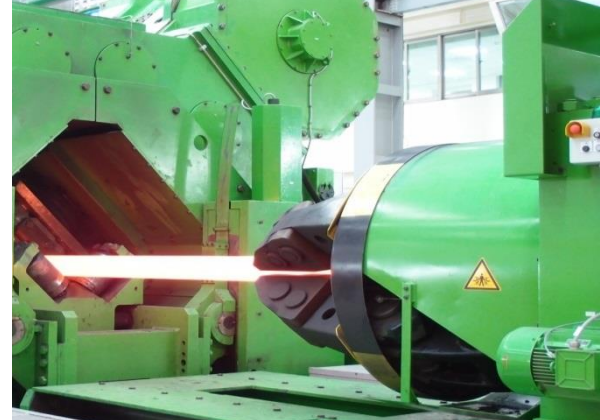
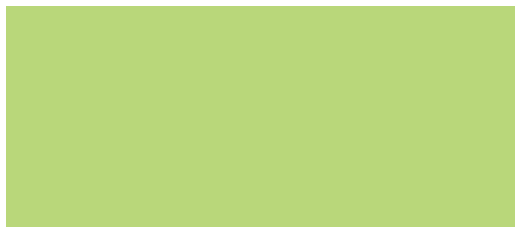


Gloria Material Technology Corp.
(Ticker : 5009)



Disclaimer

In addition to providing historical information, some of the content in this information involves the expression of future business opportunities. Due to the impact of uncertain factors and unknown risks, the actual results may be different from the stated content. Investors should make their own judgment and control risks.

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01 Company profile

02 Focused Industry Overview

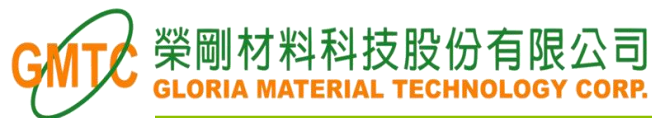
03 Financial Information

04 Growth of GMTC

05 Future Development



Company overview



- Ticker : 5009
- Founded : 3/19/1993
- IPO : 10/17/1998
- Capital : NT 60 Billion
- Consolidated Revenue : NT 13.5 Billion
- Chairman : Mr. Joseph Wang
- **President : Mr. Kang Yung-Chang**
- Address : No. 10, Gong 2nd Rd., Liuying Dist., Tainan, Taiwan 736 (Liuying Technology Industrial Park)
- Main products : Alloy Tool Steel 、 Functional Material 、 Commercial alloy steel ,etc
- Honored to be ranked Top 5% of the 8th,9th and 10th Corporate Governance Evaluation



**Top 5% of
Corporate
Governance
Evaluation**



Plant Hsinying



Plant Liuying



- ▼ Plant Area : Plant Hsinying, Plant Liuying
- ▼ Global Channel : Taiwan 、 America 、 Mainland China 、 Vietnam 、 Japan



Global Headquarter
in Tainan

Production

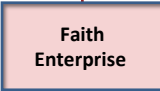
Logistic Channel



■ Steel producer



■ Finishing Process



■ Logistic Channels In China



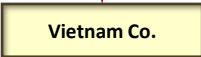
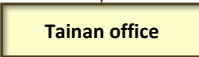
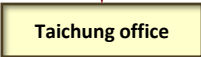
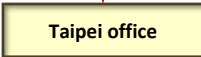
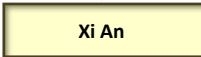
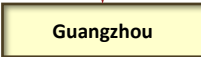
■ Logistic Channels in Taiwan & Vietnam



■ Logistic Channel in USA



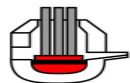
■ Sales office



Manufacturing in Taiwan, establishing Asian logistic channels, and marketing worldwide

Manufacturing Process

Melting



35T EAF



LHF



VD/VOD

Casting



Bottom pouring

Electrode

Remelting



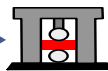
Electroslag
Remelting
(ESR)



Vacuum
Remelting
(VAR)

Add 5
(planning)

Forging



Break Down Mill
BDM



Radial Forging
GFM RF-70
SMX-350(STC)



3,500T & 1600T
Hydraulic Press

Rolling



3-Hi
Roughing
Mill



CNC Precision
Rolling Mill
Rolling
Bar

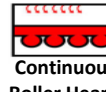
Heat Treatment



QT Furnace



Annealing
Furnace



Continuous
Roller Hearth
Furnace

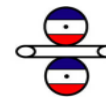


Continuous
Quench
Furnace

Finishing



Peeling
Reeling



Centerless
Grinding



Grinding

Cetification

Quality Management System

ISO 9001
AS9100
GE Aviation S-1000

Laboratory Management System

ISO 17025
GE S-400
PWC LCS
SAFRAN MTL

Special Process certification

NADCAP

- NDT
- Materials Testing
- Heat Treating

Environmental, Energy and Health & Safety management systems

ISO 14001
ISO 45001
ISO 50001
AEO

Automotive Quality Management System

IATF 16949 : 2016

Customer Approval

Aerospace



Energy



O&G



Medical



1. With the expansion of the Liuying plant, GMTC continues to carry out the certification process for the expansion of aerospace, energy, oil and gas, and machinery. This enables an increased range of sizes supplied.
2. Continue to get new certifications from system companies.

2019

1. Obtained Laboratory certification from GKN Aerospace in Swedish
2. Awarded as qualified supplier of Voestalpine BÖHLER Aerospace GmbH & Co KG for aerospace grade 300M
3. Awarded as qualified supplier of Safran Landing System (SLS) for MTL1201 300M
4. Awarded as qualified supplier of Airbus Canada - A220

2020

1. Awarded as qualified supplier of WEG
2. Awarded as qualified supplier of Triumph Integrated Systems(UK)

2021

1. Approved as qualified supplier of Cameron for superalloy
2. Obtained approval from Boeing for enlarging range of material supply
3. Obtained IS 6603:2001 certification from Bureau of Indian Standards (BIS)

2022

1. Obtained JIS Mark G4303 certification
2. BIS stainless steel (IS 6603) certification renewal, and addition of new steel types and increase the variety in size of supplies

2023

1. TS-GHX1 approved as NADCA Grade C
2. Obtained tool steel/high speed steel certification from Bureau of Indian Standards (BIS)

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Overview

Aerospace

1. The two major OEM have plans to increase production in 2024. Although Boeing's production increase plan is affected, material orders/shipments remain at a high level.
2. Replacing the old fleet and improving fuel efficiency is an important long-term thrust for the aerospace market.

Energy

1. Under pressure to reduce carbon emissions, nuclear power and natural gas power generation are the key to rapid short-term carbon reduction. Restarting nuclear power has been carried out in several countries. Steam or gas turbines have regained their attention, which has led to increased orders from major system manufacturers such as Japan, which can benefit the materials side.
2. In the long term, wind or solar power have the opportunity to become mainstream, and related business opportunities have been considered when expanding production lines.

O&G

- Benefiting from the fact that oil prices are at a relatively high level, the number of active oil wells in the world is still at a relatively high level despite the decline. Demand for materials is stable, as oil prices stabilize.
2. Winter oil demand has the opportunity to stimulate short-term market demand.
 3. The EIA Short-Term Energy Outlook on September 10 estimated that daily U.S. crude oil production will increase compared with 2024.

Recent Business Overview

Overview

Machinery

- 1.The demand for tool steel in America and Asia is stable, and the order volume can support the demand for production lines.
- 2.The appreciation of the yen exchange rate has prompted domestic machine tool manufacturers to receive urgent orders, stimulating orders for low-alloy steel.

Defense

Factors such as accelerated depletion of weapons inventories due to geopolitical conflicts, the development of new weapons, weapon upgrades, enhanced operational availability, and national defense independence have driven the steady growth of demand for specialty steel. GMTC could benefit from its stable lead time and competitive prices.

The outlook for the aerospace industry is good, demand from the military industry is stable, and orders and shipments of high-margin products remain high level

	Net Order			Delivery			Backlog
	2022	2023	2024.08	2022	2023	2024.08	2024.08
波音	774	1,314	122	480	528	258	6,165
空巴	820	2,094	413	661	735	447	8,564

- Boeing's backlog was 6,165 aircraft and Airbus's backlog was 8,564 aircraft in 2023. Backlog of orders remain high.
- Comparing the orders in hand and the delivery volume of Boeing and Airbus, we can find that orders were 6 to 8 times the peak in 2018. The upward trend is expected to continue in the coming years
- Although Boeing's production increase plan is affected, material orders/shipments remain at a high level.
- Boeing recently secured an order for 50 737 Max from China to replace its less fuel-efficient fleet.

GMTC supplies various raw materials for military industrial segment



Gun barel



Gun tubing



Missile shell



Torsion bar



Fighter landing gear

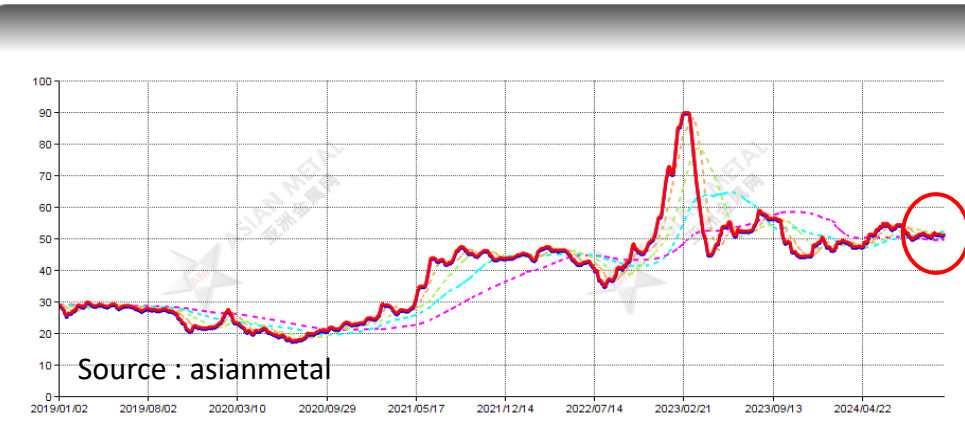
* Pictures are for illustration only

Trend of major ferro alloy prices

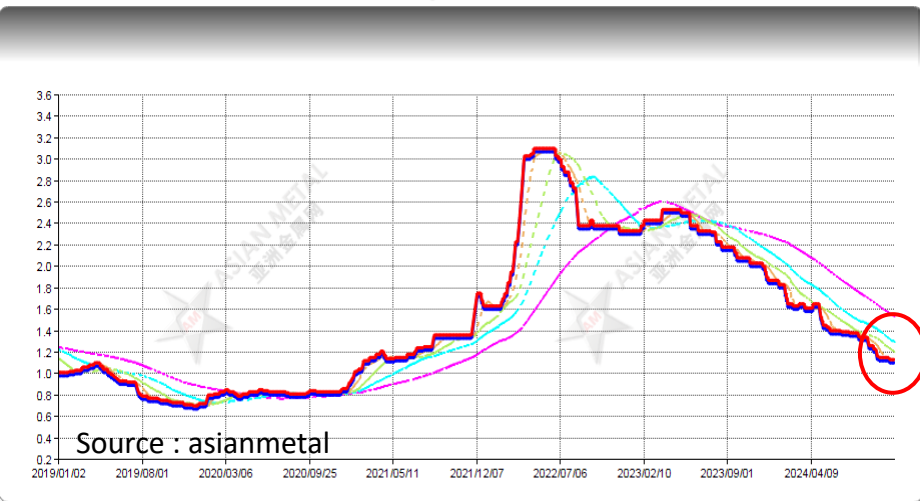
Ni : Down! Market Price USD 15,732~16,150/MT



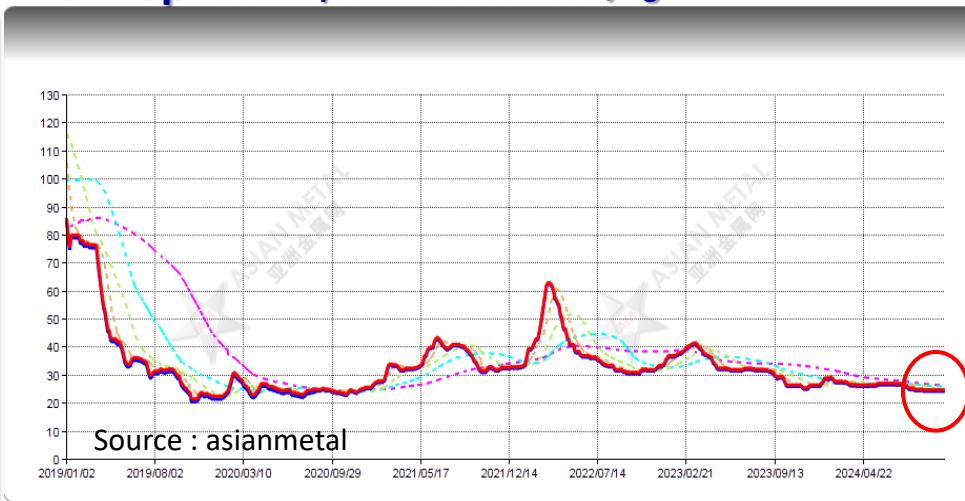
Mo : Up ! Market price at USD 50.75-51.5/kg Mo.



Cr : Down! HCr : Market price at USD 1.1-1.55/lb Cr.



V : Up ! Market price at USD 26-27.35/ kg V



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Financial performance (Consolidated)

Unit : NTD*1,000

	2024.Q3		2024.Q2		QoQ	2023.Q3		YoY
	Amount	%	Amount	%	%	Amount	%	%
Net Sales	3,039,122	100	3,363,835	100	-10	3,294,891	100	-8
Gross Profit	815,056	27	850,424	25	-4	935,605	29	-13
Operating Income	430,654	14	490,334	15	-12	605,739	19	-29
Net Income	998,422	33	725,291	22	38	530,759	16	88
Net Income Attributed to the Parent Company	990,968	33	715,997	22	38	523,747	16	89
EPS(NT)	1.67	-	1.20	-	39	1.00	-	67

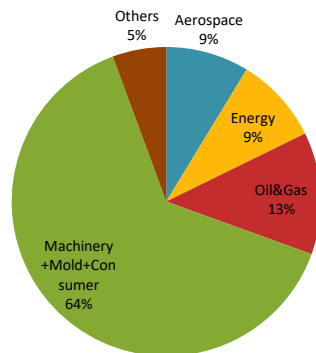
	2023		2022		YoY	2021		YoY
	Amount	%	Amount	%	%	Amount	%	%
Net Sales	13,525,251	100	12,365,317	100	9	8,770,944	100	54
Gross Profit	3,644,650	27	3,955,630	32	-8	2,338,770	27	56
Operating Income	2,374,232	18	2,414,961	20	-2	1,074,052	12	121
Net Income	2,395,251	18	2,098,015	17	14	837,300	10	186
Net Income Attributed to the Parent Company	2,339,563	17	2,018,769	16	16	751,575	9	211
EPS(NT)	4.66	-	4.52	-	3	1.7	-	174

Gross profit, Operating income, and Net income all reached record highs and continue to grow through:

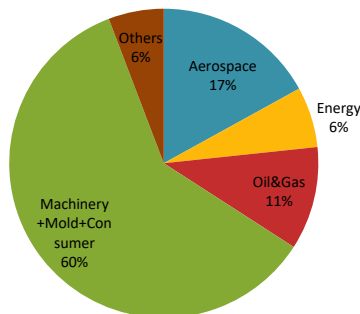
- New procurement strategy for raw material
- Consolidation of the manufacturing process and still types
- Waste reduction and successful cost control

Revenue by customer industry

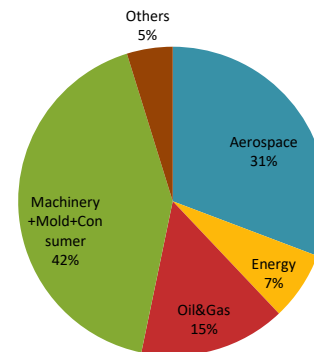
2021



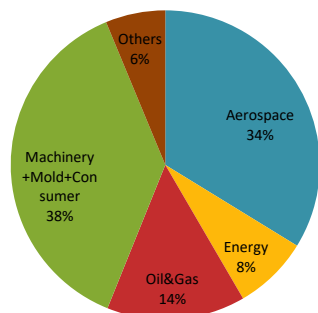
2022



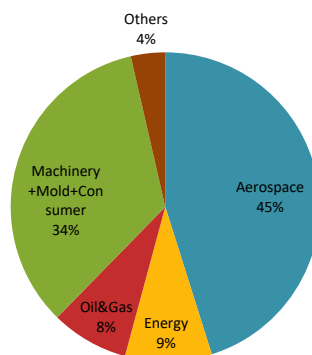
2023



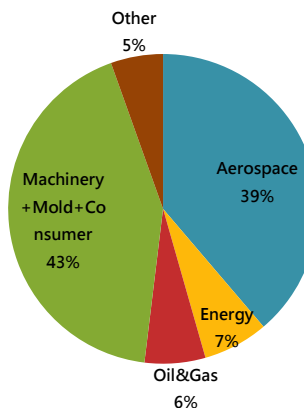
2023 Q4



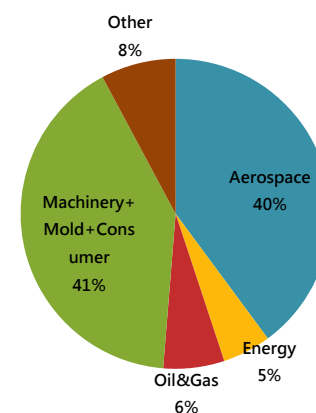
2024 Q1



2024 Q2

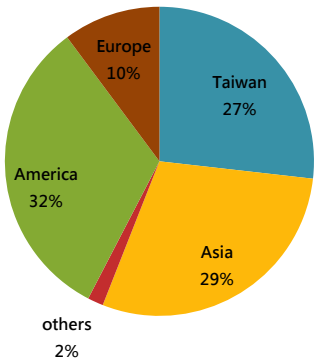


2024 Q3

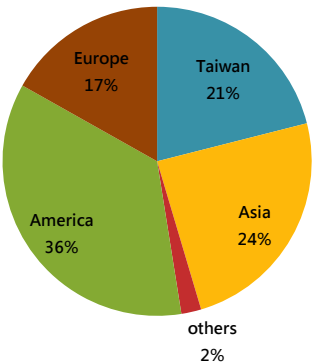


Revenue by Area

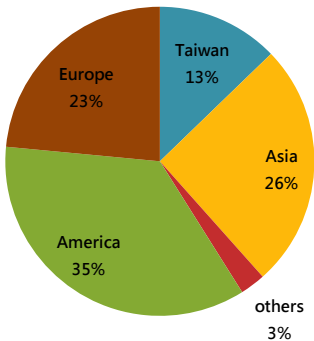
2021



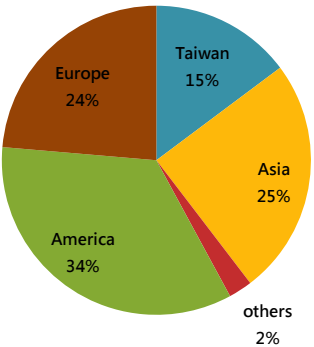
2022



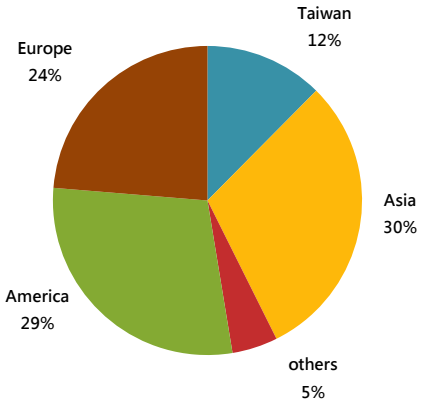
2023



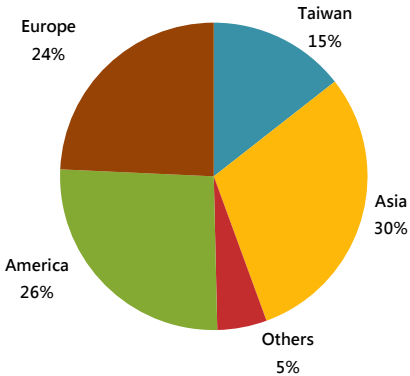
2023 Q4



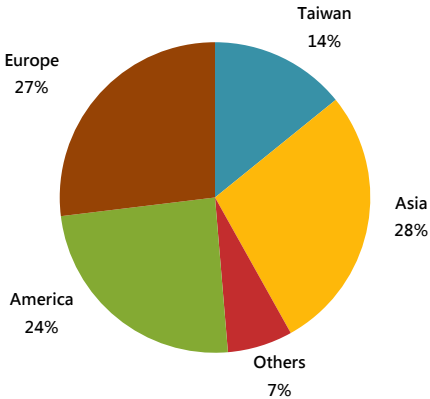
2024 Q1



2024 Q2



2024 Q3



Agenda

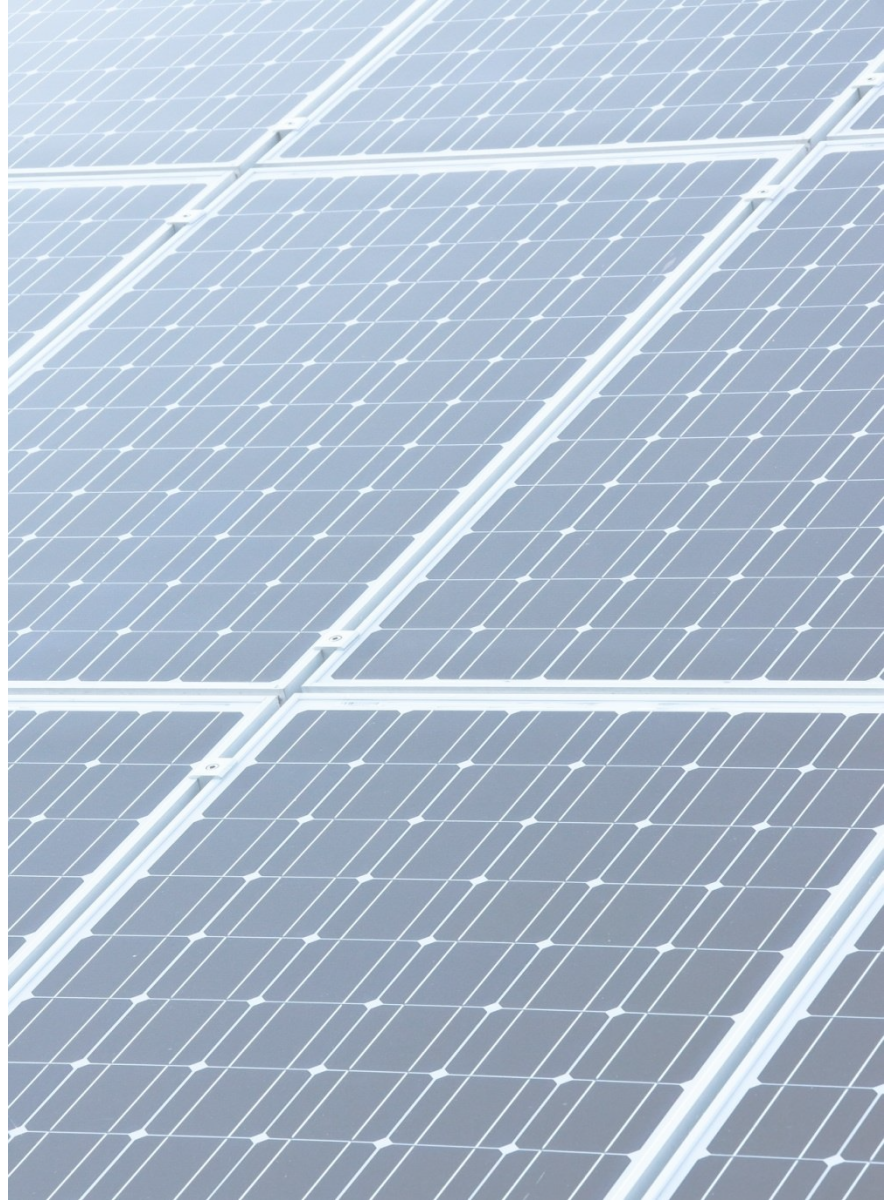
01 Company profile

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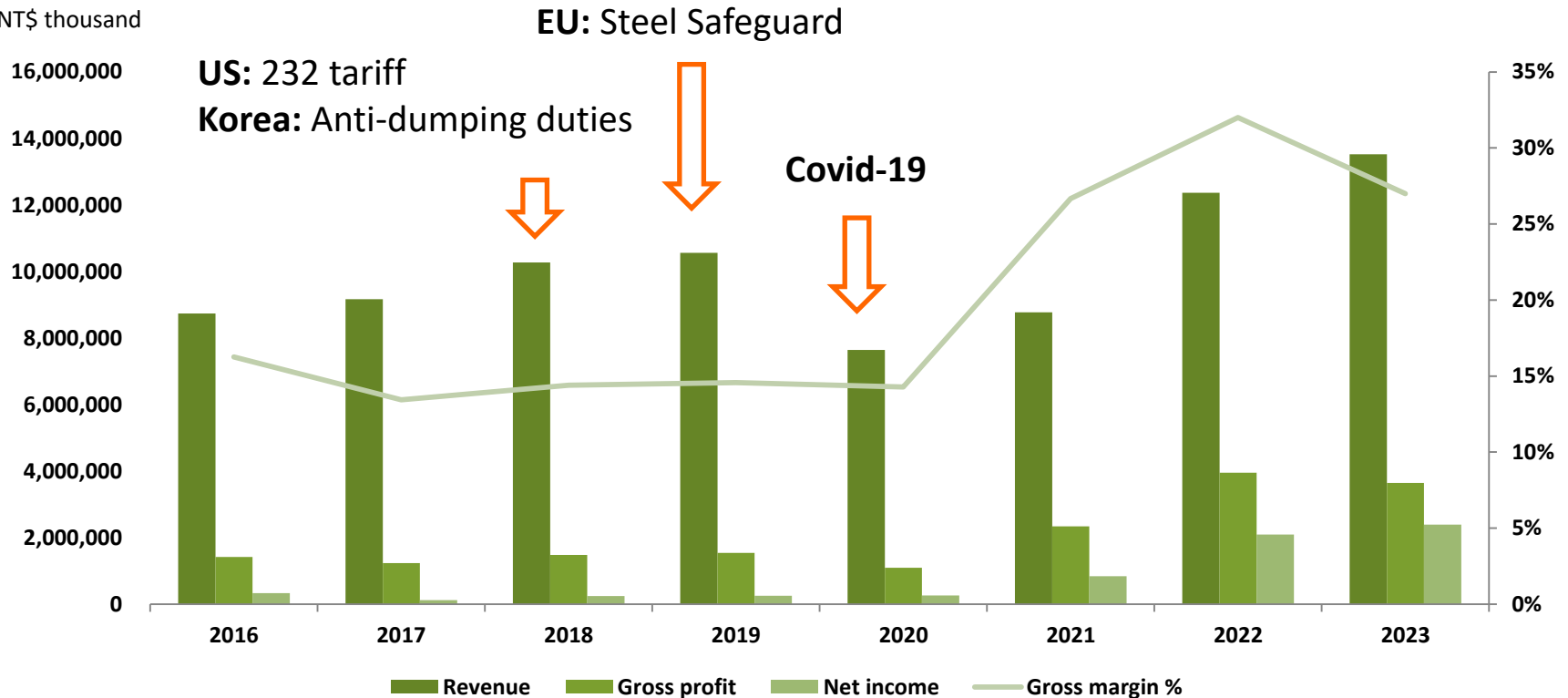
05 Future Development



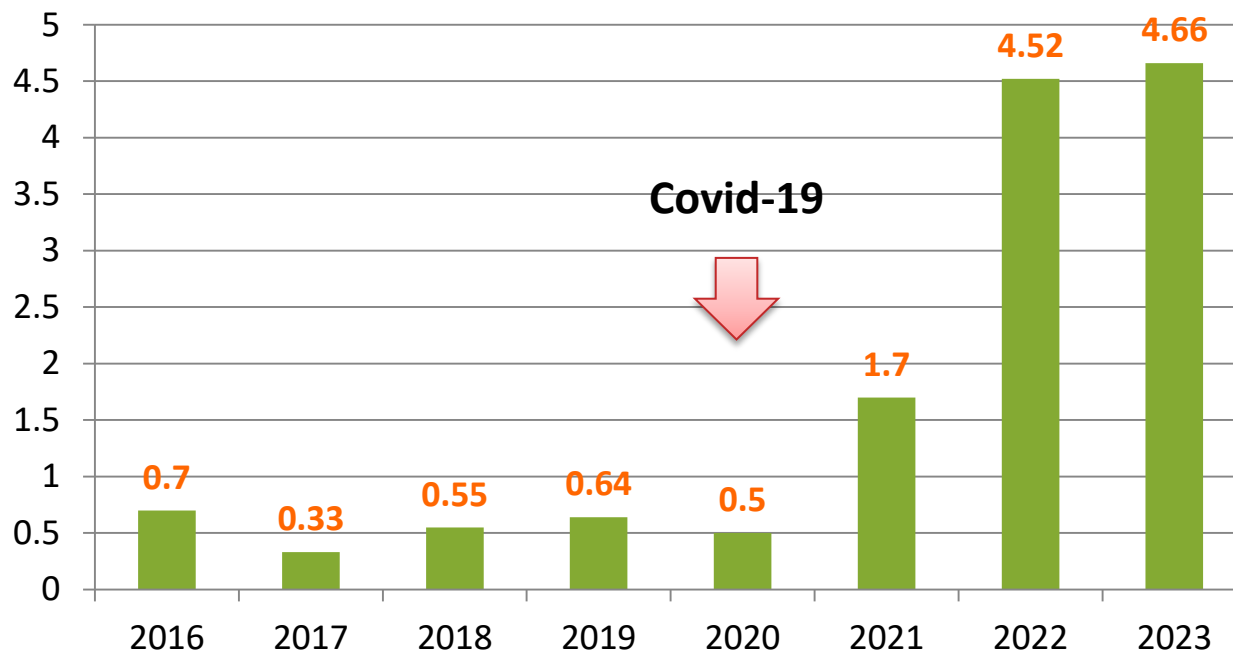
Gross Margin Improves Through Product Mix Enhancement and Cost Control

Consolidated

in NT\$ thousand



Earning per share by years

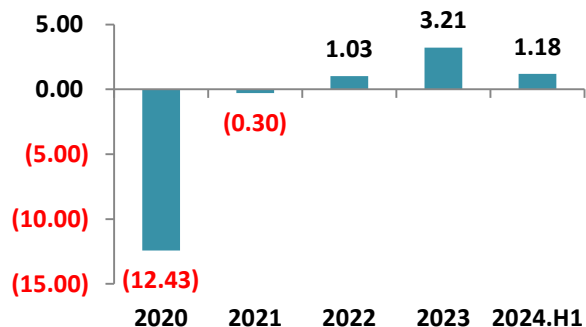


Earning per share in 2023 reached historically high

Performance VS peers

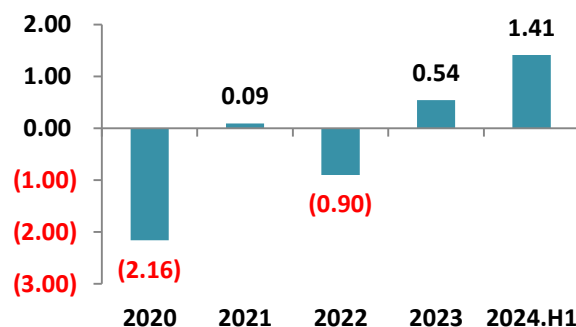
ATI

Unit : USD



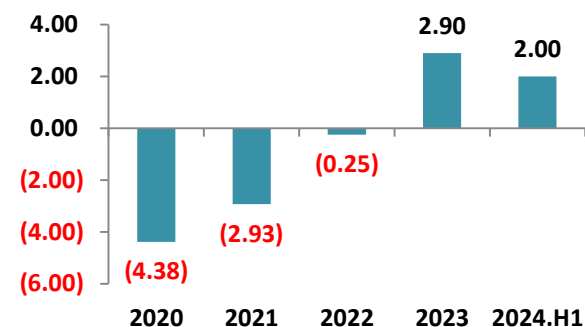
Universal

Unit : USD



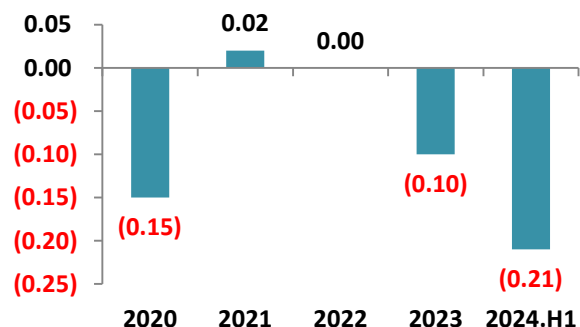
Carpenter

Unit : USD



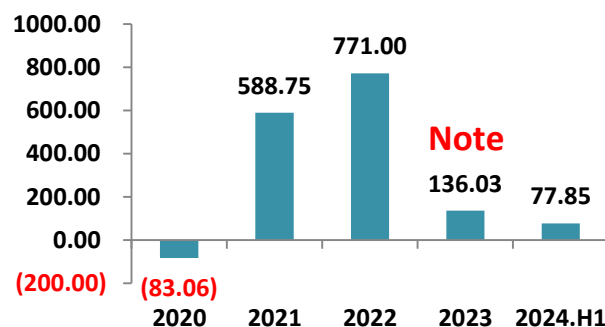
Swiss Steel

Unit : Eur



Daido Steel

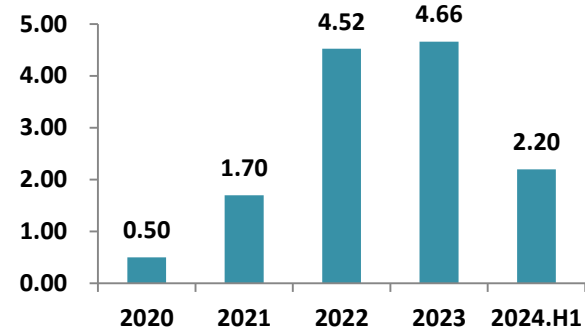
Unit : JPY



Note: The stock split carried out on January 1, 2024 at the ratio of 1 common share to 5 shares.

GMTC

Unit : TWD



Our operational performance is on par with industry peers in the United States, Europe and Japan

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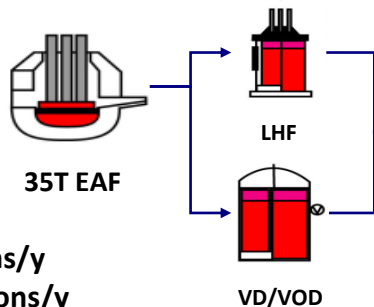
04 Growth of GMTC

05 Future Development



Reposition of the Production Plants

Plant Hsinying



Crude steel
120,000 tons/y
→ 150,000 tons/y

Improvement



Continuous casting

1. Use continuous casting to produce billet to replace the existing process to produce small sized bar
2. Extend to Wire rod and coil combined with E-Sheng Steel

Billet

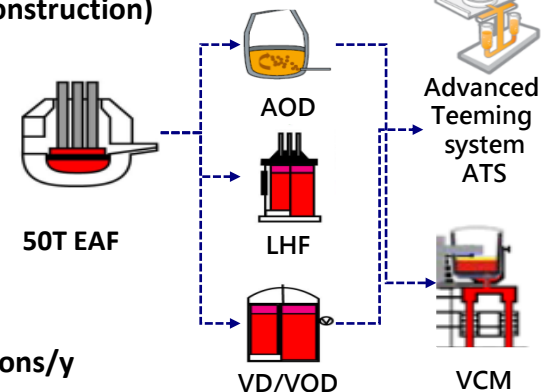
Position

Small-sized steel bar

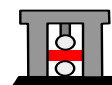
1. Adopt the continuous casting process to increase the yield and shorten the production cycle time
2. Increase commercial alloy-steel sales with the benefit of large-scale production

New 50T melting shop
(under construction)

Plant Liuying



Crude steel
0 tons/y
→ 240,000 tons/y



Break down Mill BDM

Increase rolling stands of BDM to produce Mid-to-large sized bar

Mid-to large-sized Rolled bar



Hydraulic Press

Large sized forged bar

Mid to large-sized steel bar

1. Renovate the BDM to improve the competitive advantage of the manufacturing process
2. Increase the size of forged bars to enter the markets of large modules, die-casting molds, and specialty forgings

Functional products (ESR/VAR)

Enhance the competitive advantage by integrating VCM with existing ESR/VAR secondary remelting equipment

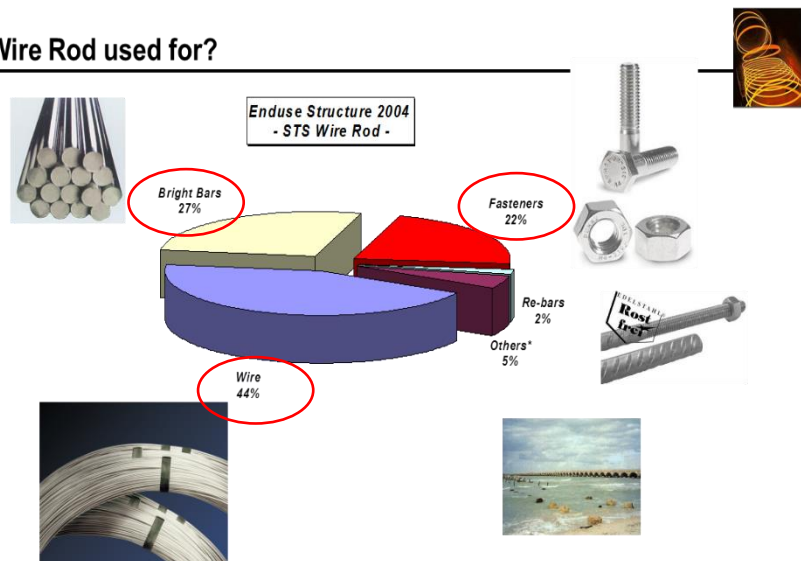
Establish dedicated production line for long product of specialty steel

New continuous casting in Hsinying plant to increase commercial alloy steel sales with economies of scale

The commissioning of the new continuous casting line will not only meet the previous demand for outsourced steel billet, but also plans to connect with E-Sheng Steel (Guantian Plant), a Taiwan Steel Group enterprise, to jointly produce bars and wire rod. The figure below shows the picture of the commercial market. The market size of stainless steel wire rod is approximately 4.05 million tons/year (in 2020), and the market size of high-strength low alloy steel long products is approximately 34 million tons/year (estimated).

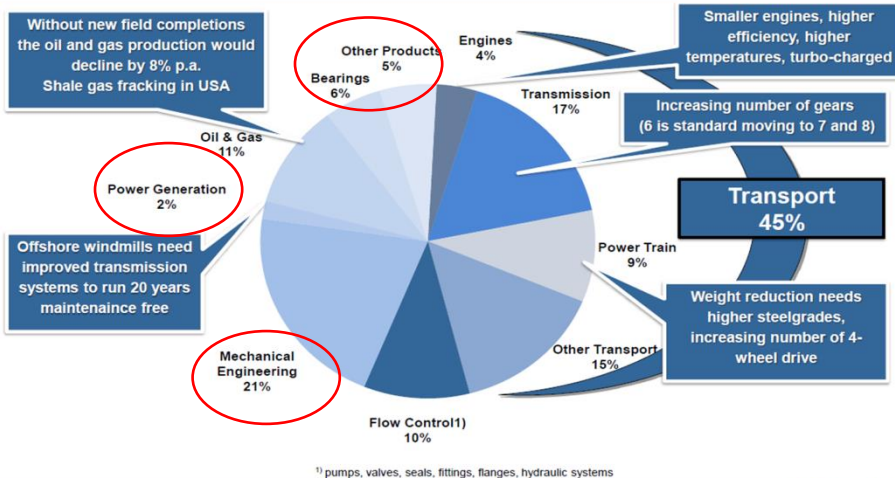
Focused on existing market for Stainless steel wire rod

What is Wire Rod used for?

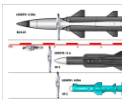


Focused markets for low alloy steel long products

Global Alloy Engineering Steel Market Drivers by End Use Segment approx. 45 % used in Transportation

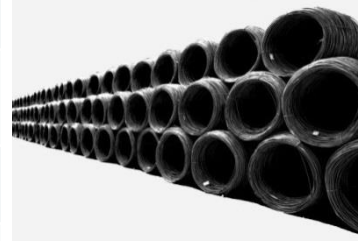
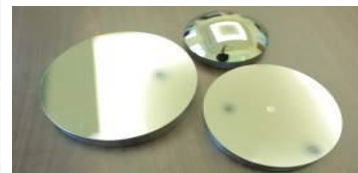


Growth Engines for the Company

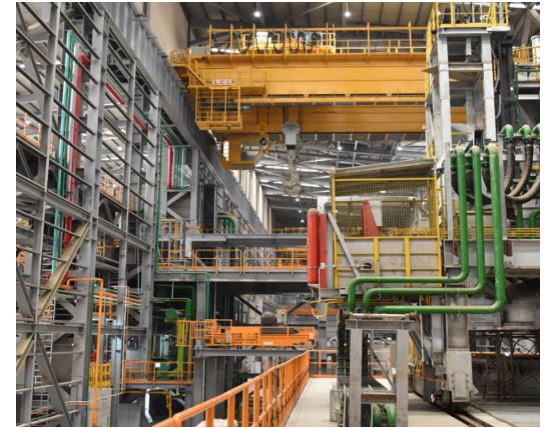
Product	<u>Tool Steel</u>	<u>Functional Product</u>	<u>Commercial Alloy Steel</u>	
Application	<u>High-end tool steel</u> Die-casting mold  Forging die 	<u>For dedicated application (+ESR或VAR)</u> Turbine 	<u>3/4/6 series and Duplex stainless steel</u> Pump mandrel  Surgical tools  Screw 	
	<u>Hot work tool steel</u> Roller  Mandrel bar  Extrusion die 	<u>Energy</u> Landing gear  Actuator  Engine 	<u>Low alloy steel</u> Ball screw  Screw 	<u>Bearing steel</u> Bearing 
	<u>Cold work tool steel</u> Roller  Punch  Cold roll 	<u>Aerospace</u> Offshore equipment  Oil/gas transportation 	<u>Carbon Steel</u> Coil  Hand tool  Screw 	
	<u>Plastic mold steel</u> Plastic injection, optics, car light 	<u>High speed steel</u> Cutting tool  Drill 	<u>O&G</u> Fighter landing gear  Missile shell  Torsion bar  Gun barrel  Gun tubing 	<u>Defense</u>
Type	H11、H12、H13、H13(ESR/VAR)、H21、A2、D2、D3、S5、S7、O1、P20、P21、P21+Ni、M2、M35、M42...等	Remelting grade 420MP、GTD450、403CbPlus、13-8Mo、15-5PH、17-4PH、630、3XX、4XX、300M、DA6C、M152、M50、A-286、Fe-based Superalloy...etc	303、304L、316L、310、317、321、347、904、2205、410、416、431、440B、440C、630、XM19、XM25、4150、4340、S50C、SS400...,etc.	

Meet various needs for full size and all grades 台鋼集團

Grade	Size range	Industry application (ex)
3xx Stainless steel	$5.5 \leq \Phi \leq 1200$	tube body, valve body, valve ball for semiconductor
4xx Stainless steel	$5.5 \leq \Phi \leq 1200$	Engine blades, plastic molds, mandrels
6xx Stainless steel	$5.5 \leq \Phi \leq 1200$	Motor spindle, screw, surgical Instruments, ship shaft
Hot work tool steel	$5.5 \leq \Phi \leq 1200$	Roller, mandrel, die for extrusion, die-casting, and forging
Cold work tool steel	$5.5 \leq \Phi \leq 1200$	Rollers, punches, cold rolls
Plastic mold steel	$5.5 \leq \Phi \leq 1200$	Plastic injection, optics, car lighting
High speed steel	$5.5 \leq \Phi \leq 230$	Tools, drill bits, circular saw blades
Low alloy steel	$5.5 \leq \Phi \leq 1200$	Ball screws, screws and nuts, tank torque, aerospace components
Bearing steel	$5.5 \leq \Phi \leq 1200$	Bearing
Carbon steel	$5.5 \leq \Phi \leq 1200$	Coil, screws and nuts, hand tools, mold bases



50t melting shop (under construction)



Concluding Remarks

Business Development & Strategy

- Maximize the business opportunities of the three major product groups, which include **Alloy Tool Steel, Functional Product, and commercial alloy-steel, to deliver steady growth** for the Company
- **Rank worldwide no. 1** in the 630 functional stainless steel; continue to expand the business to the industries that require certification, such as aerospace, energy, and oil and gas, to build the entry barrier
- **Rank No.1 tool steel player in Asia**, strengthen sales channel and promote standardized spec to enlarge sales of tool steel
- For **Military Industrial Segment**, fully support defense localization with the mission to provide a stable and fundamental defenses for the country. The company aims to become the key contributor of the military industrial industry and lay the foundation of an invisible mountain that protects the country

Production

- Reposition and redesign the production flow for Plant Hsinying and Plant Liuying
- Enhance the competitiveness of a wide range of products and reduce production cost by specialization and large-scale production

Equipment

- Build a new generation of 50-ton intelligent alloy refining system and expand the scale of production to increase the market share of existing products
- Optimize the existing equipment and invest in new generation equipment to enhance production efficiency and quality
- With the increase in orders for special functional products such as aerospace, we plan to expand the production capacity of secondary refining equipment like VAR in the future.

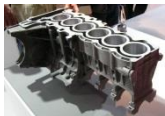
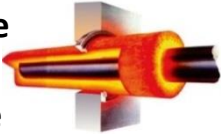
Corporate Governance

- Strengthen board function to protect the rights and interests of shareholders
- Align with the concept of green manufacturing by improving the manufacturing process to save energy and reduce carbon emissions to minimize environmental compact

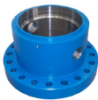
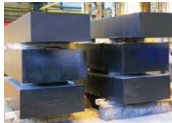
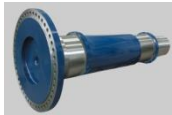


Thank you for listening

Application for Alloy tool steel

Grade	Application					Industry
Hot work tool steel	Roller 	Mandrel bar 	Extrusion die 	Forging die 	Die-casting mold 	Transport(49%) 
Cold work tool steel	Roller 	Punch 	Cold roll 	Cutter 	Building(6%)  Aluminum windows	
Plastic mold Steel	Plastic injection, car light, optics   					Industry(21%) Tube and pipe 
High speed steel	Tool 	Drill 				Consumer(18%) lens 、 glass bottle 、 plastic bottle, etc other(6%)

Aim for Large-sized Forging Market

Open die forging market size (thousand tons)		Current capability	Targeted Large-sized forgoing markets (Width > 1,200mm)	
Nickel base alloy	56	200mm		Well-head assembly
Alloy tool steel	840	650mm		NADCA grade large-sized (Width>1000mm) steels for automotive die casting mold
Stainless steel	910	600mm		Turbine shaft, ring
Alloy steel	1,960	650mm		>5MW Wind Shaft, ring
HSLA steel				Block for Frac pump
Carbon steel	1,134			
Total	4,900			

Source : SMR, sorted by GMTC