

Financial Results for the Fiscal Year Ended March 31, 2024 and Medium-Term Management Plan - Supplementary Materials

# / Fuji Die Co., Ltd.

## Contributing broadly to society through manufacturing



May 30, 2024

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## **Company Profile (As of May 2024)**

Trade name	Fuji Die Co., Ltd.		
Location	2-17-10, Shimomaruko, Ohta-ku, Tokyo		
Capital	164 million yen		
Representative	Yoshikazu Haruta, Representative Director and President		
Founded	June 1949		
Business activities	Manufacture and sale of wear-resistant tools and molds made of cemented carbide		
Consolidated subsidiaries	SHINWA DIE CO., LTD. FUJI SHAFT CO., LTD. FUJILLOY (THAILAND) CO., LTD. FUJI DIE TRADING (SHANGHAI) CO., LTD. PT. FUJILLOY INDONESIA FUJILLOY INDIA PRIVATE LIMITED FUJILLOY MALAYSIA SDN. BHD.		
Number of employees	1,106 (as of March 31, 2024; including employees of consolidated subsidiaries)		



## **Our Strengths**

<b>Top market share for carbide wear-resistant tools</b> Held the top share in the domestic carbide wear-resistant tool industry over a long period Specialize mainly in sales of high value-added products in high-mix low-volume, with stable sales prices	Over 30% industry share
Development capability - production engineering capability - sales capability are the source of competitiveness Direct sales system that can meet customers' individual needs in a customized manner Solid and proven track record with many customers in a wide range of industries Integrated production system from design to base powder preparation, sintering, machining, and product inspection	Approx. 3,000 customer companies
High-level R&D (technological) capability to support long-term growth New materials development technology to meet market needs by leveraging powder metallurgy technology Integration of manual technology with current technology through research on state-of- the-art equipment and optimization of manufacturing methods	Core technologies - Powder metallurgy technology - Ultra-precision processing technology



## **Business Activities - Product Categories**

Specialized in manufacture of tools and molds (wear-resistant tools) mainly made of cemented carbide





## Offices (As of March 31, 2024)

Japan	Overseas
★ Production sites	★ Production sites and sales offices 2 countries
and sales offices 5 locations	(Thailand and Indonesia)
■ Production sites 2 locations	★ Sales offices 3 countries
★ Sales offices 5 locations	(China, Malaysia, and India)
Shinwa Die Co., Ltd. Sales Office Okayama Manufacturing Plant Kitakyushu Sales Office Wanufacturing Plant Kitakyushu Sales Office Manufacturing Plant Kitakyushu Manufacturing Plant Kitakyushu Manufacturing Plant Magoya Plant Magoya Plant Magoya Plant Magoya Sales Office	ffice

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## **Latest TOPICS**

## Strengthening Business Activities in Malaysia and Neighboring Countries

- On April 1, 2024, Fujilloy Malaysia (FUJILLOY MALAYSIA SDN. BHD.), a local subsidiary in Malaysia, transitioned our central location for business activities from the existing Penang Office to the Kuala Lumpur Office in an aim to expand the scope of activities.
- While the Penang Office has engaged in business activities mainly involving customers related to semiconductors, we are strengthening sales initiatives at the Kuala Lumpur Office in aiming to capture new customers related to EVs, etc.
- We will continue business activities at the Penang Office as previously and expand business activities in Malaysia as well as neighboring countries through two locations with the addition of the Kuala Lumpur Office as we seek to increase orders of products for next-generation vehicles such as rechargeable batteries and motor cores.



Exterior of the building in which the Kuala Lumpur Office of Fujilloy Malaysia is located; and office entrance





## Summary of Business Results for the Fiscal Year Ended March 31, 2024



## Consolidated net sales 16,678 million yen (down 2.9% year on year) Consolidated operating profit 809 million yen (down 29.7% year on year)

Net sales decreased year on year

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Profits dropped due to a decrease in net sales and a one-time increase in expenses associated with the construction of the metallurgy building in the Kumamoto Manufacturing Plant

Net sales	Increase factors	<ul> <li>Increased demand for grooving rolls for overseas markets and dies and plugs for steel pipes</li> <li>Increased demand for motor core molds</li> <li>Increased demand for semiconductor production equipment</li> <li>Revised prices due to soaring costs of raw materials, power, fuel, etc.</li> </ul>
	Decrease factors	<ul> <li>Decreased demand due to economic slowdown in China</li> <li>Decreased demand due to delay in recovery of molds for automotive parts</li> <li>Decrease in demand for rechargeable battery molds and drawn steel pipes</li> </ul>
Profits	Increase factors	<ul> <li>Measures to improve productivity and operational efficiency yielded some results</li> <li>Revised prices due to soaring costs of raw materials, power, fuel, etc.</li> </ul>
	Decrease factors	<ul> <li>Decreased profits due to decreased consolidated net sales</li> <li>Temporary increase in expenses due to the construction of the metallurgy building in the Kumamoto Manufacturing Plant</li> </ul>

# Summary of Consolidated Financial Results for the Fiscal Year Ended March 31, 2024

(Million yen)	FYE2023 results	FYE2024 results	Year-on-year change rate	FYE2024 results forecast	Results forecast progress rate
Net sales	17,179	16,678	(2.9)%	17,800	93.7%
Operating profit	1,150	809	(29.7)%	1,170	69.2%
[Operating profit margin]	[6.7%]	[4.9%]	[(1.8)%]		
Ordinary profit	1,225	882	(28.0)%	1,230	71.7%
[Ordinary profit margin]	[7.1%]	[5.3%]	[(1.8)%]		
Profit attributable to owners of parent	1,292	709	* (45.1)%		79.7%
[Profit margin]	[7.5%]	[4.3%]	[(3.2)%]		
Basic earnings per share	65.19 yen	35.72 yen	(45.2)%	44.87 yen	_
Equity ratio	77.7%	79.0%			

\*Rebound from gain on the transfer of non-current assets (land) posted in the previous fiscal year

(Amounts rounded down to the nearest million yen)



## Consolidated Operating Profit for the Fiscal Year Ended March 31, 2024 - Factors of Increase/Decrease (Y-o-Y)

#### Despite the effects of measures to improve productivity and operational efficiency, Operating profits decreased due to lower net sales and a one-time increase in expenses profit associated with the construction of the metallurgy building in the Kumamoto **Manufacturing Plant**



# **Consolidated Operating Profit for the Fiscal Year Ended March 31, 2024 - Factors of Increase/Decrease (Versus Forecast)**

## Operating profit: (361) million yen versus forecast



## Financial Status at the End of the Fiscal Year Ended March 31, **2024 - Consolidated Balance Sheets and Analysis of Changes**

- Current assets decreased 700 million yen due to decreases of 209 million yen in notes receivable-trade and 226 million ven in raw materials and supplies
- Non-current assets increased 585 million yen due to increases of 1,413 million yen in buildings and structures and 198 million yen in machinery, equipment and vehicles, net, despite a decrease of 1,172 million yen in construction in progress



## Fiscal Year Ended March 31, 2024 - Statements of Cash Flows

**Operating CF: Profit before income taxes [995 million yen]** 

• Depreciation [988 million yen]

Investing CF: Purchase of property, plant and equipment [(1,718) million yen] Financing CF: Dividends paid [(634) million yen]

(Million yen)	Results for the fiscal year ended March 31, 2023	Results for the fiscal year ended March 31, 2024	Increase/ decrease
CF from operating activities	775	2,050	1,275
CF from investing activities	(712)	(1,656)	(944)
Free CF	62	394	331
CF from financing activities	(453)	(651)	(198)

(Rounded down to the nearest million yen)



## **Shareholder Returns / Dividends for** the Fiscal Year Ended March 31, 2024

• 32 yen per share for the fiscal year ended March 31, 2024 (Ordinary dividend: 22 yen + commemorative dividend: 10 yen) [10 yen increase from the plan made at the beginning of the period]

## Pay a commemorative dividend of 10 yen per share to celebrate the 75th anniversary of our founding on June 6, 2024



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Annual

dividend

32 ven





## **Previous Medium-Term Management Plan -Overall Summary and Results of Priority Measures**

## The following is an overall summary of priority measures for the Medium-Term Management Plan for FYE2022 – FYE2024



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## **Review of Medium-Term Management Plan (FYE2022-FYE2024)** (Financial Results Indicators)

- Target figures were achieved for the fiscal years ended March 31, 2022 and March 31, 2023 and progress was made as planned.
- In the fiscal year ended March 31, 2024, sales of materials and molds were sluggish due to economic slowdown in China and inventory adjustment of the automotive parts manufacturers, etc., and procurement costs increased due to rising resource prices. As a result of these and other factors, each financial results indicator was lower than planned.

	FYE2022		FYE2023		FYE2024	
	Plan	Results	Plan	Results	Plan*	Results
Net sales	15.6 billion yen	16.8 billion yen	16.3 billion yen	17.1 billion yen	17.0 billion yen	16.6 billion yen
Operating profit	0.56 billion yen	1.11 billion yen	1.05 billion yen	1.15 billion yen	1.49 billion yen	0.81 billion yen
Ordinary profit margin	3.9%	7.1%	6.8%	7.1%	9.1%	5.3%
Ordinary profit	0.61 billion yen	1.20 billion yen	1.10 billion yen	1.23 billion yen	1.55 billion yen	0.88 billion yen
Profit	0.38 billion yen	0.79 billion yen	0.78 billion yen	1.29 billion yen	1.09 billion yen	0.71 billion yen
ROE	2.0%	4.1%	4.2%	6.5%	5.7%	3.5%

\*Planned figures as of announcement in June 2021



## **Business Environment Surrounding the Group and Challenges to be Addressed**

## **Business Environment**

## **Opportunities**

- Increasing demand to realize a sustainable society
  - Transition to a decarbonized society (including conversion to next-generation vehicles)
  - Conservation of natural environment (resources, biodiversity, etc.)
  - > Management of human capital
- Progression of DX technology, acceleration of social implementation

## Threats

- Falling population, demographic aging, and chronically slow growth in Japan
- Soaring resource prices and global inflation
- Increasing raw material procurement risks
- Increasing geopolitical risks

## **Challenges to be Addressed**

### Transforming the company structure to adapt business resilience

- Securing and developing talents
- Visualizing "changes" in customers
- Increasing productivity (Improving business efficiency)
- Effective utilization of sustainable resources
- Building a foundation for future growth (new products, materials, and technologies)
- Develop new markets (new fields / overseas)
- Management conscious of capital efficiency

## Medium-Term Management Plan 2026

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## **Concept for Medium-Term Management Plan 2026**



growth), overseas business will be a growth driver, and new businesses will be realized for building a foundation for future growth



## Medium-Term Management Plan 2026: Priority Measure (1) Strengthen the Management Foundation

Raise organizational capability and expedite business judgement based on sustainability management and DX

- Promote sustainability management (contribute to solving environmental and social issues, strengthen investment in human capital, improve governance)
- · Corporate branding for spreading external brand image and strengthening inner branding
- Strengthen IT utilization and other business activities to promote "visualizing information in every form" and "strengthening contact points with customers"
- Promote digitalization and enhance decision-making based on data



## Medium-Term Management Plan 2026: Priority Measure (1) Strengthen the Management Foundation Initiatives for Sustainability

We have identified 10 materialities to be prioritized in initiatives in accordance with our Basic Sustainability Policy and promoted activities towards the improvement of corporate value and development of a sustainable society

	Materialities	Indicators	Specific activities	SGDs to be prioritized
п	Develop high value-added products and technology Initiatives for carbon neutrality	Number of market launches	Develop and propose products that contribute to zero carbon / recycling-based economy (products for next-generation vehicles, etc.)	3 GOOD HEALTH AND WELL-BEING
invi	Initiatives for carbon neutrality	Greenhouse gas emissions	Study introduction of energy-saving equipment, etc.	$\wedge$
5		-	Study utilization of renewable energy	-w/•
ronm		Recycle rate of carbide raw materials	Increase recycle rate of carbide raw materials	
ent	Initiatives for resource saving	Number of market launches	Develop markets for new rare metal-saving materials	GENDER
4	Initiatives for resource saving	Amounts of environmentally hazardous substances handled	Manage environmentally hazardous substances (chemical substances registered in PRTR)	5 GENDER EQUALITY
,	<	Recycle rate of waste	Reduce waste and improve recycle rate	
	Respect human rights	Total number and ratio of RMI <sup>*1</sup> certified smelters and refineries	Manage surveys of minerals from conflict-affected areas	Ŷ
		Number of training sessions conducted	Provide equal opportunities for human resource development regardless of nationality, etc. (develop self-reliant human resources)	7 AFFORDABLE AND CLEAN ENERGY
Socia	<u>1</u>	Number of work environment management category 1 offices	Conduct surveys to measure working conditions	
Š	Maintain work environment	Number of occupational injuries	Conduct safety training, risk assessments	
ocia		Rate of stress check tests conducted	Health management for employees	
		Rate of medical examinations conducted	(conduct stress check tests, health promotion programs, etc.)	8 DECENT WORK AND ECONDMIC GROWTH
	Improvement of work styles	Use rate of flex-time system	Improve internal systems to accommodate diverse lifestyles (flex-time system, etc.)	ECONUMIC BROWTH
	based on diversity	Ratio of female employees in management	Strengthen initiatives to promote active participation	
		Ratio of female employees of total new employees	by female employees	
	Ensure positive relations with employees	Days on which labor-management education is conducted	Share management philosophy, policies, etc. for labor-management through internal newsletter, etc.	12 RESPONSIBLE
	Strengthen governance	Number of themes reviewed by the Compliance Committee and Risk Management Committee	Improve compliance and risk management systems	
Gover	engthe	Number of themes reviewed by the Sustainability Committee	Promote sustainability management	
event corruption Governance	Strengthen crisis	Number of intellectual property education sessions conducted	Strengthen initiatives in accordance with the Basic Intellectual Property Policy (protect held patents, technologies, know-how, etc. and prevent leaks, etc.)	13 CLIMATE ACTION
ce Ce	management response	Number of patents acquired Number of information security education	Proceed with acquisition of domestic and international patents, legitimately exercise own rights and respect rights of other companies	
	Improvement of compliance system and education	sessions conducted Number of compliance education sessions conducted	Conduct information security education Conduct compliance education	

\*1 RMI (Responsible Minerals Initiative): International organization that works with companies to promote responsible sourcing of minerals from conflict-free areas, etc.

Assessed and certified by the RMAP (Responsible Minerals Assurance Process), the flagship program of the RMI



## Medium-Term Management Plan 2026: Priority Measure (2) Increasing Productivity and Improving Business Efficiency

Promote business efficiency improvement by automation, labor-saving, and DX in each department

- Restructure business activity systems at domestic sales departments
- Automation and labor-saving through robotization, etc. at domestic production departments
- Digitalization through core system innovation, introducing workflows, etc.
- Improve revenue from unprofitable products

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Automation and labor-saving through robotization, etc. at domestic production departments

	improvement activities then human capital)	Automation
FYE20	22-FYE2024	FYE2025-FYE2027
Efficiency improvement activities (strengthen human capital)	<ul> <li>through video content</li> <li>Digitalization of initiatives t</li> <li>Create structure to facilitate shorter period of time by pr</li> <li>Continued from the previous Medium</li> </ul>	-Term Management Plan entation from continued work analysis tions for machining automation
Automation	<ul> <li>Introduction of automated equ</li> <li>Draft automation scheme, automated equipment (hor deployment)</li> <li>Digitalization of educationa</li> <li>Digitalization of progress r</li> <li>Integrate tacit technical knows</li> </ul>	Al materials management

## Medium-Term Management Plan 2026: Priority Measure (3) Leaping Forward in Overseas Business

Aim to increase overseas sales through both overseas subsidiaries and direct exports from Japan In addition to expanding market share in Asia, promote the development of markets in North America/India

- Active development of products for next-generation vehicles
- Build customer base through active cooperation with trading companies and local machining manufacturers
- Strengthen activities including establishing offices in India and North America
- Increase productivity at overseas production sites

## <u>India</u>

Increasing orders mainly from automotive parts and iron and steel manufacturers

#### Response

Increase name recognition
 through utilization of trade shows
 Market currently being re examined to restart operations

### <u>China</u>

Decrease in orders from major electronic semiconductor-related manufacturers mainly due to slowdown in economic growth **Response** 

• Strengthen business activities at the office established in Dongguan

• Expand sales to EV-related manufacturers with potentially large demand

• Increase name recognition through utilization of trade shows

### Target overseas sales ratio for FYE Mar. 2027: 25% or more

## North America

Increased orders due to strong performance of certain customers

#### Response

• Strengthen new business activities to capture potential demand

- Increase name recognition through
- exhibiting at trade shows
- Currently conducting market research with a view to establishing a local subsidiary

## Fuji Die Trading: Sales offices (Shanghai/Dongguan)

**Fujilloy Thailand: Production** site/sales office

Fujilloy Malaysia: Sales offices (Penang/Kuala Lumpur)

Fujilloy Indonesia: Production site/sales office

#### Overseas Business Division

## <u>ASEAN</u>

Orders from major automotive parts and semiconductor-related parts and materials manufacturers are on a slight downward trend because of production adjustments and other factors

#### Response

• Explore and cultivate major automotive parts and semiconductorrelated manufacturers

- Develop markets for EV-related manufacturers and other unexplored sectors
- Enhance competitiveness and profitability by raising productivity at Thai and Indonesian plants
- Re-examine markets in Vietnam/Philippines

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## Medium-Term Management Plan 2026: Priority Measure (4) Contributing to a Zero Carbon / Recycling-Based Society

# Active development and launch of products contributing to the formation of a zero carbon / recycling-based society

- Expand product lineup of materials for motor core molds •
- Expand sales of tungsten- and cobalt-saving alloy
- Strengthen recycling of carbide tools and molds

- Develop catalyst products for hydrogen generation and  $CO_2$  reduction in the next-generation energy field
- Reduce greenhouse gas emissions



## Medium-Term Management Plan 2026: Priority Measure (5) Development of New Business

Aim toward reaching the status of a 100-year company, establish specialized organization for new business, and accelerate the commercialization of new business seeds



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## Medium-Term Management Plan 2026 -Consolidated Numerical Targets

## Consolidated numerical targets in the fiscal year ending March 31, 2027

Consolidated net sales 20.0 billion yen	Operating 2.0 bill yen	profit m ion 1( (Ordina	hary profit hargin <b>0.5%</b> hry profit: 2.1 ion yen)	ROE 7.0%
	FYE2024 results	FYE2025 results forecast	FYE2026 target	FYE2027 target
Net sales	16.67 billion yen	18.0 billion yen	19.0 billion yen	20.0 billion yen
Operating profit	0.80 billion yen	1.02 billion yen	1.50 billion yen	2.00 billion yen
Ordinary profit	0.88 billion yen	1.15 billion yen	1.60 billion yen	2.10 billion yen
Ordinary profit margin	5.3%	6.4%	8.4%	10.5%
Profit	0.70 billion yen	0.82 billion yen	1.15 billion yen	1.50 billion yen
ROE	3.5%	4.0%	5.5%	7.0%



## **Realization of Management Conscious of Capital Cost and Share Prices**

## 1. Current analysis and issues

- ► Our shareholders' equity cost is recognized as approximately 4.5-5.0% (calculated based on CAPM)
- ► Our current ROE is lower than our equity cost, and PBR is under 1x
- ► We consider the improvement of ROE and further enhancement of PER to be important issues



## **Target Indicators**

- ► Target ROE has been set to a level that exceeds shareholders' equity cost.
- For the duration of Medium-Term Management Plan 2026, the standard for dividends has been changed from the payout ratio to DOE (dividend on equity ratio), serving to provide stability and significantly strengthen shareholder returns.

Indicator	ndicator Target (FYE2027) FYE2	
ROE	<b>7.0</b> % or more	3.5%
PBR	1x or more	Approx. 0.66x *2
DOE *1	Aim for <b>4%</b>	2.1% *3

- \*1 DOE (dividend on equity ratio) = (Total amount of annual dividends ÷ Shareholders' equity) × 100
- \*2 Calculated based on the share price at close on March 31, 2024 (687 yen)
- \*3 Calculated based on ordinary dividend DOE was 3.1% when including commemorative dividend (10 yen per share).

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## **Capital Policy - Cash Allocation**

▶ Pursue both investment in growth and shareholder returns while maintaining financial soundness. ► Improve management efficiency through active investment in IT and automation to raise cash generation capability in the future.

	Operating CF Approx. 6.0 billion yen		Investment in growth	Capital investment Approx. 3.1 billion yen	IT-related investment: Approx. 0.7 billion yen Automation investment: Approx. 0.5 billion yen Development facility investment: Approx. 0.3 billion yen Environmentally friendly investment: Approx. 0.1 billion yen, etc.			
				New business M&A	Establish New Business Development Office/ study M&A			
			Shareholder returns	Dividend Approx. 2.4 billion yen	Dividend policy Aim for DOE of 4% (currently approx. 2%)			
			ilder 1S	Acquisition of treasury shares	Acquisition of treasury shares Conducted in an active and agile manner			
	Cash and deposits Approx. 7.0 billion yen			Operating capital, etc.	In addition to operating capital, utilization in the following measures expected i the future • Reorganization of production/sales bases • Additional investment in new businesses • Further improvement of human capital • Preparation against risks of disasters, etc.			
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## Financial Results Outlook for the Fiscal Year Ending March 31, 2025



## **Financial Results Outlook for the Fiscal Year Ending March 31, 2025**

- Regarding net sales, demand is expected to increase due to recovery of molds for automotive parts and new sales office in Dongguan is expected to expand sales by exploring and cultivating Chinese market.
- Operating profit is expected to reach 1.02 billion yen (up 26.1% year on year) due to increased net sales, despite increased personnel and IT-related expenses.

Operating profit 1.02 billion yen (Up 26.1% year on year)

(Million yen)	FYE2023 results	FYE2025 Q2 results forecast	FYE2025 results forecast	Change year on year at end of period	% change year on year at end of period
Net sales	16,678	8,800	18,000	1,322	7.9%
Operating profit	809	470	1,020	211	26.1%
[Operating profit margin]	[4.3%]	[5.3%]	[5.6%]	[1.3%]	
Ordinary profit	882	530	1,150	268	30.4%
[Ordinary profit margin]	[5.3%]	[6.0%]	[6.3%]	[1.0%]	
Profit attributable to owners of parent	709	380	830	121	17.0%
Basic earnings per share	35.72 yen	19.13 yen	41.78 yen	6.06 yen	-
Dividend per share	32.0 yen	-	40.0 yen	8.0 yen	_
DOE	*2.1%	_	4.0%	1.9%	_

\*Calculated based on ordinary dividend. DOE was 3.1% when including commemorative dividend (10 yen per share).



## **Financial Results Outlook for the Fiscal Year Ending** March 31, 2025 - Graph of Increase/Decrease

## Operating profit: +211 million yen

(Million yen / Amounts are rounded down to the nearest million yen)



(2) Exchange rate: 150 yen/U.S. dollar



# Status by Major Industry Category (Non-consolidated Basis, Net Sales) - Financial Results Outlook (Fiscal Year Ending March 31, 2025)



# Status by Major Industry Category (Non-consolidated Basis, Net Sales) - Financial Results Outlook (Fiscal Year Ending March 31, 2025)


### Shareholder Returns / Dividends for the Fiscal Year Ending March 31, 2025



Plan to pay a dividend of 40 yen per share, an increase of 8 yen (an increase of 18 yen in the ordinary dividend) compared with 32 yen per share for the fiscal year ended March 31, 2024, based on the change in dividend policy



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#### **Corporate Philosophy**

- Contributing broadly to society and creating happiness for people
- Respect for people, and management that is human-centered

#### **Basic Mindset (Our Cherished Values)**

- Thankfulness
- Harmony
- Creation and innovation
- Integrity
- Simplicity and fortitude

#### **Long-term Vision**

- 1. To be the world's leading manufacturing company
- 2. To be a group of companies and business people with integrity



## **Key Milestones and Net Sales Trends**

### Maintaining profitable operations since our founding



(Note) Net sales for FY2012 onward are consolidated net sales



#### **Industrial Production Index and Shipments of Carbide Wear-Resistant Tools**

Although recovering as compared to FY2020, both indices have not yet returned to pre-COVID levels.

#### **Industrial Production and Shipments of Carbide Wear-Resistant Tools - Index Trends**



## What is Cemented Carbide?

- Metallic materials combining hard carbides such as tungsten carbide and metals such as cobalt
- Boasts a <u>hardness</u> surpassing stainless steel and iron, and has excellent <u>compressive strength</u> and <u>abrasion resistance</u>
- **Resistant to deformation**, so suitable as a **material for molds and tools** requiring high precision
- Manufactured by the powder metallurgy method, whereby metal powder is placed in a mold to be compressed and formed, and then sintered for long hours at a temperature below melting point to solidify it





## **Examples of Typical Products**

#### Tools for drawing, extruding, and rolling processes

Used in transportation machinery, construction materials, infrastructure-related facilities, etc.





## **Examples of Typical Products**

#### Tools and dies for manufacturing beverage and food cans

Dies for making beverage cans for alcoholic beverages, soft drinks, etc.

Molds for manufacturing optical elements

Molds to produce lenses for single-lens reflex, telecommunications, and surveillance cameras



## **Examples of Typical Products**

#### Forging tools and molds

Molds for making parts for motorcycles, automobiles, various manufacturing machines, etc.

#### **High-pressure tools**

Tools used to manufacture artificial diamonds, develop new materials, and study the Earth's internal environment





### **Explanation of Terminology Related to New Product Development and New Technology Development and Background of Development**

Field	Developed products and technologies	Explanation	Background of development
Medical/ chemicals	• What is an analytical device?	A chip-type functional component with microscopic channels formed on a substrate such as resin or glass. They can freely mix and divide liquids and other things, and are used for analysis and other purposes.	Steel molds are often used to form devices, but wear resistance is a challenge when producing chemical-resistant glass devices. We are conducting R&D to solve the above issues by utilizing ultra-precision machining technology and alloy materials with high wear resistance suitable for glass molding.
	• What is a mold for forming analytical devices?	A mold for forming analytical devices.	
Environment/ energy	• What is a catalyst for reducing CO <sub>2</sub> emissions?	A catalyst that activates a reaction to reduce carbon dioxide to raw materials for synthetic fuels and resins.	Since our core powder metallurgy technology can be applied to synthesize catalysts, we are also conducting R&D on this technology to realize a carbon-neutral society.
	• What is a hydrogen generating catalyst?	A catalyst that electrolyzes water and activates hydrogen generation. Currently, platinum and iridium are chiefly used, but there are concerns about their high cost and short supply.	
	• What is a tungsten- and cobalt-saving alloy?	Highly wear-resistant alloy with almost no tungsten or cobalt. Lighter than cemented carbide.	Given that tungsten and cobalt are scarce resources and unevenly distributed in some regions such as China, we developed this product to mitigate procurement risks and acquire new markets by taking advantage of its light weight.
Optics	• What is a TR alloy?	A highly wear-resistant alloy with a coefficient of thermal expansion adjusted for glass materials.	Developed to prevent damage to glass materials caused by differences in thermal expansion coefficients when molding glass materials.
Other	• What is additive manufacturing (3D printing)?	A method of creating various shapes by laminating layers.	Development is underway to greatly increase powder yield by eliminating the need for machining, and to raise efficiency through unmanned operations.



# Financial Results 1/3





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## **Financial Results 2/3**



# Financial Results 3/3





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## **Consolidated Quarterly Financial Results**



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