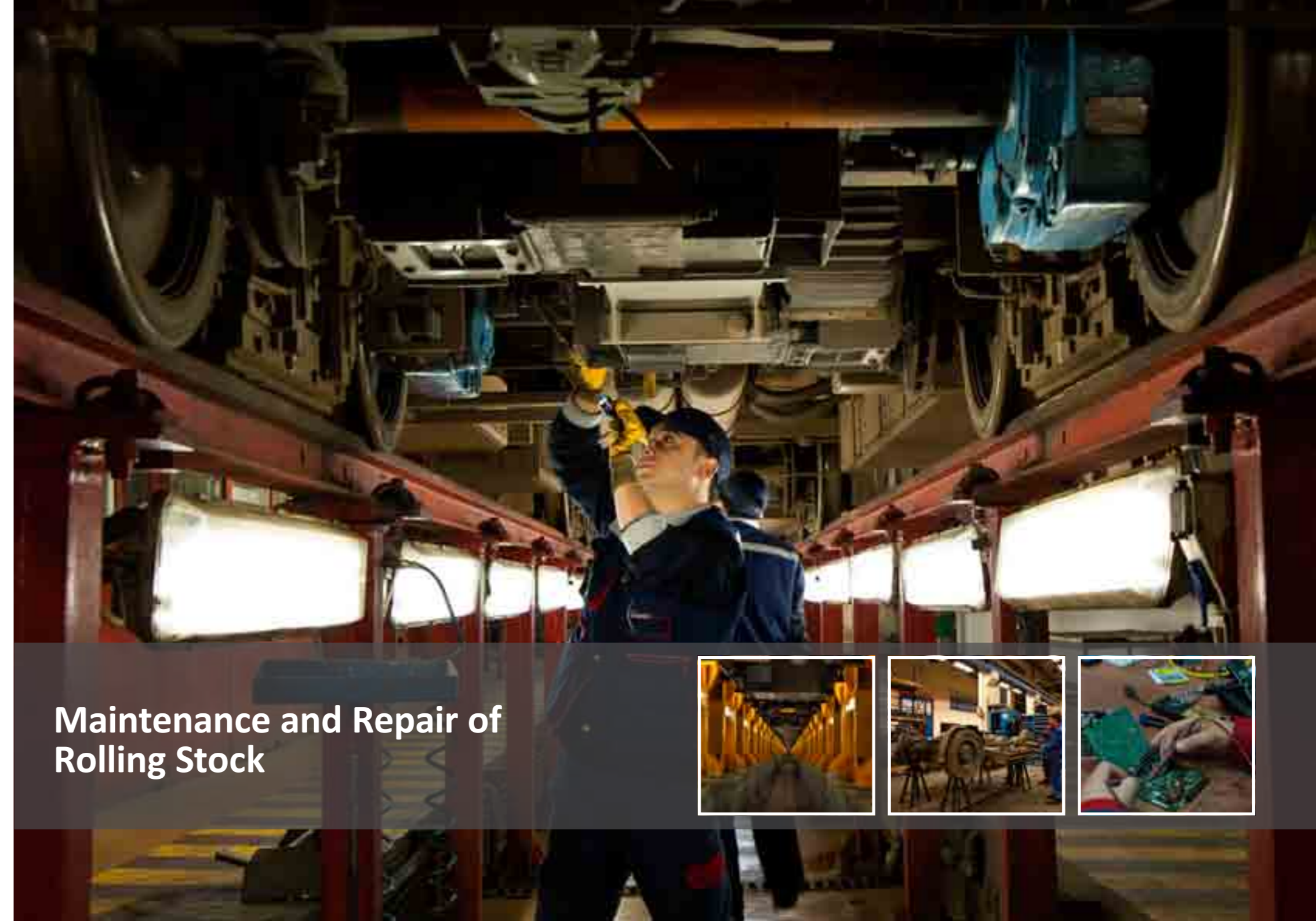
Istanbul Ulasim houses maintenance and administrative facilities covering a total area of 220.000 m2, including 90.000 m2 of enclosed spaces. Its maintenance services include

- Protective/Corrective Maintenance
- Overhauling Maintenance
- Vehicle Refurbishment



With over 20 years' experience of maintenance, Istanbul Ulasim successfully performs modernization & modification of vehicles approaching the end of their life cycle.

For acquiring a more competitive position in the market, Istanbul Ulasim also successfully works with local partners for localization of spare parts to decrease maintenance costs.



Maintenance and Repair of Rolling Stock





Facility Maintenance Services



Istanbul Ulasim successfully performs the maintenance of railway lines and auxiliary facilities built with different technologies. It has 20 years of maintenance experience and performs various services with a fully equipped machinery park, technological measurement devices and a highly qualified engineering and maintenance workforce.

Track Maintenance Services

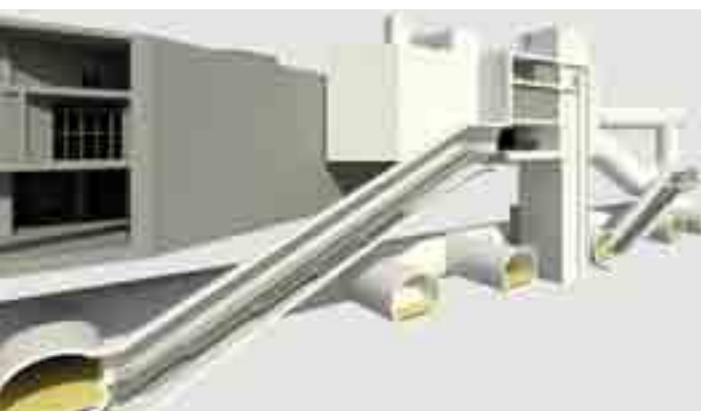
In order to maintain rail tracks, Istanbul Ulasim provides the following services:

- Track Maintenance
- Track Rehabilitation
- Rail and Turnout Welding
- Track Geometry Maintenance
- Track Control and Measurement
- Geometrical Measurement
- GPR
- Ultrasonic Inspection

Electro-Mechanical System Maintenance Services

For facilities with more than 500 MW of installed capacity, Istanbul Ulasim successfully performs the following maintenance activities.

- MV Power Supply and Distribution Systems
- Traction Power Supply and Distribution Systems
- Auxiliary Power Supply and Distribution Systems
- Catenary / 3rd Rail Systems
- Signaling Systems
- SCADA / ECS Systems
- Communication/Transmission Systems
- CCTV Systems
- Passenger Information Systems
- Fire Detection and Extinguishing Systems
- HVAC Systems
- Lift/Escalator Systems
- Drainage Systems etc.



- Consulting Services**
- Tendering and Contracting
 - Project Management
 - Civil, E&M Systems and Vehicles
 - Operation Start-Up
 - Organization
 - Operations and Traffic Planning
 - Training (Operations, Maintenance)



Engineering and Consulting Services

Istanbul Ulasim offers a wide range of services in the Railway Transportation Industry, including Consulting, Feasibility Studies, Design and Construction Supervision.

Istanbul Ulasim successfully implements its operation experiences into every design phase for railway projects.

Engineering Services

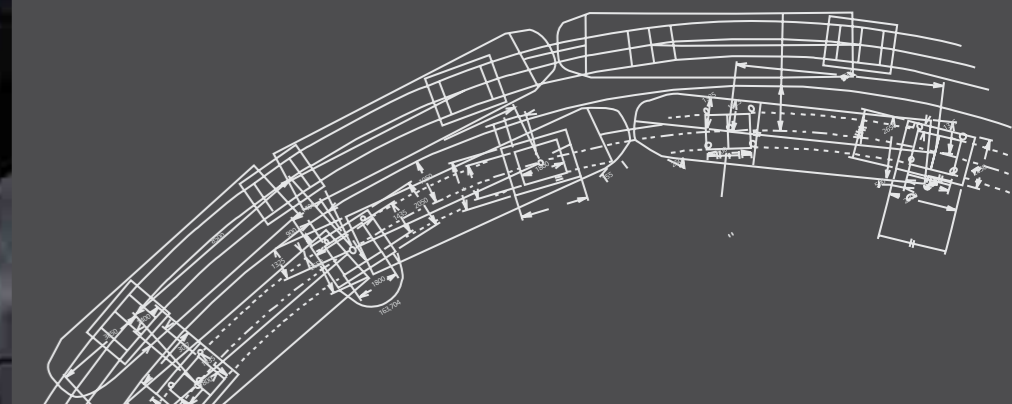
- Etude and Feasibility Studies
- Transport and Routing Studies
- Rail System Infrastructure Planning
- Design and Operation Standards
- Economic and Financial Analysis

Design Services

- System Design
- Routes and Route Structures
- Station and Transfer Facilities
- Electro-Mechanical Systems
- Depots and Workshops

System Integration Engineering

- System Integration Engineering for Railway Systems



Renovation and Turnkey Projects

Thanks to strong experience in renovating facilities and increasing capacity, İstanbul Ulasim can also offer turnkey solutions for railway system projects.

Not only does it perform system installation for new construction projects from the earliest stages of design, but it also successfully undertakes all sorts of renovation, capacity-building and expansion activities for existing systems without disturbing the regularity and safety of the operations.

Operations Management Tools

With well-established operations and maintenance experience for requirements identification and solution offerings, İstanbul Ulasim develops and continually improves Technological Management Tools for enterprises.

Trend: A brand of İstanbul Ulasim, as an Enterprise Resource Planning (ERP) Application.

Trend covers the following modules,

- Procurement Processes
- Warehousing Processes
- Failure Notification and Work Order Processes
- Maintenance Planning Processes



- Suggestion and Follow-Up Processes
- Work Management
- Records Management
- Project Follow-Up
- Advance Payment Workflow, Contract Workflow, Annual Leave Demand Workflow
- Reporting

İstanbul Ulasim offers renovation and turnkey solutions for systems listed below:

- Tracks
- MV Power Supply and Distribution Systems
- Traction Power Supply and Distribution Systems
- Auxiliary Power Supply and Distribution Systems
- Catenary / 3rd Rail Systems
- Signaling Systems



- SCADA / ECS Systems
- Communication/Transmission Systems
- CCTV Systems
- Passenger Information Systems
- HVAC Systems



Vehicle Characteristics

Vehicle type : Light Rail Vehicle (High Floor)
Vehicle Length : 25.000 mm
Vehicle Width : 2.650 mm
Passenger Capacity : AW3/264 (6 pass/m2)
Maximum Capacity : AW4/340
Train-set: 2, 3 or 4 vehicles
Track Gauge: 1435 mm
Traction Power: 750 V DC



Design and Manufacture of Rolling Stock



Design and Engineering

Industrial Design
Car Body and Bogie Design
Structural Analysis / FEA
Vehicle Dynamic, Stability and Comfort Analysis
Mass and Weight Analysis
System Design and Integration
Performance Calculation

Project Vision: New Generation Vehicles

Istanbul Ulasim envisages a new-generation tramcars for Istanbul, featuring a modern and state-of-the-art design, high-reliability, cost-effectiveness and compatibility with international standards. Featuring a new visual design selected by a popular poll, the new LRVs are intended to suit local operational and passenger needs, which would enhance mobility in the urban area and harmony with the urban fabric.

Innovative Features

Dual function; Tramcar and LRV
Modular Adaptable Front Design
Crashworthy Buffer Design
Integrated Passenger Information and CCTV System
LED Lighting
Fire Detection System



From idea to reality: The RTE2009 tramcar

Specially designed from scratch by Istanbul Ulasim for the citizens of Istanbul, the RTE 2009 tramcar was manufactured in 2009 and entered into service the same year. Characterized by a visual exterior design well-integrated with the historical urban fabric, the vehicle offers a modern and functional technology of high reliability. It features an impressive industrial design and technology including composite lining, failsafe vehicle control, CCTV surveillance system and video screens in the driver cab. The interior design with special emphasis on passenger comfort ensures a rapid passenger circulation, impresses the users with a friendly color scheme and incorporates LED lighting and passenger information system.



ISO 9001-2008 | ISO 14001-2004 | OHSAS 18001-2007



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