

Business Strategy of the Specialty Steel Company

Hitachi Metals IR Day 2017

May 31, 2017 Hitachi Metals, Ltd.

Koji Sato

Executive Officer
President of the Specialty Steel Company

Business Strategy of the Specialty Steel Company

[Table of Contents]

- 1. Message
- 2. Business Overview
- 3. Action Plan
- 4. Conclusion

1. Message



OUR HERITAGE, YOUR ADVANTAGE YASUGI SPECIALTY STEEL

Hitachi Metals

- "Transform changes into opportunities"
- Collaboration between steel and copper
 - Achieve further growth by incorporating SH Copper Products —
- Strengthen *monozukuri* + business activities(sales capabilities)
- Large-scale capital expenditure



Business Strategy of the Specialty Steel Company

[Table of Contents]

- 1. Message
- 2. Business Overview
- 3. Action Plan
- 4. Conclusion

2-1. Business Composition



Top manufacturer in Japan with No. 1 share in numerous products

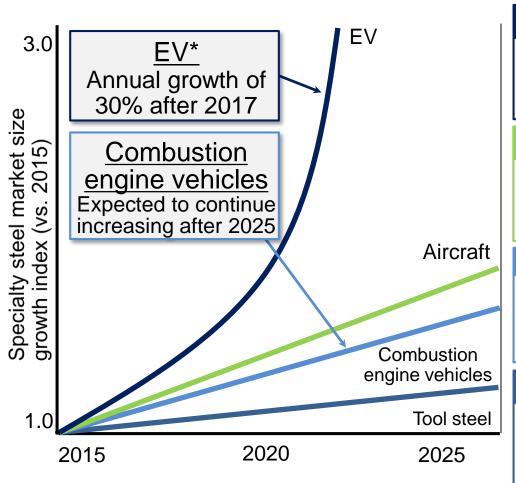


2-2. Market Environment



Increase in demand for energy-effcient products

—due to introduction of stricter environmental regulations and demand for environmentally-friendly products



V EV components Battery components

High frequency compliant materials

Aircraft and energy





Large forged components

- Aircraft engine components
- Turbine blades and others

Combustion engine vehicles





CVT belt materials
Piston ring
materials
Turbine wheels
and others

Tool steel





Hot working tool steel Cold working tool steel New steel type (SLD-iTM)

Source: Hitachi Metals' estimate based on various research materials

2-3. FY2018 Medium-term Management Plan: **Basic Policy and Growth Strategy**



Basic policy and growth strategy of the Specialty Steel Company Achieve growth internationally

by focusing on "special steel"

Monozukuri: Conduct "eye-opening" manufacturing Sales abilities: Further enhance the strength

Reap the benefits of major investments Strengthen international locations

■ FY2018 Medium-term Management Plan: Goals

	FY2016
Revenues	¥234.7 bn
Adjusted operating income	¥23.5 bn
Adjusted operating margin	10.0%
A percentage of overseas revenues to total revenues	41%

Change vs. FY2016
136%
+ ¥14.5 bn
+1.9%
+1%

^{*}Figures include the impact of the transfer of SH Copper Products Co., Ltd.



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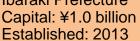
[Table of Contents]

- 1. Message
- 2. Business Overview
- 3. Action Plan
- 4. Conclusion

3-1. Collaboration between Steel and Copper (1) Materials Mag!c

Cable Materials Company

Location: Ibaraki Prefecture Capital: ¥1.0 billion



No. of employees: Approx. 500 Business: Manufacture and sale of copper products and processed copper products for copper strips and electrical use



SH Copper Products

- Jul. 1, 2017 Reorganzation: the Cable Materials Company to the Specialty Steel Company
- Oct. 1, 2017 Sales integration
- Apr. 1, 2018 Company integration with Hitachi Metals Neomaterial, Ltd.

3-2. Collaboration between Steel and Copper (2) Materials Mag!c

Contribute to customers' improvement —in trust in products and adding value

Tsuchiura Works*

Hitachi Metals Neomaterial



Clad band technology Copper product manufacturing technology



Synergies in the electronic and battery areas

- Unify contacts for customers
- Share technical know-how

Cooperation in developing next-generation products



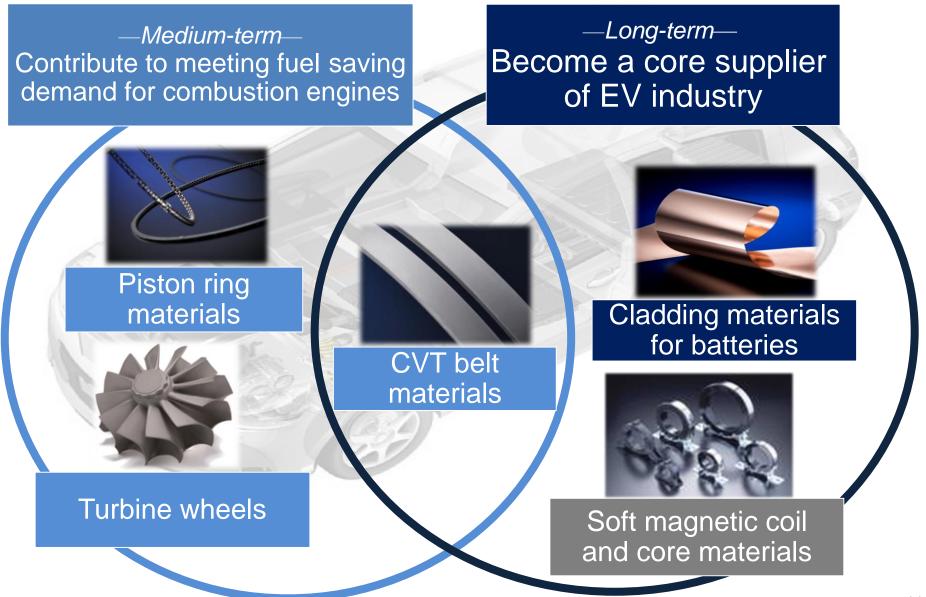
Wide-width rolling technology

Hitachi Metals Yasugi Works

*SH Copper Products Co., Ltd. is scheduled to become Tsuchiura Works of Hitachi Metals Neomaterial, Ltd. in April 2018.

3-3. Initiatives for the Automotive Industry





3-4. Become a Core Supplier to the EV Industry (1)



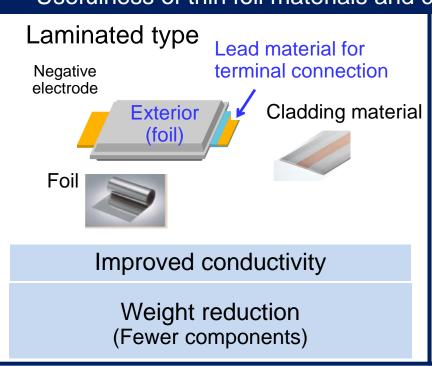
Infiltration of the battery components market

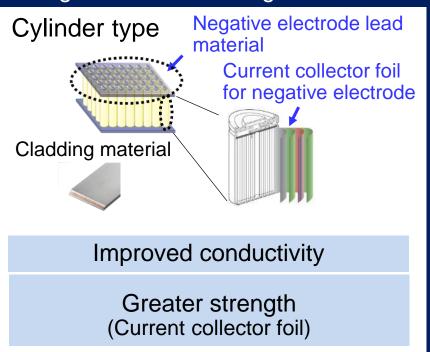
Expansion of EV market (Expected annual growth of 30%)



Deployment of thin foil, high strength cladding products

Usefulness of thin foil materials and cladding materials in storage batteries





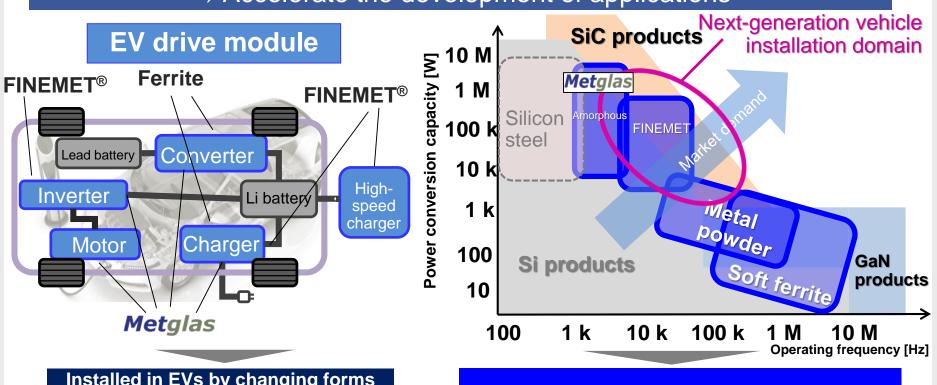
FY2020 sales goal for the cladding material-related business: Trippling the sales* (vs. FY2016)

3-5. Become a Core Supplier to the EV Industry (2)



■ Soft magnetic components and materials: New product launch

Consolidate the materials and components businesses (FY2016) Accelerate the development of applications



Installed in EVs by changing forms (e.g. transformers, choke coils, and core materials)

Fits perfectly to next-generation demand

FY2018 sales goal for soft magnetic components and materials: +28% (vs. FY2016)

3-6. Contribute to Meeting Demand for Fuel Saving in Combustion Engines (1)



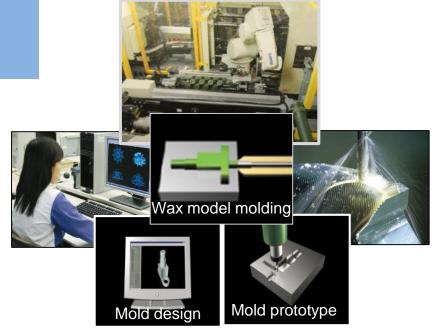


Turbine wheels

 Investment for production increase at Hitachi Metals Precision

No. of vehicles (million) 80 Gasoline cars 20 Diesel cars 16 '17 '18 '19 '20 '21 '22 '23 '24 Source: Hitachi Metals' estimate based on various research materials

Expansion + facility expansion/ strengthening Production capacity 1.5 times (2020)



Mold design technology + short delivery prototype process
Improved customer satisfaction

Achieve further growth as the industry's top supplier

3-7. Contribute to Meeting Demand for Fuel Saving in Combustion Engines (2)





Piston ring materials

High quality materials

- Atypia extraction technology
- Microstructure control
- Our original steel type



Production increase in Japan and China

- Suzhou plant, China (Operation in 2H FY2017)
- Specialty cable & wire plant, Yasugi Works (Operation in 2H FY2018)



CVT belt materials

High quality materials

Inclusion control technology



Won the "Patent Office Commissioner Prize" of the FY2016 Nat'l Invention Award

Sales expansion

- Yasugi Works
 24-ton vacuum induction melting and casting furnace (VIM)
- Accelerate acquisition of certification
- Cultivate new customers

FY2018 sales goal for industrial equipment materials: +17% (vs. FY2016)

3-8. Tool Steel: Progress of Global Sales Expansion



Brand penetration

Promotion of solutions (Strengthen sales, bases, processing)

Reinforce local human resources

Strategic Products, "SLD-i™"

Sales expansion

"increase added value"

"Strengthen distribution →quick delivery"

Europe Strengthen distribution



Americas

Concentrate on Diehl Tool Steel to expand sales in the Americas market

China

Strengthen sales structure



Asia

Increase and strengthen processing locations

Further enhance strength

Solution Sales

—From sale of materials to provision of solutions—

Wholly offering of materials, processing, heat treatment, and surface treatment

2016

2017

2018-

(Thailand) Inventory/processing center

(S. Korea) Surface treatment

(U.S.) Processing ability

(Taiwan) Surface treatment

(China) Heat treatment plant



FY2018 sales goal: +25% (vs. FY2016)

3-9. Aircraft- and Energy-Related Materials: Challenge the World's Top Three



Challenge the world's top three aircraft forging materials manufacturers, and establish a position as the fourth core

2010 2015 2020 ▼10,000-ton free forge press ▼24-ton VIM Hitachi Metals ▼High-speed radial forging machine **▼**Large VAR Yasugi Works Generate synergy between Japan Aeroforge ▼50,000-ton die forging press three ▼Made a consolidated subsidiary firms Hitachi Metals MMC Superalloy ▼840-ton ring mill



▼Initiatives in 2017

 Shifting from "acquisition of certification" to "mass production" stage: Aircraft engine large disk case

R&D



Development of new Super Heatresistant Alloys

Metallurgical Research Laboratory in Yasugi



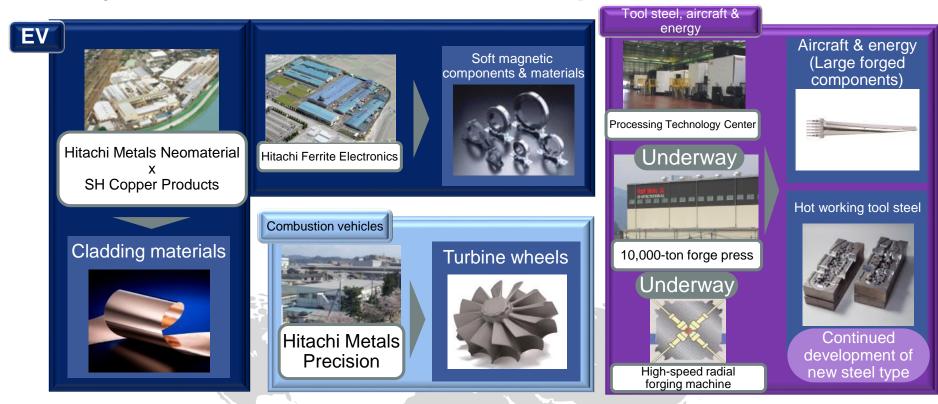
FY2025 sales goal: ¥60.0 billion

3-10. Strategic Investment Plans



Investment amount: ¥60.0 billion (cumulative total for FY2016–FY2018)

[1] Key investments in sources of competitiveness



[2] Strengthen the network for expanding international sales

Secure distribution location in Europe

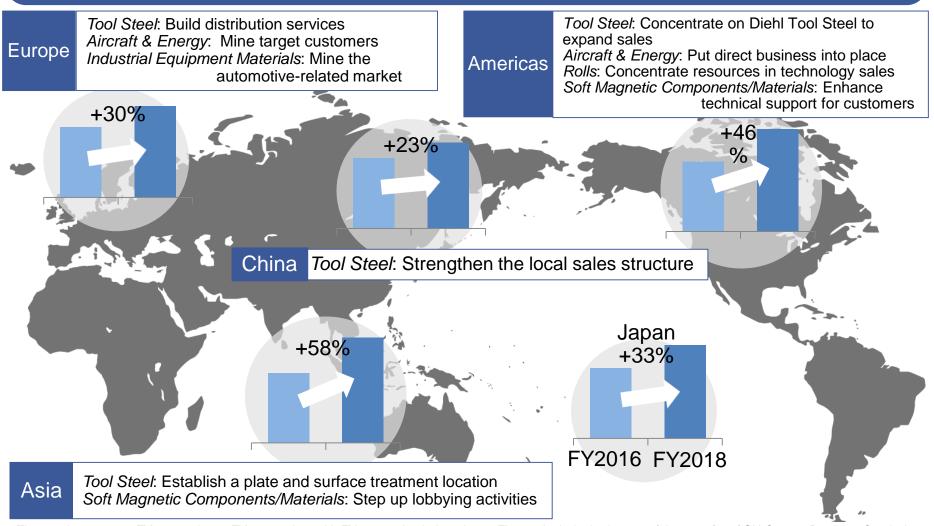


Expand and strengthen processing locations in the U.S. and Asia

3-11. Global Growth



Percentage of overseas total revenues: 41% (FY2016) ⇒ 42% (FY2018)



Business Strategy of the Specialty Steel Company

[Table of Contents]

- 1. Message
- 2. Business Overview
- 3. Action Plan
- 4. Conclusion

4. Conclusion



Achieve international growth by focusing on "special steel"

Specialty Steel Company FY2018 Plan*

Revenues: ¥320.0 billion

Adjusted operating income: ¥38.0 billion (11.9%)

Information on Risks Inherent in Future Projections



This document contains forward-looking statements—such as results forecasts and management plans—that are not historical facts. All such forward-looking statements are based upon all available information and upon assumptions and projections that were deemed reasonable at the time the Company prepared this document. Changes to the underlying assumptions or circumstances could cause the actual results to differ substantially. The factors causing such differences include, but are not limited to, the following:

- Changes in economic conditions and regulations in the main markets where the Company operates, particularly Japan, the United States, Asia and Europe
- Sudden changes in technological trends
- Changes in competitive advantage and the capabilities of the Company and its subsidiaries and affiliates to develop and commercialize new products and businesses
- Fluctuations in the status of product markets, exchange rates and international commodity markets
- Changes in financing environment
- The capability of the Company and its subsidiaries and affiliates to cope with fluctuations in product supply and demand, the status of product markets, exchange rates and international commodity markets
- Protection of the Company's intellectual property, and securing of licenses to use the intellectual property of other parties
- Changes in the status of alliances with other parties for product development, etc.
- Fluctuations in Japanese stock markets

