

Hitachi Metals IR Day 2016

June 3, 2016 Hitachi Metals, Ltd.

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1-1. Business Domains of the Cable Materials Company



Core competencies in cable materials



Conductors Connectors

Polymers

Industrial infrastructure

Contribute to building safe, highly efficient infrastructure



Wires and cables for rolling stock

Electronics

Contribute to making devices smaller and more convenient



Wires and cables for medical devices,

Automotive

Contribute to building a safe, secure automobile-based society



EPB harnesses

1-2. Cable Materials Company: Business Overview



Aim for expansion in the cornerstone segments of rolling stock, medical, and automotive electronic components

Core Products

Main product groups:

- Wires/cables for construction
- Wires/cables for electronics
- Magnet wires
- Industrial rubber













Growth Areas

Main product groups:

- Wires/cables for rolling stock
- Wires/cables for medical devices
- Automotive electronic components



Wires,
Cables &
Related Products:

FY2015 Revenues: ¥288.2 bn

Information Systems, etc.

Ethernet switches, etc.



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2. Market Environment



High-speed railway	Various countries around the world have plans to build high-speed railways. Average annual growth of around 3% is projected over the next 20 years.
Medical devices	Average annual growth of 5% is projected as a result of the aging of society and increasing sophistication of medical devices.
Automotive	The need for materials and technologies that will enable lighter weight vehicles and improve fuel efficiency is expanding.

		2010	2015	2020	
High-speed railway plans		• China CF	RH • UK IEP	• Southern U.S. • Western India	estern U.S.
Medical devices			 High-resolution diag Increasing sophistic of treatment and diag 	ation • Medical resuscitati	on
Automotive	CO ₂ emissions regulations	European regulat	ions • 130 g/km	• 95 g/km	
	Standards for measuring fuel efficiency	Individual standards	(JC08/NEDC, etc.) To	ward a common global standar	d (WLTC)
Demand for wires, cables, and related	Wires/cables for rolling stock	Meet EN standard	ds • Thinner non-haloger	cables • Ultra-light cables	
	Wires/cables for medical devices		oles/wires with high conduct igh tensile strength • High-density (Micro-c	vity • Multi-functional cathe paxial and optical cable)	ters
products	Automotive electronic components		 Lighter weight (aluminum cond 	 For high heat resistar luctors) (in the area surroundir engine) 	

Source: Hitachi Metals projections based on data published by regulatory authorities in various countries and regions, and data from various market surveys

CRH: China Railway High-speed, IEP: Intercity Express Programme,

NEDC: New European Driving Cycle, WLTC: Worldwide harmonized Light duty driving Test Cycle

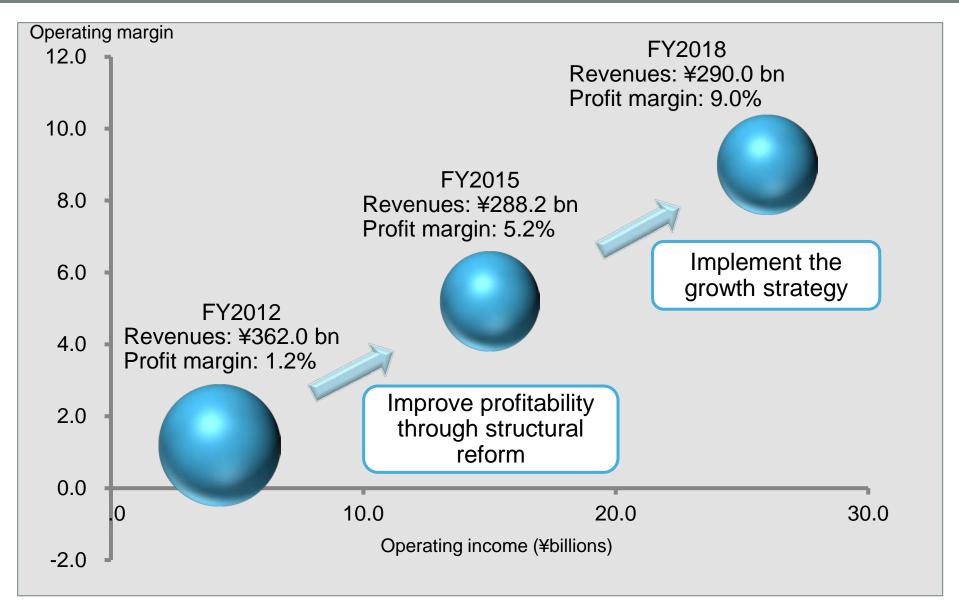


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3-1. Improvement in Profitability Achieved and Plan (FY2012 ⇒ FY2018)





^{*} FY2012: Japanese GAAP; FY2015 and FY2018: IFRS standard

* Circle size: Size of revenues

3-2. Basic Policy and Growth Strategy of the Company



Basic Policy and Growth Strategy of the Cable Materials Company

Reform to aim for high profitability: Let's achieve true global growth!

- Implement a global growth strategy
- Strengthen the profit structure by restructuring the business portfolio
- Strengthen monozukuri through innovations in manufacturing processes

■ FY2018 Medium-Term Management Plan: Goals

	FY2015 Actual (¥120 = US\$1)	FY2018 Goal (¥115 = US\$1)	Change vs. FY2015
Revenues	¥288.2 bn	¥290.0 bn	101%
Adjusted operating income	¥15.0 bn	¥26.0 bn	+ ¥11.0 bn
Adjusted operating margin	5.2%	9.0%	+3.8%
Overseas sales as a % of total sales	32%	38%	+6%

3-3. Cable Materials Company: Action Plan



■ Main Action Plan

	Rolling Stock	Expand business in the Chinese and European markets		
Growth Areas	Medical Devices	Enter new areas of medical treatment and expand business domains		
	Automotive Electronic Components	Strengthen the global production and supply structure		
Core Products		Enhance competitiveness through innovation in manufacturing processes		
		Take decisive action to achieve structural reform		

3-4. Rolling Stock:

Expand Business in the Chinese and European Markets (1) Materials Magle



Expand share in Chinese rolling stock manufacturers

China: 12th National People's Congress

■ 13th Five-Year Plan: (2016-2020)

Total railway investment: RMB3.8 trillion

High-speed railway:

Total length, 20,000 km \Rightarrow 30,000 km



Strengthen the solutions business

Increase production capacity in China



Launch new products



Helps to achieve thin, lightweight products with a long life span

3-5. Rolling Stock:

Expand Business in the Chinese and European Markets (2) Materials Magle



Strengthen the supply network for the European market



Establish new harness supply locations (1H of FY2016)

Start up location and develop a track record in UK IEP

Develop leads into European rolling stock manufacturers

Sales goal for the rolling stock sector: $\pm 9 \text{ billion (FY2015)} \Rightarrow \pm 14 \text{ billion (FY2018)}$

3-6. Medical Devices: Enter New Areas of Medical Treatment and Expand Business Domains



Generate synergies with HTP-Meds (U.S. subsidiary)

	Customer Base	Technology Base
Hitachi Metals	 Major global device manufacturer Japanese device manufacturer 	 Cabling technology and transmission technology Material development capabilities Mass production capability
HTP-Meds	 Global dedicated medical manufacturer U.S. dedicated medical manufacturer Possesses certifications and approvals in medical segment 	 Forming and processing technology for medical tubing Ability to develop products rapidly

Mine Customers in the Medical Segment Hitachi HTP-Meds

Big 3 Japanese medical customers

Metals

Acquire commercial rights for medical customers in Americas

New Product Development (Fusion of Diagnosis and Treatment)



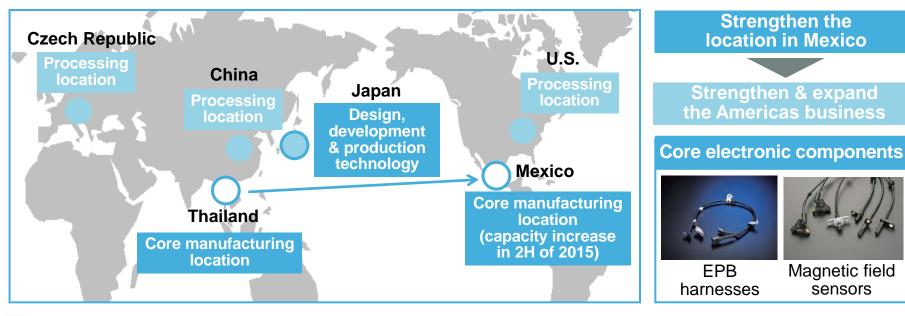


Sales goal for the medical devices segment: ¥7.5 billion (FY2015) ⇒ ¥11.0 billion (FY2018)

3-7. Automotive Electronic Components: Strengthen Global Locations and Supply Structure



■ Strengthen the supply structure in growth markets



Expand business domains by creating new products

Various kinds of development that meet the demand for fuel efficiency & safety

- EPB harnesses with multiple unspring sensor (integrate with WSS, etc.)
- New magnetic field sensors (for turbo, engine powertrain control, etc.)

Sales goal for automotive electronic components ¥28 billion (FY2015) ⇒ ¥34 billion (FY2018)

EPB: Electric Parking Brake WSS: Wheel Speed Sensor

3-8. Investment in Business Portfolio Restructuring



Investment Plan

Investment in growth

- Strengthen the railway segment, also keeping M&A in mind
- Increase the capacity of the manufacturing location in China in wires and cables for railway and medical uses
- Strengthen the location in Mexico in automotive electronic components

Strengthening the foundation

- Introduce an innovative manufacturing line for wire and cable (scheduled to come online in the 1H of FY2016)
- Introduce a new continuous casting and rolling line (scheduled to come online in April 2018)

Example 2.2016 Capital expenditures: **439** billion (cumulative total for FY2016-FY2018)

3-9. Introduce an Innovative Electric Wire and Cable Manufacturing Line



Diagram of the electric wire and cable manufacturing process

Wire drawing

Strand

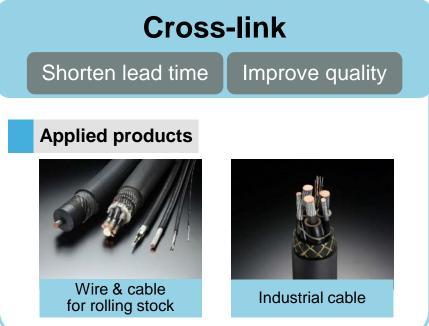
Extrusion (insulation coating)

Cabling

Braiding

Extrusion (sheath coating)





3-10. New Continuous Casting and Rolling Line



New Continuous Casting and Rolling Line

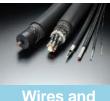
Improve energy efficiency and productivity

Introduce the new process

Improve product competitiveness







cables for rolling stock



Medical wires and cables



Magnet wires

Achieve mass production of the new copper alloy (HiFC™)

Flexibility

Resistance to hydrogen embrittlement

Electrical conductivity

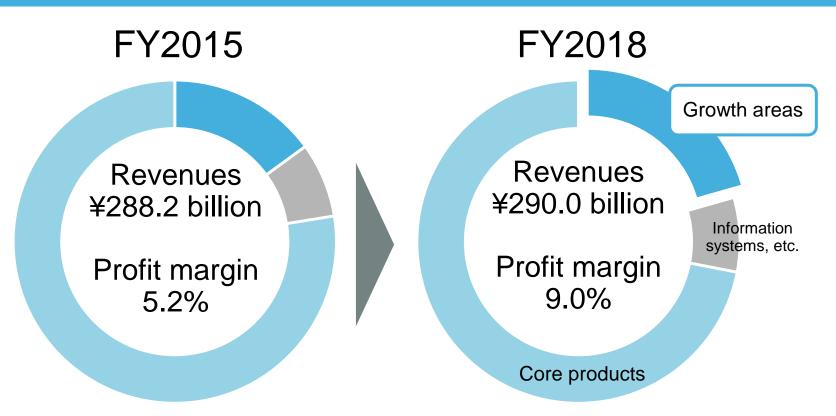
Weldability

Achieve a high-profit structure and develop high value-added products

3-11. Business Portfolio Restructuring (FY2018)





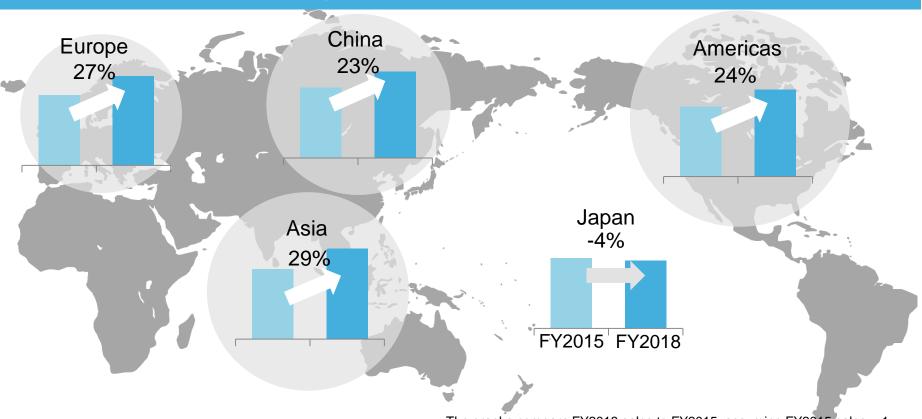


Develop one of the most profitable businesses in the world in wires, cables and related products

3-12. Trend in Sales by Region



Strive to expand in growth areas, concentrating on the Americas, China, and Asia



The graphs compare FY2018 sales to FY2015, assuming FY2015 sales = 1

Overseas sales as a % of total sales: 32% (FY2015) $\Rightarrow 38\%$ (FY2018)



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Reform to aim for high profitability: Let's achieve true global growth!

Cable Materials Company FY2018 Plan

Revenues: ¥290.0 bn

Adjusted operating income: ¥26.0 bn (9.0%)

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

