

YOUR TRUST AND SUCCESS,  
**OUR TOMORROW**



posco  
TNPC



## ABOUT POSCO TNPC (TURKEY NILUFER PROCESSING CENTER)

### Background

Established as a steel processing center, specialized in automotive steel, White goods and industrial goods steels in the Turkey's one of the biggest industry city BURSA.

Responding customer's needs and requirements on time

### Location

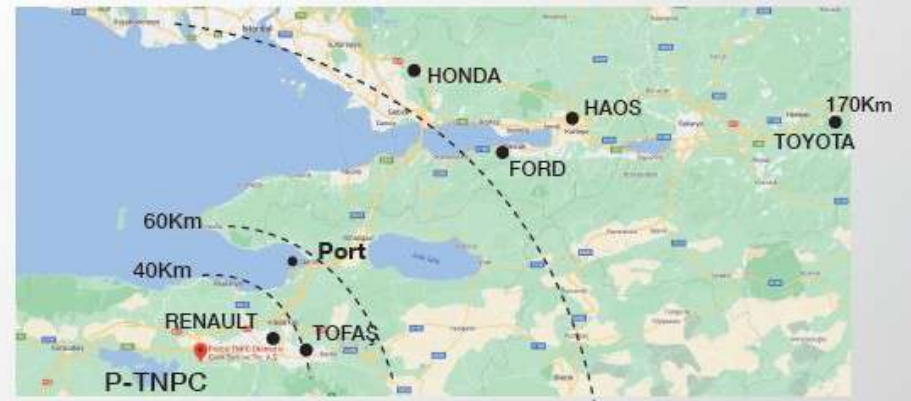
Hasanağa O.S.B.(Nilüfer Bursa)

### Investment Project Outline

Capa'	200,000 MT/Y
Facilities composition	- Slitter 1 (80,000MT/Y) - Cut to Length 1 (70,000MT/Y) - Blanking Press 1 (50,000MT/Y)
Area Scale (1,000m <sup>2</sup> )	- Gross 32, Building 13
Invested Amounts	23.5Million U\$
Stake Composition	POSCO 100%

## POSCO TNPC CAPABILITIES

	Slitter	Shear (Cut to Length)	Blanking Press
Raw Materials	CR, HR-PO, GI, EG, PosMAC, NGO, etc		
Thickness (mm)	0.3~4.5	0.4~4.0	0.3 ~ 3.2
Width (mm)	100 - 1,650	400 - 1,900	400 - 1,900
Press Power (ton)			800
Handling Weight (ton)	Max 20	Max 20	Max 25
Capa' (ton/Y)	80,000	70,000	50,000

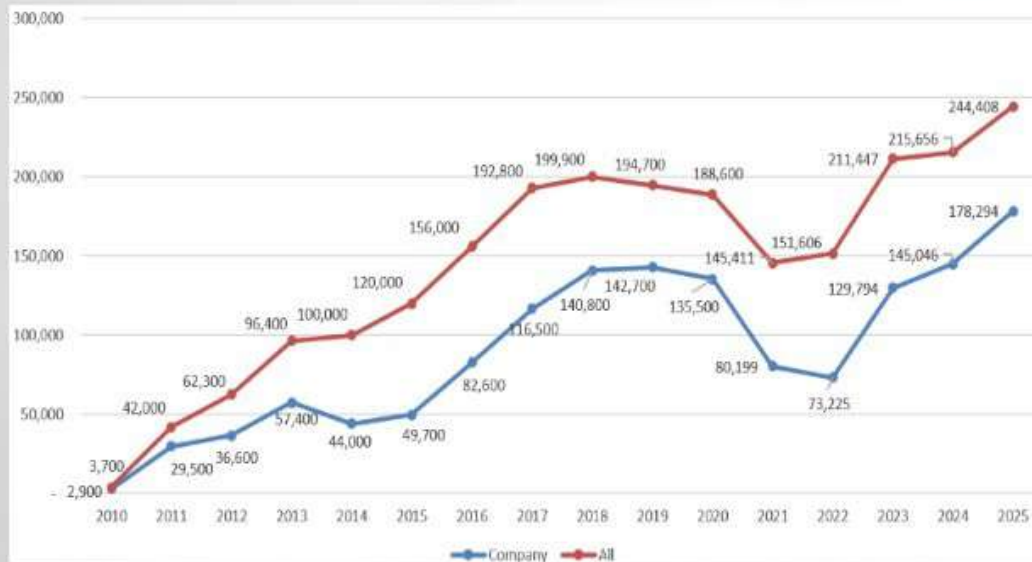


Your Trust and Success, Our Tomorrow

## Brief History of TNPC

- Aug. 2009 : Incorporation (POSCO TNPC Otomotiv Çelik San. ve Tic. A.Ş)
- Oct. 2010 : Inauguration
- Apr. 2012 : ISO9001, ISO TS16949 Certification
- Mar. 2018 : Posco TNPC enters into Hasanağa Industrial Zone (HOSAB)
- Feb. 2019 : 1 Million Tons Accumulated sales of Posco TNPC
- Feb. 2020 : POSCO TNPC is the 3rd biggest company in HOSAB, (BTSO, Bursa First 250 Large Company Research)
- Aug. 2024 : 2 Million Tons Accumulated sales of Posco TNPC

## Sales Volume Trend (Company Sales - All)



## About POSCO

POSCO was launched on April 1, 1968 with the national mission of industrialization. As the first integrated steel mill in Korea, it has grown to produce 41 million tons of crude steel a year, and it is conducting various global businesses, e.g. production and sales in 53 countries in the world. POSCO has been contributing to the development of mankind through endless innovation and technology development, and became the most competitive steel maker in the world.



# Industries that Processing in POSCO TNPC



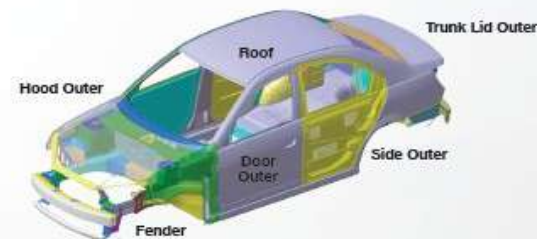
## AUTOMOTIVE

With top-level global technology, strict quality control practices and service know-how powered by an extensive global network, POSCO delivers top-quality automotive materials to many global automakers around the world.

Our steel intended for vehicles provides different properties in terms of hardness, workability, weldability, corrosion resistance, formability, paintability and linearity, depending on where it is used in the vehicle. With excellent hardness, workability, weldability, corrosion resistance, formability, paintability and distinctness of image gloss, POSCO's automotive steel is supplied only with quality products through a thorough quality certification process.

### BODY

The body absorbs and diffuses shock to protect occupants upon impact. If the car is an electric vehicle, the body also works to protect the battery. The body consists of outer and inner panels and requires different performance in terms of formability, paintability, linearity, workability, weldability, anti-corrosiveness and more, depending on where they are used.



### Advanced High Strenth Steel



Advanced High Strength Steel is metallurgically classified as transformation toughened steel using low-temperature transformation structure. Its variants include DP (Dual Phase) steel, TRIP (TRansformation Included Plasticity) steel, XF (eXtra Formable) steel, TWIP (TWinning Induced Plasticity) steel, CP (Complex Phase) steel, Mart (Martensitic) Steel and FB (Ferrite and Bainite) steel. Among the variants, those with a tensile strength of over 1 GPa are referred to as Giga Steel.

#### Automotive Key Specifications

Item	Grade
HR	S355MC
HR	S420MC
HR	S355MC
HR	S420MC
HR	S500MC
CR	DC04
CR	DC05
CR	DC04
CR	DC05
CR	DC06
CR	DC04
CR	HC280LA
CR	HC300LA
CR	HC340LA
CR	HC380LA
CR	HC420LA
CR	DC04
CR	DC05
CR	DC06
CR	HCT600X(DP600)
CR	HCT450X(DP450)
CR	HCT500X(DP500)
CR	HCT780X(DP800)
HGG	DX51D+Z
HGG	DX52D+Z
HGG	DX53D+Z
HGG	DX54D+Z
HGG	DX56D+Z
HGG	HX220YD+Z
HGG	HX260LAD+Z
HGG	HX300LAD+Z
HGG	HX340LAD+Z
HGG	HX380LAD+Z
HGG	HCT600X+Z(DP600+Z)
HGG	HX420LAD+Z
HGG	HCT450X+Z(DP450+Z)

# HOME APPLIANCES

POSCO delivers products with unmatched performance and design that can meet the needs of rapidly changing lifestyles. We also offer solutions needed for the application of steel materials, leading new trends in home appliances.

## HOME APPLIANCES

With smart devices expanding its presence greatly among home appliances, the designs are no longer monolithic with white and have started to diversify. In particular, premium and stylish looking metal with colorful and geometric patterns are gaining in popularity. To be in line with these trends, POSCO offers a wide range of cold rolled steel, galvanized steel and electrical galvanized steel that provide good resistance to corrosion and allow for diverse surface treatment. To help home appliances meet their energy efficiency requirements, we offer electrical steel sheets featuring low loss of power.

### Key Specifications

CR : DC01, DC03, DC04, DC05, DC06 , H260LA, H300LA, H340LA, H380LA, H420LA

HDG : DX51D+Z, DX52D+Z, DX53D+Z, DX54D+Z, DX56D+Z, DX57D+Z , DP450, DP500, DP600, DP800

EGI : SECC , DC01+ZE



# The POSCO Quality ELECTRICAL STEEL

Electrical plates are also called electronic plates or silicon plates. Compared to regular steel plates, silicon plates contain more silicon, featuring good electric and magnetic characteristics.

POSCO produces over 1 million tons of electrical steel sheets every year. The non-grain oriented electrical steel has a different, non-uniform crystal orientation. Its main applications include products containing rotating parts, such as motors and generators. Grain oriented electrical steel has a uniform crystal orientation, featuring a much higher magnetic performance. Its main applications include products that have a stationary phase, such as transformers. Demand for electrical steel is increasing as the need for clean energy sources is rising to save energy and prevent environmental pollution.

## GRAIN ORIENTED ELECTRICAL STEEL



This steel is made in such a way that its crystal is magnetized in parallel with the rolling direction. This means that the steel has excellent magnetic properties in the rolling direction and is used for large and mid to small transformers, distribution transformers and reactors.

## NON ORIENTED ELECTRICAL STEEL

It has homogeneous magnetic properties relative to the rolling direction and all other directions. It has an extensive range of applications ranging from large scale power generators to small precision motors and cores of small to large rotators.



### Key Specifications and Magnetic Properties

	SPEC	MAX Core loss	MAX Core loss	Typical Core Loss	Magnetic flux		SPEC	MAX Core loss	MAX Core loss	Magnetic flux
		1.7750Hz(W/kg)	1.7760Hz(W/kg)	1.755Hz(W/kg)	85Min, T)			1.5150Hz(W/kg)	1.5160Hz(W/kg)	850Min, T)
G-O	23PH080	0.80	1.14	0.77	1.88		35PN210	2.10	2.63	1.61
	23PH085	0.85	1.17	0.80			35PN230	2.30	2.86	1.61
	23PH090	0.90	1.19	0.83			35PN250	2.50	3.12	1.62
	27PH085	0.85	1.17	0.81			35PN270	2.70	3.37	1.62
	27PH090	0.90	1.22	0.84			35PN300	3.00	3.72	1.62
	23PH 085	0.85	1.17	0.83			35PN330	3.30	4.08	1.62
	23PH 090	0.90	1.26	0.88			35PN360	3.60	4.42	1.63
	27PH 100	1.00	1.35	0.96			35PN440	4.40	5.37	1.65
	30PH 105	1.05	1.45	1.01			50PN250	2.50	3.22	1.62
							50PN270	2.70	3.46	1.62
N-GO							50PN300	2.90	3.69	1.62
							50PN310	3.10	3.95	1.62
							50PN330	3.30	4.12	1.62
							50PN350	3.50	4.34	1.62
							50PN400	4.00	5.07	1.63
							50PN470	4.70	5.94	1.64
							50PN600	6.00	7.47	1.66

World Top Premium Steel in the Future Mega Trend

# ECO ENERGY

POSCO can help deliver an access to clean and inexhaustible energy sources. POSCO's steel products will play a pivotal role in the upcoming era of clean energy as they can be used in the production, transport, storage and consumption of energy.

## What is PosMAC®3.0 ?



Solar panel support

PosMAC3.0 (POSCO Magnesium Aluminium alloy Coating product) is a ternary alloy coated steel (Zn- 3%Mg- 2.5%Al) with high corrosion resistance developed with POSCO's own technology.

PosMAC®3.0 is the registered trademark of POSCO.



How PosMAC works

## Equipment Specifications

Classification		Pohang #1CGL	Gwangyang #2CGL
Operation date		2012. 04	1992.6
Capacity		750 thousands ton/year	510 thousands ton/year
Product dimensions	Thickness	0.4~4.5mm	0.45~2.3mm
	Width	800~1650mm	720~1860mm
Coating weight		60~400 g/m <sup>2</sup>	80~350g/m <sup>2</sup>
Product grade		General, Structural	Automobile, General, Structural
Post treatment		Chromate(Cr <sup>6+</sup> , Cr <sup>3+</sup> ), Cr-free, Oiling	Chromate(Cr <sup>3+</sup> ), Oiling

# STEEL PLATES

POSCO produces a variety of steel plates with the state-of-the-art facilities. Common applications include shipbuilding, construction and heavy machines, offshore structures and wind farms, pressure vessels (storage tanks) and line pipes (carrying oil).

### Key Specifications:

- EN10025-2/3/4/6 : S235/375/355JR, S235/375/355J0, S235/375/355J2, S355/420/460N(L)



1915 ÇANAKKALE

POSCO Wire Rod (41,000t)

POSCO Steel Plate (95,000t)

POSCO Steel Plate (52,000t)

# ALCOSTA

(Hot-dip Aluminized Steel Sheet)

Vehicle (Muffler, Exhaust Pipes, Engine Cover, Heat Shield, Fuel Tank, and etc),  
Home Appliance (Oven Range, Dryer, and etc), building materials)

## Applications:

**Automotive** Muffler: Passenger Car, Commercial Vehicle Motorbike, Lawnmower



**Indoor Item** Water Boiler, Hot Plate, Bake-wear, Oven, Toaster, Home Bakery, Rice Cooker,  
Tumble Dryer, Stoves, Fan Heater



## Key Specifications

DX51D+AS, DX52D+AS, DX53D+AS, DX54D+AS, DX56D+AS, DX57D+AS

Coating Amount : Type 1 : 40 ~ 160 g/m<sup>2</sup>

Type 2 : 150 ~ 240 g/m<sup>2</sup>



## OUR PRODUCT RANGE

Hot-Rolled Steel & Hot-Rolled Pickled & Oiled

Cold-Rolled Steel

Galvanized / Galvannealed Steel

Electro-Galvanized Steel

Electrical Steel / Silicon Steel (GO - NGO)

Aluminized Steel

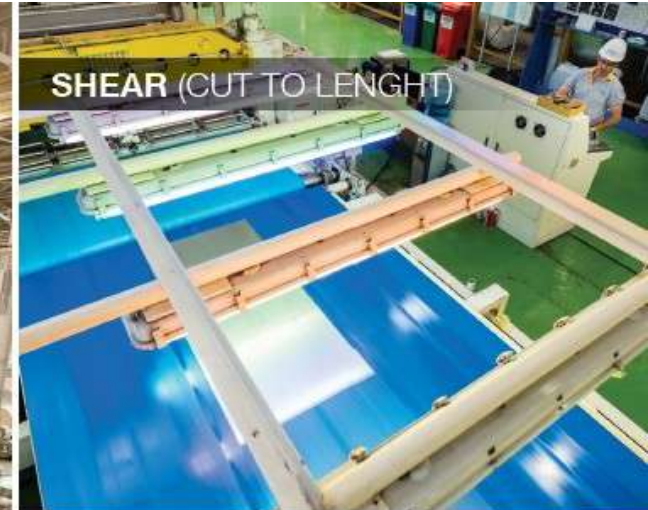
PosMAC Steel

Wire - Rods

Steel Plates



**FACTORY VIEW**



**SHEAR (CUT TO LENGTH)**



**FACTORY INSIDE**



**BLANKING PRESS**



**FACTORY VIEW**



**BLANKING**



**SLITTER**



# REFERENCES

## AUTOMOTIVE

OYAK RENAULT

TOFAŞ



## HOME APPLIANCES



# REFERENCES

## ELECTRICITY & MOTOR



## CONSTRUCTION & STRUCTURE & ENERGY



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**POSCO TNPC OTOMOTİV ÇELİK SAN.ve TİC.A.Ş.**

Hasanağa OSB Mah. 13. Cadde No: 4  
Nilüfer, Bursa, Turkey

Tel | +90 224 484 31 32

Fax | +90 224 484 31 77

[info@posco.com.tr](mailto:info@posco.com.tr)

[maposfiet.com](http://maposfiet.com)



[www.posco.com.tr](http://www.posco.com.tr)

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