# NACHI-FUJIKOSHI CORP.

# Environmental Report 2025



Recognizing the importance of coexistence with the global environment, NACHI-FUJIKOSHI Toyama, Namerikawa, and Higashi-Toyama Plants will promote improvement activities for a better global environment by contributing to the development of the world of monozukuri (manufacturing) in cutting tools, machine tools, robots, bearings, hydraulic equipment, automotive hydraulics, special steels, and Thermo-Tech.

- 1. We will consistently be aware of the environmental impact of our business activities and continuously improve our environmental management system (EMS) to prevent pollution, promote the use of sustainable materials, and mitigate climate change.
- 2. We will continuously improve our EMS to enhance our environmental performance.
- **3.** We will focus on the following key issues as our environmental targets and goals and periodically review their progress:
  - (1) Development of environmentally friendly, proprietary products
  - (2) Contribution to a decarbonized society
  - (3) Contribution to a recycling-oriented society (reduction of landfill waste and promotion of recycling)
  - (4) Managing and reducing environmentally hazardous materials
- 4. We will comply with environmental regulations and agreements applicable to our business activities and establish and control our voluntary standards, as needed.
- 5. We will inform all employees working at/for our facilities of the importance of our environmental policy and raise their awareness through environmental education and in-house information activities.
- 6. We will externally disclose our environmental policy to improve communication with regional communities.

December 9, 2024 NACHI-FUJIKOSHI CORP.

Environment Administrator Shinichi Momonoi

# **Corporate outline**

### Outline

| Company name                 | NACHI-FUJIKOSHI CORP. Trademark NACHI  |  |  |
|------------------------------|--|--|--|
| Established                  | December 21, 1928 Account settled on November 30   |  |  |
| Chairman                     | Hiroo Honma  |  |  |
| President                    | Tsutomu Kurosawa   |  |  |
| Head office                  | Shiodome Sumitomo Bldg. 17F<br>1-9-2 Higashi-Shinbashi, Minato-ku, Tokyo 105-0021, Japan<br>Tel.+81-3-5568-5111  |  |  |
| Major offices                | Toyama Plant<br>1-1-1 Fujikoshi-Honmachi, Toyama 930-8511, Japan<br>Tel.+81-76-423-5111  |  |  |
| Capital                      | 16.0 billion yen   |  |  |
| Consolidated net             | 239.8 billion yen (including overseas sales 122.4 billion yen)   |  |  |
| Consolidated<br>subsidiaries | 51 companies including 22 domestic companies<br>(comprising 3 engineering companies, 5 sales<br>companies, 12 manufacturing companies, and 2 service<br>companies) |  |  |
|                              | 29 overseas cor<br>companies and   | npanies (comprising 14 sales<br>15 manufacturing companies)                            |  |
| Consolidated number of       | 6,940 with 52 companie   | es (including 3,080 with parent entity)  |  |
| employees<br>Major products  | Mechanical equipment   | Cutting tools, forming tools,<br>cutting saws, machine tools,<br>and machining systems |  |
|                              | Robotics   | Robots, robot systems, and electronic equipment  |  |
|                              | Components   | Bearings, hydraulic equipment, and automotive hydraulics                               |  |
|                              | Materials  | Special steels, coating, and industrial furnaces                                       |  |

### Breakdown of net sales (consolidated)



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Values created by NACHI

# Lead innovation of manufacturing with the highest

As a comprehensive machinery manufacturer with the robotics business at its core, NACHI-FUJIKOSHI will provide various solutions and contribute to the progress of the world of manufacturing.



Corporate mission Contribute to the progress in the world of product manufacturing

# global standard technology with robotics at its core



Environmental management



# Audit and assessment

Through internal audits performed by our own staff and external audits performed by a third-party organization, we continuously strive to reduce our environmental footprint and enhance our improvement activities.

 Internal environment audit
 Iso 14001 periodical audit by an external audit organization
 Training of internal environment auditors
 Me cultivate internal environmental auditors and enhance their capabilities through internal and external auditors

# Number of qualifiers in environmental management (as of January 2025)

| Qualification name                           | Qualified<br>persons | Required number |
|--|----------------------|-----------------|
| Pollution Control Manager (Air)              | 14                   | 4               |
| Pollution Control Manager (Water<br>Quality) | 24                   | 4               |
| Pollution Control Manager (Noise)            | 23                   | 4               |
| Pollution Control Manager (Vibration)        | 24                   | 4               |
| Pollution Control Manager (Dioxin)           | 7                    | 1               |

|   | Unit: Numbe          | er of persons)  |
|---|----------------------|-----------------|
| Qualification name  | Qualified<br>persons | Required number |
| Licensed Electrical Engineer (Class 2 and 3)                | 20                   | 5               |
| Qualified Energy Manager                                    | 14                   | 6               |
| Certified Environmental Measurer<br>(Concentration)         | 3                    | 1               |
| Specially Controlled Industrial Waste Control<br>Supervisor | 20                   | 6               |

# NACHI's efforts to date

| 1991 | Our cutting tools and vacuum heat-treatment furnaces received the Award of the Director-General of the Agency for Natural Resources and Energy.  |
|------|--|
| 2000 | We published our Environmental Basic Policy and established the Environmental Manual.  |
| 2001 | Our Toyama Plant obtained ISO 14001 certification. A grinding sludge solidification system was introduced.   |
| 2002 | Our Toyama and Namerikawa plants obtained ISO 14001 certification.   |
| 2003 | Our Toyama, Namerikawa and Higashi-Toyama plants obtained ISO 14001 certification.   |
| 2004 | Our 10 domestic subsidiaries obtained ISO 14001 certification.   |
| 2005 | We established NACHI-FUJIKOSHI Corp. Citizen Rules, created the Chemical Analysis Office, and abolished the use of chlorine cleaner.   |
| 2008 | Our hydraulic variable pump units received the JMF President Award for Excellent Energy-Efficient Machinery from Japan Machinery Federation (JMF).   |
| 2009 | The Histophicayean Dant's Material Plant relevant a Covernor Award for Every Management Factory.   |
| 2005 | The Toyland Namericana a Machan hair revenue and revenue and overline Award for Execution Energy Management reactions.<br>The Toyland Namericana and Hinsehi Toyland and the set of subsidiaries revenue the birth provide and the revenue of the 190 Management reaction. |
| 2010 | certification.   |
| 2011 | We started disclosing data on CO <sub>2</sub> emission reductions achieved by our customers when they use our eco-friendly products in our environmental report.   |
|      | We received the Award for 10 Consecutive Years of ISO 14001 Certification from an external audit organization.   |
| 2012 | We received the Special Incentive Award for excellent environment-conscious companies from the Japan Machine Tool Builders' Association.   |
|      | We received the Sixth Environmental Contribution Award (Eco-Factory Division) from the Japan Solid Cutting Tools' Association (JSCTA).   |
| 2013 | We received the Seventh Environmental Special Award (prevention of global warming) and Environmental Contribution Award (Eco-Products Division) from<br>the Japan Solid Cutting Tools' Association (JSCTA).  |
| 2014 | We received the Einh Environmental Contribution Award (Eco-Product Division) from the Japan Solid Cutting Tools' Association (JSCTA).  |
| 2015 | We received the First Environmental Activity Award (reduction of landfill disposal rate for industrial waste by expanding recycling of grinding stone) from the  |
|      | Japan Solid Cutting Tools' Association (JSCTA).  |
| 2016 | We received the Second Environmental Special Award (99% achievement of Zero Emissions) and Environmental Activity Award (deoiling treatment of oil-  |
|      | based metal grinding powder) from the Japan Cutting & Wear-resistant Tool Association (JTA).   |
| 2017 | We received the audit for the new ISO 14001:2015 version and the certification.  |
|      | We received the Third Environmental Activity Award (reduction of groundwater consumption by introducing circulation systems) from the Japan Cutting & Wear-resistant Tool Association (JTA).   |
| 2018 | Our screw parts for fluoropolymers received the "CHO" MONODZUKURI Machinery & Robot Component Award.   |
|      | We received the FY2018 Environmental Activity Award (reduction of air conditioning energy by sprinkling water over factory roofs) from the Japan Cutting & Wear-resistant Tool Association (JTA).  |
| 2019 | Our collaborative robot CZ10 received the Monozukuri Award of the Best 10 New Products Award.  |
|      | Our ultra-small compact robot MZ01 received the Monozukuri Award of the 2019 Best 10 New Products Award.   |
|      | We received the FY2019 Environmental Activity Award (energy conservation by switching to LED lighting in plants) from the Japan Cutting & Wear-resistant   |
|      | Tool Association (JTA).  |
| 2020 | Our carbide drill AquaREVO Drills Oil-Hole received the Encouragement Award of the "CHO" MONODZUKURI Innovative Parts and Components Award.  |
| 2021 | Our small robot MZ25 received the Monozukuri Award of the Best 10 New Products Award.  |
| 2022 | Our high-speed, high-precision robot MZ F series/ultra-compact controller CFDq received the Monozukuri Award of the Best 10 New Products Award.  |
| 2023 | Our carbide endmill Aqua REVO Mill for Stainless Steel received the Encouragement Award of the "CHO" MONODZUKURI Innovative Parts and Components   |
|      | Award.   |
|      | Our high-speed, high-precision robot CMZ05/Teaching system Nachi Tablet TP received the Monozukuri Award of the Best 10 New Products Award.  |
|      | We established the Sustainability Committee.   |
| 2024 | Our tool Burrless Series received the MONODZUKURI Nihon Conference Co-Chair's Award" of "CHO" MONODZUKURI Innovative Parts and Components<br>Awards.   |

Our energy-saving hydraulic unit with synchronous motor, the NS Pack type-S, received the NIPPON Brand Award of the Best 10 New Products Award.

# ISO 14001 certification

Registered businesses Development, design and manufacture of tools, machine tools, bearings, hydraulic equipment, robots, solenoid valves for automobiles, industrial furnaces, coating, and special steels



Registration No. Japan Audit and Certification Organization for Environment and Quality (JACO)

EC01J0025

Registered facilities Toyama Plant, Namerikawa Plant, Higashi-Toyama Plant, NACHI Machinery Engineering Co., Ltd., and NACHI Hokuriku Co., Ltd.



# FY2024 performance and environmental targets for FY2025

😲 Achieved 👥 Not achieved

|   | Theme   | FY2024 target   | FY2024 performance  | Rating | FY2025 target  |
|---|---|---|---|--------|--|
| 1 | Development of<br>environmentally<br>friendly,<br>proprietary<br>products   | Development of<br>environmentally friendly<br>products<br>FY2024 eco-friendly products<br>14 or more certified<br>products<br>(196 or more products in<br>cumulative total)   | Development of<br>environmentally<br>friendly products<br>FY2024 eco-friendly<br>products<br>14 certified products<br>(cumulative total of 196<br>products)   | ٢      | Development of<br>environmentally<br>friendly products<br>Certification of 11 or more<br>eco-friendly products in<br>FY2025  |
| 2 | (1) Contribution to a<br>decarbonized<br>society  | Reduction of CO <sub>2</sub><br>emissionsPer unit gross<br>value-added emissions<br>to 2.75 t-CO <sub>2</sub> /million yen<br>or less<br>(Emissions: 112,602 t-<br>CO <sub>2</sub> /year or less)   | Reduction of CO <sub>2</sub><br>emissionsPer unit<br>gross value-added<br>emissions 2.97 t-<br>CO <sub>2</sub> /million yen<br>(Emissions: 105,252 t-<br>CO <sub>2</sub> /year)   |        | Reduction of per unit<br>gross value-added CO <sub>2</sub><br>emissions to 0.97 t-CO <sub>2</sub><br>/million yen or less<br>[3% decrease from FY2013<br>performance]<br>(Emissions: 112,706 t-<br>CO <sub>2</sub> /year or less)<br>FY2024 performance: 0.98 t-<br>CO <sub>2</sub> /million yen   |
|   | (2) Reduction of<br>groundwater<br>consumption  | Reduction of<br>groundwater<br>consumption<br>Groundwater<br>consumption: 1,624,000<br>t/year or less   | Reduction of<br>groundwater<br>consumption<br>Groundwater<br>consumption:<br>1,635,000 t/year or less   | •      | Reduction of<br>groundwater<br>consumption<br>Reduce groundwater<br>consumption to<br>1,645,000 t/year or less   |
| 3 | Contribution to<br>a recycling-<br>oriented society<br>Reduction of landfill<br>waste and promotion<br>of recycling | Company-wide landfill<br>disposal rate: 0.9% or<br>less<br>(Final disposal: 164.0 t/year or<br>less)<br>Waste yard evaluation score<br>5.8 points or higher (out of 6)  | Company-wide landfill<br>disposal rate: 0.6%<br>(Final disposal: 95.6 t/year)<br>Waste yard evaluation<br>score: 5.8  | ٢      | Company-wide landfill<br>disposal rate: 0.7% or<br>less<br>(Final disposal: 114.2 t/year of<br>less)<br>Waste yard evaluation score<br>5.8 points or higher<br>[The impact of changes in<br>production is taken into<br>consideration]   |
| 4 | Managing and<br>reducing<br>environmentally<br>hazardous<br>materials   | Per unit consumption of<br>PRTR-designated<br>substances related to<br>coating<br>3.19 kg-substance/t or<br>less  | Per unit consumption<br>of PRTR-designated<br>substances related to<br>coating<br>3.04 kg-substance/t or<br>less  | ٢      | Per unit consumption<br>of PRTR-designated<br>substances related to<br>coating: 3.22 kg-<br>substance/t or less<br>[The impact of PRTR Law<br>revision is taken into<br>consideration]   |
| 5 | Developing<br>eco-conscious<br>communities/<br>human<br>resources   | <ul> <li>Liaison meeting with<br/>neighborhood<br/>associations: once a<br/>year or more<br/>Cleaning of factory<br/>surroundings: three<br/>times a year</li> <li>Environmental education<br/>Environmental education<br/>Environmental news: six<br/>times a year or more</li> <li>Disclosure of<br/>environmental<br/>information</li> <li>Promotion of<br/>participation in external<br/>environmental activities:<br/>once a year or more</li> <li>Due execution and<br/>review of emergency<br/>drill</li> <li>Regular environmental<br/>patrols</li> </ul> | <ul> <li>Liaison meeting with<br/>neighborhood<br/>associations: twice a<br/>year<br/>Cleaning of factory<br/>surroundings: three<br/>times a year</li> <li>Environmental<br/>education<br/>Environmental<br/>education: four times a<br/>year<br/>Environmental news:<br/>seven times a year</li> <li>Disclosure of<br/>environmental<br/>information</li> <li>Participation in tree<br/>planting and beach<br/>cleaning activities</li> <li>Execution and review of<br/>emergency drill</li> <li>Regular environmental<br/>patrols</li> </ul> |        | <ul> <li>Liaison meeting with<br/>neighborhood<br/>associations: twice a<br/>year<br/>Cleaning of factory<br/>surroundings: three<br/>times a year</li> <li>Environmental<br/>education<br/>Environmental<br/>education: four times a<br/>year<br/>Environmental news: sib<br/>times a year or more</li> <li>Disclosure of<br/>environmental<br/>information</li> <li>Promotion of<br/>participation in external<br/>environmental activities<br/>once a year or more</li> <li>Due execution and<br/>review of emergency<br/>drill</li> <li>Regular environmental<br/>patrols</li> </ul> |

Note 1: CO<sub>2</sub> equivalent is consistently based on the following rate: [0.360 t-CO<sub>2</sub>/1,000 kWh]



# Development of environmentally friendly, proprietary products

We utilize a wide variety of technologies accumulated over the years to provide high-quality, ecofriendly products that meet various automation needs at manufacturing sites.

## Robotics



To respond to various automation needs at production sites, we offer a lineup of industrial robots for a wide variety of applications, helping to sustain a broad range of manufacturing sites, from automobiles to industrial machinery.

In addition to achieving high functionality and high performance, we also pursue energy conservation by downsizing equipment and increasing operational speed.

We will continue to develop eco-friendly products and contribute to automated manufacturing in various fields, including electric and electronic products, EMS (Electronics Manufacturing Service), and industrial machinery.

## Wall-Mounted Space-Saving Robot MZ12W



MZ12W is equipped with a robotic axis structure that utilizes a pendulum motion to minimize equipment interference during rotation.

By reducing both the motion and load on the main axis and primarily operating the low-output wrist axis, energy efficiency is improved during substrate transfer. Additionally, the design that prevents dust from falling from the robot onto the substrate enhances the quality of the substrate (such as glass substrates for LCDs).

### **Reduction of body weight**

This robot weighs 195 kg, 40 kg lighter than conventional machines.

### **Reduction of power consumption**

The decrease in power consumption resulted in a 19.0% reduction of CO<sub>2</sub> emissions per unit compared to conventional machines.





\* Power consumption is compared based on the company's standard operating pattern.



Robot position during substrate transfer

# Mechanical Equipment <Cutting Tools>



Manufacturing sites are constantly striving to meet diverse needs, including improving production efficiency, reducing costs, and performing high-precision machining.

In the field of cutting tools, NACHI-FUJIKOSHI contributes to the improvement of productivity by developing/commercializing high-precision and high-functional tools that can streamline processes. We also provide high-speed and high-feed tools that can raise processing efficiency.

# DLC-REVO Drill Burrless (DLCRVDBL4D)

Features In addition to the burrless drill's distinctive configuration, the newly developed DLC-REVO coating and ultra-sharp flute geometry enable burr-free drilling of through holes on non-ferrous metals, reducing the need for deburring processes.

### **Burrless**

➡ In addition to the Radius Edge and Center Point, the key features of the burrless drill, sharpness is further enhanced by incorporating a large rake angle and a high-helix spiral flute. In through-hole and cross-hole machining of non-ferrous metals, this design reduces the burr height to less than one-tenth that of conventional machining drills for non-ferrous metals and completely eliminates umbrella-shaped chip residues at the exit hole. These burrless functions can eliminate or minimize the secondary deburring processes.



The newly developed DLC-REVO coating enhances lubricity and weld resistance, ensuring stable machining performance. Its combination of high hardness and thinness improves both wear resistance and coating adhesion, resulting in significantly longer tool life.

### **CO<sub>2</sub> reduction**

 $\blacksquare$  CO<sub>2</sub> emissions are reduced by 63.9%.

The CO<sub>2</sub> emissions reduction for 10 h x 240 days/year was 0.396 t, a 63.9% decrease compared to conventional products.



|                                       | Conventional product | DLC-REVO Drills<br>Burrless | Results  |
|---------------------------------------|----------------------|-----------------------------|----------|
| Power<br>consumption<br>(kWh/year)    | 2522.40              | 910.99                      | ▲1611.51 |
| CO <sub>2</sub> emissions<br>(t/year) | 1.097                | 0.396                       | ▲0.70    |



# Mechanical Equipment <Cutting Tools>

# **DLC-REVO Mills Burrless (DLCRVMBL4G-2.5D)**

Features In addition to the burrless drill's distinctive configuration, the newly developed DLC-REVO coating and the minimal flank on the peripheral cutting edge effectively eliminate burrs on both the top and bottom surfaces when machining the sides of non-ferrous metals, significantly reducing the need for deburring processes.

### **Burrless and chatter-control**

The double helical configuration effectively suppresses burr formation on both the top and bottom of the work surface.

In addition, to address the tendency of non-ferrous metals to chatter due to over-cutting, the cutting edge is designed with a finely tuned flank of minimal width and angle, effectively reducing chatter vibrations.

This feature shortens the deburring process while delivering a stable, chatterfree machined surface.

### Stability and long life

The newly developed DLC-REVO coating enhances lubricity and weld resistance.

The combination of high hardness and thinness results in a sharp cutting edge that offers both excellent cutting performance and extended tool life.

### CO<sub>2</sub> reduction

### $\blacksquare$ CO<sub>2</sub> emissions are reduced by 18.0%.

The  $CO_2$  emissions reduction for 10 h x 240 days/year was 1.868 t, an 18.0% decrease compared to conventional models.



|  | Conventional<br>product +<br>deburring | DLC-REVO Mills<br>Burrless | Results |
|--|--|----------------------------|---------|
| Power<br>consumption<br>(kWh/year)       | 4059.00                                | 3329.00                    | ▲730.00 |
| CO <sub>2</sub><br>emissions<br>(t/year) | 2.277                                  | 1.868                      | ▲0.409  |

CO2 emissions reduction results



# Mechanical Equipment <Cutting Tools> HyperZ Tap for Taper Pipe Threads (for steel)

Features

An interrupted thread design is adopted to remove a complete thread at intervals of one thread. The stable cutting depth controls friction and reduces torque.

### Low torque and long life

The adoption of interrupted thread design and optimal cutting edge configuration stabilizes cutting depth, controls friction, and reduces torque. The design suppresses chip winding and blade chipping, resulting in longer life.

### Stable machining and suppression of chip winding

The quick helix angle facilitates the formation of chips with a uniform curl diameter.

Additionally, the long shank configuration minimizes interference between chips and the holder, effectively suppressing chip winding.

## CO<sub>2</sub> reduction

 $\blacksquare$  CO<sub>2</sub> emissions reduction by 43.4%.

The CO\_2 emissions reduction for 10 h x 240 days/year was 0.209 t, a 43.4% decrease compared to conventional products.



|  | Conventional product | HyperZ Tap for<br>Taper pipe threads<br>(for steel) | Results |
|--|----------------------|---|---------|
| Power<br>consumption<br>(kWh/year)       | 671.00               | 380.66  | ▲290.34 |
| CO <sub>2</sub><br>emissions<br>(t/year) | 0.369                | 0.209   | ▲0.160  |



# Mechanical Equipment <Cutting Tools>

## **Forming Rack for High Precision Splines**

Features Provides superior machining accuracy and meets the increasing precision requirements of spline machining.

The implementation of a new roll-forming method achieved spline cumulative pitch accuracy of JIS Class 5 or better.

### **High precision**

By adopting a finishing method that raises the spline in the tooth height direction and then presses it outward along the tooth surface, the product's pitch deviation was improved from JIS Class 6 to Class 5.

This method helps minimize the gap between the rack and the machined part, allowing for torque variations, reducing vibration, and preventing spline wear.

### Reduction of roll-forming load

The adoption of the raised tooth finishing method reduced the roll-forming load by 18% compared to conventional products.



### CO<sub>2</sub> reduction

 $\blacksquare$  CO<sub>2</sub> emissions are reduced by 6.1%.

The reduction of the roll-forming load led to smaller power consumption and  $CO_2$  emissions. The  $CO_2$  emissions reduction for 10 h x 240 days/year was 0.031 t, a 6.1% decrease

compared to conventional products.



|                                       | Conventional product | Raised tooth finishing method | Results |
|---------------------------------------|----------------------|-------------------------------|---------|
| Power<br>consumption<br>(kWh/year)    | 74.84                | 70.12                         | ▲4.72   |
| CO <sub>2</sub> emissions<br>(t/year) | 0.033                | 0.031                         | ▲0.002  |

# Mechanical Equipment <Machine Tools>



We have pursued human- and eco-friendly, high-speed advanced machine tools, and developed Japan's first broaching machines and various machine tools that are essential for ever-evolving production systems.

In recent years, we have integrated our comprehensive technologies - drawing on our expertise in gear design and machining - to effectively meet increasingly diverse processing needs.

## High-performance Gear Grinding Machine GSGT260

Features

The GSGT260 enables high-efficiency, high-precision machining by rapidly indexing and rotating ultra-hard gears, such as those used in electric vehicle reduction systems. Optimized for mass production, this gear grinding machine features a compact, space-saving design.

### CO<sub>2</sub> reduction

CO<sub>2</sub> emissions are reduced by 11.1%.

\* The amount of reduction is calculated in comparison with conventional machines after converting power and oil consumption into CO<sub>2</sub> emissions.





Conventional machines CO<sub>2</sub> emissions reduction results

|                                   | Conventional machines | GSGT260 | Results |
|-----------------------------------|-----------------------|---------|---------|
| Power<br>consumption*<br>(t/year) | 21.800                | 20.700  | ▲1.100  |
| Oil<br>consumption*<br>(t/year)   | 5.200                 | 3.200   | ▲2.000  |
| Total*<br>(t/year)                | 27.000                | 23.900  | ▲ 3.100 |

\* Converted into CO<sub>2</sub> emissions (tCO<sub>2</sub>).

# **Components** <Bearings>



Bearings are components that enable smooth and precise movement of a machine's rotating parts. Bearings are used in a wide range of mechanical equipment: transport equipment such as automobiles, Shinkansen trains, ocean-going vessels, and aircraft; household appliances such as air conditioners; FA equipment such as robots and machine tools; as well as large industrial equipment and satellites, substantially contributing to the reduction of energy loss caused by friction in rotating parts. NACHI-FUJIKOSHI offers products that contribute to various fields, including automobiles and industrial machines, by leveraging its technologies to extend bearing life, achieve high efficiency, and downsize products.

## Long-life Pinion Shaft

FeaturesThe same design used in conventional automatic transmissions (A/T) can be applied,<br/>even under the high load conditions of electric vehicles.Replacing a conventional product with our new product results in a more compact unit<br/>and longer product lifespan.

### Longer life

High resistance to thermal loads is achieved through the application of a specialized heat treatment to Fujikoshi's proprietary materials.

This treatment precipitates and stabilizes residual austenite, which helps to relieve stress concentrations in the elevated areas of pressure marks caused by the trapped foreign objects, thereby extending product life. The pinion shaft can be designed with the same dimensions and unit count as those used in conventional automatic transmissions (A/T), even under the high load conditions of electric vehicles.



Extends the life of pinion shaft

### CO<sub>2</sub> reduction

Used in sedans, wagons, SUVs, and other hybrid vehicles as a long-life pinion shaft, this product helps reduce CO<sub>2</sub> emissions during driving.



# Components <Hydraulic Equipment>



As a comprehensive hydraulic equipment manufacturer, our Hydraulics Division produces and sells various types of hydraulic equipment and offers products for various industries, ranging from machine tools to molding, forging press, and construction machines, etc.

Based on the concept of energy conservation, compactness, and high functionality, we offer ecofriendly hydraulic equipment that meets the needs of every industry.

## Energy-saving Hydraulic Unit with Synchronous Motor NS Pack type-S

Features

Power consumption is further reduced through improved energy-saving performance, achieved by combining a conventional variable pump with variable speed control.

### **Reduces power consumption during operation**

By integrating a high-efficiency synchronous motor equivalent to IE4 standards with an inverter drive, power consumption is reduced by 24% compared to conventional products.

Energy savings are achieved across all load ranges.

### CO<sub>2</sub> reduction

The use of a proprietary motor fan developed for radiator cooling resulted in minimal heat generation, with the oil temperature rising only 5°C above the room temperature.

This innovation also reduced the power consumption of the electric cooling fan by 29.0%, contributing to significant energy savings.





|   | Conventional<br>product<br>NSP-10E-15VIA4-23 | New product<br>NSP-16E-<br>S15VIA4-1590A | Results  |
|---|--|--|----------|
| Power<br>consumption<br>during<br>operation<br>(w/unit) | 375.0  | 285.0                                    | ▲90.0    |
| CO <sub>2</sub><br>emissions<br>(t/year)                | 0.00021                                      | 0.00015                                  | ▲0.00006 |

# Components <Hydraulic Equipment>

### **Power Exceed**

Features A more compact unit design is achieved by driving the variable displacement pump with a servomotor.

This hydraulic system delivers high-precision control at high pressure (low flow rate) and high flow rate (low pressure).

### Reduces power consumption during operation

Pump capacity can be adjusted continuously. The unit provides flow and pressure precisely matched to the cycle time.

The unit can be turned off when idle.

Comes in an energy-efficient, low-noise design that operates only when needed and for the required duration.

### CO<sub>2</sub> reduction

CO<sub>2</sub> emissions, including those generated during the manufacturing of primary materials, are reduced by 12.5% compared to conventional products.





|   | Conventional<br>product<br>UPS-2A-35*20K-10 | New product<br>UPW-2A-35*11K-10 | Results |
|---|---|---------------------------------|---------|
| Power consumption<br>during operation<br>(W/unit) | 460.0                                       | 400.0                           | ▲ 60.0  |
| CO <sub>2</sub> emissions<br>(t/year)             | 51.96                                       | 45.46                           | ▲ 6.50  |

# Components <Hydraulic Equipment> Wet-type Solenoid Valve SK-G01 Series 40 design

Features Power consumption during operation is reduced through enhanced efficiency of the electromagnetic circuit.

# Reduces power consumption during operation

The power consumption of the model-changing coil in the solenoid section is reduced to 19.8W (34.0% decrease from conventional products).

### CO<sub>2</sub> reduction

CO<sub>2</sub> emissions, including those generated during the manufacturing of primary materials, are reduced by 33.6% compared to conventional products





|   | Conventional<br>product<br>SK-G01-5162H | New product<br>SK-G01-5162L | Results |
|---|---|-----------------------------|---------|
| Power consumption<br>during operation<br>(W/unit) | 30.0                                    | 19.8                        | ▲10.2   |
| CO <sub>2</sub> emissions<br>(t/year)             | 784.5                                   | 521.2                       | ▲263.2  |

# Materials <Special Steels>



Our Material Division commercializes precision mold materials, highly functional materials, and other materials by leveraging high-speed tool steels used as raw materials for cutting tools, along with cemented carbide materials and special melting technologies.

In recent years, we have developed materials that meet the technology needs of next-generation vehicles (EV, lightweight, and high-performance parts).

## High-strength Corrosion-resistant Stainless Steel

Features

Compared to commercially available materials in the same class, the newly developed high-strength, corrosion-resistant stainless steel increases cutting performance by 1.3 times.



### Increase in the number of cuts





# Materials <Thermo-Tech>



The Thermo-Tech Division manufactures industrial furnace products that are essential for metal production and PVD equipment for coating tools and molds to extend their service life. Through these heat treatment products, we support energy conservation by leveraging our proprietary vacuum and heat processing technologies to meet customer needs in a decarbonized society.

### Energy-saving Vacuum Degreasing Washer with Heat Pump NVD-10HP

Features

The NVD-10HP washer collects heat from the air with a heat pump and uses it as a heat source.

# Substantial energy savings (power consumption and CO<sub>2</sub> emissions are cut in half)

Power consumption is cut in half through the use of a heat pump for heating.

# Enhanced drying performance even at low temperatures

Equipped with a drying monitoring function, the unit maintains the same drying performance as conventional products, even at low temperatures.

# Eliminates the need for heating medium oil

Safety is further improved by using heated water as the heating medium.

# Comes in one package and saves space

The integration of ancillary equipment helps reduce space requirements.





|                                      | NVD-10E | NVD-10HP | Results |
|--------------------------------------|---------|----------|---------|
| Power<br>consumption<br>(kWh/ch)     | 24.9    | 11.8     | ▲13.1   |
| CO <sub>2</sub> emissions<br>(kg/ch) | 8.964   | 4.248    | ▲4.716  |

# Prevention of global warming and reduction of energy consumption

All our plants work to reduce total CO<sub>2</sub> emissions by optimizing equipment operation and installing energy-saving equipment.

In FY2024, we achieved our target for CO<sub>2</sub> emissions. However, our figures for per unit gross value-added emissions significantly exceeded the target due to the effects of higher energy and raw material prices.

In FY2025, we will do our best, based on the medium-term energy conservation plan, to make capital investment and conduct energy-saving activities to reduce energy consumption.





[FY2024 performance]







### [Energy conservation efforts]

- Replacement of lighting equipment in plants with LED (693 lamps, reduction of 97.7 t-CO<sub>2</sub>/year)
- Improvements through energy-saving diagnosis at the site (reduction of 37 t-CO<sub>2</sub>/year)
- Replacement of electrical room transformers with energy-saving models (reduction of 61.2 t-CO<sub>2</sub>/year)
- Reduction of CO<sub>2</sub> emissions with the use of renewable energy (on-site solar power generation) (reduction of 349 t-CO<sub>2</sub>/year)



## (2) On-site energy-saving diagnosis

Under the supervision of our Energy Section staff, energy conservation diagnosis was conducted in six manufacturing departments.

The team interviewed key personnel and performed on-site inspections, then collaboratively reviewed the problems and potential issues identified to develop effective countermeasures. 20 potential issues identified (of which 13 have been resolved)

#### [Potential issues identified]

- (1) The required source pressure for the compressor was re-evaluated, resulting in a reduction of the set pressure (0.75 -> 0.62 MPa).
   [CO<sub>2</sub> reduction:15,600 kWh/year]
- (2) The system was modified to automatically shut down after production ends, reducing the standby power consumption of all 20 units. [CO<sub>2</sub> reduction:49,300 kWh/year]



Monitoring the operational status of compressor equipment



Measuring the surface temperature of overheated equipment

Mission 3

# Contribution to a recycling-oriented society

(Reduction of landfill waste and promotion of recycling)

## Continued and enhanced efforts for recycling

The waste collected from green stations (primary segregated waste storage within each factory) installed at each workplace is sorted and transported to the green yard (final segregated waste storage within the factory). From there, the waste is consigned to the contracted companies for disposal.

Nearly 100% of the grinding sludge - the largest volume of waste generated - is recycled using an in-house dehydration press.



To effectively use resources and save landfill space, we are working to minimize the landfill disposal volume. In FY2024, we successfully reduced the volume of landfill disposal by 99.2% compared to the benchmark (BM).

### Trends in waste landfill disposal rate\* (per year)



The landfill disposal rate\* is substantially reduced from 72.0% (BM) to 0.58% after the reduction of residuals enabled by changing the intermediate treatment methods for waste liquid and sludge, dehydration presses for grinding sludge, and the recycling of soot dust.

\* Definition: landfill disposal rate = (Landfill disposal volume / Total waste generation volume) x 100 (%)

### Trends in grinding sludge generation and recycling (per year)



1999 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 FY

## Measures to reduce the residual landfill rate

#### (1) Measures to reduce waste water sludge in landfill disposal

As a result, the recycling rate increased from 92% to 100%, with approximately 2.5 tons of residual waste being recycled annually into concrete material.

#### (2) Measures to reduce glass scrap in landfill disposal

Efforts were made to recycle approximately 4 tons of glass scrap generated annually.

As a result, all glass scrap generated in the relevant departments is now fully recycled. The recycling initiative will be expanded to include all of our plants in the future.



Promotion of recycling by strictly segregating grinding sludge Grinding sludge accounts for nearly one-third of the total waste generated. We recycle 99.1% of our grinding sludge by solidifying it within our company and consigning the remainder to external contractors. We continue to recycle 100% (no landfill disposal) of metal grinding powder. In preparation for unexpected stoppage of press machines, we supplied spare parts and carried out maintenance in a planned manner to recycle metal grinding powder and contribute to profits.



Assessment of management status of GY (green yard)/GS (green station) and efforts to raise environmental awareness

GS and GY managers in each department use GS and GY check

sheets to assess the management status of waste storage areas three times a year (in February, June and October)

For the potential improvement issues identified, we have provided environmental education and guidance on waste separation to improve waste disposal practices and enhance environmental awareness.

In 2024, we met our target of 5.8 points or more with a performance score of 5.8 points.

### 2024 performance status: 5.8 points or more for en

| Division                                  | 1st (February) | 2nd (June) | 3rd (October) |
|---|----------------|------------|---------------|
| Cutting tools                             | 5.9            | 6.0        | 5.8           |
| Bearings                                  | 5.8            | 5.9        | 5.9           |
| Hydraulic<br>equipment                    | 6.0            | 6.0        | 5.7           |
| Automotive<br>hydraulics                  | 5.9            | 5.9        | 5.3           |
| Machine Tools                             | 5.9            | 5.9        | 5.9           |
| Robots                                    | 5.9            | 5.9        | 5.9           |
| Materials                                 | 6.0            | 5.8        | 5.9           |
| Thermo-Tech                               | 5.9            | 5.9        | 6.0           |
| Toyama<br>function                        | 5.8            | 5.8        | 5.9           |
| NME                                       | 5.7            | 6.0        | 5.9           |
| Technology<br>Development<br>Headquarters | 6.0            | 6.0        | 6.0           |
| Evaluation score<br>(average)             | 5.9            | 5.9        | 5.8           |

### Mission 4

# Managing and reducing environmentally hazardous materials

### Reduction of chemical substances

We have consistently worked to reduce the use of PRTR-designated substances. Of the seven substances initially designated in FY2001 with the enactment of the PRTR Law, we successfully reduced the number to three (toluene, xylene, and ethyl benzene) by FY2006 through the complete elimination of dichloropentafluoropropane and dichloromethane, among other measures.

Following the revision of the PRTR Law in 2008, three additional substances—methylnaphthalene, 1,2,4-trimethylbenzene, and N,N-dicyclohexylamine—were added to the list of reportable substances in FY2010. As a result, the total number of substances our company is required to report increased to six. Until 2021, the list of reportable substances remained unchanged at six. However, in FY2022, hexane, which is used in processes with increased production, was added to the list. In terms of the handling volume during this period, coating accounted for the largest share by application, which had a significant impact on the trends of the overall handling volume. In FY2012, the handling volume temporarily declined due to the transition to TX (toluene/xylene)-free alternatives for certain paints. However, from FY2013 to FY2017, the volume rose again, driven by increased production levels. Starting from FY2018, we have made deliberate efforts to resume the use of alternative coating agents and minimize the use of thinners in the coating preparation process. These efforts have yielded some positive results

Beginning in FY2023, designated substances will be subject to mandatory notification under the revised 2021 government regulation. As a result, four new substances were added to our company's reporting list. Among the four substances, diethanolamine had an especially high handling volume, reaching a record level that surpassed even that of toluene up to FY2022. In addition, many of the products containing these newly designated substances are used in applications that were not previously covered by the PRTR Law before FY2022, resulting in a significant shift in the breakdown of substances by application. We remain committed to ensuring accurate and complete reporting of all newly designated substances.

Chemical substance

Sulfide (2,4,4-trimethylpentene)

(1-Hydroxyethane-1,1-diyl)

N,N-Dicyclohexylamine

Methylnaphthalene

Diethanolamine

Trimethylbenzene

Ethylbenzene

Diphosphonate

Trimethylbenzene

Methylnaphthalene

Trimethylbenze

compounds

Methyl isobutyl ketone

Ethylbenzene

Xylene

Toluene

Xylene

Toluene

Hexane

Xylene

### FY2023 PRTR report summary

Xvlene

Toluene

| 12     | r              | eporte       | and ling       | g volur<br>ie gove | ne<br>ernmei    | nt 🤎           | _ Num<br>repo   | ber of<br>rted to | substa<br>the go | ances<br>overnn | nent          | t          | /year    |
|--------|----------------|--------------|----------------|--------------------|-----------------|----------------|-----------------|-------------------|------------------|-----------------|---------------|------------|----------|
| 10     |                |              |                |                    |                 |                |                 |                   |                  |                 |               | 1          | 140      |
| 8      |                |              |                |                    |                 | _              |                 | _                 |                  |                 | 1             |            | 120 e    |
| 6      | -              |              |                |                    |                 |                |                 |                   | •                | -               |               |            | 80 100   |
| 4      | -              |              |                |                    |                 | _              |                 | -                 | _                | -               |               | _          | . 60 ilp |
| 2      |                |              |                |                    |                 |                |                 | -                 |                  |                 |               | -          | 20 LBH   |
| 0      | _              |              |                |                    |                 |                |                 |                   |                  |                 |               |            | 0        |
| * Subs | 2012<br>tances | 2013<br>asso | 2014<br>ciated | 2015<br>with m     | 2016<br>etallic | 2017<br>meltir | 2018<br>Ig at M | 2019<br>ateria    | 2020<br>Plant    | 2021<br>are ex  | 2022<br>clude | 2023<br>d. | FY       |

Trends in PRTR-designated substances

### Trends in the handling volume of PRTR substances in coating processes



(unit: kg)

1

2.464

35.492

1 0 2 5

0

8

0

0

13

0

0

0

0

0

6.595

6,234

4 3 3 6

962

695

1,424

Production weight of products subject to coating (kt)

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

### Breakdown of substances by application (FY2023)

(FY2020 figure is affected by the COVID-19 pandemic)





- Ethylbenzene
- Xylene
   Trimethylbenzene
- Toluene
- Diethanolamine

Substances shown in bold were newly added to the list following the 2021 revision. April 1, 2023 - March 31, 2024 \* PRTR Law: Act on Confirmation, etc., of Release Amounts of Specific Chemical Substances

Calculation period

gashi-Toyama Pla (Nakada Factory)

[Metallic melting

processesl

PRTR-designated substance group Handling volume

Cleaning and

painting Cutting and

grinding Coating

Fuel

Cutting and

grinding Cleaning and

rust-proofing Cutting

grinding

Coating

Coating and

fuel

Coating

Rust-proofing

Coating

Coating ar fuel

Coating

Others

Fuel and

coating

Coating

Fuel

Fuel

Fuel

\_

2.493

5,164

5,606

2,863

3.590

11.535

4,431

4,468

15,619

923

2,010

1,261

30

44

0

0

0

0

0

0

0

0

2.529

2.464

5,179

1,357

5,648

1,025

2,872

3,703

11.570

1,424

4,444

5,493

15,666

1.618

3,660

1,264

4,589

5,944

8,795

35.492

April 1, 2023 - March 31, 2024 in the Environment and Promotion of Improvements to the Management

Thereof (promulgated in July 1999, enforced in April 2000, and revised in November 2008 and October 2021)

PRTR (Pollutant Release and Transfer Register): Pollutant Release and Transfer Register

Report to the government: designated chemical substances under PRTR Law Class 1 (content: 1% or more; handling volume: 1 t/year or more)

23 NACHI Environmental Report 2025

PRTR Law (Class 1) 1,000 kg or more

Chromium and trivalent chromium

Manganese and its compounds

Molybdenum and its compound:

Cobalt and its compounds

## Efforts to prevent pollution

In addition to regulatory requirements, the Toyama Plant and the Higashi-Toyama Plant (Material Plant) have concluded an agreement on pollution prevention with Toyama City. These two plants set limits for wastewater, air, vibration and noise pollution that are equal to or stricter than the regulatory requirements, regularly monitor their emissions, and report the findings to Toyama City. The Namerikawa Plant has also concluded a comprehensive agreement on pollution prevention with Namerikawa City.

### Prevention of air pollution

# Sulfur oxide (SOx), nitrogen oxide (NOx), soot dust and other substances

Boilers and furnaces in factories generate sulfur oxide (SOx), nitrogen oxide (NOx), and soot dust. In addition to daily inspection of equipment, we periodically monitor and analyze the exhaust air to ensure that limits are not exceeded.

The Toyama Plant is a specified factory with exhaust gases of less than 40,000 m<sup>3</sup>/hour, and the Higashi-Toyama Plant (Material Plant) is a specified factory with exhaust gases of more than 40,000 m<sup>3</sup>/hour. The two plants do not have a specified facility for hazardous substances.

### Restrictions on volatile organic compounds (VOCs)

Some substances contained in paints, thinners, and cleaning oils are discharged into the air as VOCs.

Although we do not have a facility subject to regulatory restriction (100,000 m<sup>3</sup>/hour or more), we voluntarily measure VOC concentration at least once a year at our facilities that discharge VOC.

Additionally, since the coating process generates a significant amount of VOC emissions, we are actively working to reduce these emissions by exploring the use of water-based coating paints and switching thinners for cleaning to water-based cleaning solutions.

### Limit agreed with Toyama City

| Major mogeurement items | Toyam  | a Plant                | Higashi-Toyama Plant (Material Plant) |                        |                        |  |  |  |
|-------------------------|--|------------------------|---------------------------------------|------------------------|------------------------|--|--|--|
| Major measurement items | Liquid-combustion boiler   | Gas-combustion boiler  | Boiler                                | Electric furnace       | Heating furnace        |  |  |  |
| Sulfur oxide (SOx)      | According to the Atmospheric Environment Control Plan of Toyama Prefecture |                        |                                       |                        |                        |  |  |  |
| Nitrogen oxide (NOx)    | 180 ppm  | 100 ppm                | 130 ppm                               | -                      | 150 ppm                |  |  |  |
| Soot dust               | 0.15 g/Nm³   | 0.08 g/Nm <sup>3</sup> | 0.10 g/Nm <sup>3</sup>                | 0.10 g/Nm <sup>3</sup> | 0.20 g/Nm <sup>3</sup> |  |  |  |

In FY2023, we did not exceed the emissions standard.

### Prevention of water pollution

Both Toyama Plant and Higashi-Toyama Plant (Material Plant) are specified factories that discharge less than 10,000 m<sup>3</sup>/day of wastewater. The two plants have a specified facility for hazardous substances.

The primary environmentally hazardous substance contained in waste water is oil. In addition to control measures at the source, we collect and dispose of trace amounts of oil in wastewater using an oil-water separation tank and absorption mat. Other alkaline, iron-rich waste liquids are appropriately treated with neutralization and flocculation before discharging.

|  |              | Voluntary standard                          | Result (normal times)  |  |  |  |  |  |
|--|--------------|---|--|--|--|--|--|--|
| Major measurement items                                | Agreed limit | [Same for<br>Toyama and Higashi-<br>Toyama] | Toyama Plant<br>(Main gate north<br>drainage)<br>Approx. 7,000 m <sup>3</sup> /day | Higashi-Toyama Plant<br>(Material Plant)<br>Approx. 3,000 m³/day |  |  |  |  |
| Hydrogen-ion concentration (pH)                        | 6.0 to 8.0   | 6.8 to 7.8/6.5 to 7.8                       | 6.8 to 7.2   | 6.7 to 7.3   |  |  |  |  |
| Biological oxygen demand (BOD)                         | 20           | 16/10                                       | 1.4 to 13  | <0.5* to 2.3   |  |  |  |  |
| Suspended solids (SS)                                  | 50           | 25  | 1 to 4   | 2 to 7   |  |  |  |  |
| Normal hexane extracts content<br>(Mineral oils)       | 3            | 3/2.4                                       | 0.1 to 1.5   | 0.2 to 1.2   |  |  |  |  |
| Soluble iron content                                   | 3            | 0.9/1.5                                     | <0.1* to 0.4   | <0.1* to 0.4   |  |  |  |  |
| Chromium content                                       | 0.5          | 0.15  | <0.04*   | <0.04*   |  |  |  |  |
| Cyanogen compound (as cyanogen)<br>hazardous substance | 0.1          | 0.05  | <0.01*   | _  |  |  |  |  |

There were no deviations from the factory effluent standards in FY2024.

### Prevention of noise and vibration

Since the Toyama Plant and the Higashi-Toyama Plant (Material Plant) are situated near residential areas, we conduct regular monitoring of noise and vibration levels along the site boundaries and report the findings to Toyama City.

This measurement is not required by law.

At the Material Plant, in order to detect a sign that leads to abnormal noise during operation at night, regular voluntary noise measurement has continuously been made at fixed points within the premises since FY2018.

\* Agreed limit 1- Regulation value 1: Toyama Plant north side, Higashi-Toyama Plant (Material Plant) east, west and south sides; Regulation value 2: Toyama Plant east, west and south sides, Higashi-Toyama Plant (Material Plant) north side; There were no deviations from the noise and vibration standards in FY2024.

### Legal regulatory limit at the boundary line of the site

| Time zone           |                                  | Regulation value 1 | Regulation value 2 |
|---------------------|----------------------------------|--------------------|--------------------|
| Daytime             | 8:00 to 19:00                    | 70                 | 65                 |
| Morning and evening | 6:00 to 8:00 、<br>19:00 to 22:00 | 65                 | 60                 |
| Night-time          | 22:00 to 6:00 next day           | 60*                | 55                 |

\* Smaller than the detection limit

Mission 5

# Developing eco-conscious communities/human resources

### Received the 2024 MONODZUKURI Nihon Conference Co-Chair's Award of "CHO" MONODZUKURI Innovative Parts and Components Awards

The "CHO" MONODZUKURI Innovative Parts and Components Award is selected and presented by the Monodzukuri Nihon Conference and the Nikkan Kogyo Shimbun to support the enhancement of the competitiveness of Japanese manufacturing. The award recognizes components and parts that have been developed and commercialized by the applicant companies and that have contributed behind the scenes to the advancement of industry and society. This time, our Burrless Series received the 2024 MONODZUKURI Nihon Conference Co-Chair's Award of "CHO" MONODZUKURI Innovative Parts and Components Awards, which is presented by the Monodzukuri Nihon Conference and the Nikkan Kogyo Shimbun.

In general, during the cutting process in manufacturing, protrusions or residues known as burrs are formed along the edges of the cut parts. As burrs have a negative impact on product quality and precision, many users spend time and money removing them. To address this issue, we have integrated our accumulated technologies to commercialize the Burrless Series - challenging the long-held belief that burrs are an unavoidable byproduct of cutting and that deburring is an essential part of post-processing.

The Burrless Series offers a lineup of three tool types: drills, taps, and end mills. Each tool is uniquely engineered with a specialized configuration to minimize burr formation, resulting in significantly reduced burring. The Burrless Series has been widely praised for improving productivity across various industries - including automotive parts and industrial machinery - by significantly reducing deburring and burr inspection processes.



**Burrless Series** 

### **Received the NIPPON Brand Award of the Best 10 New Products Award**

Our energy-saving hydraulic unit with synchronous motor received the NIPPON Brand Award of the Best 10 New Products Award.

Our energy-saving hydraulic unit with synchronous motor, the NS Pack type-S, received the NIPPON Brand Award of the 2024 (67th) Best 10 New Products Award, selected by Nikkan Kogyo Shimbun. This marks the seventh consecutive year our company has received this award. Established in 1958, this award selects and honors products that have contributed to the advancement of the manufacturing industry and the enhancement of Japan's international competitiveness. It is presented to outstanding new products developed and commercialized by companies applying for the award each year. This year, from a total of 49 applications, 10 products received the Best 10 New Products Award, while three won the NIPPON Brand Award and two were selected for the MONODZUKURI Award.

At the award ceremony held on January 28th at the Keidanren Kaikan in Otemachi, Tokyo, Mr. Furuichi, Chief of the Hydraulics Equipment Division's Hydraulic Industrial Technology Department received a certificate and plaque from Mr. Imizu, President of the Nikkan Kogyo Shimbun.



## **Participation in Forestation Volunteer Activities**

On May 26 and June 9, 2024, the OISCA Toyama Branch organized the two-day Green Satoyama Conservation Forest Creation Activity 2024 in the Iwakuraji Tenbayashi district of Tateyama Town. Approximately 90 participants, including Boy Scouts and representatives from local companies, and 10 employees from Fujikoshi, took part in the event. This year marks the 8th anniversary of these activities, and many of the trees planted in the early years have grown significantly. Participants planted 150 pre-prepared seedlings, including cherry, konara oak, chestnut, beech, and other species.

Fujikoshi remains committed to volunteer activities that contribute to building a sustainable future.



## **Contribution to local environment**

With the aim of contributing to the local environment and raising awareness of environmental management, our employees participate in cleaning activities around our plants.



## **National Examination for Pollution Control Managers**

Designated factories are required to improve the layout of facilities that generate noise and/or vibration, and to monitor various environmental pollutants. This includes measuring wastewater and underground seepage pollution levels, the volume of soot and specified dust concentrations, as well as the quantity of exhaust gases and the levels of dioxins present in both exhaust emissions and wastewater. Additionally, entities must appoint a manager who holds a national certification.

While we currently meet the required number of certified personnel, we actively support employees who wish to obtain qualifications in order to address the growing age gap among existing certificate holders. In FY2024, five of our employees successfully passed certification exams, including Class 1 Pollution Control Manager (Air Quality) (2 people), Class 1 Pollution Control Manager (Water Quality) (1 person), Pollution Control Manager (Noise and Vibration) (1 person), and Pollution Control Manager (Dioxins) (1 person).



### TQC/TPM Promotion Headquarters (promotion of environmental improvement)

1-1-1 Fujikoshi-Honmachi, Toyama 930-8511 TEL.076-423-6573 FAX.076-456-2581