

HOA PHAT GROUP

HOA PHAT STEEL SHEET CO., LTD



EUROPEAN
TECHNOLOGY



FLEXIBILITY



DURABILITY



TÔN HÒA PHÁT
CHẤT LƯỢNG HÀNG ĐẦU

HOA PHAT



HOA PHAT

COMPANY INTRODUCTION



HOA PHAT STEEL SHEET COMPANY LIMITED

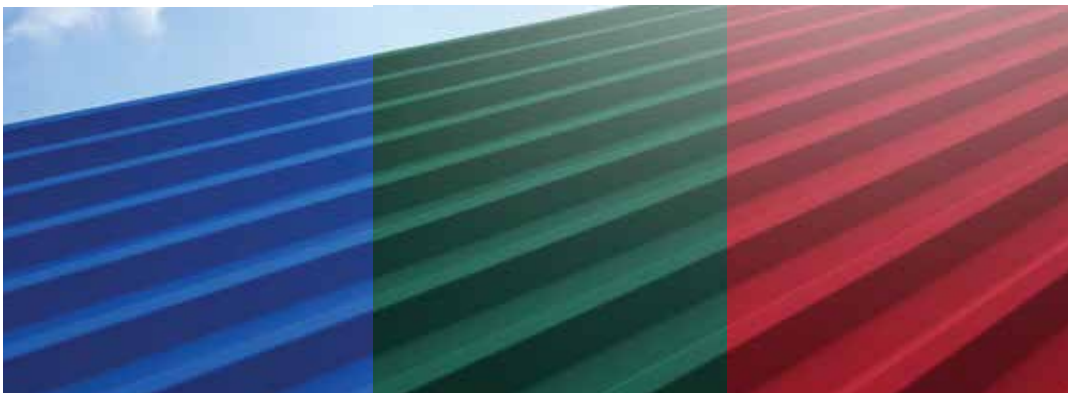
As a member of Hoa Phat Group (HPG), Hoa Phat Steel Sheet Company was established in early 2016 and specializes in manufacturing steel sheet products including PO/CR/GI/GL/ PPGI/PPGL. That's a new project which we called as a cold rolled Complex. This is an important step for HPG to close its chain valued added of steel products – the core sector of HPG.

The Complex is located in Pho Noi A industrial zone, Hung Yen Province, has been invested with total capital of 170 millions USD and overall capacity of 400.000 Mts per year. The factory will officially come into production with first commercial products in 1st Quarter 2018. All the machines were imported from Europe and Australia with the most advanced technology.

We supply a wide range of Picked & Oiled steel coils; Cold rolled (full hard) steel coils; Hot-dip Galvanized/ Al-Zn coated steel coils; Prepainted Hot-dip galvanized/Al-Zn coated steel coils, complying with JIS 3321: 2010; BS EN 10346: 2009; AS 1397:2001; ASTM A792...Especially, the GI/GL& Color coating line can produce most high quality products that will meet all local customer's requirement and plan to export to worldwide market such as Europe, USA, Asia, etc...

With over 20 years of experience in steel factory investment, HPG is achieving a biggest market share of construction steel and steel pipe in Vietnam and exporting to big markets including North America, Europe, Australia and South East Asia.

We commit to reaching high levels of productivity and quality, continued compliance to all environmental regulations, to protect present and future human health in our local environment.



CAPACITY

Address: E1, E zone, Pho Noi A, Lac Dao Town, Van Lam District, Hung Yen Province, Vietnam

Investment capital: 170 millions USD, capacity 400.000 Mts / year.

Area: 120.327m²

Main equipments and capacity:

- 1 push-pull picking line: 600.000 Mts/year
- 2 cold rolling mills: 200.000 Mts/year/line
- 1 Hot-dip Al-Zn coating line: 150.000 Mts/year.
- 1 Continuous hot-dip galvanizing/Al-Zn coating line: 350.000 Mts/year.
- 1 Pre-painted hot-dip galvanizing/Al-Zn coating line: 120.000 Mts/year.
- 1 Acid regeneration plant

Equipment Manufacturer: From European & G7 countries:

- Danieli - Italy
- SMS - Austria
- Bronx - Australia



PRODUCT RANGE

PICKED & OILED STEEL COILS (PO).



COLD ROLLED STEEL COILS (CRC-FULL HARD)



HOT-DIP GALVANIZED / AL-ZN COATED STEEL COILS (GI/GL)



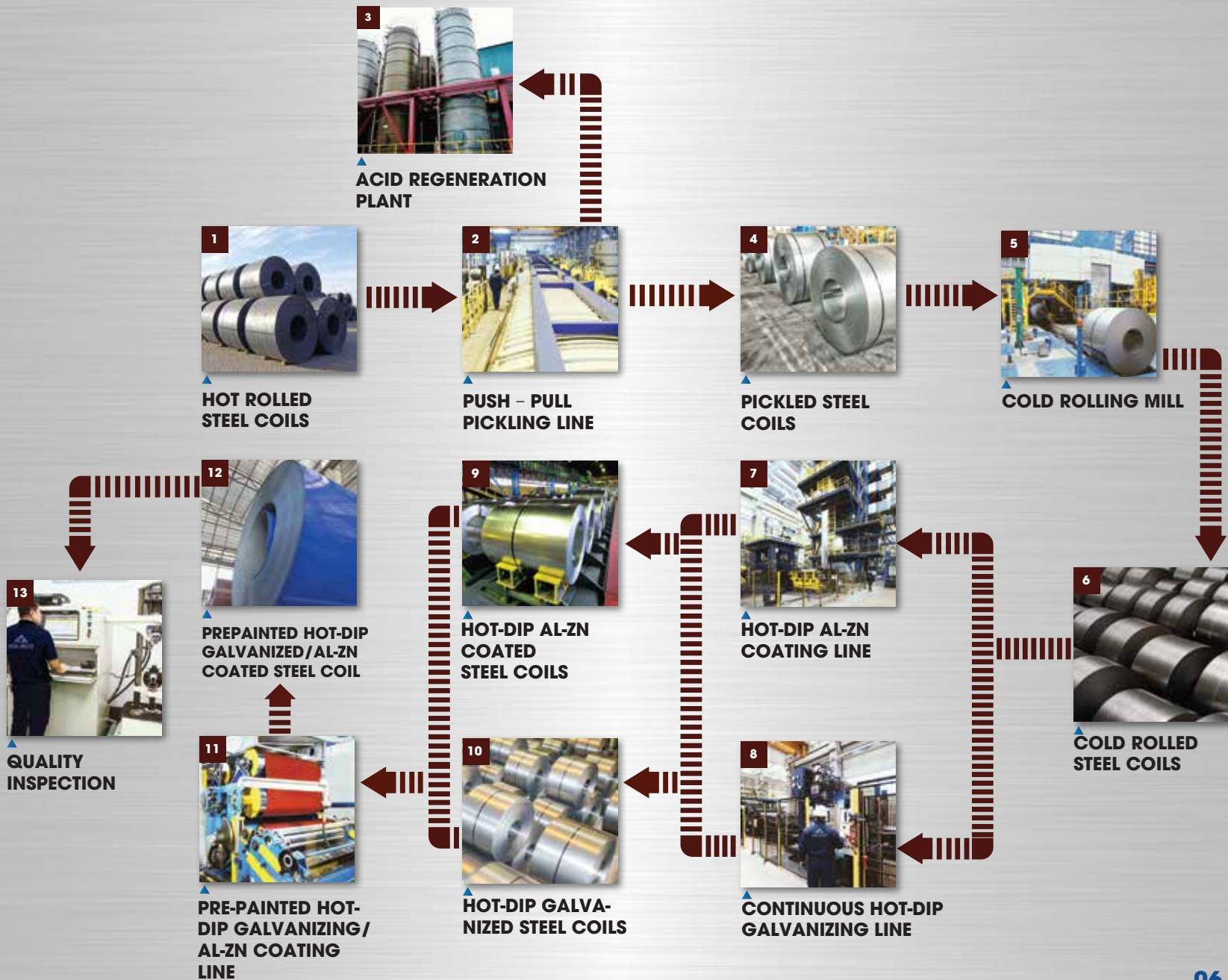
PRE-PAINTED HOT-DIP GALVANIZED / AL-ZN COATED STEEL COILS (PPGI/PPGL)



P R O D U C T I O N L I N E

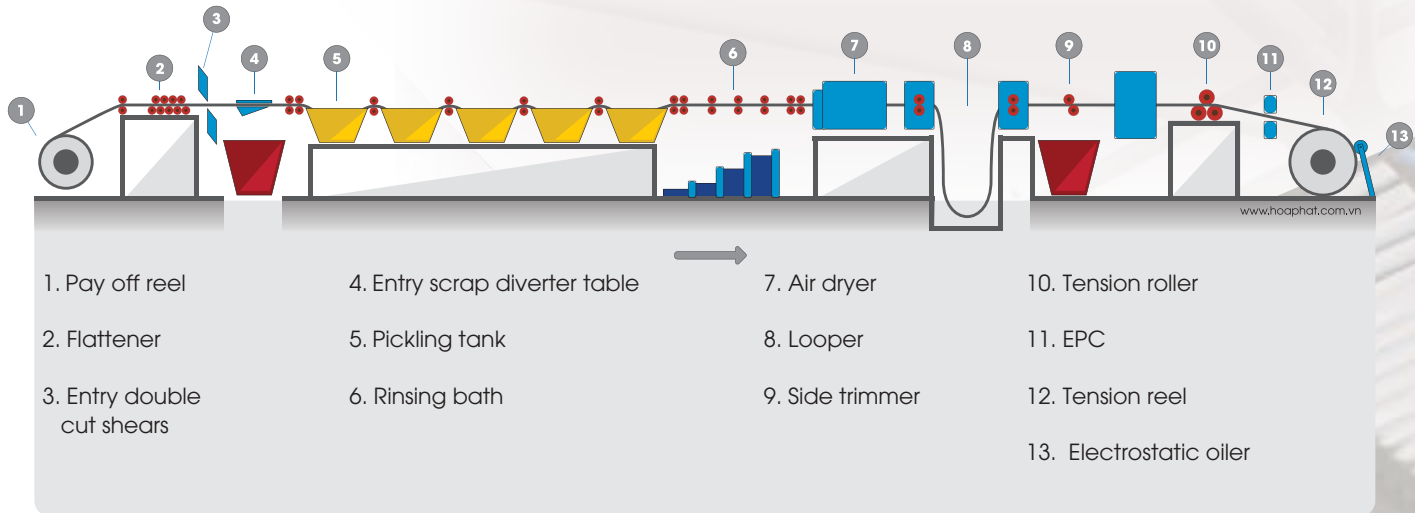


PRODUCTION LINE



1. PUSH - PULL PICKLING LINE (01 line)

Capacity: **400.000-600.000 Mts/year**



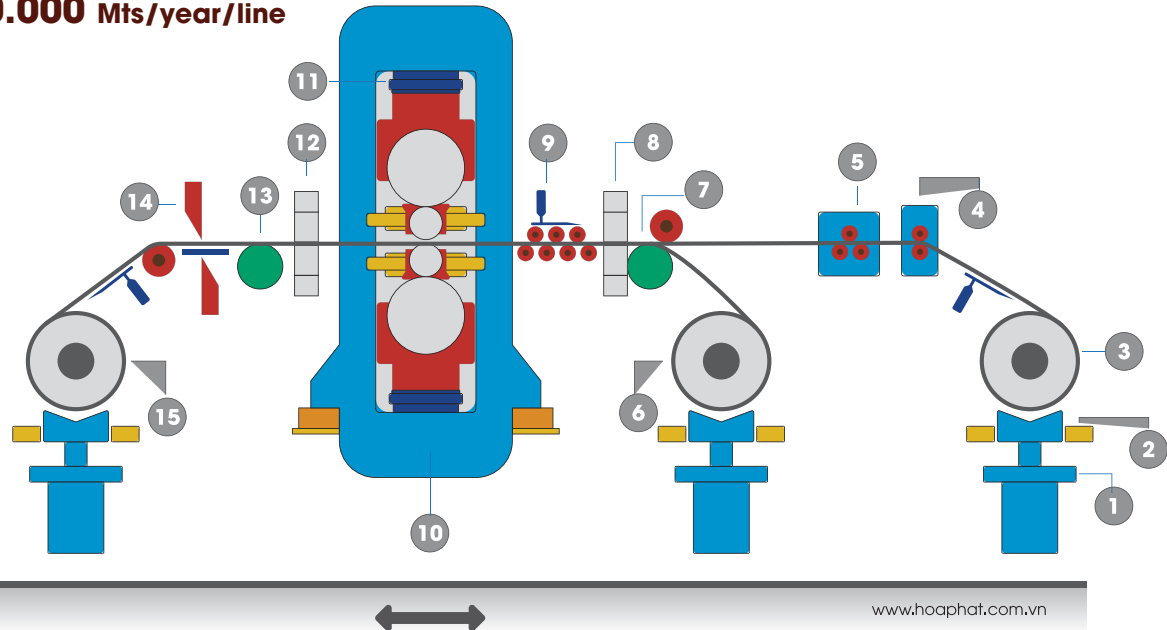
PRODUCT OF PUSH - PULL PICKLING LINE

Picked & Oiled Steel coils (PO).

- Standard: **SAE 1006, JIS G3131 SPHC**
- Width (mm): **650 ÷ 1.250**
- Thickness(mm): **1,2 ÷ 4,0**
- Coil ID (mm): **610 (± 10)**
- Coil OD (mm) : **max 2.000**
- Coil weight (MT): **max 25**

2. COLD ROLLING MILL (02 mills)

Capacity: **200.000 Mts/year/line**



www.hoaphat.com.vn

- | | | | |
|-----------------|--------------------------|------------------------------|-------------------------------|
| 1. Coil car | 5. Flattener roll | 9. Entry free bridle roll | 13. Delivery shape meter roll |
| 2. Coil saddles | 6. Entry tension reel | 10. 4_Hi mill Stand | 14. Delivery shear |
| 3. Pay off reel | 7. Entry shape metter | 11. Hydraulic Force Cylinder | 15. Delivery tension reel |
| 4. Pinch roll | 8. Entry thickness gauge | 12. Delivery thickness gauge | |

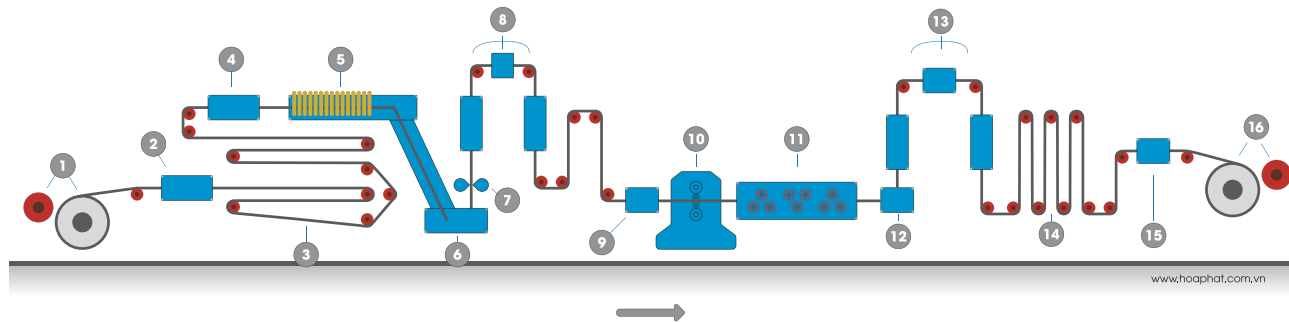


COLD ROLLED STEEL COILS (CRC-FULL HARD)

- Standard: **JIS G 3141 (SPCC-1B)**
- Tensile strength (N/mm²): **min 550**
- Width(mm): **650 - 1.250**
- Thickness (mm): **0,15 - 2,5**
- Coil ID (mm): **508 (± 10), 610(± 10)**
- Coil OD (mm): **900 ≤ Ø ≤ 2.000**
- Coil weight (MT): **max 25**
- Hardness (HRB): **min 85**

3.HOT-DIP CONTINUOUS GALVANIZING /AL-ZN ALLOY COATING LINE *(02 lines)*

Total Capacity: **500.000 Mts/year**



1. Pay off reel

2. Welding machine

3. Entry accumulator

4. Cleaning section

5. Non oxidising furnace

6. Zinc coating post

7. Air knife rigs

8. Cooling tower

9. Coating gauge

10. Skin pass mill

11. Flattener

12. Chemical coater

13. Dryer

14. Exit accumulator

15. Electrostatic oiler

16. Tension reel

HOT-DIP GALVANIZED /AL-ZN COATED STEEL COILS (GI/GL)

TECHNOLOGY: NOF

STANDARD:

- GI: JIS G3302/BSEN 10346/AS 1397/ASTM A653- A653M
- GL: JIS G3321/ BSEN 10346/AS 1397/ASTM A792- A792M

TENSILE STRENGTH (N/mm²): Min 270

BASE METAL THICKNESS (mm):

- GI: **0,25 – 3,0**
- GL: **0,15 – 1,5**

WIDTH (mm): 750 -1.250

COIL ID (mm): 508 (± 10), 610 (± 10)

COIL OD (mm): 900 ≤ Ø ≤ 2.000

COIL WEIGHT (MTS): max 25

COATING MASS:

- GI: **Z06 - Z35**
- GL: **AZ40 - AZ200**

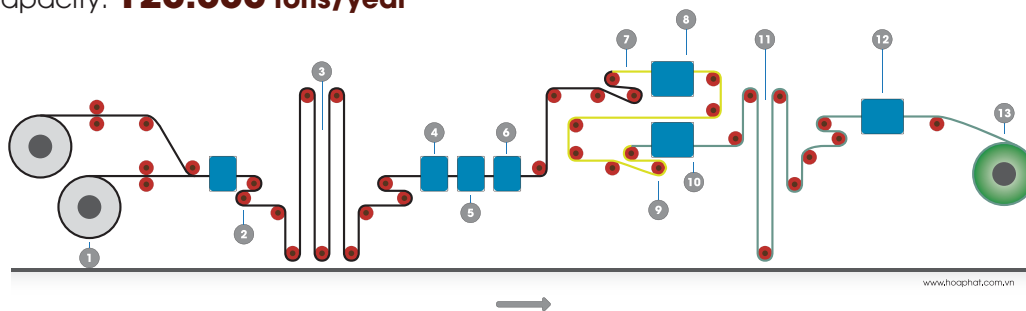
T-BEND: ≤ 2T

With 55% aluminum, 43,5% zinc and about 1.5% silicon, the galvalume products consist of following outstanding characteristics:

- Excellent corrosion resistance.
- Easy maintenance.
- Durability
- Easy installation.
- Attractive silver color.
- High heat reflectivity.
- Safety and suitability for climatic conditions of Vietnam.
- Sunlight reflection.
- No cracking, no peeling, no rusty surface

4. PRE-PAINTED HOT-DIP GALVANIZING / AL-ZN COATING LINE (01 line)

Capacity: **120.000 tons/year**



- | | | | | |
|----------------------|--------------------|------------------|----------------------|------------------|
| 1. Raw material | 4. Cleaning | 7. Primer coater | 10. Finish oven | 13. Tension reel |
| 2. Joiner | 5. Pre - Treatment | 8. Primer oven | 11. Exit accumulator | |
| 3. Entry accumulator | 6. Air dryer | 9. Finish coater | 12. Exit shear | |

PRE-PAINTED HOT-DIP GALVANIZED / AL-ZN COATED STEEL COILS (PPGI/PPGL)

- Standard: **JIS G3322/ JIS G3312/ ASTM A755/ A755M/ BS EN 10169/ AS 2728**
- Coil ID (mm): **508 (±10), 610 (±10)**
- Coil OD (mm): **Max 1500**
- Coil weight: **Max 10 MT**
- Tensile strength(N/mm²): **min 270 N/mm**
- Cold rolling strip (Base metal) thickness (mm): **0,15 - 0,8**
- Width (mm): **600 - 1250 (mm)**
- Top coat: **15 - 25 (± 1µm)**
- Back coat: **5 - 25 (± 1µm)**
- T-Bend: ≤ **3T**
- Pencil hardness: ≥ **2H.**
- MEK Solvent Strength: ≥ **100DR**
- Adhesion: **no peeling**
- Impact Resistance: **no peeling**
- Glossiness: **25 - 85%**

COMMITMENT OF HOA PHAT STEEL SHEET

- High quality and durability product
- Accurate size and thickness according to registered standards.
- Warranty up to 20 years.
- Always caring, sharing and accompanying with customers.



www.hoaphat.com.vn



APPLICATIONS OF PRODUCTS

Structural Engineering & Construction <

Truss/Roofing/Door case/wall/Building material <

Electrical panel/Tooling box/wind pipe/Cable Trunking <

Container partition/Path indicators/Soundproof wall/Fences/ Traffic signal <

Decoration/Furniture & Others <



HOA PHÁT
TÔN MẠ MÀU - MẠ KẼM

Head office in Hanoi:

39 Nguyen Dinh Chieu Street,
Le Dai Hanh Ward, Hai Ba Trung District, Hanoi, Vietnam,
T: (+84-24) 36332108 – F: (+84-24) 36332107
E: steelsheet.ex@hoaphat.com.vn

Da Nang Branch:

Road No.7, Hoa Khanh Industrial park,
Lien Chieu District, Da Nang City, Vietnam.
T: (+84-236) 3733999 - F: (+84-236) 3721245

Ho Chi Minh Branch:

641-643 Dien Bien Phu street,
25 Ward, Binh Thanh District, Ho Chi Minh City, Vietnam.
T: (+84-28) 62567979 – F: (+84-28) 62947979

www.hoaphat.com.vn