ISTANBUL CONCRETE ELEMENTS AND READY MIXED CONCRETE FACTORIES CORPORATION (ISTON)

ISTON Istanbul Concrete Elements and Ready Mixed Concrete Factories Corporation has been founded by Istanbul Metropolitan Municipality in 1986 for producing quality solutions to cities needs for infra and super structure. ISTON provides products and services to other cities of Turkey as well as Istanbul, also exports to several countries in the World. ISTON carries out production of concrete and reinforced concrete pipes, paving stone, bordure, ready-mix concrete, industrial prefabricated building elements, urban industrial structures, city furniture as well as contracting and project service.

Large-Scale Facilities equipped with High Technology

Tuzla, Bayrampaşa and Hadımköy Facilities of ISTON Co. spread over 355 300 m² land, 61 103 m² of which consist of closed area. Hourly production capacities of these facilities are 127.21 m³ concrete and reinforced concrete pipe, 440 m² paving stone, 400 m long bordure, 230 m³ ready-mix concrete, 60 m³ prefabricated products. Additionally, capacity of Reactive-Powdered-Concrete is 60 products per day and capacity of street furniture is 3 000 m³ per year.

1805 Different High-Quality Products

By serving private sector in addition to the municipalities, ISTON Co. is a leader company in its sector with its production technology, 1805 kind of product and high quality standards. Along with production of goods and service, ISTON Co. takes technology production as a responsibility. For this reason, ISTON Co. leads the improvement of construction industry and earns new high-tech products to the country with a powerful R&D team and collaboration with universities.

Goal: Modern Cities…

In order to create modern cities, ISTON Co. designs and manufactures infrastructures and superstructures and continues working for regulating living spaces. By doing these, ISTON Co., with the responsibility of being the leader in the market, aims to manage the changes and developments, and to create competition in producing qualitative products and services for the sake of the public benefits. In line with these objectives, keeping quality level of production high by increasing efficiency in the production line, increasing product and service variety with the help of R&D and design studies and investing on new technologies, creating alternative innovative solutions for the infrastructure and superstructure needs of the cities, exporting the designs and production know-how are planned.

For Today’s Needs Production of Paving Stones and Bordures with Modern Standards

Modern Standards, raised by civilization and industry, require more economical road and pavement coating methods which reach the large masses. Designs of matching units with different size, dimensions and colors answer the requirements of the modern world. ISTON Co. has high-capacity facilities in which 30 types of paving stones and 16 types of bordures in different colors can be produced with sandblasting and washing. The paving stones and bordures, produced in fully-automated facilities based on TSE quality and strength requirements, are diversified with various coating materials as a result of R&D studies. ISTON Granite, ISTON Basalt and Brick Red branded natural surface paving stones are the first products for this objective.

Street Furniture Suitable for Texture of the City

Since 1996, ISTON Co. has presented street furniture like planters, benches, litter bins, cycle stands, bollards, tree base grills, tree preservatives, picnic tables, pergolas and gazebos with an international new trend. A new dimension has been gained to the city aesthetics with the variety of city accessories. Street furniture, produced from concrete, wood and metals according to TS 7941 standards, is the production receiving the most attention from abroad.

Products Suitable for Children's Mental and Physical Development

An expert staff consisted of industrial product designers, landscape architects and engineers design ISTON Children’s Playground based on children’s mental and physical development
criteria. ISTON Co. produces Children’s Playground based on TS EN 1176 standards by taking safety, durability and simplicity into consideration.

ISTON Industrial Products Adding Values to Urban Life

ISTON brand Industrial Products are designed based on city’s historical texture, cultural structure and geographical specialties. ISTON brand sales buffets, safety cabinets, multi-purpose offices and bus stops are adding value to the urban life with their functionality and aesthetics.

Modern Taxi Cabinets from ISTON Co.

Taxi Cabinets manufactured by ISTON Co. are consisted of three modules, one of which includes one commercial unit, ATM and knowledge bank, the other one of which includes driver’s waiting/contact room and the last one includes a toilet. These products are manufactured in order to minimize presence of taxis in the traffic and safe travel, and applied in many cities of Turkey.

Other Urban Structural Products of ISTON Co.

Reeve rooms, safety cabinets, contact offices, café-restaurants are the industrial urban structural products of ISTON Co.

Ready-mix Concrete supported by Quality Control Labs

Production of ready-mix concrete supported by quality control labs are done in ISTON facilities based on TS EN 206-1 standards. Production of C14-C50 quality ready-mix concrete and C30-C50 quality self-leveling concrete is done in the facilities.

100% Leak-proof Concrete Pipe and Reinforced Concrete Pipes

ISTON Co. manufactures various types of Concrete Products in different sizes i.e. Ø200-Ø600 mm diameter concrete pipes, Ø700-Ø3600 mm diameter reinforced concrete pipes and adjusting products. Additionally, Ø200-Ø1200 mm diameter integrated gasket pipes are produced. ISTON Concrete Pipes, which are manufactured based on TS 821 EN 1916, are acid-resistant due to their sulfate-resistant cement content. With 100% leak-proof pipes, ISTON started mass production of push-pipes with Ø200-Ø3600 mm range.

ISTON Brand Prefabricated Structures
Beside of industrial prefabricated products manufactured since 1996, ISTON Co. produces residential prefabricated products and designs new products as required. Prefabricated Product Group consists of surrounding walls, barriers, stream rehabilitation units, water channels, etc.

**RPC, As Strong as Steel**

Reactive Powdered Concrete (RPC), developed by ISTON Co., is a cement-based composite material and has advanced mechanical properties comparable to steel, i.e. superior strength, very high ductility, etc. First studies for this product in Turkey are made in ISTON R&D labs.

Within these studies, D400 class storm-water grills and sub-units, manhole covers and sub-units are offered to the market according to TS 1478 EN 124 standards. As a result of Reactive Powdered Concrete production development studies, fiber-optic cable channel covers and subway walking line concrete units are produced.

**International Contracting and Projects**

ISTON Co. provides services in the domestic and abroad market with architectural and statistical works, urban landscaping, restoration projects, street furniture designs and industrial product designs. In this context, many studies are conducted in Azerbaijan, Somali, Libya, Afghanistan and many other countries, so far.

**Contracting Services**

ISTON Co. offers contractor services in Istanbul and other cities with prestigious street projects, social service and public building projects, drinking water networks, sewages, pedestrian walking lines, park and garden arrangements, service buildings, workshops, bus garages, bridges, overpasses, health centers, sacrifice areas, environment arrangements, decks, terminal buildings and port construction businesses.

**ISTON Co. All Around the World**

ISTON Co., which furnishes streets of all cities of Turkiye, is preferred in many cities in the world with urban street furniture. ISTON Co. exports products to 32 different countries including Germany, Albania, Azerbaijan, United Arab Emirates, Bulgaria, Dubai, France, Georgia, Holland, Iraq, Iran, Switzerland, Montenegro, Qatar, Kazakhstan, Kosovo, Kuwait, Turkish Republic of Northern Cyprus, Libya, Lebanese, Romania, Russia, Sudan, Syria, Saudi Arabia, Tajikistan, Turkmenistan, Ukraine, Oman, Jordan, Yemen and Greece.
International R&D Projects

Completed Projects:

- Cement-based eco-ductile composite production to ensure sustainability of urban infrastructure project (1007 – Public Institutions R&D Projects Supporting Program / KAMAG – TUBITAK)
- Economic and ecologic assessment of industrial waste for environment arrangement (ECOUTIRESMAT / EUREKA)
- Evaluating industrial waste into commercial products (INWASCOMP / EUREKA)
- Development of city worksites program (Education and Culture – Leonardo da Vinci / EUROPEAN COMMISSION)

Ongoing Projects:

- Development of cement-based composite products exposed to severe environmental factors and moving load effects project (Optimus EUREKA)
- Development of sustainable, innovative and energy-efficient concrete from waste materials project (SUSKON / EUROPEAN COMMISSION SEVENTH FRAME WORK PROGRAMME)
- Development of innovative and sensitive prefabricated products for various application project (SENSAFE / EUROPEAN COMMISSION SEVENTH FRAME WORK PROGRAMME)

National R&D and Design Projects

- Development of infrastructure systems resistant against chemical attacks and environment friendly
- Determining using criteria of materials recycled from construction waste and ruins
- Development of anti-ballistic concrete
- Development of urban prefabricated products
• Design and production of paving stones and urban furniture surface coated with UV-tech

Patented, Registered and Beneficial Products from ISTON Co.

As a result of continuous design and R&D projects of ISTON Co., 5 patent, 6 brand registration, 2 utility model and 308 registered products are acquired.

Patented Products of ISTON Co.;

• Strength-increased Concrete with Steel fibers, silica smoke and plasticizers additives
• Reactive powdered concrete and its derivatives
• Water-permeability prevented top-covered paving stones and methods of their production
• Processing of colored and mosaic ready-mix concrete with different methods of surface coating techniques and pouring of concrete as pavement
• Shiny-surface urban furniture production