

posco
THAINOX

With POSCO



STAINLESS STEEL
One of the Most Sustainable Material

CORPORATE PRESENTATION

January 2023
External Relations Department

CORPORATE OVERVIEW

POSCO : The most Competitive Steel maker in the World.



POSCO

is a multinational steel-making company headquartered in Pohang, South Korea.

POSCO Honored as world's most competitive steel company for twelve years running. WSD(World Steel Dynamics), the world's leading steel industry analysis agency, announced POSCO as the world's best steelmaker.

CORPORATE OVERVIEW

POSCO GLOBAL NETWORK

With POSCO

U.S.A

UPI

MEXICO

POSCO-MEXICO

BRAZILE

CSP

TURKEY

ASSAN TST

PAKISTAN

TSML

INDIA

MAHARASHTRA, ESI

MYANMA

MYANMA-POSCO

CHINA

ZPSS, QPSS, GUANGDONG

THAILAND

THAINOX, TCS

VIETNAM

VST, VIETNAM, VPS, SS VINA

MALAYSIA

POSCO-MALAYSIA

INDONESIA

P.T KRAKATAU

12 OVERSEAS PRODUCTION BASES

33 PROCESSING CENTERS, 73 SALES NETWORK

CORPORATE OVERVIEW

POSCO GLOBAL NETWORK

With POSCO

AMERICA
POSCO-AAPC(Alabama)
POSCO-MAPC(Mexico)
POSCO-MPPC(Mexico)
POSCO-MVWPC(Mexico)

EUROPE
POSCO-PWPC(Poland)
POSCO-ITPC(Italy)
POSS-SLPC(Slovakia)

SOUTH WEST ASIA
POSCO-IPPC(Pune)
POSCO-IDPC(Delhi)
POSCO-IAPC(Gujarat)
POSCO-ICPC(Chennai)
POSCO-TNPC(Turkey)

MIDDLE EAST
POSCO-GSFC(Las Al Kimer)

CHINA
POSCO-CSPC(Suzhou)
POSCO-CTPC(Tianjin)
POSCO-CDPC(Chengdu)
POSCO-CCPC(Chongqing)
POSCO-CFPC(Foshan)
POSCO-CWPC(Wuhu)
POSCO-CLPC(Shenyang)
POSCO-CYPC(Yantai)
POSCO-CDPPC(Dalian)
POSCO-CJPC(Jilin)
POSCO-CQPC(Qingdao)

JAPAN
POSCO-JEPC(Kanto area)
POSCO-JWPC(Kansai area)

SOUTH ASIA
POSCO-TBPC(Bangkok)
POSCO-TSPC(Chon Buri)
POSCO-MKPC(Kuala Lumpur)
POSCO-VHPC(Ho Chi Minh)
POSCO-VNPC(Hanoi)
POSCO-IJPC(Jakarta)
POSCO-PMPC(Manila)

12 OVERSEAS PRODUCTION BASES

33 PROCESSING CENTERS, 73 SALES NETWORK

CORPORATE OVERVIEW

POSCO-THAINOX

With POSCO

THE ONLY ONE
STAINLESS STEEL
MANUFACTURER
OF **THAILAND**

LEADING
PREMIUM STAINLESS STEEL
MANUFACTURER
IN THE WORLD



Plant area.130 Rai = 51 Acres = 206,000 m²

CORPORATE OVERVIEW

POSCO-THAINOX HISTORY TIMELINES

1990

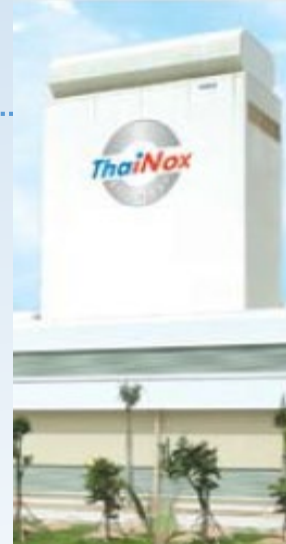
Thainox Steel Limited
was established on July 30
Rayong Industrial Park (R.I.P.)

1999

Phase 2 Completed (150K Tons)

2011

POSCO acquired Thainox (85%)



1993

Phase 1 Completed (60K Tons)

2007

Phase 3 Completed (300K tons)

2013

POSCO-Thainox (Amata)
established



CORPORATE OVERVIEW

POSCO-THAINOX NETWORK



Head Office

MARKETING DIVISION

- SALES & RAM MATE
- TECHNICAL SERVICE
- ORDER PLANNING



Coil Processing center

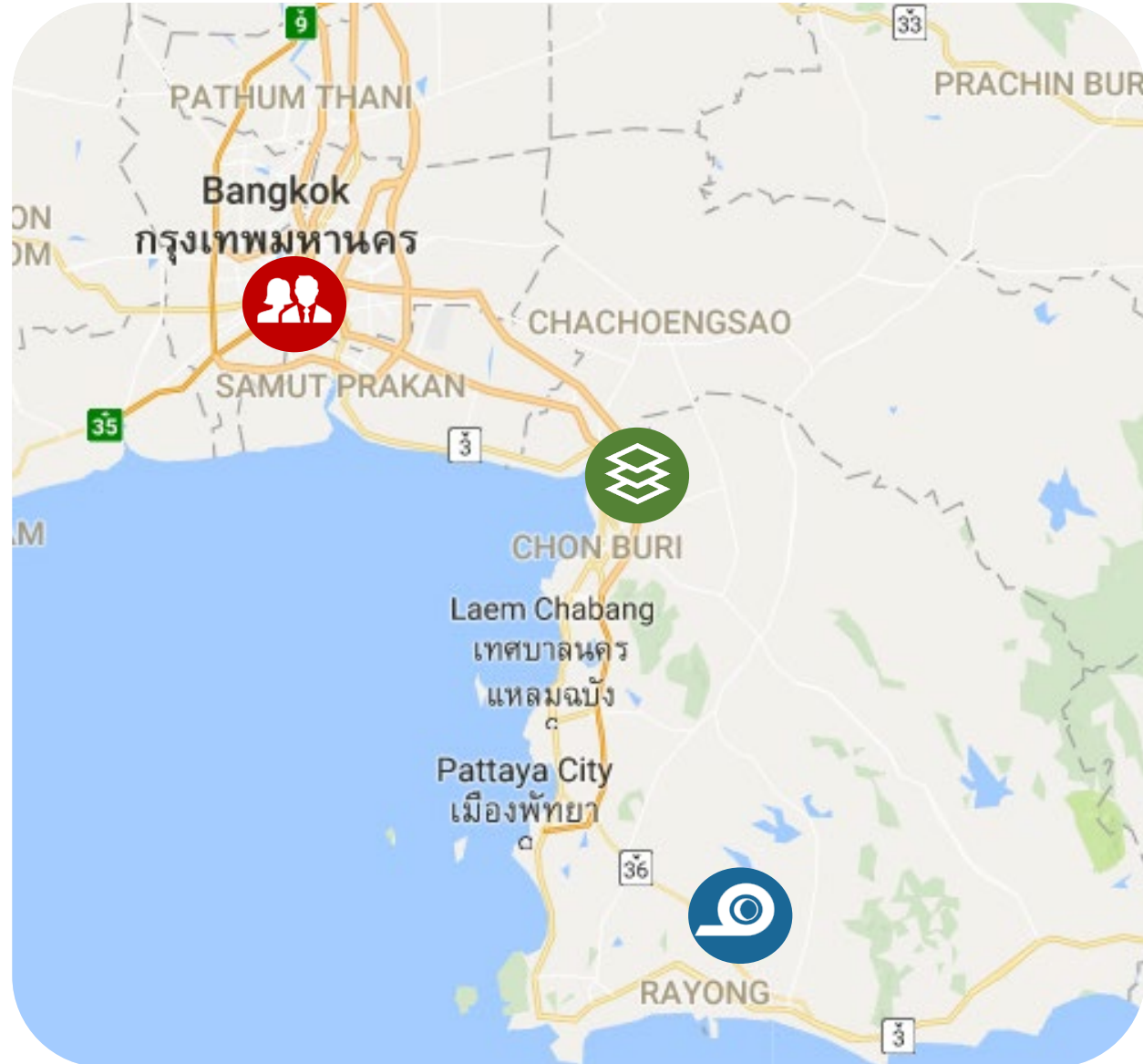
MARKETING DIVISION

- SALES & ORDER PROCESSING
- PRODUCTION & QUALITY
- TECHNICAL SERVICE



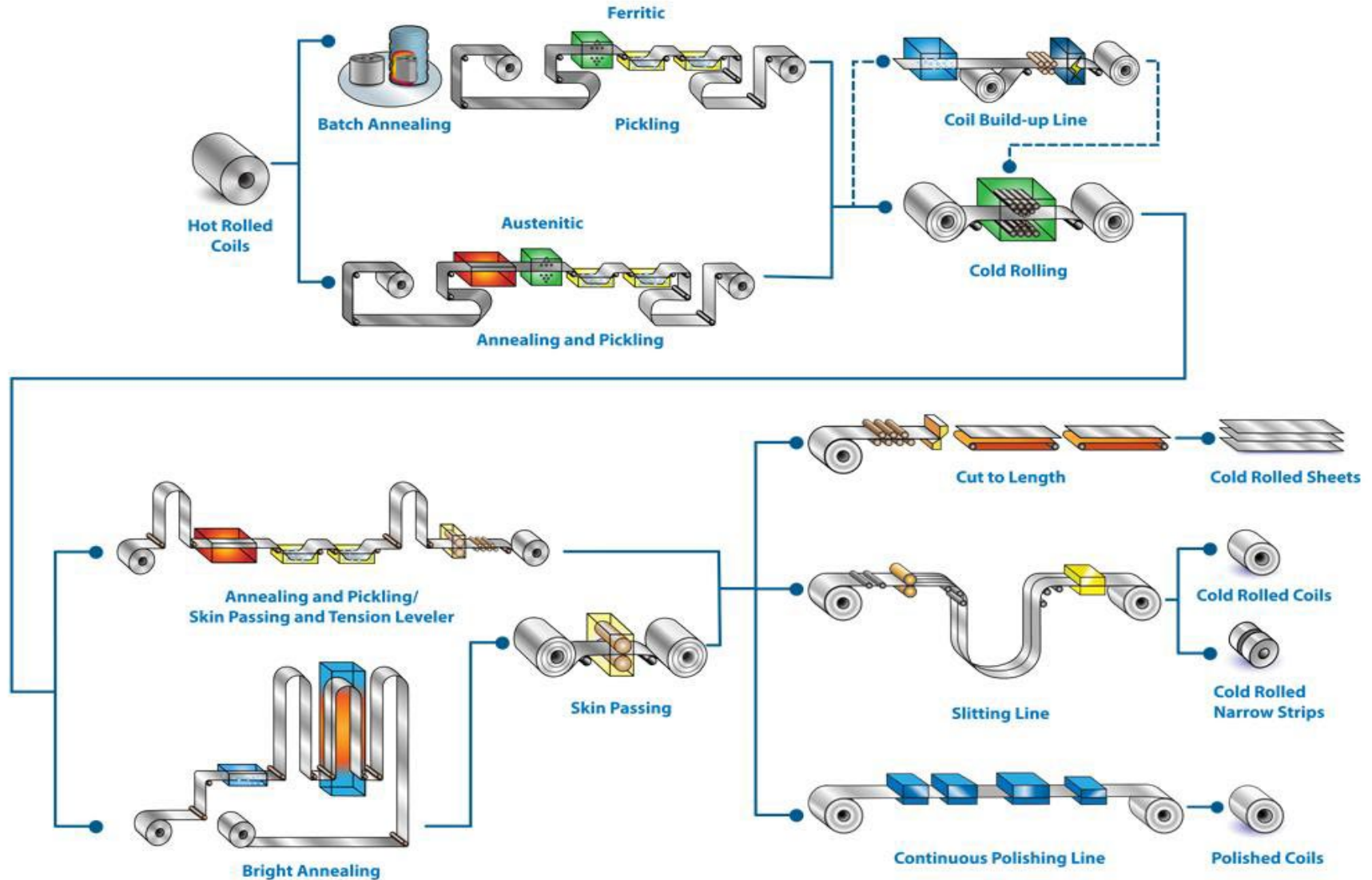
Manufacturing

- PRODUCTION & QUALITY
- ORDER PROCESSING
- TECHNICAL SERVICE



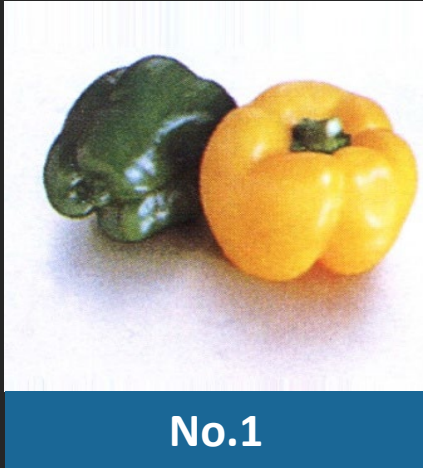
PRODUCTION CR PROCESS OVERVIEW

With POSCO



PRODUCTION SURFACE AVAILABLE

With POSCO



No.1

A dull, slightly rough surface



2D

A uniform dull matt finish



2B

Brighter than 2D and is semi-reflective



BA

Brighter than 2B and is semi-reflective

※ BA SURFACE COMPARISON

COMPANY	Ra	Gloss
POSCO THAINOX	0.02 – 0.03	900 – 1,100
JAPAN N COMPANY	0.024	1,015

AVAILABLE PRODUCTS GRADES

300 Series

(More available products consult POSCO-Thainox)

Austenitic Product			Typical	Characteristics	Application
Grade	Finished	Thickness	Component		
301	BA, JJ,QQ HL,No.3,No.4 2D,2B, FH	0.25-1.6	16Cr 6Ni 0.15C	High strength	Seat belt, spring
304			18Cr 8Ni	Good corrosion resistance and formability, high weldability, excellent cleanability	Home appliance, food tank, building and transportation industries
304L			18Cr 8Ni 0.03C	Good corrosion and sensitization resistance, high weldability	Tube, hollowware, home appliance
316			16Cr 10Ni 2Mo	Excellent corrosion and pitting resistance, high strength at high temperature by adding molybdenum	Food processing industry, boiler, heat exchanger
316L			16Cr 10Ni 2Mo 0.03C	Excellent intergranular corrosion resistance compared to Grade 316, with low carbon content	Chemical industry, truck tanks, hot water tank.
321			17Cr 9Ni Ti	Increase intergranular corrosion resistance by adding titanium.	Heat exchanger
304J1			15Cr 6Ni Cu	Excellent formability by adding copper	Suitable for deep drawing applications
				0.25-5.0	

AVAILABLE PRODUCTS GRADES

400 Series

(More available products consult POSCO-Thainox)

Ferritic Product			Typical	Characteristics	Application
Grade	Finished	Thickness	Component		
409L	BA, JJ,QQ HL, No.3, No.4 2D, 2B, FH	0.25-1.6 0.25-3.0 0.25-5.0	10.5Cr Ti	Good weldability and formability, high temperature oxidation resistance	Exhaust pipe
430			16Cr	Moderate formability, high corrosion resistance	Home appliance, washing machine
439			17Cr Ti	High corrosion resistance and high-temperature oxidation resistance	Exhaust pipe, hot water tank
441			18Cr TiNb	Good deep drawability, better resistance against roping, high thermal conductivity, low thermal expansion coefficient	Washing machine, sink, decorative panel, kitchenware,
POSRE1			19Cr TiNb	Good corrosion resistance, drawability, and weldability; high-temperature oxidation resistance	Home appliance, kitchenware
POS430RE			16Cr Ti	Good formability and ridging resistance	Washing machine, sink, kitchenware
POS445NF			20Cr MoTiNb	High corrosion resistance and good weldability	Kitchenware, elevator
436L			16Cr MoTiNb	Excellent corrosion resistance by adding Molybdenum, good weldability	Exhaust pipe, hot water system
436J1L			17Cr MoTi	Excellent corrosion resistance and weldability; cost savings with lower molybdenum content, compared to Grade 436L	Automotive industry
430J1L			19Cr Nb Cu	Good corrosion resistance and formability; high-temperature oxidation resistance, compared to Grade 430, by adding copper and niobium	Exhaust pipe, home appliance

Remark: C = Carbon, Cr = Chromium, Cu = Copper, Mo = Molybdenum, Nb = Niobium, Ni = Nickel, Ti = Titanium

PRODUCTS DEVELOPMENT

7 GRADES



304, 304L, 316L
 430, 409L, 439, 441

FOCUS ON
 COMMON PRODUCTS

3 Finishes
 2D ,2B, BA

2553 (2010)

18 GRADES



301, 304J1, 321
 430M2, 430J1L, 436L,
 436J1L, POSRE1,,
 448EM, 201T, 202T

AUTO & H/A AND
 END-USER DEVELOPMENT

4 Finishes
 JJ

2557 (2014)

24 GRADES



429EM, 444, 445NF
 430RE, 410L, 420J2

HIGH FUNCTIONAL
 AND LOW COST
 PRODUCT DEVELOPMENT

8 Finishes
 No4, HL , QQ , 2H

2559 (2016)

26 GRADES



201J1 , 304XD

SPECIFIC USAGE AND SPECIFIC
 POSLISHING FOR NICH MARKET

10 Finishes
 No.3, No.8

2562 (2019)

QUALITY CERTIFICATE

WORLD OF COMPLIANCE

Awarded Certifications & International Standard Compliance

	ISO 9001:2015	Quality Management Systems
	ISO 14001:2015	Environmental Management Systems
	ISO 45001:2018	Occupational Health and Safety Management Systems
	ISO / IEC 17025 : 2017	The Competence of Testing Calibration Laboratories
	วท. (TIS) 1378-2559	Thai Industrial Standards
	JIS G 4312/JIS G 4313 JIS G 4305	Japan Industrial Standards
	IS 6911-2017	Bureau of Indian Standards
	EN10088-4	Construction Products Regulation of European Conformity
PED	PED 2014/68/EU	For Pressurized Equipment
AD2000	W0/ W2/ W10	Pressure Equipment Directive, Materials
RoHS	RoHS	For the Removal of Harmful Substances
REACH	REACH	For the Use of Chemical Substances



TIS 1378-2539



EN 10088-4

IS 6911:1992



CML-4100027968



G 4305 KSTH14002



G 4312 KSTH14003

APPLICATIONS

With POSCO

MORE THAN 1,000 USAGES





THANK YOU

