

ASAŞ

ALUMINIUM FLAT ROLLED PRODUCTS

Aluminium Flat Rolled Products





ASAŞ

Since its founding in 1990, ASAŞ has grown steadily to become one of Europe's leading manufacturing companies employing over 3000 highly skilled people across the group.

Our business is a future-focused company that favours long-term partnerships over the pursuit of short-term profit. As technology and customer expectations have evolved, we have always strived to be at the forefront of generating solutions and adding value to all sectors where we operate. Our R&D Center which is the first in Turkish Aluminium Industry is a proof of our relentless focus on exceeding our customer expectations.

We provide services for our clients through our Aluminium Extrusion Profile, Composite Panel, Aluminum Flat Rolled Product, PVC Profile, and Roller Shutter production plants located in Sakarya-Turkey on a closed floor space of 400.000 m^2, and total floor space of 1.300.000 m^2.

ASAŞ combines its knowledge in production with design&product development and deliver high quality products to a wide range of markets. ASAŞ carries out the design and production of PVC window and door systems, aluminium composite panel, aluminium flag poles and lighting poles, aluminium window, door and facade cladding systems, roller shutter and steel shutter systems, and motor control systems for the construction industry.

We turn ideas into reality: ASAŞART, established with the idea that science, technology and art can unite, is a great contribution to the development of our society. Students, academicians and artists collaborate and being supported under the same roof of ASAŞART.



TECHNOLOGICAL, FLEXIBLE AND INNOVATIVE APPROACH TO YOUR EXPECTATIONS FROM ALUMINIUM FLAT-ROLLED PRODUCTS

ASAŞ, as one of the top 100 industrial firms in Turkey, foreseen the future of aluminium and decided to enlarge its product range with an investment on aluminium flat rolled products in 2010. In the first phase of the investment, worth of 300 million €, European aluminium community has welcomed their most current modern and technological flat rolled production facility within 310.000 m^2 total where 135.000 m^2 is closed.

Production lines;

- Continuous Casting
- Cold Rolling Mill
- Coil Annealing
- Slitting Lines
- Cut to Length Lines
- Foil Rolling Mill
- Foil Separating
- Foil Slitting
- Foil Annealing
- Continuous Coil Coating
- Lacquering and Lamination Lines

Besides having very high technological production facilities, using an integrated IT infrastructure to manage these operations provides flexibility, reliability and traceability on production to ASAŞ. We offer those key features for a wide range of industries such as automotive, consumer goods, household appliances, packaging and construction.
We cultivate innovative solutions and products at our R&D Center for our customers on their unique projects.

At the Flat Rolled Products Production Facility equipped with the state-of-the-art technology, we have included all environmentally sensitive systems within the bounds of today's technology into the facility by addressing the issues of sustainable healthy life and production with great sensitivity. With this approach, we are the first company in Turkey to invest in facilities that recycle the oils discharged through chimney at cold Rolling and foil rolling mills.

• We will perform and verify your Corporate Carbon Footprint calculations within the scope of the ISO 14064 Verification of Greenhouse Gas Emissions standard, and we will perform all documentation regarding this process.
• We will carry out product-based EPD (Envorimental Product Declaration) certifications. We will ensure that EPD certificates are obtained for the product types determined for Aluminum Profile, Aluminum Flat Products and PVC, Shutter, Shutter business centers.
• Within the scope of Green Energy, we will be making our attempts to benefit from clean energy resources in parallel with the formation of the Carbon Market conditions.
• We aim to achieve the ASI certification for International Sustainable Aluminum production.

Automotive and Transport



Key Features

- Good formability
- Good corrosion behavior
- Electrical and thermal conductivity
- Potential for weight saving
- Sag resistance
- High-quality surface finish
- Magnetically neutral
- Recyclability

Since decades; power, style and comfort have been the main focus for the automotive market. However today, fuel and emission efficiency became more important than ever before.
At this point aluminium offers tremendous opportunities with its light weight, high strength, excellent formability, perfect corrosion resistance and the last but not the least infinite recyclability.


Heat Shield

We offer ideal products for absorbing exhaust systems, fuel systems, engine components, heat and acoustics, custom slit unclad aluminium foils/sheets for mechanically joint or brazing applications in heat exchangers. Such as;

- HVAC
- Automotive air conditioning
- Engine/Oil cooling
- Sound and vibration absorbers

ASAŞ rolling mill consists of

- Entry/Exit side thickness measurement system
- Feed-forward thickness control system
- Back-up roll eccentricity control system

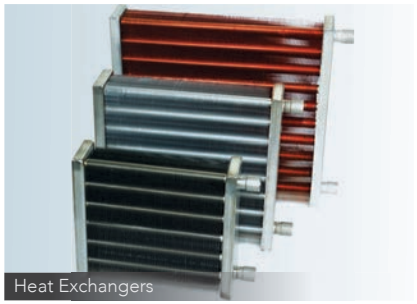
These systems satisfy dimensional expectations of automotive industry with a capability even better than international norms.


Brazing Foil

Slitting lines of ASAŞ are equipped with patented belt bridle unit and ultra-precision slitting tools which allows to produce:

- 11mm wide products, 61 cuts at once
- Products with CID of 150, 300, 400, 500mm
- Up to 2.000mm COD for a certain thickness range

with impurities free from surface and burr free edges.


Heat Exchangers

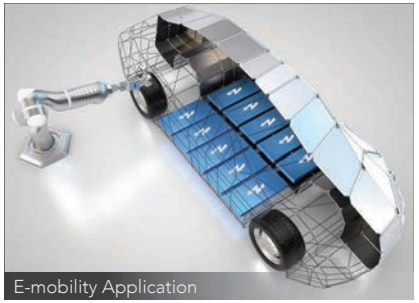

Truck Chassis and Trailer


Bus Body



Car Plates


Fuel Tanks


E-mobility Application

Consumer Goods and Packaging



Key Features

- Non-toxic
- Ensures long shelf life
- Impermeable and odourless
- Durability
- Barrier for heat, oil, water and light
- Lamination, lacquering and printing ability
- Incombustibility
- Environment friendly

The physical properties of aluminium foil, such as the absolute barrier effect, provide protection and longer shelf-life for the product contents as well as better preservation of their nutritional and health benefits.
The result is less food waste or greater resource efficiency.

Key Applications

- Household foil
- Closures
- Tobacco foil
- Rigid/Semi-rigid, flexible food
- Lid foils


Flexible Packaging

Flexible packaging foil needs to be superior in terms of flatness. Any unconformity on flatness would induce valuable losses in yield, quality and speed in converting process.
With this regard, ASAŞ introduced flatness measuring roll, work roll bending system and hot edge spray system on its foil mill which give unique ability to roll 2.170mm wide foil with the best possible flatness.


Household Foil

The supply of household foil to the supermarkets is a competitive business. To survive in such challenging sector our customers have to be one step ahead by higher inventory turnover, shorter lead times and flexibility.
We are capable to provide services in these markets by our skilled team and our developed IT infrastructure.


Semi-Rigid Container Foil


Lid Foil


Closures


Bottle Cap Foil

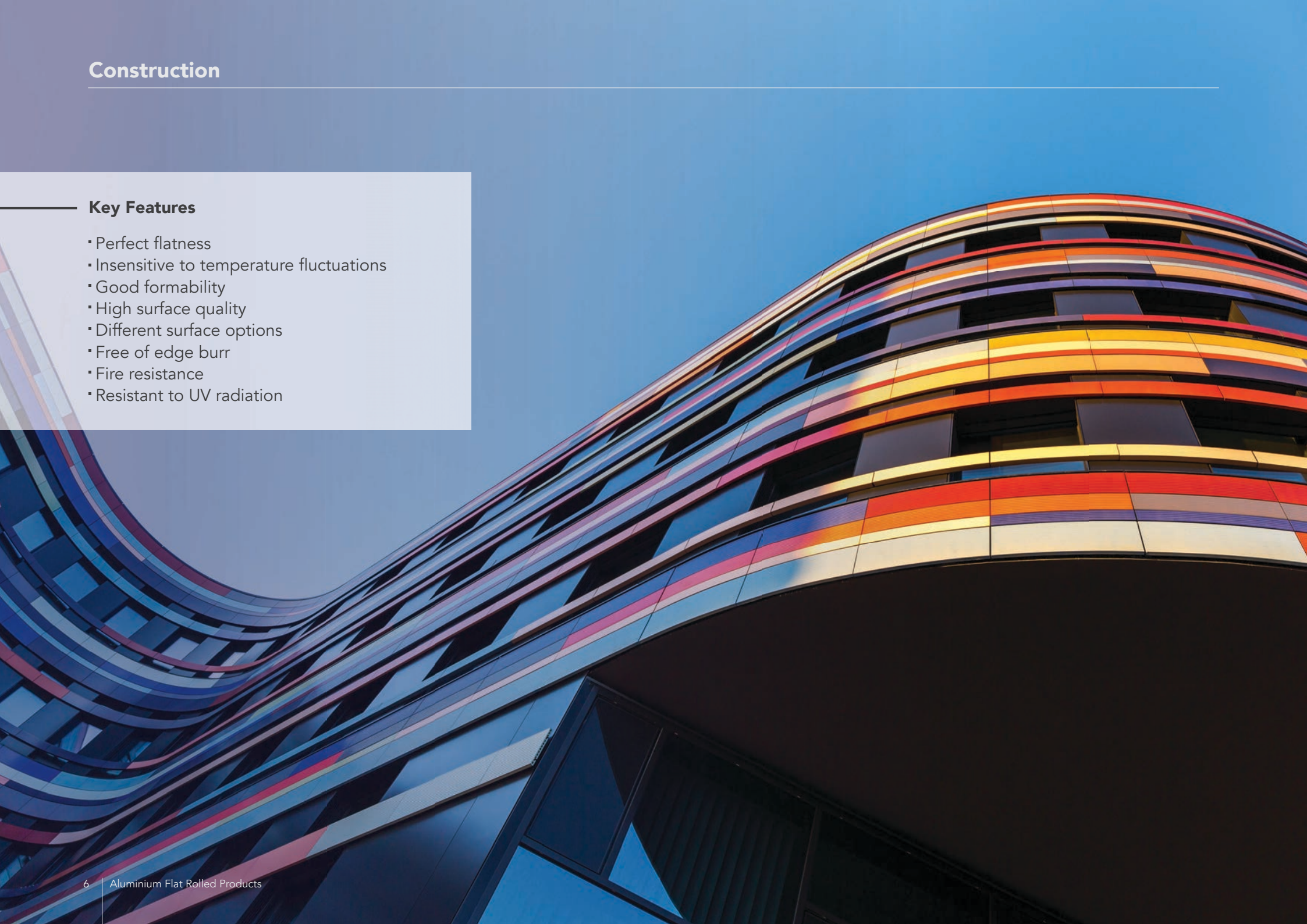

Candle/Tealight foil


Tobacco Foils

Construction

Key Features

- Perfect flatness
- Insensitive to temperature fluctuations
- Good formability
- High surface quality
- Different surface options
- Free of edge burr
- Fire resistance
- Resistant to UV radiation



To give life to the architects' creative and innovative designs; aluminium offers unique solutions with its less weight, high strength, perfect formability and low maintenance cost. Thus, today over 25% of the aluminium consumption is used by the construction industry in the world.

High accuracy in coating thickness and defect free surfaces which are the fundamentals of customers' satisfaction for coated coils are achieved at our coating line by using three dry coating thickness gauge and surface inspection system.


Garage Doors and Shutter


Trapezoid


Industrial Roof Applications

Ability to coat 2.100mm wide coils with PVDF, FEVE, PE, FLEX-PE, HDP, PUR-PA, EPOXY, EPOXY-PE in a wide range of solid, metallic, specials colors with smooth, textured or wrinkled finish is a great excellence of ASAŞ.
In addition to these features, hot and cold lamination as well as embossing capabilities enable us to meet all possible surface requirements in the market.


Suspended Ceiling


Window Spacers


Facede Cladding Panel & Composite Panel

High accuracy in coating thickness and defect free surfaces are the fundamentals of customer satisfaction for coated coils. We are proud of supplying superior quality to meet our customers' quality demands. They are achieved in ASAŞ by using:

- Automated 3 roller coating systems
- Three dry coating thickness gauge
- Bright and dark field automatic surface inspection system.


Advertising Sign Board


Isolation

Industrial Products



Key Features

- Good formability
- Good corrosion behavior
- Electrical and thermal conductivity
- Non-magnetic
- Light weight
- Long life span
- Reflectivity
- Impact resistance
- Energy absorption capability
- Recyclability

ASAŞ, with its strong downstream focus on Flat Rolled Products, offers a wide spectrum of products including industrial applications. We offer customized solutions for industrial manufacturers to supply 1xxx, 3xxx, 5xxx, 7xxx, 8xxx series of alloyed aluminium sheets/coils/foils where aluminum corrosion resistance, formability, thermal conductivity and incombustibility are required.

Key Applications

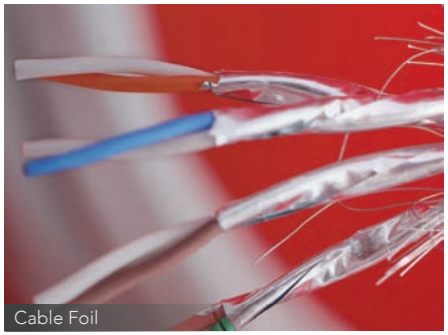
- HVAC Units
- Industrial Cooling/Heating
- Air Filters
- White Goods
- Cable Insulation
- Solar Panels
- Flexible/Rigid Pipes
- Transformer Coils / Bus Bars
- Electrode in Batteries
- Satellite Dish


Heat Exchangers

The reputable process know-how and capability of handling customer specific thermo-mechanical processes. This is how ASAŞ is able to produce deep drawable foils:

- from 1050, 8006, 8079 and 3003 alloys
- 0, H22, H24, H26, H18 and H19 tempers
- for the thickness range of 90 to 300 microns

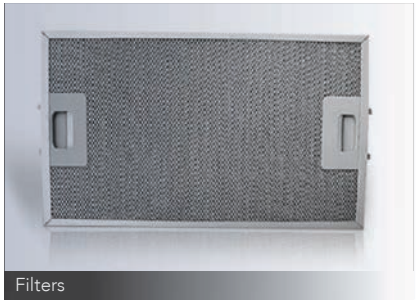
for various applications.

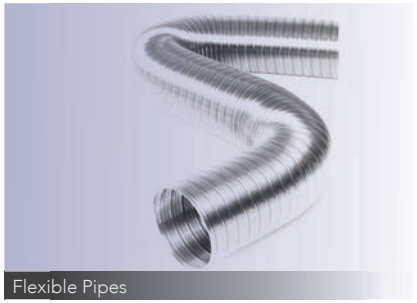

Cable Foil

High elongation for final product, good flatness for processing speeds and low thickness tolerance are required for cable foil materials. We offer;

- process know-how to obtain desired elongations
- in combination of flatness measuring system, variable crown roll (VCR), high accuracy thickness control and backup roll eccentricity in the rolling mill ensure acurate flatness and minimal thickness deviation.


White Goods/Freezers


Filters


Flexible Pipes



Transformer Coils / Bus Bars


Solar Panels


Kitchen Trays





PRODUCTION FACILITY

Continuous Casting Lines
Cold Rolling Mill
Slitting & Cut to Length Lines
Coil & Sheet Product Specifications
Foil Rolling Mill
Foil Seperating & Slitting Lines
Foil Product Specifications
Coil Coating Line
Coated Product Specifications
Quality
Research & Development

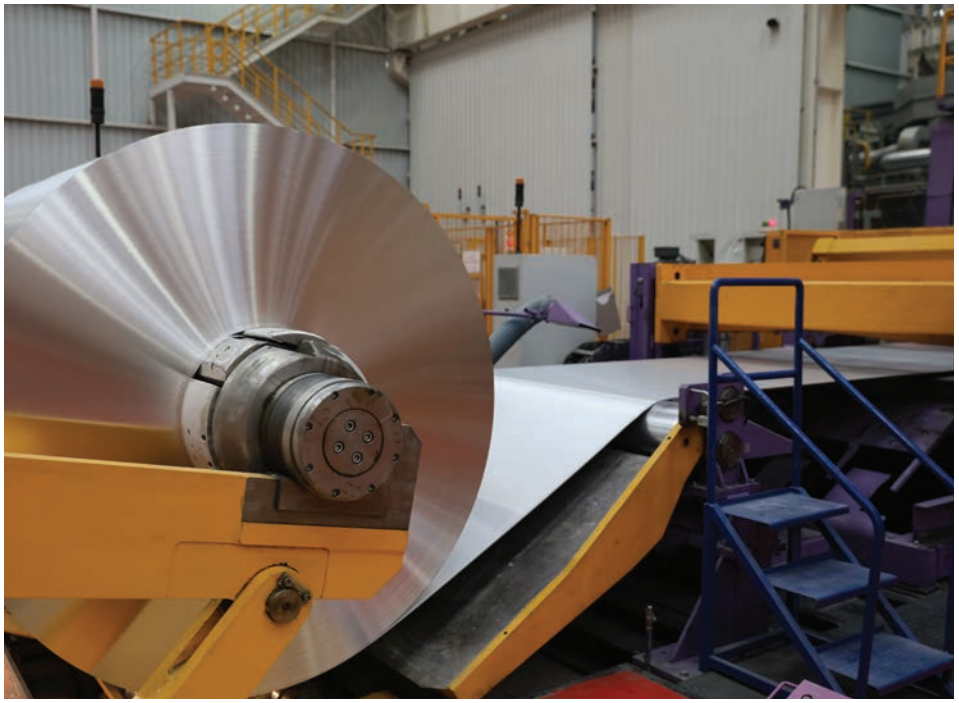
Continuous Casting Lines



Key Features

- 26 tons cast coils
- 2.250mm casting width
- X-Ray profile scanner
- Intensive care for liquid metal with electromagnetic stirrer
- Deep bed filter for molten metal quality





Besides having one of the widest continuous strip casters in Europe, ASAŞ cast house is equipped with the most advanced technologies in order to serve international market requirements. All casters are equipped with patented metal feeding system which provides a uniform flow and temperature control during casting to ensure crucial mechanical and physical properties of final products.

X-Ray profile scanner, patented roll cooling system and position/pressure hydraulic screwdown system provide better gap and cross profile stability during casting process. Thus, best cast coils in terms of flatness and thickness are supplied to the market.

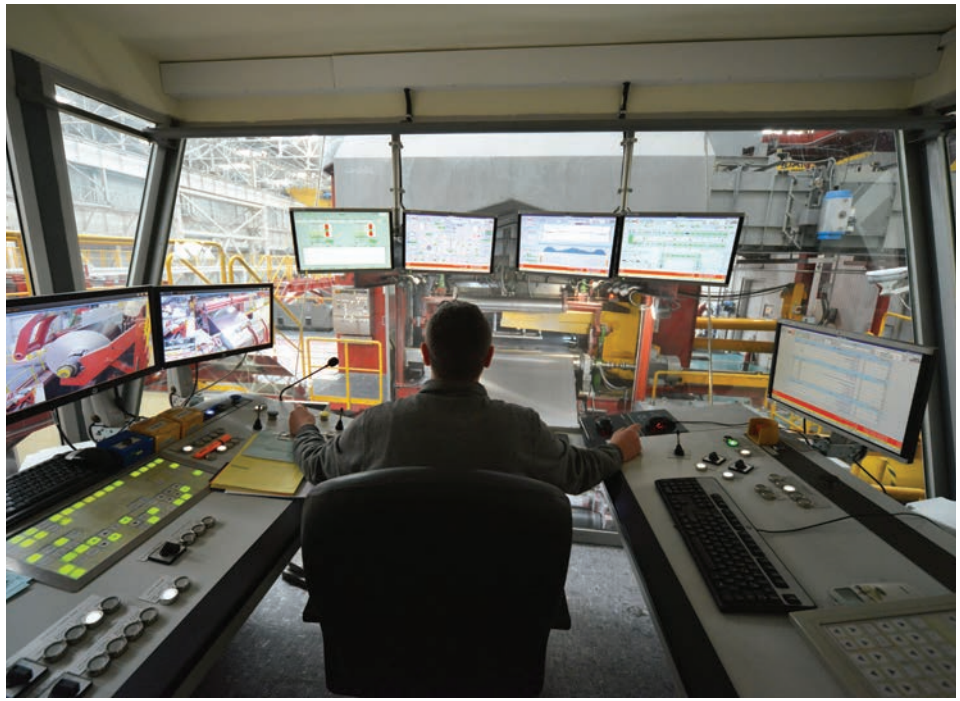
Last but not least, ASAŞ has invested in all available auxiliary equipments for production lines such as electromagnetic stirrers, deep bed filters in series with ceramic foam filters, furnace charging and skimming machines in order to maximize the molten metal quality. This intensive care for molten metal will be fundamental for foil rolling mill to produce down to 6.35µm thin foils.

Cold Rolling Mill



Key Features

- Hard alloys rolling ability with 6-Hi CVC plus cold rolling mill
- ABB stressometer and hot edge spray for better flatness
- Reduced thickness deviation with feed-forward control
- Environmental friendly process with air purification system





ASAŞ cold rolling mill is the first 6-Hi aluminium rolling mill in Turkey and one of the only few invested in Europe during last 15 years. Continuous variable crown (CVC) and intermediate/work roll bending systems introduced to the 6-Hi mill makes it possible to roll hard alloys (5000 and 7000 series). The mill is also equipped with stressometer and hot-edge spray in order to serve best quality in terms of international flatness norms.

Reduced thickness deviation of flat products is fundamental of customer satisfaction. Both precise thickness measurement and feed-forward thickness control (entry/exit thickness measurement) systems in the rolling mill are great features of the line which satisfy customer demands. We can even achieve lower than half of what European norms indicates.

ASAŞ eliminates losses of rolling oil at production by using patented Dry Strip and Airwash system and also exhaust air is washed & cleaned during this process.

By investing exhaust air purification system (AIRWASH) on cold rolling mill, ASAŞ proves its commitment to the environment and sustainability.

Slitting & Cut to Length Lines



Key Features

- From 25mm to 2.200mm width
- Thickness range of 0,2mm to 4,5mm
- Delicate surface quality
- Burr free edges
- High production speed
- Perfect cutting and slitting accuracy





Having state of the art slitting lines and cut-to-length line, we are able to produce coils from 25mm to 2.200mm in width and sheets from 800mm to 6.000mm in length for a thickness range of 0,2 to 4,5mm. With these core competencies, ASAŞ has the widest product range among the all flat aluminium producers in Turkey.

Not only the production range but also auxiliary equipments to shearing lines are carefully selected in order to obtain highest quality and efficiency.

Slitting lines, with patented belt bridle unit, are able to make 50 cuts at an operative speed of 600m/min with delicate surface. Burr free edges what market is looking for is obtained with ultra-precision slitting tools on the line.

By combining our great knowledge and the latest technology, we do always satisfy current market expectations.

Coil & Sheet Product Specifications

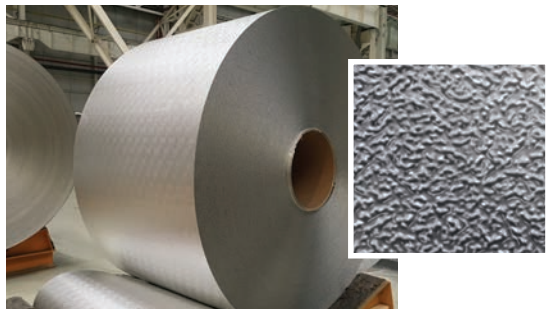




Coil	Thickness	Width	Outer Diameter
	0,2-4,50mm	500-2.200mm	700-2.600mm
Strip	Thickness	Width	Outer Diameter
	0,2-4,5mm	11-500mm	900-2.600mm
Sheet	Thickness	Width	Length
	0,40-4,50mm	800-2.200mm	800-6.000mm

Coil-Strip-Sheet
Alloy: 1xxx/3xxx/5xxx/8xxxx
Temper: Soft /0/H111/H1X/H2X/H3X
Inner Diameter: 400/508/610mm

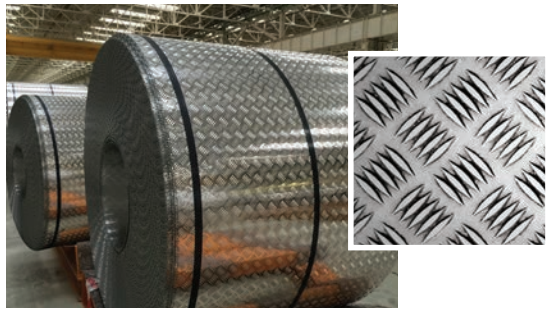
- We sustain EN 485 standart conditions for our products.
- Protective film (PET/PVC) can be laminated upon request.



Coil	Thickness	Width	Outer Diameter
	0,2-1,25mm	500-1.750mm	900-2.000mm
Strip	Thickness	Width	Outer Diameter
	0,2-1,25mm	11-500mm	900-2.000mm
Sheet	Thickness	Width	Length
	0,40-1,25mm	800-1.750mm	800-6.000mm

Stucco Embossed
Alloy: 1xxx/3xxx/5xxx/8xxxx
Temper: Soft 0/H111/H1X/H2X/H3X
Inner Diameter: 400/ 508/ 610mm

- We sustain EN 485 standart conditions for our products.



Coil	Thickness	Width	Outer Diameter
	1,20-3,00mm	500-2.200mm	900-2.000mm
Strip	Thickness	Width	Outer Diameter
	1,20-3,00mm	200-500mm	900-2.000mm
Sheet	Thickness	Width	Length
	1,20-3,00mm	800-1.750mm	800-6.000mm

Tread Plate
Alloy: 1xxx/3xxx
Temper: F / H224 H244
Inner Diameter: 400/ 508/ 610mm
Patterns: 5 Bars

- We sustain EN 1386 standart conditions for our products
- *Please contact with your sales represantatives for further information.*

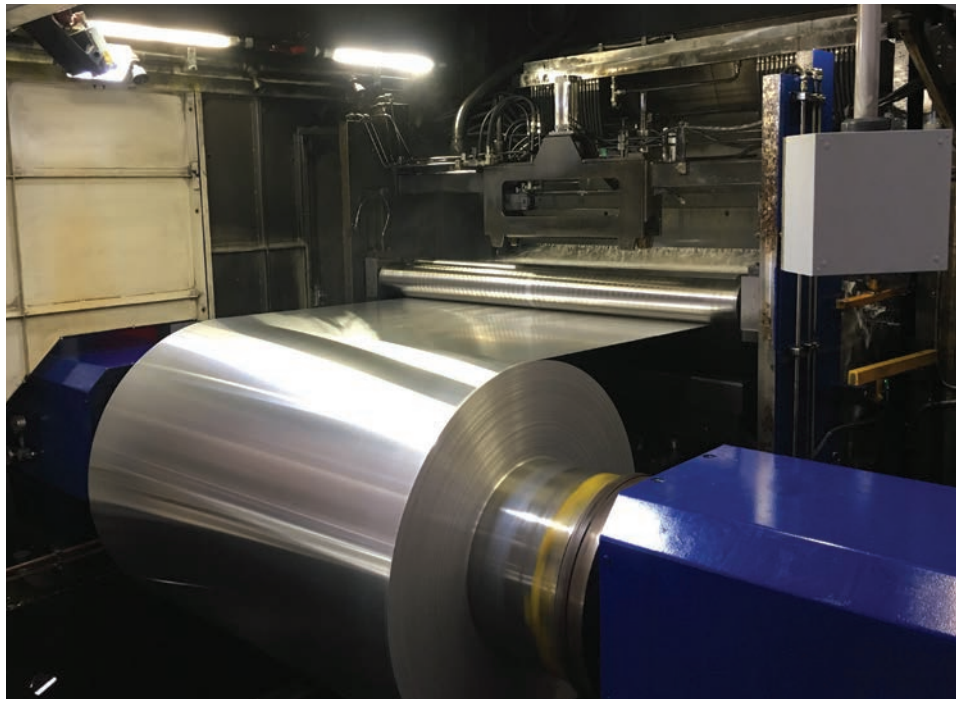
Foil Rolling Mill



Key Features

- Widest and fastest foil mill in the world
- Superior flatness with variable crown roll and hot edge spray system
- Sustainable production with air purification system
- Ability to roll down to 6.35µm

Foil Rolling Mill





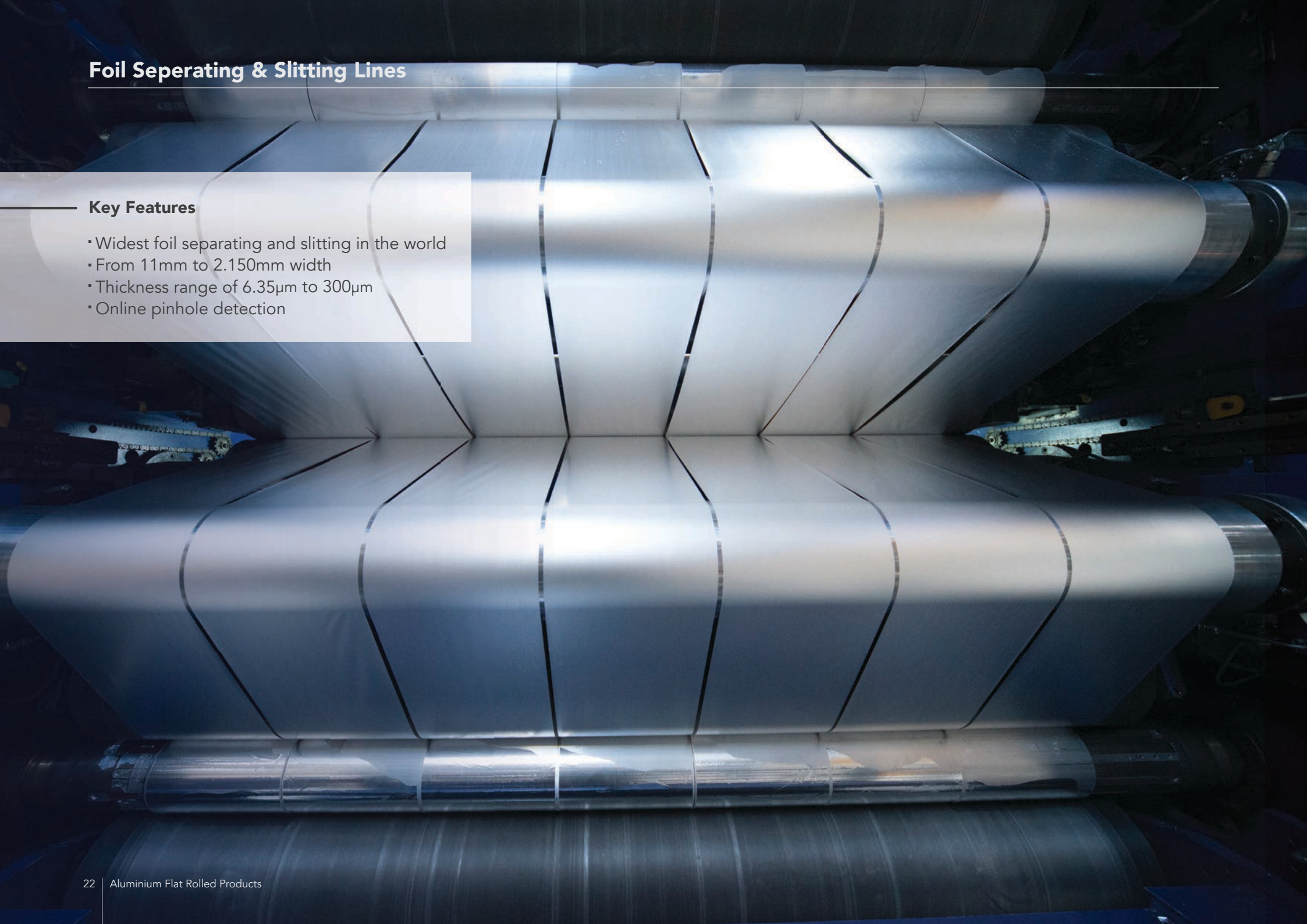
ASAŞ foil rolling mill is the widest and one of the fastest foil rolling mill in the world. Thanks to variable crown roll (VCR), flatness measuring roll, work roll bending system and hot edge spray system which gives us great apportunity a unique ability to roll widest foil ever produced.

High precision x-ray gauge measurement and back-up roll eccentricity control running in the mill allow to reduce thickness deviation to satisfy market demands (e.g; brazing and mechanical heat exchanger applications, custom slit unclad aluminium foils for mechanically joint or brazing applications).

We have continuously evaluataed our process with roll mark detector system. Same as in cold rolling mill, we have also invested exhaust air purification system AIRPURE on our aluminium foil rolling mill in order to reduce carbon footprint at our plant.

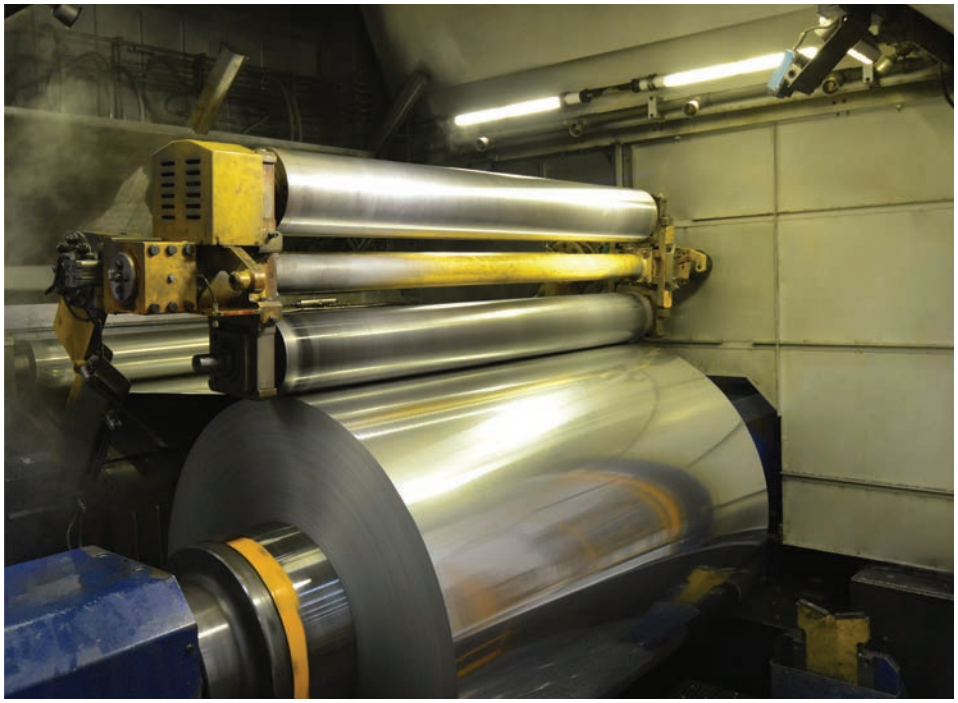
With these technical abilities, process know-how and environmental sensitivity; ASAŞ turns ideas into solutions for wide range of market needs and creates value for customers.

Foil Seperating & Slitting Lines



Key Features

- Widest foil separating and slitting in the world
- From 11mm to 2.150mm width
- Thickness range of 6.35µm to 300µm
- Online pinhole detection





With state of the art heavy gauge slitting line and separator, we are able to produce from 11mm up to 2.150mm wide and from 6.35µm to 300µm thickness coils.

We are capable to slit bright/matte foils up to outer diameter of 1.200mm and bright/bright ones up to outer diameter of 1.850mm. With these unigue features, ASAŞ has the widest product range among the all aluminium foil producers.

In order to serve flexible packaging industry with highest quality in terms of barrier effect, our production lines are equipped with quality inspection systems such as and pinhole detector.

ASAŞ ensures high quality narrow strips and/or large coils at maximum productivity levels with perfect precision.

With these technical abilities, we supply aluminium foils to;

- Rigid/Semi-rigid flexible food and liquid packaging
- Lid foils
- Closures
- Tobacco foil products
- HVAC finstock products
- Automotive finstock
- Converter foil
- Household foil
- Flexible pipe
- Stable pipe
- Insulation foil
- Cable foil
- Battery foil

Foil Product Specifications





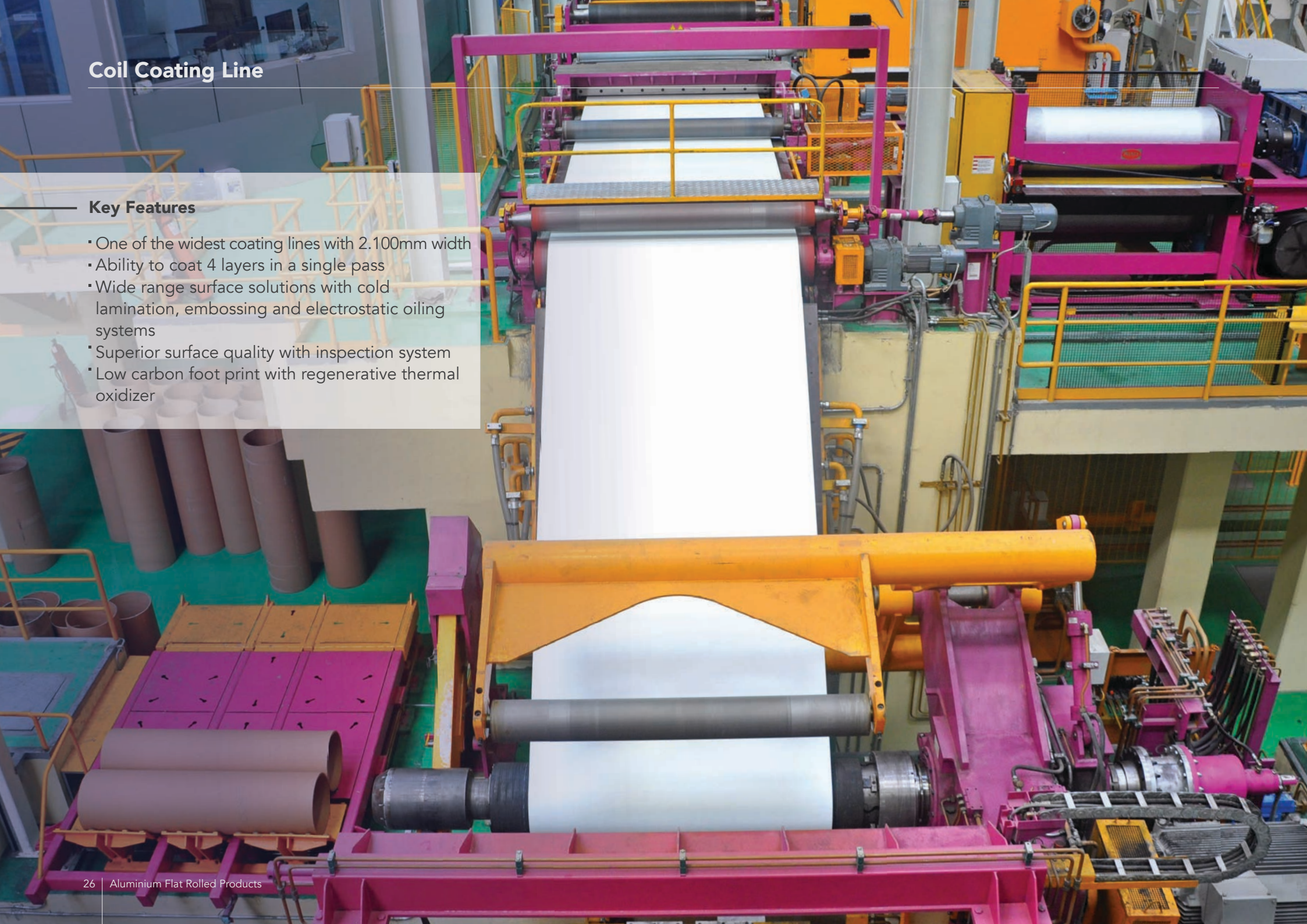
Alloy: AA 1xxx/3xxx/5xxx/7xxx/8xxx
Temper: 0/H18/H19/H22/H24/H26/H28
Inner Diameter: 76/150/152/300/400mm

Thickness Range	Width	Outer Diameter
6.35-300µm	11-2.150mm	max. 1.200mm - B/M max. 1.850mm - B/B

- We sustain EN 573 / EN 546 standart conditions for our products.
- Dimensional tolerances according to EN 546-3. Narrower tolerances upon request.
- Thickness and width combinations to be determined by customer request.
- Plain surface, free from impurities.
- Surface quality according to EN 546-3.

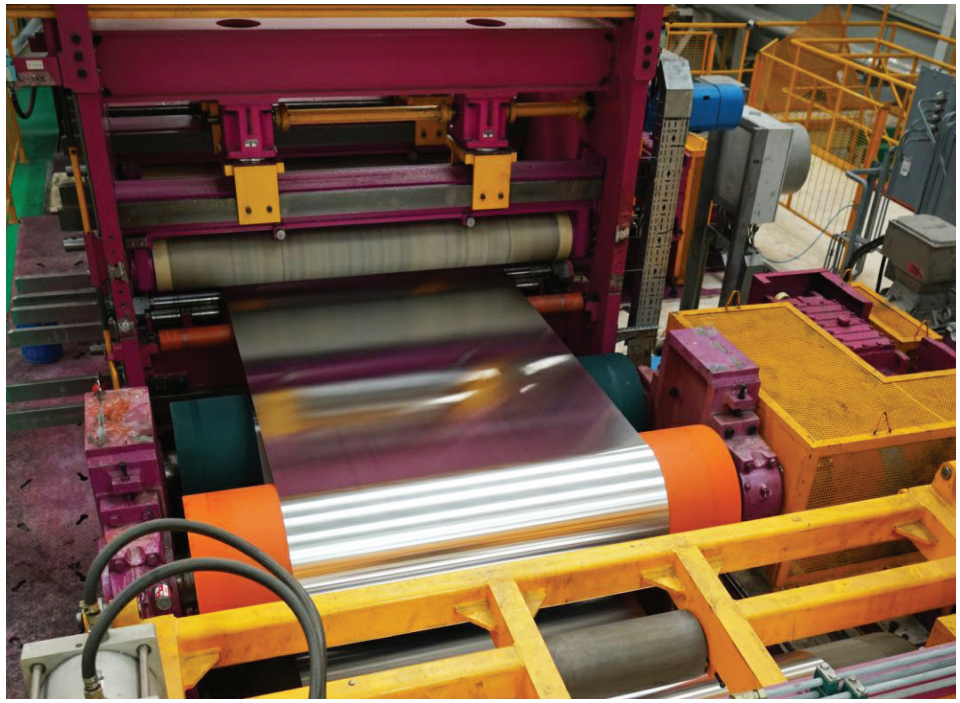


Coil Coating Line



Key Features

- One of the widest coating lines with 2.100mm width
- Ability to coat 4 layers in a single pass
- Wide range surface solutions with cold lamination, embossing and electrostatic oiling systems
- Superior surface quality with inspection system
- Low carbon foot print with regenerative thermal oxidizer





ASAŞ, one of the biggest consumers of coated aluminium coils in its Aluminium Composite Panel Production Line in Europe, has carefully invested on one of the widest coil to coil color coating line.

Besides being able to coat 4 layer in a single pass, the line is equipped with hot and cold lamination system, embossing unit and electrostatic oiling unit in order to serve all possible surface solutions to the market.

High accuracy in coating thickness and defect free surfaces, as the fundamentals of customer' satisfaction for coated coils, are achieved by three dry coating thickness gauge and surface inspection system in the line.

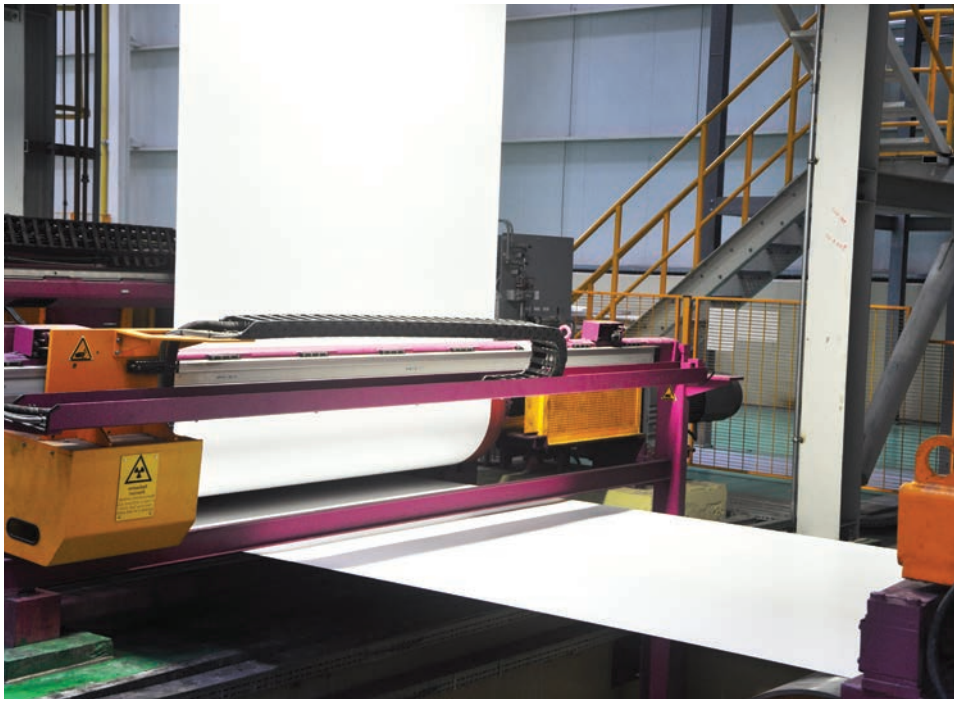
The line includes two cleaning section. Pre-cleaning section prepares the necessary strip surface for the tension leveling process while the main cleaning section (consists of an alkaline cleaning and flash pickling section) treats the strip surface for specified coatings. Thus, we achieve best possible surface quality and coating adhesion.

The last but not the least, ASAŞ significantly lower carbon footprint and cost of coating operations by investing in regenerative thermal oxidizer (RTO) at the curing oven.

Coated Product Specifications







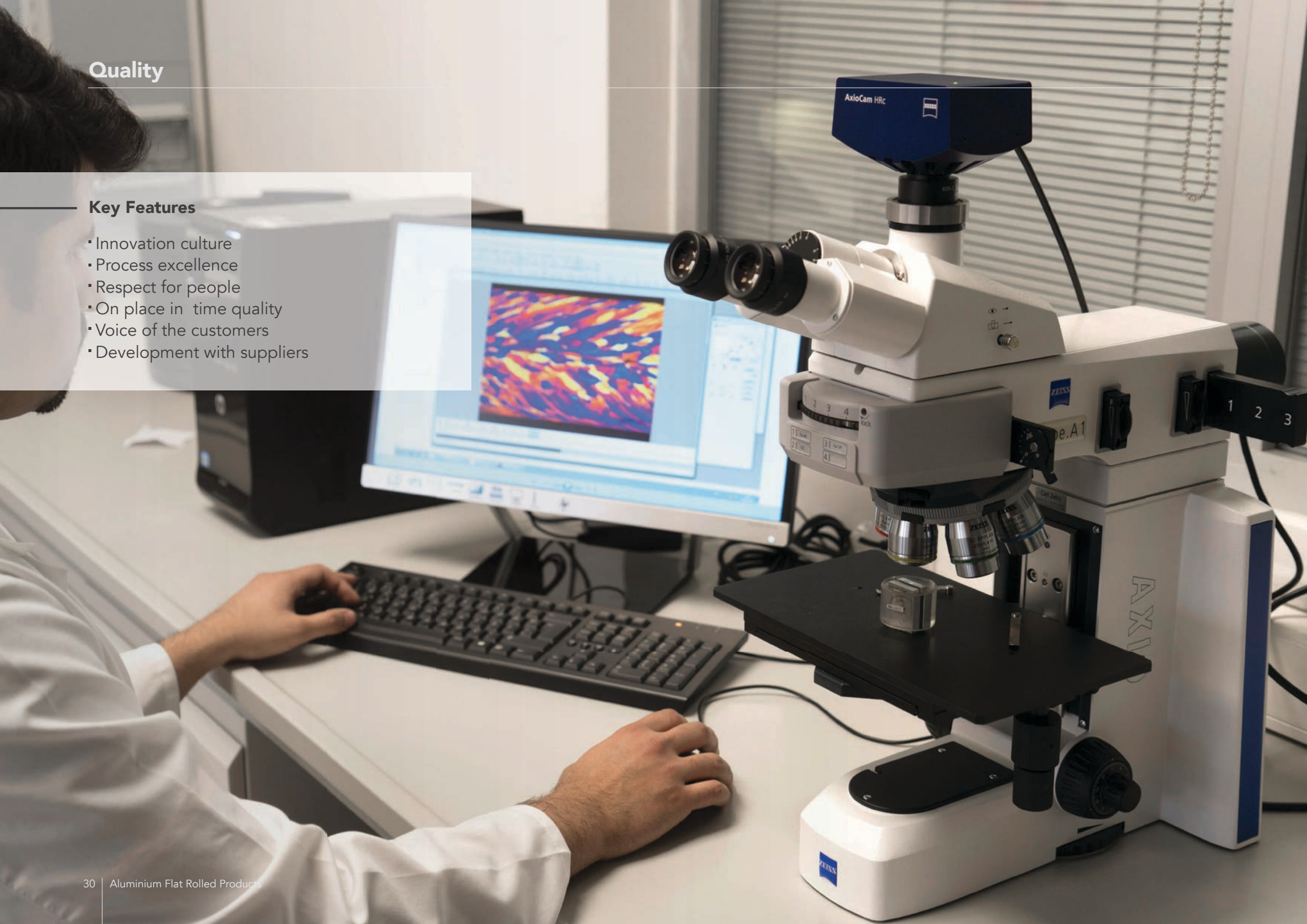
Alloy: 1xxx/3xxx/5xxx/8xxx
Temper: Soft 0/ H42-H44-H46-H48
Inner Diameter: 400mm/508/610mm
Type of the dye: PE, HDPE, PU, PUR-PA, PE-PA, PVDF, FEVE, EP-PE, Epoxy

- RAL, metallic/custom colours and different patterns can be applied upon request.
- Stucco embossed finish can be applied up to 1,25mm thickness.
- Protective film (PE) can be laminated upon request.
- PVC film lamination is also available.
- Production and quality controls are conducted according to EN 1396 standart.

- *Please contact your sales represantatives for further information.*

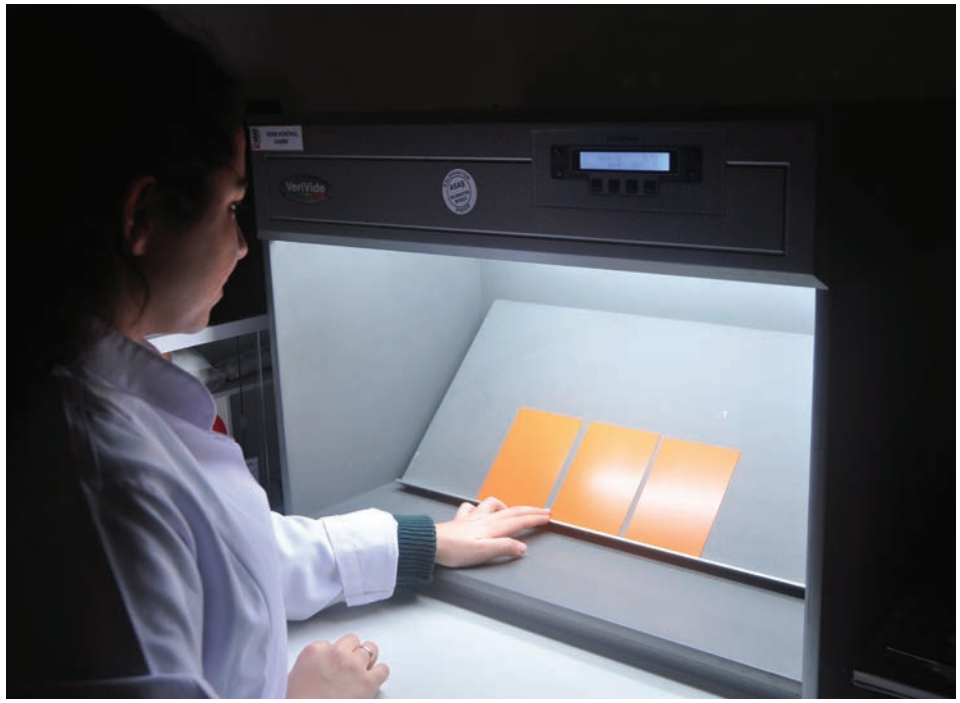
Coated Coil	Thickness	Width	Outer Diameter
	0,20-2,00mm	500-2.100mm	max. 2.600mm
Coated Strip	Thickness	Width	Outer Diameter
	0,20-2,00mm	11-500mm	max. 2.600mm
Coated Sheet	Thickness	Width	Length
	0,40-2,00mm	800-2.100mm	800-6.000mm

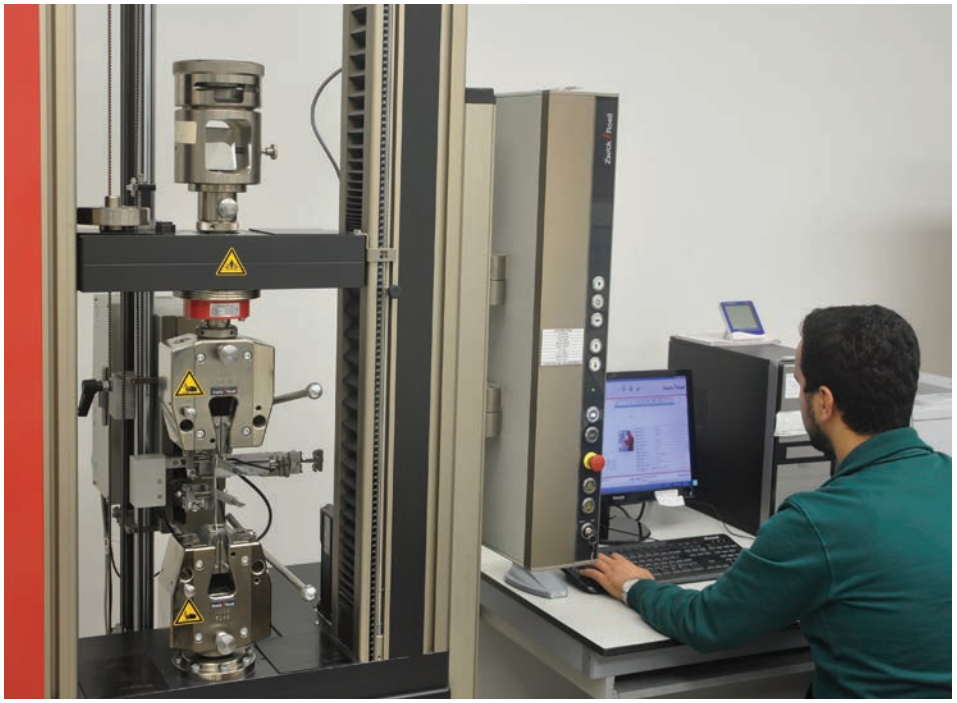
Quality



Key Features

- Innovation culture
- Process excellence
- Respect for people
- On place in time quality
- Voice of the customers
- Development with suppliers





CORE WORKING PRINCIPLES AND QUALITY

Supporting every one of our business lines is a robust set of six Core Working Principles. These are Quality Management, Technical Support, Customer Care, Health & Safety, Environmental Sensitivity and Positive Work Environment.
These working principles are designed to benefit our clients, protect our employees and ensure the wellbeing of the communities we touch.

HEALTH & SAFETY

At ASAŞ, we are diligent in identifying, evaluating and eliminating every possible risk at all stages of our production process. We do this by planning precautions and their implementation, running practical training initiatives and maintaining the continuous development of our ISO 45001 best practices.

ENVIRONMENTAL SENSITIVITY

The aim of the ASAŞ Environmental Management System (A-EMS) is Zero Environmental Impact. To achieve this we take a number of practical steps that include the selection of alternative materials with less environmental impact, the maximum use of recycled materials, the minimal use of packaging, the removal of wastewater and the management of all hazardous emissions.

Management System Certificates

ISO 9001
ISO 14001
ISO 45001
ISO 50001
ISO 27001
IATF 16949

Product Certificates (For only certified products)

Research & Development



Key Features

- 80 highly skilled technicians and engineers working in ASAŞ R&D Department which is officially licensed by the government
- 1.800 square meter building equipped with laboratories and test center
- New product development
- New process development
- Solutions and know how provider to our customers
- Alloy development





Our research and development department plays an integral role in the life cycle of our products. Our main focus is the development of existing & new products and processes, the creation of innovative solutions and the creation of short and long-term partnerships with our customers. We cultivate innovation with our first R&D Center about aluminium in Turkey.
Our organization performs a wide range of research and development work looking ahead for the future. ASAŞ R&D Team concentrates on long term future based development of the technologies for value creation and cost effectiveness. Also, by being close to our customers and their specific need we cooperate together with them as a partner to find solutions to their industrial needs where they can have great advantage on their business.

ASAŞ specialized technical R&D team work on:

- Alloy development having qualified physical and mechanical properties
- Development of thermo-mechanical processes for optimizing mechanical properties, anisotropy and corrosion behavior
- Optimization surface and process conditions for coating
- Microstructural analysis, analysis of mechanical properties and advanced material analysis etc
- Innovative solutions for our customers' projects together with foil, sheet and coated product customers
- New & existing products' development

TECHNICAL SUPPORT

ASAŞ has the most modern laboratories of Turkey and Europe established with an investments of more than a million dollar. There are 65 test and sample preparation equipments in the flat products laboratories which have a total area of about 600m². With engineers graduated from the best universities in Turkey and experienced staff working in the industry more than 15 years, The team is leading the formation of a new know-how in aluminum sheet and foil production with the widest and fastest machines in the world.
By these means ASAŞ also follows the existing and possible needs of the customers and produces alternative solutions to them.

KEY EQUIPMENTS

OES Spectrometer with inclusion analysis module
SEM equiped with EDS and EBSD guns
Detailed rolling oil analysis with Destilation and FTIR equipments
Process simulation with Pilot Rolling Mill and Annealing Furnaces
Pre-Painting simulation with Color Application Unit and Pilot Annealing Furnaces

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ASAŞ

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