

all about **aluminium**

*Who is* **SARAY®**



# SARAY®

Door - Window Systems  
Sliding Systems  
Sliding and Folding Systems  
Facade Systems  
Skylight Systems  
Railing Systems  
Architectural Systems  
Industrial Profiles





Since 1980, Saray Aluminum has played a major role in building the architectural structures of the future with its pioneering and innovative interior and exterior solutions. Saray Aluminum door, window, facade and handrail systems, aluminum composite panel, PVC door and window systems, shutter systems, machinery, lighting, elevator etc. produces industrial and standard cross-section profiles that the sectors need.

Saray Aluminum, which is among the top 500 companies in Turkey, exports to more than 60 countries all over the world, and receives the Star of Export award every year with its high export figures.

Saray Aluminium, which has CE, ISO 9001, Qualanod, Qualicolat, TS EN 755, TS EN 12020, SEPRO and GOST-R quality certificates, produces in a closed area of 100.000 m<sup>2</sup> in Istanbul Güneşli and Tekirdağ Çerkezköy. Saray Aluminium is a fully integrated company with aluminium anodizing, aluminium electrostatic powder coating, aluminium extrusion, aluminium billet casting, aluminium composite panel, roller shutter and PVC extrusion production facilities.

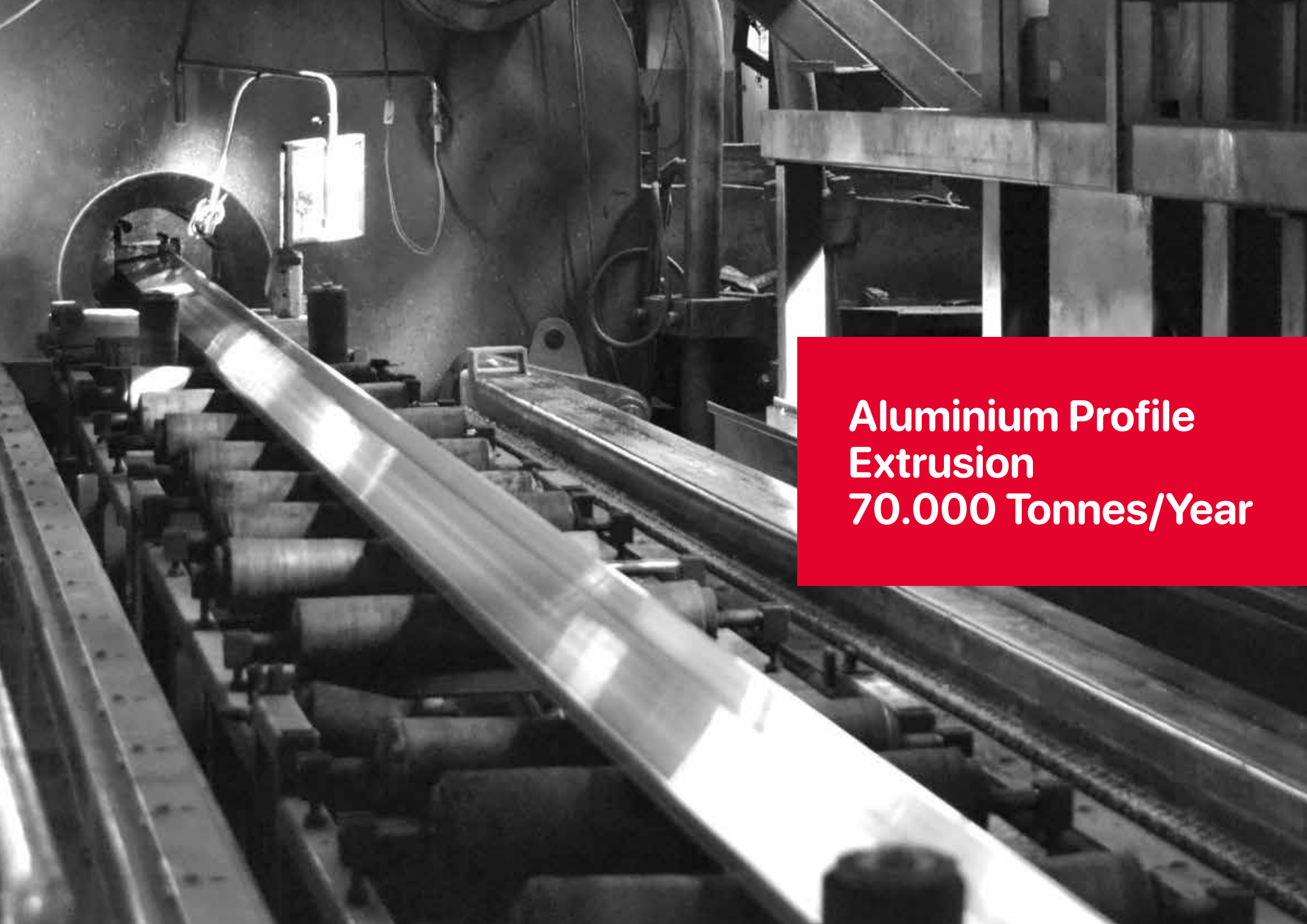
With the project and R&D units of Saray Aluminium, it provides architectural offices and building investors with special solutions for multi-storey and qualified buildings, providing technical support at all stages from facade design to application. Saray Aluminum plays an important role in building the architectural structures of the future and raising the quality of life with its high-performance innovative products.



TÜRKİYE'NİN  
500 BÜYÜK SANAYİ  
KURULUŞU  
2021 247.



2021 TOP 1000 EXPORTERS OF TÜRKİYE  
TÜRKİYE'NİN İLK 1000 İHRACATÇISI 214.

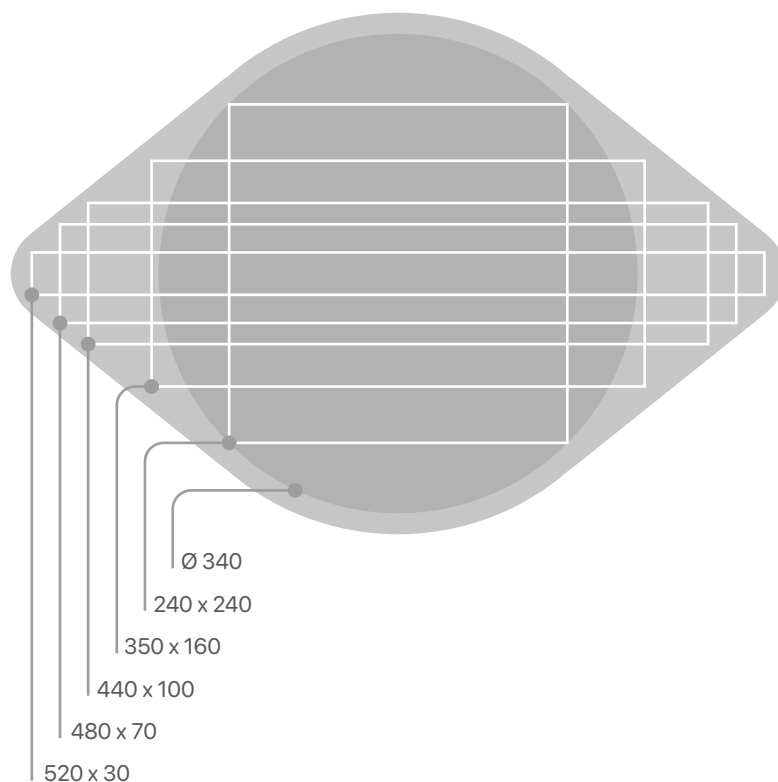
A black and white photograph showing the industrial process of aluminium profile extrusion. A long, bright, extruded aluminium profile is being guided through a series of rollers and supports. The background shows the complex machinery of the extrusion press, including a large circular die head and various structural components. A bright light source is visible on the left, illuminating the scene.

**Aluminium Profile  
Extrusion  
70.000 Tonnes/Year**



## Extrusion

Extrusion is the process of obtaining the profile that has the shape of the die by passing the aluminum billet heated at 420-520°C through steel molds with the high force provided by the press. There are **8 press lines of 1600, 2000, 2800 and 4500 tons** in our extrusion department. In our production where first class billets are used, in addition to **1xxx, 5xxx, 6xxx series** alloys, special alloyed and aluminum profiles up to 14 meters long can be produced. In our production facility with more than 20,000 extrusion dies , **70,000 tons** of aluminum profiles are produced annually.



Alloys	Billet Diameter (inch)
1XXX 2XXX 3XXX 5XXX 6XXX 7XXX 8XXX	6" / 7" / 9" / 10" / 12"

Extrusion Press (Tonnes)	Billet Diameter (mm)
3 x 1600	152
3 x 2000	178
1 x 2800	228
1 x 4500	304 / 254



## 45 MN Press and Quench Technology

Profiles in 10" and 12" billet diameters, which can be produced with a 45 MN extrusion press, meet the needs of different sectors such as industrial sector heating-cooling, automotive and automotive sub-industry, defense industry, target industry, railway, lighting, shipyard and equipment very fast to be able to answer. Using induction heating temperature in heating, water and fog technology in cooling, the 45 MN press with Quench system also offers the opportunity to produce aluminum profiles in the desired condition. With the advantages of this investment, the production capacity of the brand is increased to 70 thousand tons.





**20 MN Press with High  
Production Capacity**



**20 MN** press which has 7" billet diameter is produce 5500 kg/h as capacity. This press that has high production capability for profiles with large dimensions can also manufacture special alloys.


Furter more **20 MN** press has Quench technology which is used water and fog like 45 MN press.





## Casthouse

Our casthouse, which has a closed area of 10.000 m<sup>2</sup>, consisting of 5 melting furnaces, state of the art homogenization furnace and cooling cabinets, has an annual production capacity of 150,000 tons of billet. Produced in 6", 7", 9", 10" and 12-inch diameters, the billets are up to 8000 mm length and are suitable for standard alloys (1050, 1350, 6005, 6005A, 6060, 6061, 6063, 6082 and 6463). It can also be produced with special alloys to order. After the samples taken before and after casting and spectral controls, shell zone thickness measurement, microstructure control, segregation and grain boundary analyzes are performed after homogenization.

A black and white photograph showing a large, cylindrical aluminum billet being cast. A bright, intense flame or spray of molten metal is visible at the end of the billet, indicating the casting process. The background is dark, and the foreground shows the metallic surface of the billet and some industrial equipment.

**Aluminium Billet  
Casting Capacity  
150.000 Tonnes/Year**



**More than  
20,000 extrusion  
die archives**



**Die House**

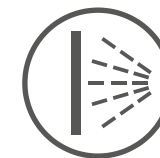
Saray Aluminum produces high quality dies with 42 years of experience, provides high quality standards, and constantly improves its performance criteria and technology. Our die house department, which has an archive of more than 20,000 dies, can produce 3,000 sets of die per year with its state-of-the-art bench park consisting of CNC and wire erosion, its expert staff and special software it has developed.



## Anodizing

Anodizing, which is one of the most durable coating techniques, gives aluminum surfaces resistance to scratches and corrosion, while giving an aesthetic appearance. In our facility, where profiles between 2000 mm and 8000 mm can be anodized, optional color works are offered in addition to standard colors. Our facility, which guarantees lifetime, UV and color resistance with Qualanod and TSE standards, has an anodized processing capacity of 24,000 tons per year.

**Aluminium  
Anodizing Capacity  
24.000 Tonnes/Year**



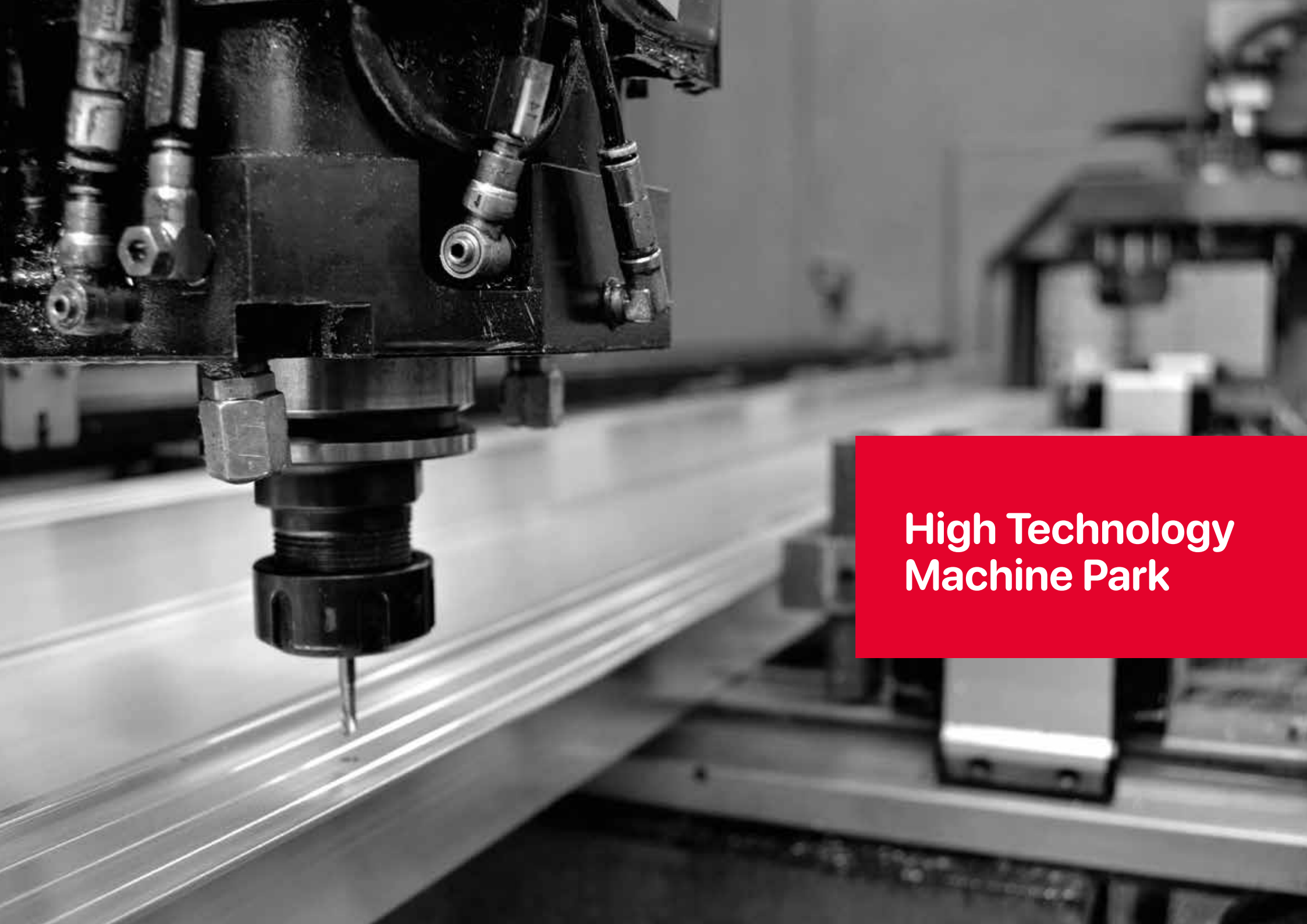
## Electrostatic Powder Coating

Our state of the art electrostatic powder coating facility, which is registered with the Qualicoat certificate, also produces special color profiles requested in addition to RAL colors that offer a wide range. Our Electrostatic powder coating facility, which produces high quality profiles that provide high resistance against the UV effect of sun rays and corrosion, has an annual capacity of 30,000 tons. We prioritize the sensitivity we give to the environment by choosing the world's leading paint brands that do not contain organic solvents and the 'Chrome Free' process.



**Electrostatic Powder  
Coating Capacity  
30.000 Tonnes/Year**





**High Technology  
Machine Park**





## Mechanical Process

Our high-tech machinery in our production line offers operations such as cutting and drilling in precise tolerances, desired angles and details, with our professional team. We provide high-quality service to our customers during the assembly phase by supplying the most performing system accessories.

5 Axis CNC Profile Machining Center (x:14.000 mm) : 1 unit  
3 Axis CNC Double Table Tapping Center (x:750 mm) : 1 unit  
Double Head Cutting Machine : 4 unit  
Profile Slicing Machine : 2 unit  
Radial Drill : 2 unit  
Drying Machine : 1 unit  
Threading Machine : 3 unit  
Barrier Crimping Machine : 3 unit  
Wick Crimping Machine : 3 unit  
Aluminum Welding Machine : 2 unit

A low-angle, black and white photograph of a modern building's exterior. The facade is composed of large, rectangular aluminum composite panels arranged in a grid pattern. Two large, dark-framed windows are visible, one on the left and one on the right, both featuring multiple panes. The sky is a uniform, light gray, providing a high-contrast background for the building's structure.

## **Superior Performance Aluminum Composite Panels**



## Aluminium Composite Panel

Aluminum composite panels, which stand out with their lightness, aesthetic appearance, fast and easy assembly, high sound and heat insulation, and a wide variety of color features, consist of the combination of two aluminum sheets and a low-density polyethylene filler between them. Saray Aluminium composite panels are produced in three types as standard panel, B1 Fire Resistant panel and A2 Fireproof panel, which are used extensively in the advertising industry. It shows a superior performance with the PVDF paint applied to its surface and offers a 20-year outdoor warranty. The annual total capacity of our two composite panel lines, which we produce from sheets in the thickness range of 0.20, 0.35 and 0.50 mm and with a width of 1,250 and 1,500 mm, has reached 3,500,000 m<sup>2</sup>.

We respond to customer expectations at the highest level with the understanding of Quality Management, Certificates of TSE and International Laboratories. We focus on the needs of the future, the environment, our business and people with sustainability certificates such as environmental product declaration (EPD), LEED, BREEAM, DGNB and ÇEBDİK.



## PVC Window Systems

We prioritize the health of users with door and window systems consisting of high quality profiles made of lead-free formula. It adds aesthetics and value to your buildings thanks to the sophisticated profile design of our window systems, which provide a variety of images with multi-option foil coating alternatives. Saray produces 20,000 tons of PVC profiles per year with the Selective series and other unique systems, which provide superior performance in all climatic conditions and have the highest performance values in the field with their air, water, wind and heat insulation coefficient.



**PVC Profile  
Manufacture  
20.000 Tonnes/Year**



## Roller Shutter

One of the elements used in buildings to protect from the sun and to minimize sound and heat transfer is the shutter system.

Offering a wide range of products from a single source with high performance aluminum and extruded lamellas, auxiliary aluminum roller profiles, accessories and motors, SARAYROLL Shutter and Pull-Down Shutter systems serve with a capacity of 16.000.000 m<sup>2</sup> per year.

**Production Capacity of  
16.000.000 m<sup>2</sup>/ Year**



A person is sitting on the ledge of a large, floor-to-ceiling window, looking out at a vast, scenic landscape. The window is partially covered by horizontal blinds on the left side. The view outside shows rolling green hills and mountains under a bright sky. The person is wearing a light-colored, textured sweater. The interior of the room has a wooden floor and a white curtain on the left. A red banner is overlaid on the bottom left of the image.

**Professional  
Systems for  
Comfortable Life**

**since**

**1980**