

TSUBAKI NAKASHIMA 2022



2022 has been a difficult year for Tsubaki Nakashima for both exogenous and endogenous reasons. In particular, the economic and political instability linked to the war in Ukraine exponentially increased energy costs, impacting business and market in general.

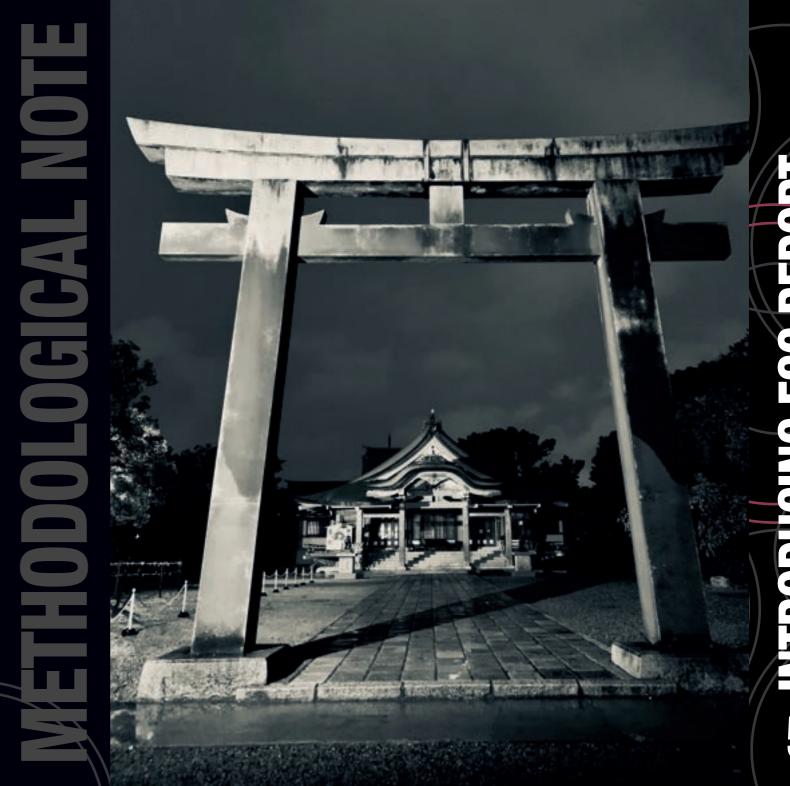
From the point of view of sustainability and of the sustainable development strategies decided by the company in 2021, the results have been seen: TSUBAKI NAKASHIMA HAS STRENGTHENED, **AWARENESS OF THESE ISSUES HAS INCREASED, AND MANY ACTIVITIES** HAVE BEEN UNDERTAKEN. In our Mid-Term Strategy, we outline a policy of enhancing our contribution to and engagement with the SDGs (Sustainable Development Goals) through business activities. This policy is an expression of our commitment. WEWILLCONTRIBUTE TO RESOLVING MAJOR SOCIAL **ISSUES** by promoting a decarbonized and recycling-based society, and by establishing a resilient value chain, including promoting sustainable raw materials procurement.

Achieving a decarbonized society is a long-term endeavor, but we also believe PROMOTING GHG (Greenhouse gas) REDUCTIONS WILL PRESENT NEW BUSINESS OPPORTUNITIES.

We will aggressively promote businesses that contribute to global GHG (Greenhouse gas) reductions. With this ESG Report based on the GRI Standard, Tsubaki Nakashima wants to both illustrate the decisions taken in 2021 and developed in 2022, that started to impact the company – last year and in the years to come-, the organizational structures and resources deployed, the main results achieved in the year 2022 and the targets both in the long term (Medium Term Plan 2021 – 2023) and referring to the year 2023.

INTRODUCING ESG REPORT

This Report embodies OUR AIM TO CONTINUE GROWING AS AN ENVIRONMENTALLY RESPONSIBLE AND ETHICALLY SOURCED BUSINESS, therefore reaffirming our commitment to transparency, sustainability, and good governance, particularly in matters of sustainable and profitable growth, attention to our Stakeholders, and the Vision Zero's Approach (Zero accidents, Zero occupational illnesses, Zero wastes, Zero inequalities, Zero lack of knowledge).



The Disclosure of Non-Financial Statement (hereinafter "Statement" or "ESG Report") complies with the GRI Standard (see below) and with the local laws and regulations concerning the disclosure of non-financial information.

GRI 2	General Disclosures 2021	GRI 3	Material Topics 2021	GRI 201	Economic Performance 2016
GRI 202	Market Presence 2016	GRI 203	Indirect Economic Impacts 2016	GRI 204	Procurement Practices 2016
GRI 205	Anti-corruption 2016	GRI 206	Anti-competitive Behavior 2016	GRI 207	Tax 2019
GRI 301	Materials 2016	GRI 302	Energy 2016	GRI 303	Water and Effluents 2018
GRI 304	Biodiversity 2016	GRI 305	Emissions 2016	GRI 306	Waste 2020
GRI 308	Supplier Enivornmental Assessment 2016	GRI 401	Employment 2016	GRI 402	Labor/Management Relations 2016
GRI 403	Occupational Health and Safety 2018	GRI 404	Training and Education 2016	GRI 405	Diversity and Equal Opportunity 2016
GRI 406	Non-discrimination 2016	GRI 407	Freedom of Association and Collective Bargaining 2016	GRI 408	Child Labor 2016
GRI 409	Forced or Compulsory Labor 2016	GRI 410	Security Practices 2016	GRI 411	Rights of Indigenous People 2016
GRI 413	Local Communities 2016	GRI 414	Supplier Social Assessment 2016	GRI 415	Public Policy 2016
GRI 416	Customer Health and Safety 2016	GRI 417	Marketing and Labeling 2016	GRI 418	Customer Privacy 2016

For Tsubaki Nakashima that Statement coincides with the ESG Report and represents the result of the commitment to notify its stakeholders of the performances and results achieved in general and in the sustainability area.

The Statement contains data and information referring to Tsubaki Nakashima Co. Ltd. and its subsidiaries as of December 31, 2022 (hereinafter "Tsubaki Nakashima" or "TN").

THE REPORT IS BASED ON A MULTI-STAKEHOLDER APPROACH involving the joint analysis of actions taken in respect of the main stakeholders with whom the Company interacts. For the details on the material topics, see the specific paragraphs.

The 2022 ESG Report, prepared annually over the calendar year, respects the same deadlines as the Annual Financial Report.

The Report has been prepared in accordance with the Sustainability Reporting Standards of the Global Reporting Initiative (GRI) (in accordance-comprehensive option).

The Sustainability Report is drawn up according to a system of indicators (KPI - Key Performance Indicators) which measure the company's performance and the degree of achievement of objectives previously established for areas in which the Company has major impact.

The KPIs are defined based on:

- THE ANALYSIS OF THE GRI, an international organization which develops universally applicable guidelines for drawing up sustainability reports.
- THE DEMANDS RECEIVED FROM STAKEHOLDERS.
- THE COMPANY HAS GAINED EXPERIENCE IN SUSTAINABILITY.

Tsubaki Nakashima MANUFACTURING COMPANY that operates on three continents (Asia, Europe and America) and is **STRONGLY COMMITTED** to serving its customers, creating a work environment in which its employees can feel motivated, respectful of available resources

and **ENVIRONMENT** which does its part every day to contribute to a truly sustainable future; this way of being and acting is fundamental to the success of our 20 PLANTS, in the countries and communities in which we operate.

We are a manufacturer of precision balls, rollers, ball screws

and blowers, very high precision components for the metrology sector but also of medical devices with regional production and procurement, short lead times and accurate, through a network of production and well-organized sale that meets the needs of our customers.





- 1. SUSTAINABILITY, as the simultaneous achievement of economic prosperity, creation of a healthy, safe, and low environmental impact, where everyone is equal, with equal rights and duties, equal opportunities. In our vision, zero impact, in a holistic sense, is fundamental: **VISION ZERO** for us is zero accidents, zero damage to people and environment, but also zero inequalities and zero lack of knowledge, which means equal opportunities for our employees.
- 2. THE HIGHEST QCDS (Quality, Cost, Delivery, and Service), to be the best-in-class, customer- and market-oriented ball manufacturer by continuously improving products, processes, and services.
- 3. ONE TEAM SPIRIT, which is the basis of our corporate culture, of our corporate identity.



- **4. TRANSFORMATION**, that is, being more and more a global company with an INTERNATIONAL MENTALITY every day, precisely by continuously transforming our organization to ALWAYS BE ONE STEP AHEAD, capable of seizing opportunities to be better, stronger, more aware. The armed branch of this transformation is the MONOZUKURI understood as a set of processes, which encompasses activities of thought, remodeling, organization, action, continuous improvement aimed at the creation of high-quality products.
- **5.** The orientation towards continuous **GROWTH**. in terms of commercial solidity and profit, to anticipate market needs, satisfy customer expectations, find new customers, new markets and new business opportunities. As Tsubaki Nakashima, we are aware of the **RESPONSIBILITY** we have towards the people who work for us and the world around us.



In every plant today we can boast **HIGH-LEVEL PROFESSIONALS** in the Safety, Environment and Energy fields. Our Sustainable Development Model, developed in 2021 and based on three fundamental pillars - **INTEGRATED GOVERNANCE SYSTEM**; **SUSTAINABLE MONOZUKURI**; **COMMUNICATION AND BRAND IDENTITY** - has begun to unfold all of its enormous potential in its true meaning and if on the one hand it has consolidated the foundations of Corporate Governance, on the other it has allowed us to set the cornerstones on which industrial and on processes.

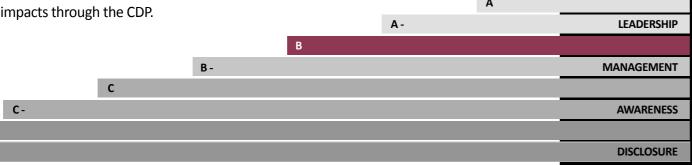
In January 2022 we defined the Carbon Footprint (based on Science Based Target Methodology), during the year we developed specific Energy efficiency projects; in autumn we identified the opportunities in terms of innovative technologies and energy purchasing and at the end of 2022 we developed a specific *Green Electricity* and *Waste recycling* Strategy, which will be applied in the next years.

An important element that measures the results achieved, in addition to the KPIs that we will see in this Report, is the company's decision to disclose our impacts on the environment and natural resources and take action to reduce negative impacts through the CDP.

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CDP IS A NOT-FOR-PROFIT CHARITY that runs the global disclosure system for companies to manage their environmental impacts. This project enables companies to progress towards ENVIRONMENTAL STEWARDSHIP through benchmarking and comparison with peers, in order to continuously improve their climate governance. Tsubaki Nakashima to certify and make its commitment to sustainability reliable and transparent joined CDP - Carbon Disclosure Project in 2022.

Tsubaki Nakashima obtained Level B for the "Climate Change" category, which, in addition to being the third level of eight, is also higher than the Asia regional average of C, and higher than the Metal products manufacturing sector average of C. Tsubaki Nakashima obtained a high score regarding:

- BUSINESS STRATEGY, FINANCIAL PLANNING
- & SCENARIO ANALYSIS
- TARGETS ■ GOVERNANCE

This means that the sustainability strategy has been set up correctly and is strong and reliable. Instead, the areas where Tsubaki Nakashima needs to improve are data collection and calculation of indirect Scope 3 emissions and the area related to green energy.

For both of these weaknesses, Tsubaki Nakashima has already started the **PROCESS OF IMPROVEMENT**; in fact, it is analyzing the CO² emissions of raw material suppliers and is analyzing the strategy for purchasing green energy and planning to install photovoltaic systems at its plants.

Scoring at CDP is MISSION-DRIVEN, FOCUSING ON CDP'S PRINCIPLES AND VALUES for a sustainable economy, and highlighting the business case to do this. The scoring represents the steps a company moves through as it progresses towards environmental stewardship, and they are:

- DISCLOSURE
- AWARENESS
- MANAGEMENT
- **LEADERSHIP.**

This tells us that we are on the right track and how much effort we will put into achieving excellence. We believe that transparency, openness, and risk management, as well as the efforts we are making to transform our Company will allow us to be stronger, to protect and improve our company's reputation, boost our competitive advantage, uncover risks and opportunities, and track and benchmark progress.



MISSION "THE WHY"

+ "THE WHAT"

MANAGEMENT PRINCIPLES "THE HOW"

TN POLICY"ACTION"



TRUST OF OUR
STAKEHOLDERS
GROWING AND THRIVING
WITHIN OUR
COMMUNITIES
AND HELPING TO
CREATE
A MORE SUSTAINABLE
WORLD

OUR VISION

PROFITABLE AND SUSTAINABLE GROWTH WITH AN UNWAVERING COMMITMENT TO IMPROVEMENT, PRODUCT AND CREATING EXCELLENCE SHAREHOLDER VALUE WITH AN INCREASING DEDICATION TO SUSTAINABILITY WITHIN ITS LEADERSHIP, OPERATIONS, EMPLOYEES AND INVESTMENTS.

We will **TRANSFORM** our Company on a **CONTINUOUS** basis to make the best products in the world, in a **SUSTAINABLE WAY**.

We aim to become a **TRULY GLOBAL COMPANY** with an international mindset, deeply **TRANSFORMING** our organization to stay one step ahead of the curve.

We aim to be a Company that continues to achieve **SUSTAINABLE AND PROFITABLE GROWTH.**

We will create a team worldoriented culture - ONE TEAM SPIRIT - convinced that the VALUE of our people is the sum of their COMPETENCES, HUMILITY AND ABILITY to achieve results, with POSITIVE ATTITUDE. With our creativity we will **PROVIDE OUR CUSTOMERS WITH HIGHEST QCDS** (quality, cost, delivery, service), drawing ideas from our stakeholders.

PROFITABLE AND SUSTAINABLE VALUEOPERATIONAL EXCELLENCE

GROWTH

GLOBAL REACH, LOCAL DEPTH
MONOZUKURI
ORGANIZATIONAL REMODELING

TRANSFORMATION

SUSTAINABILITY

COMPLIANCEVISION ZERO

QCDS

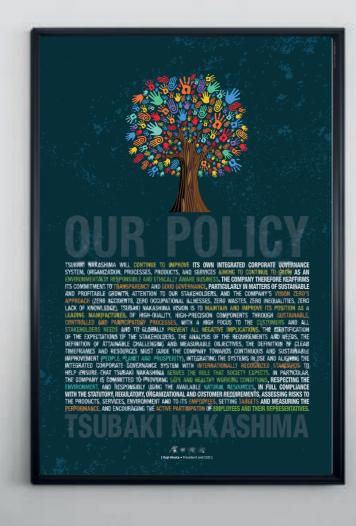
■ MARKET ORIENTED

CONTINUOUS IMPROVEMENT

TN CULTURE

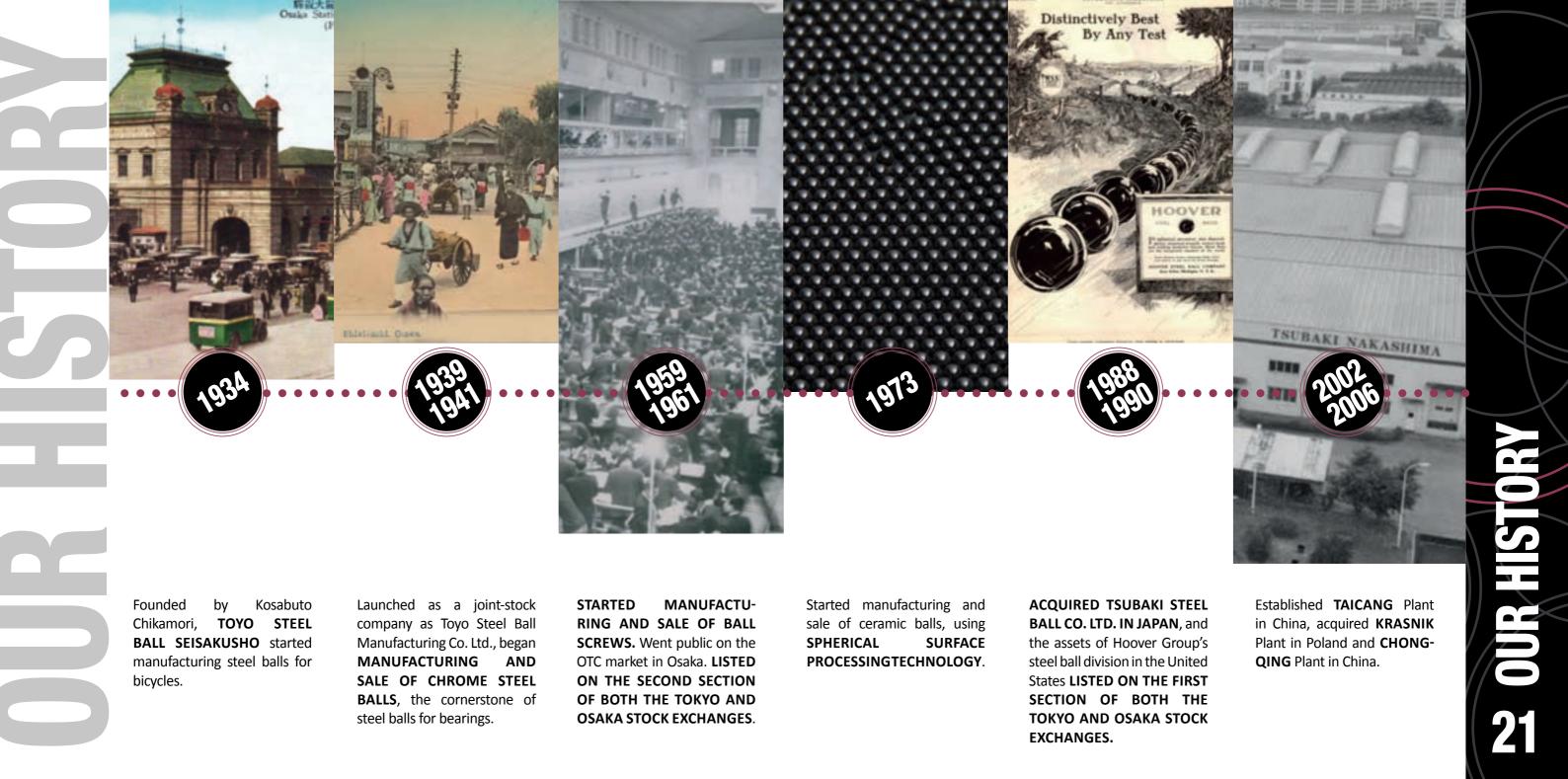
V = [C²+H+A] x A

ONE TEAM



Tsubaki Nakashima Policy represents the actions we'll take to ensure our Vision, Mission and Management Principles are executed: aligned around People, Planet and Prosperity, we'll continue to measure our performance and improve all aspects of what we do.

TSUBAKI NAKASHIMA WILL CONTINUE TO IMPROVE ITS OWN INTEGRATED CORPORATE GOVERNANCE SYSTEM, ORGANIZATION, PROCESSES, PRODUCTS, AND SERVICES AIMING TO CONTINUE TO GROW AS AN ENVIRONMENTALLY RESPONSIBLE AND ETHICALLY AWARE BUSINESS. THE COMPANY THEREFORE REAFFIRMS ITS COMMITMENT TO TRANSPARENCY AND GOOD GOVERNANCE, PARTICULARLY IN MATTERS OF SUSTAINABLE AND PROFITABLE GROWTH, ATTENTION TO OUR STAKEHOLDERS, AND THE COMPANY'S VISION ZERO'S APPROACH (ZERO ACCIDENTS, ZERO OCCUPATIONAL ILLNESSES, ZERO WASTES, ZERO INEQUALITIES, ZERO LACK OF KNOWLEDGE). TSUBAKI NAKASHIMA VISION IS TO MAINTAIN AND IMPROVE ITS POSITION AS A LEADING MANUFACTURER OF HIGH-QUALITY, HIGH-PRECISION COMPONENTS THROUGH SUSTAINABLE CONTROLLED AND PARTICIPATORY PROCESSES, WITH A HIGH FOCUS TO THE CUSTOMERS AND ALL STAKEHOLDERS NEEDS AND TO GLOBALLY PREVENT ALL NEGATIVE IMPLICATIONS. THE IDENTIFICATION OF THE EXPECTATIONS OF THE STAKEHOLDERS, THE ANALYSIS OF THE REQUIREMENTS AND NEEDS, THE DEFINITION OF ATTAINABLE CHALLENGING AND MEASURABLE OBJECTIVES, THE DEFINITION OF CLEAF TIMEFRAMES AND RESOURCES MUST GUIDE THE COMPANY TOWARDS CONTINUOUS AND SUSTAINABLE IMPROVEMENT (PEOPLE, PLANET AND PROSPERITY), INTEGRATING THE SYSTEMS IN USE AND ALIGNING THE INTEGRATED CORPORATE GOVERNANCE SYSTEM WITH INTERNATIONALLY RECOGNIZED STANDARDS TO HELP ENSURE THAT TSUBAKI NAKASHIMA SERVES THE ROLE THAT SOCIETY EXPECTS. IN PARTICULAR THE COMPANY IS COMMITTED TO PROVIDING SAFE AND HEALTHY WORKING CONDITIONS, RESPECTING THE ENVIRONMENT, AND RESPONSIBLY USING THE AVAILABLE NATURAL RESOURCES, IN FULL COMPLIANCE WITH THE STATUTORY, REGULATORY, ORGANIZATIONAL AND CUSTOMER REQUIREMENTS, ASSESSING RISKS TO THE PRODUCTS, SERVICES, ENVIRONMENT AND TO ITS EMPLOYEES, SETTING TARGETS AND MEASURING THE PERFORMANCE, AND ENCOURAGING THE ACTIVE PARTICIPATON OF EMPLOYEES AND THEIR REPRESENTATIVES.













Established TAIWAN Plant, INDIA Plant and acquired UNITED KINGDOM Plant and THAILAND Plant.

Opened OSAKA OFFICE as a group headquarter in Japan.
Established KOREA
DISTRIBUTION CENTER.
Re-listed on the first section of the Tokyo Stock Exchange.

ACQUIRED PRECISION
BEARING COMPONENTS GROUP OF NN INC. (7
PLANTS).

Released SUSTAINABILITY REPORT (current ESG - ENVI-RONMENT SOCIAL GOVER-NANCE - REPORT) for the first time. CERTIFIED IATF 16949.
ESTABLISHED A SUSTAINABILITY COMMITTEE to
become a sustainable and
profitable company.

Transferred to the PRIME MARKET OF TOKYO STOCK EXCHANGE and obtained the FIRST CDP (CARBON DISCLOSURE PROJECT) SCORE.

COMPANY PRESENTATION

Tsubaki Nakashima is a global Company producing a broad range of HIGH-QUALITY INDUSTRIAL PRECISION BALLS, ROLLERS, CAGES, AND SHEET METAL PARTS used for bearing and other applications.

Tsubaki Nakashima is a known brand in MEDICAL AND HYGIENE EQUIPMENT AND CERAMIC BUSINESS, as well as the Japan's first manufacturer of ball screws for general industrial use, where the products are used in industrial machines, electric injection molding machines, semiconductor manufacturing equipment, industrial robots, and advanced medical equipment.

We strive to constantly increase the quality of our products and achieve zero defects. In refining our manufacturing processes, we have developed in-house both proprietary grinding machines to achieve sphericity and our own inspection machines to ensure consistent quality for our customers.

COMPANY STRUCTURE

Tsubaki Nakashima Co. Ltd. is headquartered in Katsuragi, Nara - Japan, with offices in Osaka, Singapore, and 20 PLANTS IN 12 COUNTRIES: Japan, Italy, Poland, Slovakia, The Netherlands, United Kingdom, Bosnia, China, Thailand, India, Taiwan, and United States. This enables Tsubaki Nakashima to respond to various Customer needs, local procurement, quick delivery, and superior Customer support.

The following are **SOME KEY FACTS ABOUT THE COMPANY**:

COMPANY NAME

STOCK EXCHANGE

TOTAL NUMBER
OF ISSUED SHARES
AT THE END OF
THE PERIOD
(INCLUDING TREASURY
SHARES)

TSUBAKI NAKASHIMA CO., LTD.

TOKIO STOCK EXCHANGE PRIME MARKET

DECEMBER 31, 2022: 41.599.600 SHARES

CODE NUMBER

6464

URL HTTPS://WWW.TSUBAKI-NAKASHIMA.COM/JP

REPRESENTATIVE

KOJI HIROTA, DIRECTOR AND REPRESENTATIVE EXECUTIVE OFFICER, CEO

CONTACT

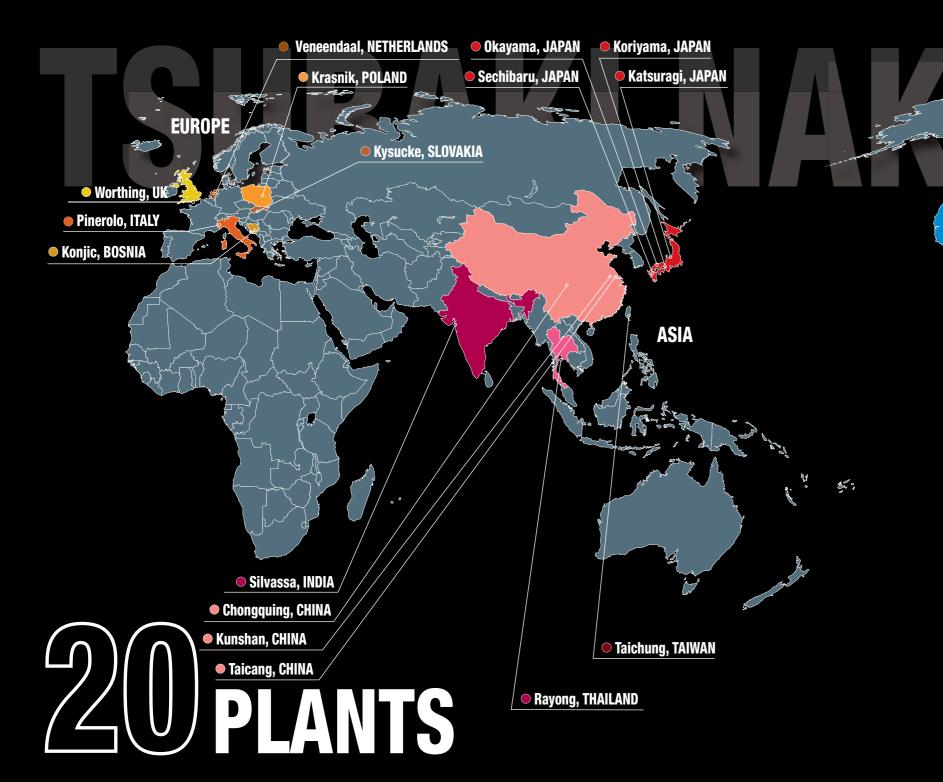
HISASHI TATE,
DIRECTOR
AND EXECUTIVE OFFICER,
SENIOR EVP, CFO

The Company's corporate structure is made up of a high-level company organized by a Board of Directors made up of 7 members and a Management Committee made up of 6 members.

PRESENCE

PLANTS

Tsubaki Nakashima Co. Ltd. is headquartered in Nara, Japan, with offices in Osaka, Singapore, Seoul and 20 plants in 12 Countries: Japan, United States, Italy, Poland, Slovakia, The Netherlands, United Kingdom, Bosnia, China, Thailand, India and Taiwan. This enables Tsubaki Nakashima to respond to various customer needs, local procurement, quick delivery, and superior customer support.



Sault St. Marie - MI, USA
NORTH AMERICA

- Erwin TN, USA
- Mountain City TN, USA
- Cumming GA, USA

GLOBAL PRESENCE

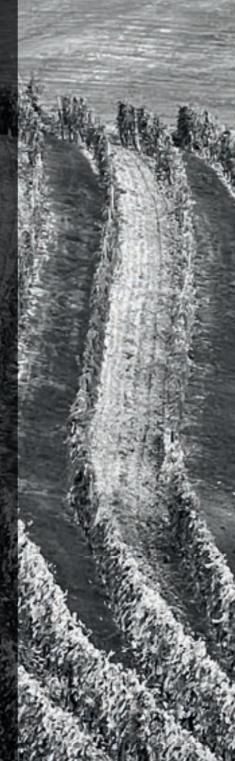
THE COMPANY ORGANIZATION CHART (2023) AND ORGANIZATIONAL CONCEPT

Tsubaki Nakashima's Mid-Term Strategy –2021–2023- bears two important words, TRANSFORM NEXT, signifying the company's commitment to a continuous process of sustainable transformation and rationalization. For this reason, in 2022 and for the year to come, the last of the Mid-Term Strategy, our energies will focus on:

Accelerating the **GROWTH**, strengthening the earning power of our Regions, and investing in Global Ceramic Business and Medical Device Business. Growth means Profit generation, Sales, Marketing, Business Development, new Geographical areas, Investments and People.

TRANSFORMING the Company in a sustainable way, executing our strategic projects, reforming our business, significantly improving the chances of a successful transformation, focusing on bringing about changeandoperating to deliver transformation programs, sustainable infrastructures, technologies and methodologies, business reform and transformational leadership.

Developing and streamlining of Planning & Promotion Structure for MANAGEMENT CONTROL, M&A, PEOPLE MANAGEMENT to drive sustainable strategies.



PRECISION STEEL BALLS 65%

PRECISION CERAMIC BALLS 12%

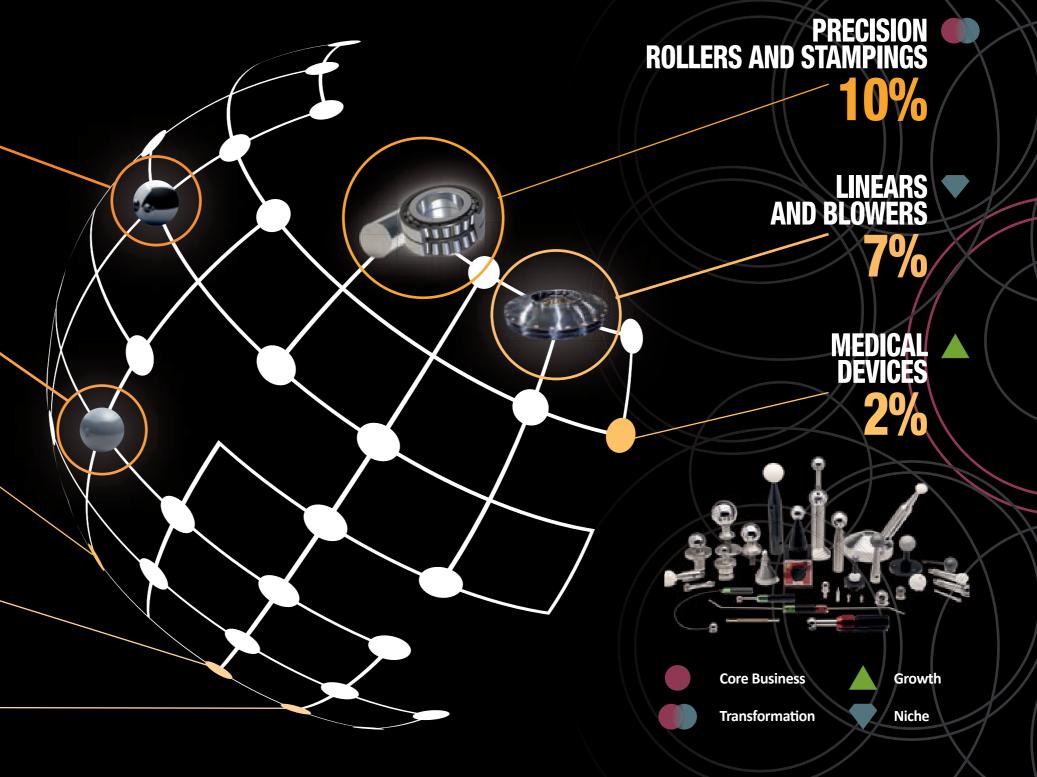
PLASTIC BALLS 2%

SPECIALLY MANUFACTURED PRODUCTS

1%

BALL RELATED PRODUCTS

1%







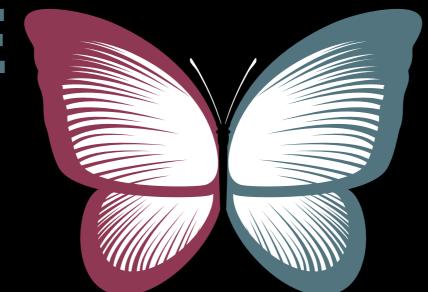




SCANIA

711

NEXT TN'S VALUE



CREATION FRAMEWORK





HIGHEST QUALITY AND WIDEST PRODUCT LINEUP ACCUMULATION OF PRODUCTION KNOW-HOW BY IN-HOUSE EQUIPMENT

SYNERGY GENERATION BY GLOBAL ONE MANAGEMENT TEAM



STRONGEST GLOBAL FOOTPRINT FOR LOCAL PROCUREMENT AND LOCAL SALES STABLE
PERFORMANCE
WITH STRONG
CUSTOMER
RELATIONSHIP

OUTSTANDING POSITION

STABLE AND STRONG CASH FLOW GENERATION

IN A NICHE MARKET ROBUST SHAREHOLDER POLICY

49

A STRATEGY 2021/2023

STRATEGY POLICY



GROWTH STRATEGY

EXPANSION OF CERAMIC BUSINESS

MORE FOCUS
ON ELECTRICAL
VEHICLES
AND WIND ENERGY



EXPANSION AND GLOBAL DEVELOPMENT OF MEDICAL DEVICE BUSINESS



EXPANSION OF STRENGTHENING IN ASIAN MARKETS





ONE TEAM
MANAGEMENT
SYSTEM
(INTEGRATED)



VISION ZERO Approach

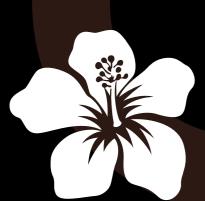


TRANSFORMATION AND SUSTAINABLE PROJECTS IN MONOZUKURI, THROUGH RESPONSIBLE USE OF ENERGY, SLUDGE RECYCLING, IMPROVEMENT OF MATERIAL YIELD, AND ERGONOMICS

ENVIRONMENT SOCIAL & GOVERNANCE STRATEGY









- QUALITY **MANAGEMENT SYSTEM**
- SUSTAINABLE DEVELOPMENT **PROJECTS**

TN ACADEMY **SUSTAINABILITY SAFETY AND HEALTH**

RISK ASSESSMENT = **AND EHS INSPECTIONS TOOLKITS**



RENEWED HR PROCESSES

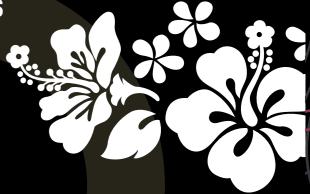
INTEGRATED = **CORPORATE GOVERNANCE**

RISK MANAGEMENT COMMITTEE

> **SUSTAINABILITY** COMMITTEE









TAILLY HEOR GROWTH STRATEGIES

- THE GROWTH
 OF CERAMIC BUSINESS
- EXPANSION OF SALES IN MEDICAL DEVICE BUSINESS
- EXPANSION OF ASIAN MARKETS

SACES GROWTH AND PRECISE STRATEGY TO OFFSET THE INFLATION AND ENERGY COSTS INCREASED

BUILDING A FOUNDATION FOR THE FUTURE

- RESTRUCTURING OF
 EUROPEAN ROLLERS BUSINESS
 (WITHDRAWAL THE ROLLER BUSINESS
 FROM THE NETHERLANDS)
- FOR INDIA'S SECOND PLANT COMPLETED
- MAJOR EXPANSION OF CERAMIC BALL SUPPLY CAPACITY TO SUPPORT RAPID PROGRESS IN EV, MAJOR EXPANSION OF PRODUCTION CAPACITY IN THAILAND, SECURING OF RAW MATERIALS AND DIVERSIFICATION OF SOURCING
- MONOZUKURI INNOVATION
 AT MOTHER FACTORY (KATSURAGI, JAPAN)

SHAREHOLDER'S RETURN

PERSISTENCE
OF DIVIDEND POLICY:
AIMING FOR
AN ANNUAL DIVIDEND
OF ¥ 30 PER SHARE



The QUALITY AND CENTRAL LAB FUNCTION is a fundamental element for achieving the strategic objective of becoming the best manufacturer of balls, through the tool of the Quality Management System (QMS) and through the activities aimed at eliminating or minimizing the risks for our Customers.

GOALS AND OBJECTIVES

QMS IMPLEMENTATION, implementing everywhere the basic procedures in order to mitigate Customer risks.

AUDITING SYSTEM exented in every plant worldwide, giving the guidelines for a consistent monitoring of our day-by-day process control.

QUALITY DEPARTMENT focused on special processes, working together with the Engineering Team in controlling and improving the harmonization in Heading, Heat Tretment, Peening, Scanning.

OTHER KEYS ACTIVITIES

- Define internal STANDARD ROLLING ELEMENT CLASS, for different application.
- Continue the **BENCHMARKING ACTIVITIES** on Steel sources and High-Quality Balls.
- Extend the use of **RISK MANAGEMENT PROCESS**.
- Feasibility process and Engineering Change extended use; support to extend the use of **RFQ AND ECR** processes and awareness of **CUSTOMER STANDARDS**.
- Global **CUSTOMER FOCUS**.
- Global ZERO CUSTOMER COMPLAINTS VISION; extend use of customer complaints and 8 D report data base; measure the reaction performance and share the TN plant ranking of NCC/NPC; support the TN plants on customers discussions and opportunities of improvements.
- Support the organization to implement appropriate governance system of **SUSTAINABILITY**.



OTHER KEY ACTIVITIES

- Analysis and benchmark to **IMPROVE OUR QUALITY**.
- TN EXPANSION PROJECTS supporting the new plants / projects in Quality excellence development.
- TN / SKF INNOVATION PROJECT.



- SCHÄFFLER IOX PROJECT; Support the cooperation Project started with customer; Quality and Laboratories as opportunity activities with Customer.
- To complete and edit the FEASIBILITY STUDY FOR AEROSPACE PLANT for rolling elements
- Support the TN Academy— Quality basic tools, QMS requirements, Customer needs/applications
- **GLOBAL QUALITY WORKSHOPS** meeting.
- Central Laboratory support activities.

OTHER KEY ACTIVITIES

GLOBAL LABORATORY SUPPORT ACTIVITIES

2022 MAIN TASKS

- IMPROVE ONE TEAM CULTURE inside the TN Central Lab.
- Continue support the Technical Mid-Term Strategy Transform Next 2023 in:
 - Process and Product Development
 - New suppliers / materials homologation
 - New NDT method for Ceramic
- Support sales exploration on new market opportunities and engineering on process/products innovation.
- Continue to provide **TECHNICAL GUIDANCE AND ACTIVITIES** for supporting the:
 - analysis and tests, root causes on internal products/processes issues, assessment of new opportunities and validate innovative products/processes solution, improve the knowledge and imagine of the company trough training, coaching and technical events with Universities collaboration (as sources of new talents).



2022 CENTRAL LAB PERFORMANCE

ITALY Unit KPIc (Analysis & Testing)

ITALY Unit KPIs (OTD+Efficacy)

JAPAN Unit KPIc (Analysis & Testing)

JAPAN Unit KPIs (OTD+Efficacy) **≤ 590 €/NR**

≥ 92%

 \leq 77.894 \times /NR

≥ 93%

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Tsubaki Nakashima seeks to contribute to the achievement of a sustainable society through its business activities and thereby become an indispensable company. For this reason, WE ENDORSE AND TAKE PART IN NUMEROUS INTERNATIONAL CONGRESSES AND MEETING to share what we are doing and to learn from others.













2022中国国际轴承及其专用装备展览会 2022 CHINA INTERNATIONAL BEARING INDUSTRY EXHIBITION リ**ヺ:**ハロル い**ピ**74リ/4/ 2022 CHINA INTERNATIONAL BEARING INDUSTRY EXHIBITION

It has been held in National Exhibition and Convention Center (Shanghai) from December 8 to 11, 2022. Covering an area of 55.000 sqm. During the exhibition, Shanghai International Bearing Summit Forum, the connection between production and demand, and a series of technical seminars will be held accordingly. Discuss about the development trend of bearings market and case studies.

MESSE DUSSELDORF 2022



PRESENTING OUR MEDICAL DEVICE BUSINESS





JASIS 2022

(the initials of JASIS = Japan Analytical & Scientific Instruments Show) is the cutting-edge scientific instruments, analytical system & solution exhibition which will support the advances of science, analytical instruments and scientific equipment makers. As Asia's largest exhibition in this field, we will further strengthen collaboration with various leading industries and related organizations worldwide, to contribute to the advancement of science in the future and to find a place for business development.

BEARING WORLD

Würzburg, Germany International Conference 2022 FVA: Noise and process improvement





ASTM - BEARING AND TRANSMISSION STEEL TECHHOLOGY SYMPOSIUM

New Orleans, USA

Processional slip and micro inclusion effect on fatigue life of bearing rolling element.

Simulating and validating the effect of distributed manufacturing surface defects.

Experimental and statistical study on the noise contribution Processional slip and micro inclusion effect on fatigue life of bearing rolling element

Andrea Uva and Maria Anna Bafaro, Central Laboratory





INTERNATIONAL FOUNDATION FOR THE ORGANIZATIONAL RISK PREVENTION

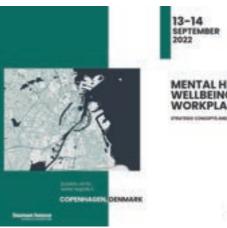
Annual ORP Congress, Cartagena de India, Colombia 2022 - Franco Dutto 3000 participants, the most important event in Latin America about Safety, Health, and Wellbeing





INTERNATIONAL SOCIAL SECURITY ASSOCIATION (ISSA) GLOBAL VISION ZERO BUSINESS COUNCIL

Vision Zero Summit Japan 2022 Dates: 11-13 May 2022 Theme: Redefining Safety, Health and Well-being for the New Normal – Franco Dutto



MENTAL HEALTH AND WELLBEING AT THE WORKPLACE

DENMARK 2022 Mental health and wellbeing at workplace Franco Dutto

VISION ZERO

MEMBERSHIPS



ASSOCIAZIONE PICCOLE IMPRESE, TORINO

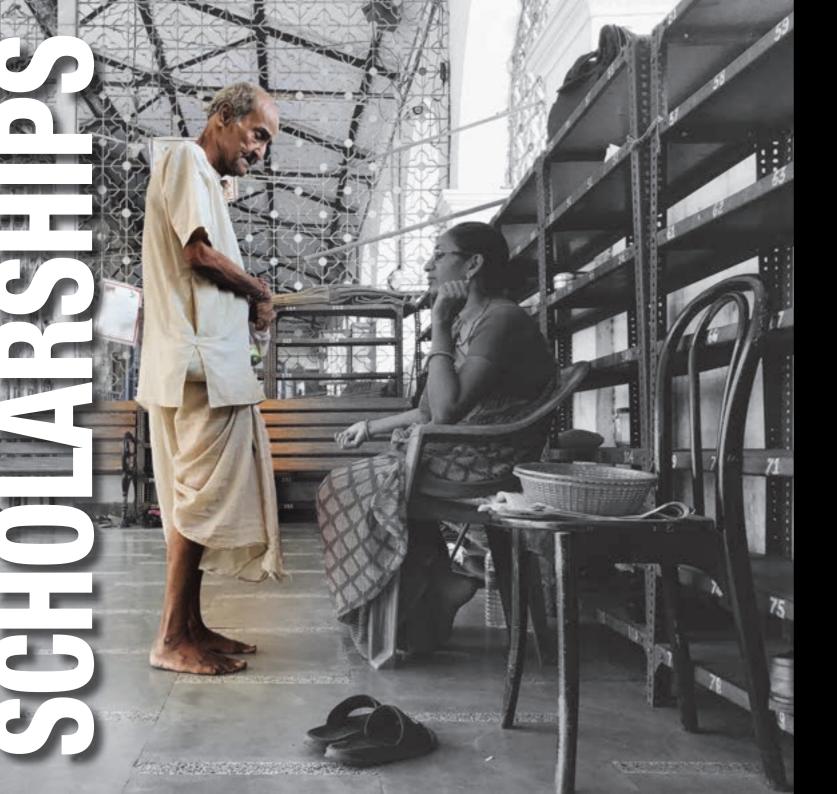


Franco Dutto is a member of their Councils





ABMA - AMERICAN BEARING Evelise Faro is a Board Member



RELATIONS WITH SCHOOLS AND UNIVERSITIES: SCHOLARSHIPS AND TRAINING INTERNSHIPS

For many decades Tsubaki Nakashima, in its various local offices, has developed a **PROFOUND RELATIONSHIP WITH THE TERRITORY**, and in particular with schools of all levels and universities, giving not only the possibility to students to visit factories and with our employees, but above all to carry out training internships, experiencing in the field what it means to operate in an organized reality. Time spent as high school, college, and PhD students is rewarded with scholarships or expense reimbursements that allow students to feel valued for their contributions and treated with respect in an inclusive manner.

The number of students hosted each year is many hundreds.



Bosnia / Herzegovina [above] Elementary school visiting Katsuragi, Japan [below]



SUSTAINABILITY as the simultaneous achievement of **ECONOMIC PROSPERITY** (for instance, growth and profit), the creation of a HEALTHY, SAFE AND LOW ENVIRONMENTAL IMPACT environment, where everyone is EQUAL, with equal rights and duties, equal opportunities.

Then, the attitude, the results and the merit will make the difference. But to do it, we needed a lighthouse and most of the 17 UNITED NATIONS **SUSTAINABILITY DEVELOPMENT GOALS** are perfectly fit for that.

PLANET CONSERVATION PROSPERITY PHILOSOPHY ENVIRONMENTAL ISSUES ECONOMICAL ISSUES **SUSTAINABILITY** LAND MORAL ETHIC **ECONOMY PEOPLE SOCIAL ISSUES**

TARGETS AND KPIS

SYSTEMS

In Tsubaki Nakashima we started from the MANAGERIAL STATEMENTS, from the construction of conceptual pillars, on which to base the HIGH-LEVEL POLICIES AND PROCEDURES (One Team Management System, base of the Corporate Governance), real guidelines for all our plants around the world.

But also, to make available SYSTEMS, based on ISO STANDARDS (Quality, Environment, Health and Safety, Energy, Ethics), which would allow a disciplined and standardized management.

Lastly, the MEASUREMENT OF **PERFORMANCES** which presupposes the identification of functional objectives for the achievement of the sustainability targets.

STATEMENT

POLICIES

OPERATIONS STRATEGY **CODE OF BUSINESS ETHICS CORPORATE GOVERNANCE POLICIES** FINANCE AND ACCOUNTING **PROCEDURES** IT PROCEDURES **QUALITY MANAGEMENT SYSTEM**

GLOBAL SUSTAINABILITY SYSTEM

CODE OF BUSINESS ETHICS

- MANUAL OF COMPLIANCE
- CODE OF BUSINESS ETHICS
- NON-RETALIATION POLICY WHISTLE-BLOWER
- **CONFLICT OF INTEREST**
- **DATA PROTECTION**
- TRACKING REGULATIONS
- PROTECT WELL-BEING
- CREATE POSITIVE RELATIONSHIPS
- LABOR STANDARDS
- CHILD LABOR
- NONDISCRIMINATION AND EQUAL OPPORTUNITIES
- INCLUSION AND DIVERSITY
- ASSOCIATION, BARGAINING, WORK ORGANIZATION
- TSUBAKI NAKASHIMA AWARDS
- GOALS AND OBJECTIVES PERFORMANCE EVALUATION
- GOAL AND GAIN SHARING PROGRAM
- BONUS SYSTEM, ACCRUALS AND RELEASE OF ACCRUALS
- ONBOARDING POLICY
- BLOGGING AND SOCIAL MEDIA EMAILING AND INTERNET POLICY
- TRAVEL POLICY
- GLOBAL MOBILITY PROGRAM
- COVID-19 GUIDELINES BASED ON ISO 45005-2021
- CLIMATE CHANGE AND GHG EMISSIONS
- EDUCATIONAL ASSISTANCE PROGRAM
- COMPANY CARS EU SUSTAINABILITY



CORPORATE GOVERNANCE 2022

Tsubaki Nakashima has adopted a MANUAL OF COMPLIANCE, CODE OF BUSINESS ETHICS AND RELATED POLICIES addressed to all those who have employment, collaboration, consultancy, or other relationships with the Company.

The Manual of Compliance, Code of Business Ethics and related policies dictates the rules of correctness and transparency that distinguish the company's work and is based on a series of principles with values, which are then declined within the code:

HEALTH SAFETY AT WORK, ENVIRONMENTAL PROTECTION, RESPONSIBLE USE OF NATURAL RESOURCES

(THROUGH THE GLOBAL SUSTAINABILITY SYSTEM)

ACCOUNTING ACCURACY

CONFIDENTIAL AND RELEVANT

PROTECTION OF PERSONAL DATA

PERSONNEL POLICIES AND LABOR STANDARDS

(I.E., EQUAL OPPORTUNITIES, INCLUSION AND DIVERSITY, FREEDOM OF ASSOCIATION, CHILD LABOR)

SOCIAL POLICIES ((I.E., GOAL AND GAINSHARING

RELATIONS WITH SUPPLIERS AND INTERLOCUTORS OF THE COMPANY

RELATIONS WITH AUTHORITIES AND COMMUNITIES

ORGANIZATIONAL MODEL AND SUPERVISORY BODIES

REPORTING IN CASE OF VIOLATIONS OF THE PROVISIONS OF THE CODE

TRANSPARENCY AND COMPLETENESS



To conduct business and grow on a global scale, the Group is working to strengthen its highly transparent and objective Integrated Corporate Governance System. In addition, we have established a Management system with a sense of unity by realizing a group company management function with efficiency and expertise.

CORPORATE GOVERNANCE SYSTEM consists of the Board of Directors, Nomination Committee, Compensation Committee, and Audit Committee as bodies. Management supervisory Committee, Sustainability Committee and Risk Management Committee are business execution bodies. We have adopted the organizational design of a company with a nominating committee, etc., because we believe that the separation of supervision and execution is a means of enhancing corporate value by strengthening the supervisory function and ensuring prompt management.

The **BOARD OF DIRECTORS**, consisting of 7 Directors (including four outside Directors), makes decisions on basic management policies and supervises the execution of business by the Executive Officers. Each of the outside Directors has his or her own area of expertise and based on their extensive experience and wide range of knowledge, they provide advice and exchange opinions on management, thereby fulfilling the supervisory function.

The **NOMINATION COMMITTEE** consists of two outside Directors (including the Chairman) and one inside Director, and most of the committee

members are outside Directors to ensure the appropriateness of nominations. The Nomination Committee decides the details of proposals for the election and dismissal of Directors.

The **COMPENSATION COMMITTEE** consists of two outside Directors (including the Chairman) and one inside Director and has a system to ensure the appropriateness of remuneration; it determines the basic policy on remuneration, etc. for Directors and Executive Officers and the amount of remuneration for everyone.

The AUDIT COMMITTEE is composed of three outside Directors, each of whom has a different area of expertise, and is appointed based on the belief that audits from various perspectives are possible. The Audit Committee audits and supervises the execution of business by the Directors and Executive Officers and decides on the content of proposals for the appointment and dismissal of the accounting Auditor to be submitted to the General Meeting of Shareholders. In addition, we have established a system in which a full-time assistant to the Audit Committee assists the Audit Committee.

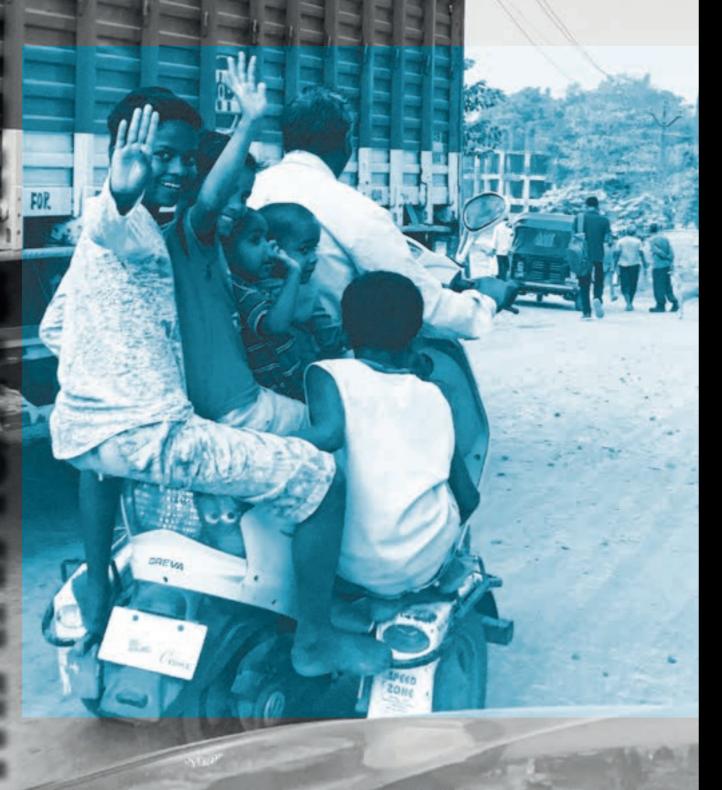


COMPLIANCE PROMOTION SYSTEM

Under the supervision of the President and Representative Executive Officer, who is in charge of overall management, compliance is promoted mainly by the Executive Officer in charge of HR, Compliance & Sustainability (CHRO)

In addition, an Internal Audit Office has been established directly under the President and Representative Director to conduct internal audits and confirm the status of compliance. In addition, an assistant to the Audit Committee been has established under the direct supervision of the Audit Committee to audit the compliance status of directors and other officers.

The Internal Audit Office, the Audit Committee assistant, and the accounting auditor share information as necessary to strengthen cooperation.



RISK MANAGEMENT PROCESS AND COMMITTEE

The main goals considered for the Risk Management process and Committee (RMC) are:

To provide to Management
Committee timely and transparent
notice of significant issues

To ensure fair and well considered handling of Customer claims and/or other relevant internal issues, minimizing potential impacts

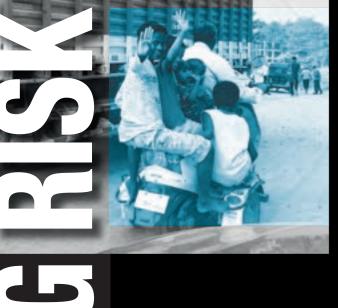
To grow the (risk) consciousness of the entire Organization

The Risk Management process is a tool to manage the high potential future risk in advance.

In case the case happened already without alert and then the "risk probability" is 100% (because it has already) this process shall be used to analyze its connected impacts managing and minimizing the related future consequences.

In case this case will have no connected consequences, It's a fact and TN management shall follow the regular business flow process to manage and to negotiate the specific outcome.

WE

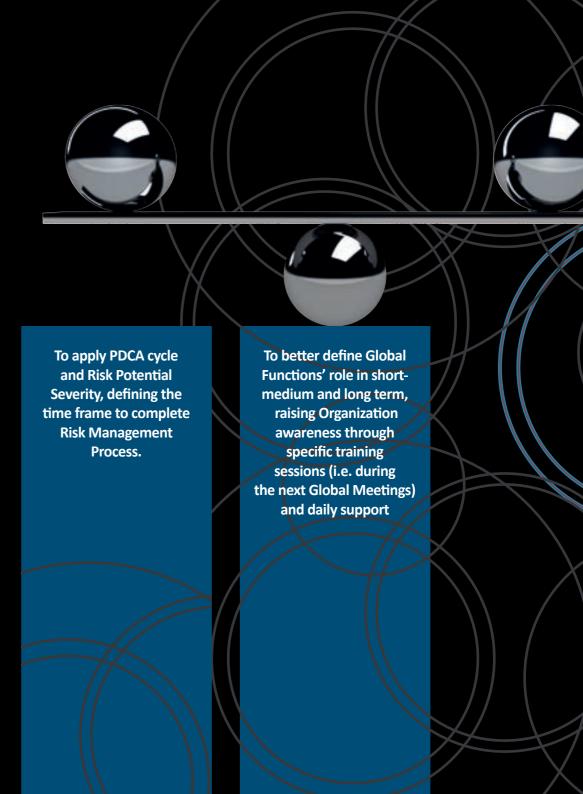


MAIN PILLARS OF RISK MANAGEMENT PROCESS ARE:

RISK MANAGEMENT APPROACH IS APPLICABLE TO ALL **POTENTIAL ISSUES** CONNECTED to each aspect of the business (Operations, Quality, Purchasing, Sustainability, Tax, etc); P.e. customer claims/ alerts, warranty field returns, internal waste value, internal defect analysis, supplier quality performance, internal or external audit results, material shortage - cost supply issues, customer insolvency, environment analysis, etc.

To use the IATF
Quality System
to define procedures
and rules to be
applied (referring
to international
standards for Risk
Management)

Risk Management process flow should mirror TN Organization with local, regional, global, "macro-region", corporate levels





RISK MANAGEMENT COMMITTEE

THE RMC MEMBERS ARE:

6 PERMANENT MEMBERS

CGO CHAIRMAN
CTO RESPONSIBLE
CFO
CHRO
MONOZUKURI
QUALITY AND CENTRAL LAB
(RMC ADMINISTRATOR)

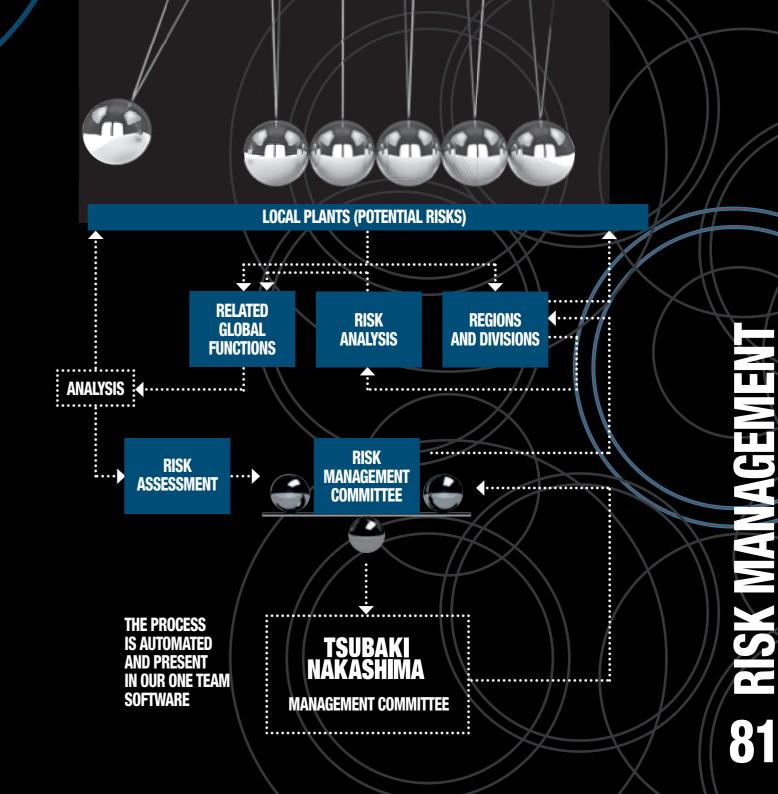




REGIONAL/DIVISIONAL PRESIDENTS

OTHER PERTINENT GLOBAL OR CORPORATE FUNCTIONS

OTHER RELEVANT MEMBERS
(BY COMPETENCE)





ADDITIONAL BENEFITS (IS PHILOSOPHY)

Clearer visibility of the potential issues, but also of the managerial style/approach to the risk, prevention, rapidity and effectiveness

Involve more (and increase effectiveness of support of) the Global Functions in the process of addressing issues, finding solutions, planning preventive and corrective actions

Accelerate Best Practice implementation (already existing, in order to keep it simple and fast)

Reinforce the concept of organizational discipline Have a Wider view and being a sort of glue between different parts of the Organization

Help the Organization to grow in terms of risk prevention awareness and in terms of consistency



APPROACH TO SUSTAINABILITY

Products provided by the Tsubaki Nakashima Group, including precision balls, contribute to improving the energy performance and efficiency of final products.
For this reason, we believe that
not only supplying high-quality
products, but also giving

in the manufacturing process will help reduce the environmental impact of the entire value chain.







Tsubaki Nakashima shall continue to improve its own organization, processes, products, and services, AIMING AT REACHING ZERO defects, zero accidents and zero environmental impact and the improvement of the energy performance by means of:

- the involvement, participation and co-responsibility of the employees and workers representatives where they exist, collaborators and suppliers and other relevant parties with the intention of making them aware of their individual duties, also through specific communication initiatives, while promoting a healthy and safe behavior, and being aware of the rational use of energy
- embracing the philosophy of the 5 Z's of sustainability approach, we strive to have Zero accidents, Zero occupational illnesses, Zero wastes, Zero inequality and Zero lack of knowledge
- the implementation of all that is necessary to guarantee the safeguarding of the environment and health and safety in the workplaces

- the development of production processes, oriented to continuous improvement of the safety, environmental and energy standards, to reduce and eliminate the negative impacts in an economically feasible manner, by making provision for the acquisition of products and services with a view to improve the energy and environmental performances
- the commitment to preventing defects, accidents, and environmental impacts rather than identifying them
- a constant respect for company, customer and governmental health and safety, environmental and energy requirements
- **a** continuous improvement of the management and performances of health and safety, environmental and energy matters by locating the necessary resources in order reach the set objectives and targets, using adequate monitoring and evaluation tools

All the above to satisfy the requests and expectations of our employees, customers and shareholders in the best possible way, increasing the reputation of the company and strengthening our leadership position.

USE OF RESOURCES AND SUSTAINABILITY

Tsubaki Nakashima consumes resources and, in the process of conducting business activities across the life cycles of its products and services, emits GHGs and other emissions to the air, land, and water. Following the specifications indicated by the ISO 14001: 2015 standard and our Integrated Corporate Governance, we have assessed the environmental impacts of our business activities across the value chain to **REDUCE OUR IMPACTS**.

LIFE CYCLE THINKING

Tsubaki Nakashima defines an ecoconsiderate product as one for which environmental impacts are considered from product conception to mission completion; that is, at every phase of the life cycle, from design and manufacturing to transport, usage, and recycling.

THINK

Tsubaki Nakashima takes a life-cycle thinking approach in efforts to minimize customers' environmental impacts by providing products that offer environmental performance. Almost all our products are 100% recyclable – we use steel, plastic, glass, ceramic, aluminum, and other material that could have a second life.

In the Minimum Technical Standards set up, we focus our attention on Management of Chemical Substances in manufacturing, replacing hazardous substances with non-hazardous and recycle them into the process, as much as possible.

CHOOSE



Transport / Value Chain – Our motto is Global Reach and Local Depth, working to serve our Customers close to their factories, also to reduce transportation and material handling.

DELIVER

USE

responsible use of natural resources, as well as of other resources is key, in our approach.

RECYCLE & REUSE

Oil, coolants and other substances are recycled as much as possible.

All our products are RECYCLABLE, almost 100%.



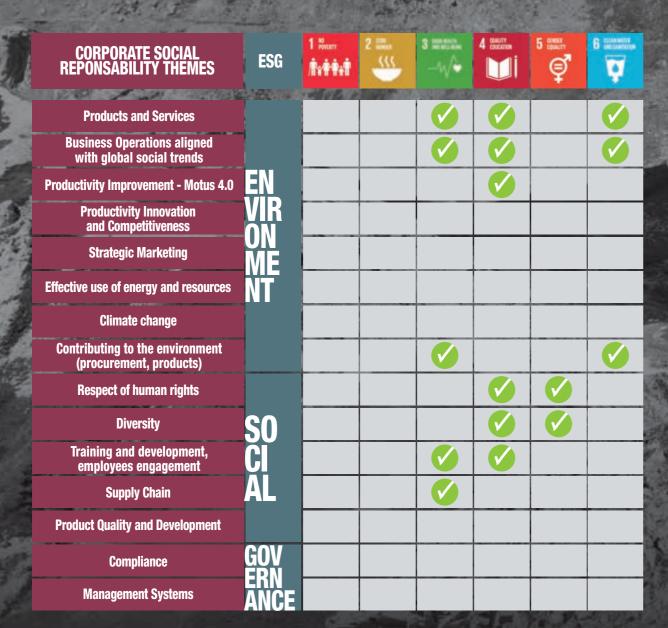
INDICATORS AND TARGETS

We are actively working to reduce environmental impacts throughout the value chain by leveraging our efficient, compact, and precision technologies to IM-PROVE THE ENVIRONMENTAL PERFORMANCE OF OUR PRODUCTS, utilizing renewable energy, and enhancing our business activities in order to achieve our targets.

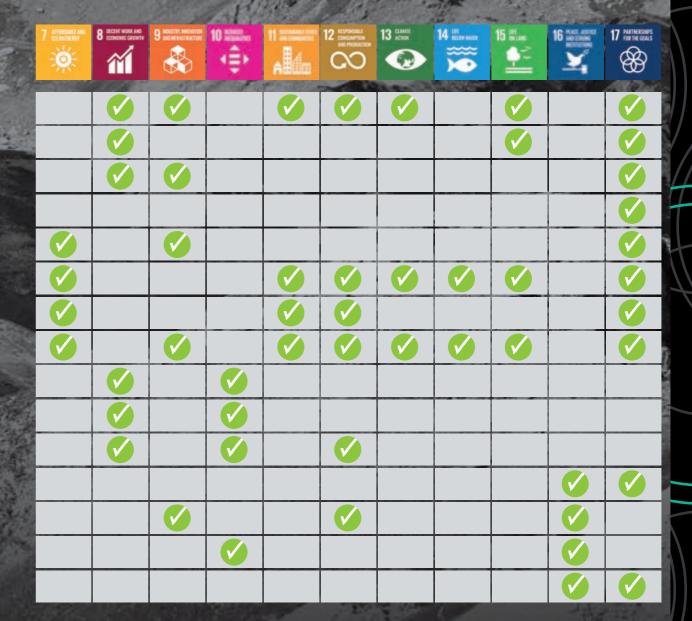
RESPONSIBLE SOURCING OF MINERALS

Where minerals such as tin, tantalum, tungsten, gold (3TG) and cobalt are mined in conflict-affected or high-risk areas such as the Democratic Republic of Congo (DRC) and adjoining countries, the revenue from the mining and trading of these minerals is a source of funding for armed groups and anti-government forces carrying out atrocities and human rights abuses. Minerals sourced from such conflict-affected or high-risk areas have the potential to promote conflict, human rights violations and environmental degradation. Tsubaki Nakashima considers **MINING** to be an intensive process involving social and environmental risks, and believes the minng of metals and minerals, including conflict minerals (3TG) and cobalt mined in the DRC, as well as other minerals mined in other regions, must be managed. Tsubaki Nakashima's policy is that we want NO PART IN ANY HUMAN RIGHTS VIOLATIONS OR ENVI-**RONMENTAL DESTRUCTION**. While sourcing minerals that originate in conflict-affected or high-risk areas, we will not, by any means, tolerate, knowingly profit from, contribute to, assist with or facilitate the commission by any party of any form of human rights violations or abuses, or support operations that result in the degradation of socioeconomic and environmental stability.

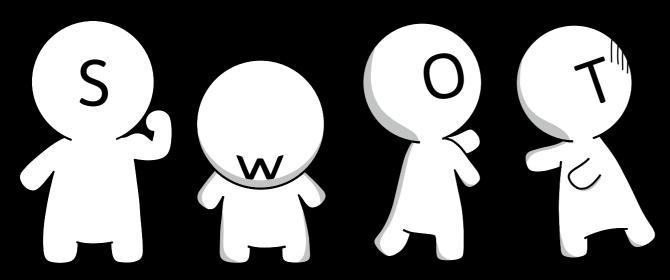




SDGTICK NOTICES



68



STAFF
CUSTOMER BASE
PRODUCTS/SERVICE
FINANCIAL RESOURCES
MARKET POSITION
SALES CHANNELS
PROFITABLE
GROWING

STAFF
MARKET POSITION
PROFIT MARGINS
TO LOW
COMPETITIVE
VULNERABILITY
LACK OF NEW PRODUCTS
FINANCIAL RESOURCES
SALES CHANNELS

ECONOMY
FAILING SALES
NEW TECHNOLOGY
LACK OF FINANCIAL
RESOURCES
INCREASED
COMPETITION
LOSE OF KEY STAFF
DECREASING PROFITS
CASH FLOW

ECONOMY
FAILING SALES
NEW TECHNOLOGY
LACK OF FINANCIAL
RESOURCES
INCREASED
COMPETITION
LOSE OF KEY STAFF
DECREASING PROFITS
CASH FLOW

INTERNAL ORIGIN

ATTRIBUTES OF THE ORGANIZATION

S

HELPFUL

TO ACHIEVING

THE OBJIECTIVE

STRENGTHS WEAKNESSES

EXTERNAL ORIGIN

ATTRIBUTES OF THE ENVIRONMENT



OPPORTUNITIES



HARMFUL

TO ACHIEVING

THE OBJIECTIVE

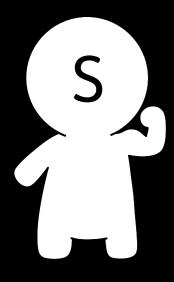
THREATS

TARGET DEFINITION

SUSTAINABILITY

- CONTINUE TO BULD A COMMON GROUND: COMPANY IDENTITY, VALUES AND PRINCIPLES, COMMON RULES AND POLICIES, BUSINESS DISCIPLINE, SUSTAINABLE PROJECTS
- MAKE THE LIFE EASIER: COMMONS SYSTEM, PLATFORM AND STANDARDS TO MANAGE HR, COMPLIANCE AND SUSTAINABILITY
- TN ACADEMY (SAFETY, SUSTAINABILITY, CORPORATE GOVERNANCE) E-LEARNING PLATFORM
- COMPENSATION-PAY PER PERFORMANCE
- SUPPORT "TRANSFORM NEXT 2023"
- APPLY GRI STANDARDS AND DISCLOSE BY CDP





- HIGH SUPPORT FROM THE CEO COMPANY IS ORIENTED TO SUSTAINABILITY
- PROCESS TO STANDARDIZE SYSTEMS, MATERIALS, EQUIPMENT, MACHINES, MANUFACTURING FLOW
- GLOBAL SUSTAINABILITY SYSTEM AND MINIMUM TECHNICAL STANDARDS ROAD TO FULL INTEGRATION
- SUSTAINABLE DEVELOPMENT STRUCTURE AND NEW ESH&E MANAGERS ALMOST EVERYWHERE
- TN ACADEMY

- OLD PLANTS AND OLD MACHINES INCREASE THE SAFETY RISKS AND USE OF ENERGY, AS WELL AS THE POTENTIAL ENVIRONMENTAL IMPACTS
- ENERGY NOT ALWAYS PERCEIVED AS AN OPPORTUNITY
- CULTURAL AND LINGUISTIC BARRIERS
- BEST PRACTICE AS OPPORTUNITY TO ACCELERATE THE GROWTH IN COMPANY CULTURE AND ACTIONS

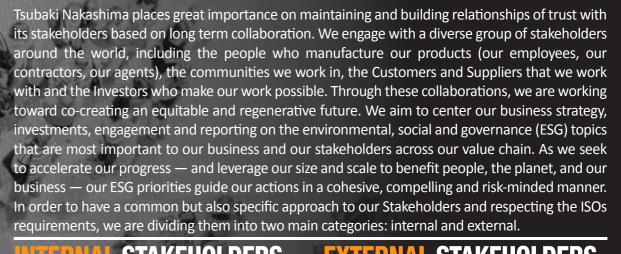




- PRESSURE FROM STAKEHOLDERS TO BE MORE SUSTAINABLE
- "GREEN" INCENTIVES (POTENTIALLY)
- DIGITALIZATION
- ESG (GRI) AS A NEW STANDARD TO IMPROVE
- CDP DISCLOSURE
- E-LEARNING PLATFORMS FOR TRAINING

- HIGHER COST OF ENERGY AND NATURAL RESOURCES
- HIGHER COST OF WASTE DISPOSAL, LIKE GRINDING SLUDGE
- REDUCED MOBILITY DUE TO THE PANDEMIC (STILL APPLICABLE)





NTERNAL STAKEHOLDERS

are represented not only by shareholders and company management, but above all by employees and collaborators, the heart of the company, who are in direct contact with customers every day, representing Tsubaki Nakashima. The company strongly believes in the integration and concrete motivation of its employees by stimulating training at 360° and in particular on fundamental issues such as safety at work and the principles established by the highest ethic's standards. Shareholders and company management guide the strategy and operations of the Company in compliance with and sharing ethical and moral principles.

EXTERNAL STAKEHOLDERS

include suppliers and contractors, who are selected through a precise evaluation system, as well as based on compliance with the principlesgoverned by our QMS and GSS: being a supplier of Tsubaki Nakashima means committing to extend the same ethical principles that guide the company also to its supply chain and along the entire value chain. A relevant external stakeholder is the Customers.

Both categories of stakeholders (internal and external) have legitimate expectations regarding the work of Tsubaki Nakashima and, in relation to the most relevant stakeholders, the possibility of expressing opinions and suggestions, both in clear and anonymous (i.e. Surveys), through various sharing tools made available by the company and with periodic meetings. Thanks to these listening processes, the company has the opportunity to understand their needs and evaluate them to improve its activities and its impact on them. In general, stakeholder involvement takes place in compliance with the principle of inclusiveness, through which Tsubaki Nakashima undertakes to encourage the active participation of all internal stakeholders in corporate life and strategic decisions.



The Paris Agreement and the AGENDA 2030 of the United Nations aim to strengthen the global response to the threat of climate change by keeping a global temperature rise this century well below 2°C above pre-industrial levels.

As a result, several global goals have been set to fight climate change:

- Global CO² emissions need to be reduced by 45% by 2030 from 2010 levels (last official data available)
- CARBON NEUTRALITY by 2050: carbon neutrality is a state of net-zero CO² emissions.

This can be achieved by balancing emissions of CO² with its removal.



VISION ZERO

ZERO ACCIDENTS, ZERO OCCUPATIONAL ILLNESSSES, ZERO WASTES, ZERO INEQUALITIES, ZERO LACK OF KNOWLEDGE

INTEGRATED CORPORATE GOVERNANCE SUSTAINABLE DEVELOPMENT

INSTITUTIONAL
INTERNAL
EXTERNAL
TN ACADEMY

GOVERNANCE

MONOZUKURI

COMMUNICATION



ADOPT INNOVATIVE TECHNOLOGIES **TO PRODUCE GREEN ENERGY PURCHASE GREEN ENERGY THANKS TO** THE RENEWABLE ENERGY CERTIFICATES CHALLENGE: IMPROVE THE GENERAL **EFFICIENCY OF TN PLANTS** THROUGH HIGH UTILIZATION **2030**

REDUCE ENERGY CONSUMPTION

CEO CTO All the strategies and activities are reviewed by the Sustainability Committee, which is responsible for assisting the Management Committee by fulfilling a preparatory, consultative and advisory role in assessments and decisionmaking processes with regard to Environmental, Social and Governance issues, related to Tsubaki Nakashima business and its engagement with all stakeholders, the Corporate Governance of the Company, and the review of scenarios envisaged in the preparation of the Medium Term and Business Plans, based also on the analysis of significant issues for the creation of long-term value.



CFO

CHRO



• • • • • • • • • •

SUSTAINABLE ADVISOR

6 REGIONS

20 PLANTS

WHAT IS IMPORTANT FOR ENVIRONMENTAL SUSTAINABILITY

ENERGY

Natural gas consumption Other fuel consumption Electrical energy consumption Percentage of renewable energy



Specific energy

ENVIRONMENTAL

KPIS

Percentage of renewable energy (% Green energy)

consumption (kWh/ton)

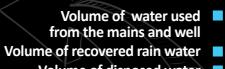
CO, EMISSIONS

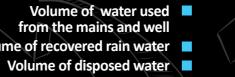
Scope 1 CO2 Scope 2 CO2 Scope 3 CO2



■ Carbon footprint (ton CO₂ / ton)

■ Scope 1 & Scope 2 total emissions (ton CO₂)

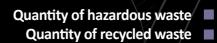






■ Water footprint (m3 / ton)

Percentage of disposal water (% disposal water)





Hazardous waste (ton hazardous waste / ton) Sludge (ton sludge / ton)

Percentage of recycled waste (% of recycled waste)

MATERIALS

Raw materials quantity ■ Additives and chemicals quantity Packaging materials quantity





Tsubaki Nakashima has set up and monitors several KPIs to measure its sustainability performance.

CO2 EMISSIONS [CO2 TONS]

the total CO₂ emissions of Scope 1 & Scope 2 are monitored on a monthly basis and calculated taking into account the guidelines provided by the GHG Protocol and the ISO 14064. Scope 2 emissions, that are mainly related to electricity consumptions, are currently calculated using the Location Based methodology and considering the emission factors from ecoinvent database. One of the goal for 2023 is to monitor Scope 2 emissions by using the Market Based methodology that results to be more accurate. Tsubaki Nakashima has set up a 2030 target for the total CO₂ emissions (Scope 1 & Scope 2) by using the Science Based Target Initiative tool. Another goal for 2023 is to start to monitor Scope 3 emissions, especially those related to raw materials consumptions and transport.

CARBON FOOTPRINT [CO, TONS/TONS]

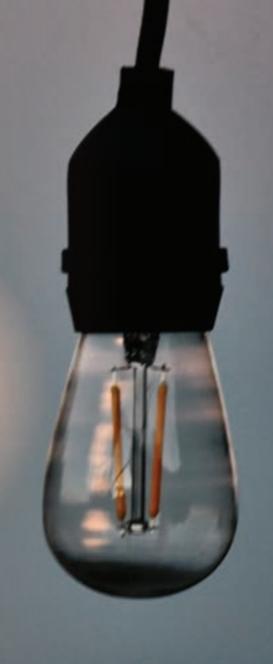
Tsubaki Nakashima carbon footprint is calculated taking into account Scope 1 & Scope 2 emissions and the production expressed in tons. This KPI reflects the sustainability of Tsubaki Nakashima factories and targets are set up taking into account the planned CO_2 reduction and the organization's future rate of production.

SPECIFIC ENERGY CONSUMPTION [MWH/TONS]

This KPI is the ratio between energy consumption and production expressed in tons and this is an indicator of the energy efficiency of Tsubaki Nakashima factories. The lower this KPI and the higher is the energy efficiency of Tsubaki Nakashima. The first point in the sustainability roadmap to achieve the CO₂ reduction goal is about energy efficiency, and that is why Tsubaki Nakashima, in addition to indicators on emissions, decided to also fix an indicator for energy consumption. Therefore, the targets set for this KPI reflect the projected CO² reduction, but also take into account self-production and green energy purchasing strategies.

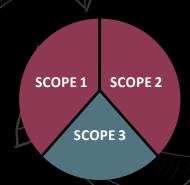
% OF GREEN ENERGY

this indicator is useful to monitor the amount of green energy consumed by the organization and to properly set the strategy on purchasing and self-producing green energy and to monitor the results obtained. Tsubaki Nakashima plans to consume 100% renewable electricity by 2040.



THE IMPORTANCE OF ENERGY EFFICIENCY

CO, EMISSIONS CATEGORIES



SCOPE 1: DIRECT GHG EMISSIONS - NATURAL GAS, LPG, PROPANE COMBUSTION

SCOPE 2: INDIRECT GHG EMISSIONS FROM IMPORTED ENERGY (ELECTRICITY)

SCOPE 3: INDIRECT GHG EMISSIONS CAUSED BY THE ENTIRE VALUE CHAIN (RM, TRANSPORTS)

FULLY CONTROLLED BY TSUBAKI
NOT UNDER CONTROL OF TSUBAKI

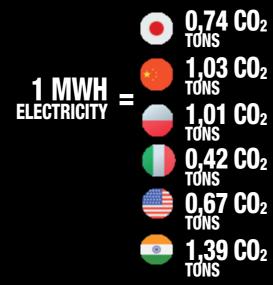
TOTAL CO2 EMISSIONS = SCOPE 1 + SCOPE 2 EMISSIONS

CARBON FOOTPRINT $\frac{\text{CO}_2 \text{ TONS}}{\text{TONS}} = \frac{\text{TOTAL CO}_2 \text{ EMISSIONS [CO}_2 \text{ TONS]}}{\text{TOTAL PRODUCTION [TONS]}}$

95% OF TSUBAKI NAKASHIMA'S CO. EMISSIONS COME FROM ELECTRICITY CONSUMPTION



ELECTRICITY EMISSION FACTOR EXAMPLES



The emission factor related to electricity varies for each country because it depends on the fuel mix used for the electricity production of each country!

FOSSIL FUEL EMISSION FACTOR EXAMPLES

 $\begin{array}{rcl}
1000 & M_3 & = & 2,59 & CO_2 \\
NATURAL GAS & = & TONS
\end{array}$

1000 = 1,58 CO₂

The emission factor related to fossil fuels is the same for each country because the composition of natural gas and fuels does not vary!

ROAD TO SUSTAINABILITY

There are many factors that influence the definition of targets:

the closures due to Covid, the raw materials and energy crisis due to the war in Ukraine, the market, new applications, etc.) and ENDOGENOUS FACTORS (the closure and opening of new factories, new production lines, product mix, type of products, production increases, etc.).

During 2022 Tsubaki Nakashima developed 26 sustainability projects, started to purchase green energy, installed 3 new photovoltaic systems, and performed 10 sustainability workshops. All these activities avoided the emissions of 12,035 CO₂ tons. However, considering the rate of production growth and the startup of the new plant in Bosnia, this CO₂ reduction is equivalent to a 3% reduction in Tsubaki Nakashima's carbon footprint (i.e., 4,600 CO₂ tons reduction of total emissions compared to 2021).

For that reason, despite the development of these activities, CO₂ reduction has not been enough to reach the ambitious 2022 sustainability target of 169,204 tons CO₂. Considering the above reasons, the target was found to be too aggressive, so the target for 2023 was adjusted by tending to the evolution of the organization. The final target to 2030 remains the same but the path to achieve it changes.

ROAD TO SUSTAINABILITY

Tsubaki Nakashima strongly believes in the sustainable transformation of its products and production processes. For this reason, we decided to set the sustainability goals in line with those of the United Nations and the Paris Agreement on climate change using the methodology proposed by Science Based Target. Supporting this green transition for Tsubaki Nakashima is also a moral obligation, not only to our customers and suppliers, but also to shareholders, employees, and society at large. The first goal it has set is to reduce CO2 emissions by 27.5% by the end of 2030, and the strategy for achieving this is based on concrete and tangible projects.

- IMPROVING ENERGY EFFICIENCY OF THE PLANTS
- THROUGH THE IMPLEMENTATION OF RENEWABLE ENERGY SYSTEMS
- THROUGH A STRATEGY FOR PURCHASING **GREEN ENERGY SHARES**

It is a not easy road, even though it is a real commitment, a challenging task that needs a lot of investments.

2019

182.923 CO2 tons

2021

190.849 CO₂ tons

2022

186.252 CO₂ tons

2030

132.619 CO₂ tons

SUSTAINABILITY IN NUMBERS

WORKSHOPS PERFORMED

CDP - CARBON DISCOLSURE PROJECT SCORE

LEVEL

SUSTAINABILITY PROJECTS DEVELOPED

INCREASE OF THE ENERGY EFFICIENCY

PHOTOVOLTAIC SYSTEMS INSTALLED IN TN PLANTS

4.220

CO₂ TONS AVOIDED FOR **GREEN ENERGY PURCHASE**



2022: SUSTAINABILITY WORKSHOPS

During 2022, several workshops related to environmental sustainability were carried out. The purpose of these on-site workshops was to increase the plants' awareness of climate change and environmental sustainability issues. In addition, in each plant visited, on-site analyses were performed to evaluate the energy efficiency of the production process and several opportunities for improvement were subsequently analyzed. A summary of the improvement opportunities identified is given in the table below.

10 SUSTAINABILITY WORKSHOPS PERFORMED 10.132
MWH OF POTENTIAL ENERGY SAVINGS

32 SUSTAINABILITY PROJECTS IDENTIFIED 4.727
CO2 TONS
OF POTENTIAL
REDUCTION





INDIA



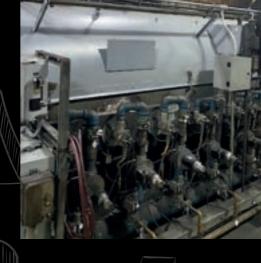






USA











BEFORE AFTER
HEAT TREATMENT IMPROVEMENT
AFTER THE WORKSHOPS



JAPAN



MEASUREMENTS AND OPERATIONS DURING THE WORKSHOPS





CDP CARBON DISCLOSURE PROJECT

CDP is a not-for-profit charity that runs the global disclosure system for companies to manage their environmental impacts. This project enables companies to progress towards environmental stewardship through benchmarking and comparison with peers, in order to continuously improve their climate governance. Tsubaki Nakashima to certify and make its commitment to sustainability reliable and transparent joined CDP - Carbon Disclosure Project in 2022. Tsubaki Nakashima obtained Level B for the "Climate Change" category, which, in addition to being the third level of eight, is also higher than the Asia regional average of C, and higher than the Metal products manufacturing sector average of C.

Tsubaki Nakashima obtained a high score regarding:

- BUSINESS STRATEGY, FINANCIAL PLANNING & SCENARIO ANALYSIS
- **TARGETS**
- **■** GOVERNANCE

This means that the sustainability strategy has been set up correctly and is strong and reliable. Instead, the areas where Tsubaki Nakashima needs to improve are data collection and calculation of indirect Scope 3 emissions and the area related to green energy. For both of these weaknesses, Tsubaki Nakashima has already started the process of improvement; in fact, it is analyzing the CO² emissions of raw material suppliers and is analyzing the strategy for purchasing green energy and planning to install photovoltaic systems at its plants.

2022: SUSTAINABILITY PROJECTS DEVELOPED

During 2022, 26 projects related to the continuous improvement of environmental sustainability of Tsubaki Nakashima's plants were developed.

4.865

CO2 TONS AVOIDED IN EUROPE REGION 2.253

CO2 TONS AVOIDED IN CHINA REGION

CO2 TONS AVOIDED IN AMERICAS REGION

2022: ENERGY EFFICIENCY

During 2022 to support the first milestone on the road to 2030 related to the reduction of energy consumptions, five specific projects useful for increasing the energy efficiency of Tsubaki Nakashima's production processes were analyzed.

OF ENERGY REDUCTION **NEW ELECTRIC MOTORS & VSD INSTALLATION**

OF ENERGY REDUCTION **COMPRESSED AIR LEAK REDUCTION**

OF ENERGY REDUCTION **FURNACES INSULATION IMPROVEMENT**

158 CO2 TONS

AVOIDED IN GCB REGION

CO2 TONS AVOIDED IN JAPAN REGION

7.623 TONS REDUCED

GOAL

ACHIEVED

As a result of the development of these projects within plants, the KPI related to energy efficiency increased by 4% in 2022 compared to 2021.

OF ENERGY REDUCTION LAMPS REPLACEMENT WITH LED

OF ENERGY REDUCTION **PUMPING SYSTEM OPTIMIZATION**

GOAL ACHIEVED

ENERGY EFFICIENCY

330 kW
OF INSTALLED
SOLAR PANELS
IN ITALY

65 kW
OF INSTALLED
SOLAR PANELS
IN POLAND

60 kW
OF INSTALLED
SOLAR PANELS
IN INDIA

5 kW
OF INSTALLED
SOLAR PANELS
IN JAPAN

2022: INSTALLED PHOTOVOLTAIC PLANTS

460 kW

OF INSTALLED SOLAR PANELS IN TSUBAKI NAKASHIMA

192
CO2 TONS
AVOIDED

SUST

129

ITALY - PINEROLO PLANT







POLAND - KRASNIK PLANT

2022: GREEN ENERGY PURCHASING

In addition to the photovoltaic systems, during 2022 some of Tsubaki Nakashima's factories purchased green energy shares to promote the lowering of CO² emissions and the green transition:

100% RENEWABLE ELECTRICITY **SLOVAKIA PLANT**

100% RENEWABLE ELECTRICITY UK PLANT

10% RENEWABLE ELECTRICITY KATSURAGI PLANT JAPAN*

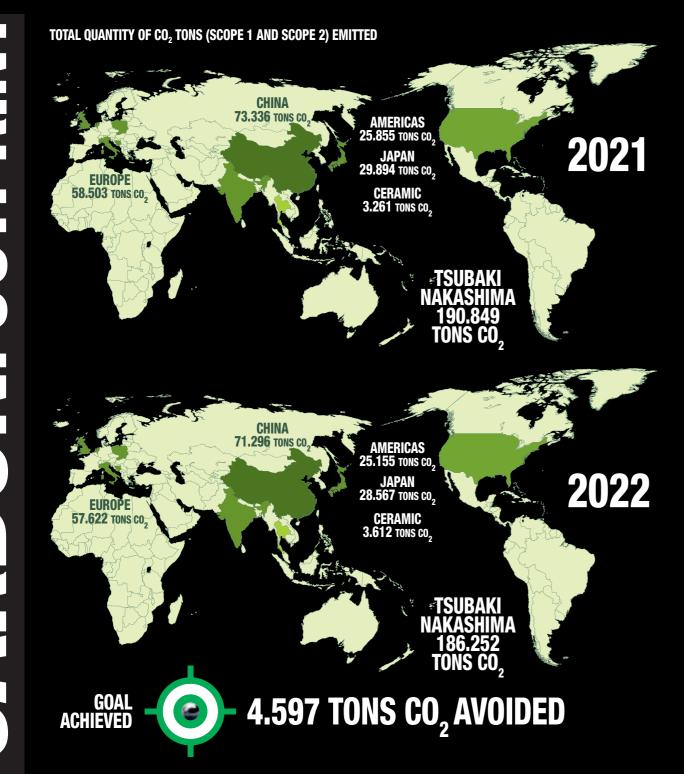
*FROM NOVEMBER 2022

10% RENEWABLE ELECTRICITY OKAYAMA PLANT JAPAN*

10% RENEWABLE ELECTRICITY KORIYAMA PLANT JAPAN*

GOAL ACHIEVED

CO2 TONS SAVED



QUANTITY OF CO₂ TONS (SCOPE 1 AND SCOPE 2) PRODUCED PER TON OF PRODUCT

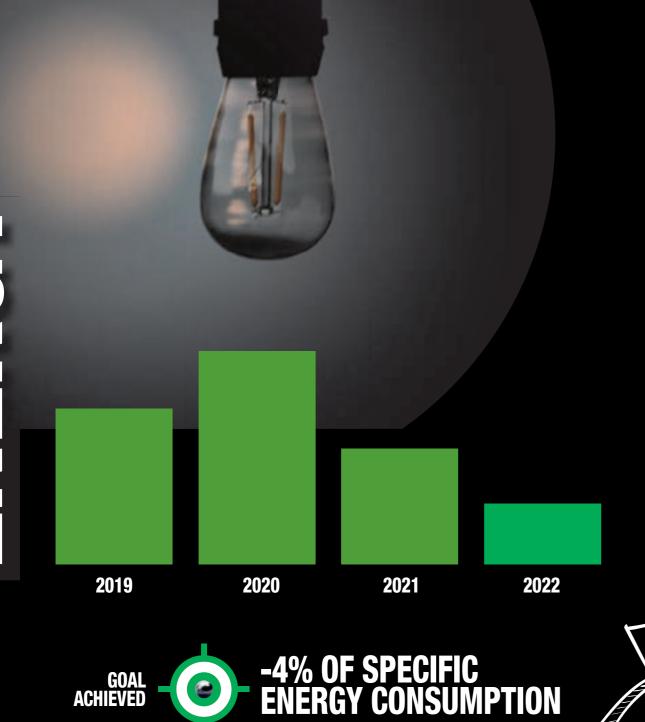
CARBON FOOTPRINT (TON CO ₂ /	TON) 2021	2022
JAPAN	2,3	2,6
EUROPE	1,4	1,4
CERAMIC	35,9	31,4
CHINA	2,3	2,2
AMERICAS	1,9	1,8
TN TSUBAKI NAKASHIMA	1,94	1,88



-3% OF THE CARBON FOOTPRINT

SUSTA

GOAL ACHIEVED



QUANTITY OF ENERGY CONSUMED PER TON OF PRODUCT

ENERGY I	NTENSITY (MWh / TON PRODUCT)	2021	2022
See Line	JAPAN	3,1	3,5
	EUROPE	2,5	2,4
**	CERAMIC	49,5	44,0
3	CHINA	2,2	2,1
	AMERICAS	4,0	3,2
TN	TSUBAKI NAKASHIMA	2,7	2,6

135



Water footprint [m3/tons] is the ratio between water consumptions (m3) and the production expressed in tons. Tsubaki Nakashima currently monitors this indicator as another key aspect of a company's sustainability, but because no major deterioration is found, a long-term target has not been set but only annual targets for monitoring. In addition, this indicator does not appear to be a key indicator for the organization with respect to CO² emissions and carbon footprint for that reason Tsubaki Nakashima currently focuses its attention on reducing greenhouse gas emissions but in any case it also keeps the water consumption under control.

Tsubaki Nakashima water consumption in 2022 was equal to 277 million liters. Considering that, in average, un person consumes 237 liters of water per day, Tsubaki Nakashima water consumption during 2022 is equivalent to the annual water consumption of 3,215 people.

The water footprint of Tsubaki Nakashima during 2022 was equal to 2,8 liters/kg (i.e. m3/tons) and this value is very low compared, for example, to the water footprint of beef production 15,000 liters/kg

QUANTITY OF WATER CONSUMED PER TON OF PRODUCT

	WATER (M ₃ / TON PRODUCT)	2021	2022
	JAPAN	3,3	3,3
	EUROPE	3,1	2,9
	CERAMIC	3,8	2,7
3	CHINA	3,3	3,4
THE STATE OF THE S	AMERICAS	2,6	0,4
TN	TSUBAKI NAKASHIMA	3,1	2,8



Recycled rate reflects the percentage of recycling waste. In order to calculate this KPI the most important categories of waste are taken into account. One of the goal for 2023 is to develop projects to recycle our production sludge.

On whether or not waste is recyclable, as well as on the very definition of waste, as well as on whether or not it is dangerous, national regulations are very different from each other.

In some countries sludges are considered hazardous and non-recoverable waste, while in others it is the opposite; it is therefore necessary to keep the differences in mind when reading the data

QUANTITY OF RECYCLED RATE

	2021	2022
JAPAN	51%	67%
EUROPE	33%	34%
CERAMIC	28%	41%
CHINA	36%	42%
AMERICAS	10%	31%
TN TSUBAKI NAKASHIMA	31%	41%



DEVELOP 5 ENERGY EFFICIENCY PROJECTS

8 SUSTAINABILITY **WORKSHOP** PLANNED IN CHINA, EUROPE, USA

STRATEGY FOR GREEN ENERGY PROCUREMENT



SCOPE 2 EMISSIONS MARKET BASED CALCULATION ALREADY KICKED OFF

STRATEGY FOR PURCHASE GREEN ELECTRICITY FOR EACH REGION ROADMAP FOR INNOVATIVE TECHNOLOGIES TO PRODUCE GREEN ENERGY



TECHNOLOGIES ALREADY KICKED OFF

FEASIBILITY OF THE INNOVATIVE

SCOPE 3 EMISSIONS ANALYSIS: RAW MATERIALS



RAW MATERIALS SUPPLIERS ENGAGEMENT IN THE SUSTAINABILITY ROADMAP

DEVELOPMENT OF WASTE RECYCLING PROJECTS



SUSTAINABILITY PROJECTS PLANNED,

SLUDGE RECYCLING PROJECTS DEVELOPMENT IN JAPAN, POLAND AND ITALY

+118% VS 2022

POTENTIAL REDUCTION OF 16.000 CO2 TONS

SUSTA

OUR COMMITTIVE ENTITO PEOPLE





VISION

CREATE A MULTI-ETHNICAL
AND TN MONOCULTURAL ORGANIZATION

MISSION

Foster differences to create added value and give new and growth perspectives, balance the interests of the parties by maximizing their mutual benefit, integrate and help people grow, creating a safe, fair work environment where everyone is valued and valued for what they give.

INTEGRITY AND Accountability RESPECT AND COMPASSION PASSION AND COMMITMENT PROXIMITY

VALUES

We set **STANDARD OF BEHAVIOR** for team members and all stakeholders while at work, helping all our employees comply with applicable laws and regulations, guiding the decision-making process, reinforcing the commitment to impeccable character.

As part of the Tsubaki Nakashima team, each employee takes care of himself/herself and each other and Tsubaki Nakashima promotes **SAFETY, HEALTH, AND SOCIAL RESPONSIBILITIES BECAUSE PEOPLE MATTER** — not just to the Company, but to fellow team members, friends, families, and communities.

We value the power of Individual and Collective know-how: we grow the business and in parallel improve the work environment by building positive and enduring relationships.

We appreciate and favorite the contribution of every team member in every location. It is the variety of talent, ideas, opinions and experiences — what we call the **TN COLLECTIVE KNOW-HOW** — that gives a broader understanding of the marketplace and the world around. It is how we build high-performance teams and deliver innovative solutions for customers. In everything the Group does, diversity is a competitive advantage, and it drives creativity, innovation, decision making and ability to serve our Customers.

PEOPLE



TSUBAKI NAKASHIMA DOES NOT ACCEPT CHILD LABOR

We are an organization committed to the RESPECT OF HUMAN RIGHTS AND UPHOLDING LABOR STANDARDS. This respect and commitment are central to the success of TN entities in all the communities in which it operates. Our Labor Standards Policy is aligned with the principles established within the Universal Declaration of Human Rights and in combination with TN Managerial Statement and Code of Business Ethics, reinforces the commitment to ensuring all internal and external stakeholders are treated with dignity and respect.

We have plants and offices in Japan, United States, Italy, Poland, Slovakia, the Netherlands, Bosnia, China, Thailand, India, and Taiwan, and in each of these countries, local employees take the lead in conducting activities. As a Corporate Group with global operations, we aim to UTILIZE DIVERSE VALUES in our business, and promote diversity by appointing suitable personnel to roles of responsibility regardless of nationality, promoting the career of women, and employing people with disabilities. In our Group we have 31 different nationalities. Diversity is key, always.

We value gender balance and the overcoming of any stereotype, discrimination or prejudice, in order to create the best conditions in which each person can express themselves. TN is committed to increasing the strengthening of awareness initiatives at all levels and promotes policies and actions aimed at promoting equal opportunities, work-life balance, the sharing of family responsibilities and the removal of potential obstacles, including those related to sexual orientation.

DISABILITY

We are committed to promoting and systematizing the mix of different cultures within it through the promotion of an intercultural vision and open to multi-level discussion, based on organizational and social cooperation.

We recognize equal opportunities for all

its people regardless of sensory, cognitive

and motor disabilities. In this context, it

is committed to implementing concrete

measures to promote the integration and

inclusion of people with disabilities, making

full use of their talent and skills in the Company

and thus contributing to the removal of

cultural, sensory and physical barriers.

GENDER

We recognize and value integrated strategies for the development and management of the needs of the different generations that work together within the organization.

GENERATIONS INTERCULTURALISM





RECRUITMENT

Tsubaki Nakashima recruits, develops, and promotes personnel on the basis of merit and strives to maintain a work environment free from discrimination and harassment.

ASSOCIATION AND WORKER'S REPRESENTATIVES

Tsubaki Nakashima supports a person's right to come together with others to promote, pursue, and defend common interests, respecting the right of all people to join or not join a trade union to bargain collectively. We respect employees right to collective bargaining and ensures labor agreements are developed with employee representatives and, at a minimum, comply with local rules and regulations.

The business encourages open dialogue and transparency, so that management and unions are encouraged to work together, in compliance with non-disclosure principles, to achieve a prosperous outcome.

COMPENSATION AND BENEFITS

WE BELIEVE THAT A GOOD WORK ENVIRONMENT MEANS

PHYSICAL ENVIRONMENT

ALL PLACES OF WORK, ALL SITES, AND AREAS WHERE WORK IS CARRIED OUT

CORPORATE CONDITIONS

COMPANY VALUES, COMPANY POLICIES AND PROTOCOLS, LEADERSHIP STYLE, EMPLOYER'S PROGRAMS FOR EMPLOYEES (E.G.: TRAINING, RECREATION, AND ENGAGEMENT), JOB BENEFITS (E.G.: SALARY, STI, LTI, HEALTH INSURANCE, DENTAL INSURANCE, PENSION SYSTEMS...), JOB CONDITIONS (TERMS OF EMPLOYMENT, FLEXIBILITY), SOCIAL BEHAVIORS (G&O, PE, TEAMWORK, OPENNESS, TRANSPARENCY, SOCIAL AND INDIVIDUAL DYNAMICS), JOB SATISFACTION AND EMPLOYEE OPINIONS

SET OF RULES

THE METHODS

OF PERFORMING

THE JOB'S FUNCTIONS

Tsubaki Nakashima is strongly committed on these three fronts, because we believe that **ONLY WITH A HOLISTIC APPROACH CAN WE TRULY CREATE A WORK ENVIRONMENT** where everyone can find their own motivation to achieve results.

Our approach to compensation and benefits, and related policies, ensures that employees are being paid fairly, and describes terms for workers' compensation, allowances, benefits, and bonuses (short-term and long-term incentive plans) at different levels of our organization. Compensation and benefits can be subject to differing Countries' laws and regulations, but there is a deep and strict alignment with the Company's culture, Corporate Governance and Management Principles.

Clear rules concerning compensation and benefits increase employee motivation. We believe that the promise of rewards and recognition for high-performing employees encourages people to work harder to meet both personal and company goals and objectives.

Effective and fair compensation also enrichens your company culture, employees are more likely to recommend working for your organization and this further increase company loyalty and reduce employee turnover.



For the **DEVELOPMENT OF OUR PEOPLE**, we have established and improved (every after year) an education and training system and we are continuously working to provide opportunities for all employees to acquire the knowledge, skills, and techniques necessary to perform their duties accurately and promptly, both inside and outside the workplace. In the Vision Zero, this is *Zero lack of Knowledge*.

We believe that the **VALUE OF OUR MANAGERS** should be the ratio between Competencies, Humility and Ability to operate. However only our Attitude can be the right multiplier to achieve or not the success.

This is the formula we apply in all the processes related to people (from hiring to future opportunities). In 2022, the average number of hours of specific training (excluding on-the-job training) per employee was 42 hours; greater in countries where personnel turnover was significant (USA, Slovakia) with peaks of 170 hours on average, lower in countries with stable personnel with work experience and profound technical and behavioral knowledge. In those cases, the training concerned the sustainability and occupational safety







TSUBAKI NAKASHIMA ACADEMY (TN ACADEMY) aims to enhance the customer value we create. To this end, we teach our Managers and Talents basic technology and skills and have them experience Monozukuri (the art and science of manufacturing) by performing specific manufacturing and managerial tasks step by step. This helps them tackle jobs from different angles.

In 2021 we focused our efforts on Manufacturing, Quality, People Management and Finance for non-specialists.

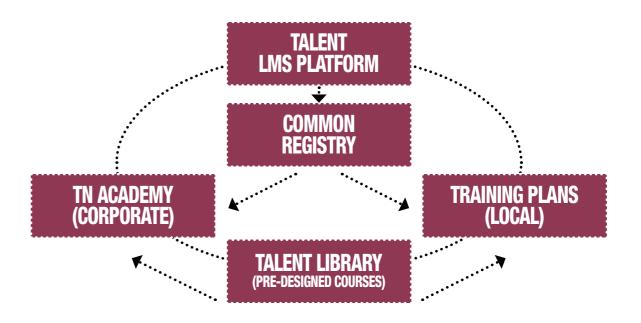
In 2022 we spent a lot of energy on Sustainability training and workshops, Corporate Governance, Safety and Health, with face-to-face training courses (including field audit exercises), or remotely as already happened the previous year.

NEW TRAINING AND DEVELOPMENT TOOL

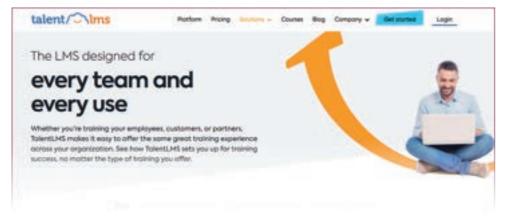
The **CHALLENGES OF TN ACADEMY** we had to face in 2022 were many: large number of participants, distribution of plants across different time zones, prerequisites of knowledge for participation in TN Academy, thorough knowledge of company policies, ethics and vision, varying training and induction strategies and procedures across the plants.

The **SOLUTION** we identified for the future development of TN Academy, as well as a more agile management of training at local level, and specifically the on-boarding processes, was a

- learning management system available online for all plants, with a
- common training platform identical courses globally,
- training library available on the platform and
- corporate trainings as well as plant-specific trainings all under one system



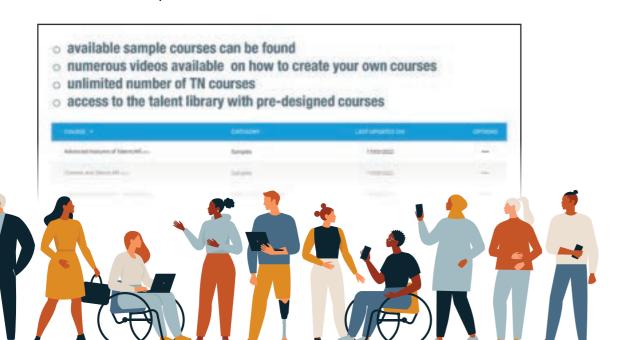




THE PLATFORM WE SELECTED IS TALENT LMS

Talent LMS will become the Tsubaki Nakashima Training Platform with common:

- On-Boarding Programs partially ready
- Corporate Governance Training (Code of business ethics and related policies) already present
- Safety and Health training courses, based on our footprints already present
- Sustainability training
- Quality Management System
- #Motus 4.0
- Finance for non-specialists



SETTING TARGETS AND EXPECTATIONS EVALUATE PERFORMANCES AND COMPETENCIES

The criteria for evaluating employees who work a full day and employees who work shorter hours are identical. This was done to ensure a level playing field when it comes to advancement and promotions. Employees are evaluated (Performance Evaluation and Competency Assessment process) based on their **ACHIEVEMENTS WITH RESPECT TO GOALS** (Goals and Objectives Process) and based on their **BEHAVIORS AND COMPETENCES**, with respect to the Tsubaki Nakashima Competencies we identified in the last years and we changed in 2022.

PURPOSES

Leverage a **SINGLE TOOL** for identification of performance relative to assigned goals and relevant competencies for the prior year

Everyone has goals that support OVERALL GOALS

Create, maintain **ALIGNED GLOBAL**performance

evaluation process

Evaluate and develop
ONE SET
OF COMPETENCIES
across Tsubaki Nakashima

SIMPLICITY

PURPOSES OF THE GOALS AND OBJECTIVE PROCESS



TRANSLATE FINANCIAL TARGETS IN INDIVIDUAL AND SPECIFIC TASKS



ADDRESS THE ISSUES WE HAVE IN EVERY ORGANIZATION (E.G.: QUALITY, FORECAST ACCURACY, OEE, PRODUCTIVITY...)



GOALS MUST BE CONNECTED TO THE STRATEGY (MTP) AND BP

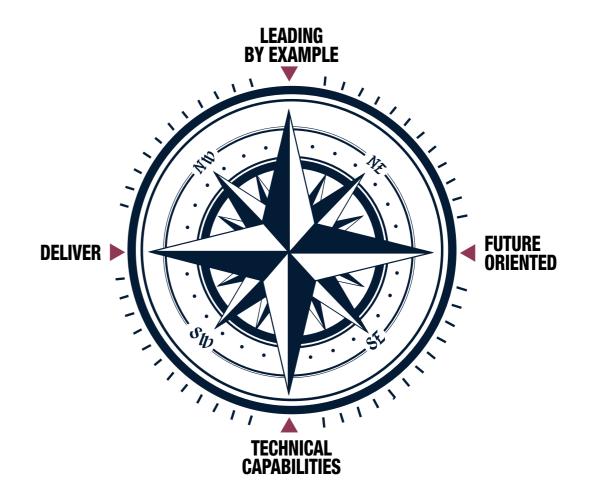


GOALS MUST BE THE RESULT OF A DISCUSSION BETWEEN EMPLOYEE AND MANAGER



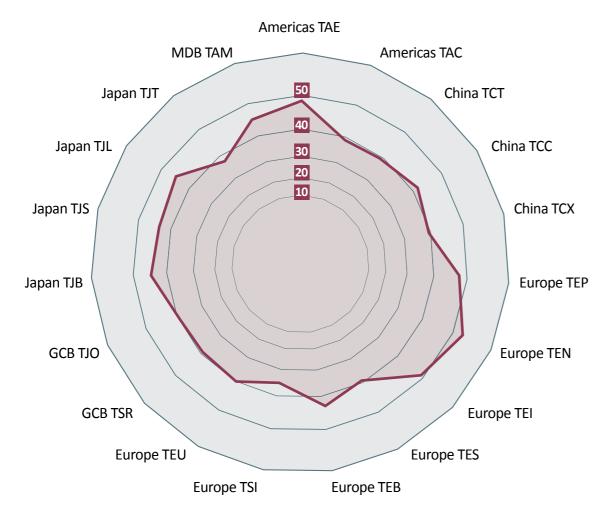
These are **NOW THE CARDINAL POINTS OF OUR EVERY ACTION**,

which is why they are represented graphically by a compass



The median age in our plants guarantees experience, knowledge and commitment, everywhere

MEDIAN AGE: 46

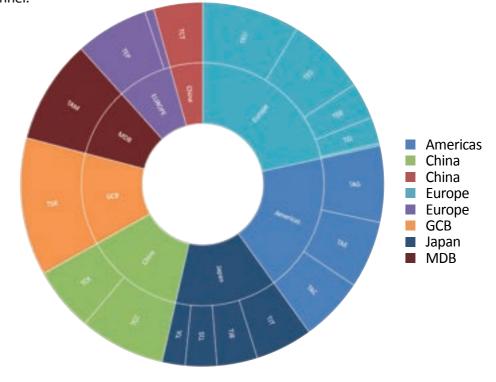




The plants with the youngest staff are the Asian ones (India, Thailand, and Taiwan), which are moreover the most recent ones within our organization. Those with the most experienced staff are the Dutch and Italian ones, which have been founded for more than 60 years and are witnessing a progressive generational change, the American one of Erwin, where NN Inc. was founded in 1980. acquired in 2017 by Tsubaki Nakashima and the Polish one, also in this case with a very long industrial tradition behind it.

WORKFORCE COMPOSITION

Men represent 79% of the entire population and women 21%; Tsubaki Nakashima is a manufacturing company, and we believe that the efforts made in Ergonomics and Automation will continue to allow many women to join us, also in activities that were historically performed by male personnel.



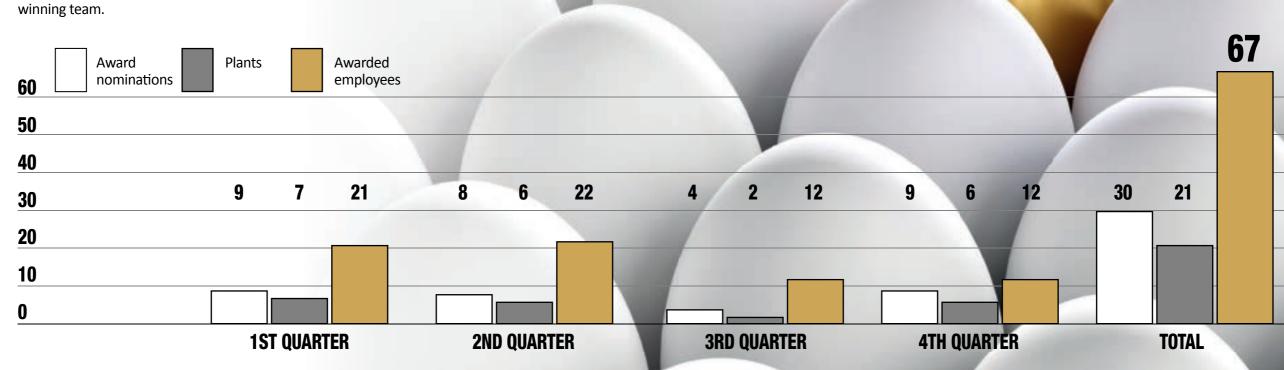
The composition of the personnel varies greatly from plant to plant, both for reasons linked to the culture of the country (in some there are not even female candidates for worker positions, but only for white-collar categories) and for industrial history - it is necessary to compare these data with those of the chronological ages, to understand what the historical evolution has been. IN MOST PLANTS, WOMEN PLAY KEY MANAGERIAL ROLES AS MANAGERS, DEPARTMENT HEADS, AND SUPERVISORS.

BX - BE EXCEPTIONAL AWARD

BX Award is recognizing the results of peers and colleagues in our group who have achieved excellence and serve as inspiration and example for others. We want to inspire and celebrate positive behaviour, results and successes. Thriving as a Company and acting as a worldwide leader in our business segment can only be realized by showing exceptional results and world-class excellence in all the things we do, independent from the role we fulfill in the Corporate -Region/Division - Plant or level of responsibility we hold. Our goal is that every employee step on board and feels the spirit of being part of a



- THE BIGGEST CONTRIBUTOR: JAPAN (40)
- THE MOST CONSISTENT: CHINA (3 PLANTS CONTRIBUTED PER QUARTER)
- THE MOST AWARDED EMPLOYEES IN ONE QUARTER: JAPAN
- PARTICIPATED IN EACH QUARTER: EUROPE, JAPAN
- REGIONS WITH NO SUBMISSIONS IN A QUARTER: AMERICAS, ASIA



BEST RUN PLANT AWARD

Tsubaki Nakashima aims to recognize and reward excellence across the Organization, inspiring us to be better, to think bigger and to continue to grow, profitably through the TN Best Plant Award, which recognizes the continuous pursuit of excellence in every aspect of the business including customers, employees, and environment.

For Tsubaki Nakashima is important to recognize those in our organization who have really made a difference, and to consider, in addition to the ability to generate profit while keeping the promises of the Business Plan, the 4 Cardinal Points of our Performance Evaluation's process.

ONE TEAM SPIRITETHICS AND COMPLIANCE

LEADING By Example

ABILITY
TO ACHIEVE
THE TARGETS
(OPERATING PROFIT)
ALIGN ACTIONS
WITH CORPORATE
GOALS

DELIVER

- GROWTH
 ORIENTATION (3NS)
- CONTINUOUS
 SUSTAINABILITY
 DEVELOPMENT APPROACH

FUTURE ORIENTED

TECHNICAL CAPABILITIES

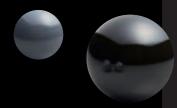
- PROCESS FOCUS (PRODUCTIVITY, QUALITY, ONTIME DELIVERY, INVENTORY MANAGEMENT)
- PROCESS IMPROVEMENT INNOVATION, PROJECTS, KAIZEN)

TJO, GLOBAL CERAMIC BUSINESS OKAYAMA, JAPAN









BEST RUN PLANT AWARD

- Sales and OP will be overachieved.
- Continuous challenge of process improvement for acquisition of new business and for cost saving, and support to TSR's improvement activities as Ceramic ball mother plant.
- Energy saving activities are on going such as switching to LED lights, stop air leaking (Solar panels' installation planned in 2023).
- Supplier award from Schaeffler and NTN.
- IATF certified since 2021, ISO14001 certified since 2022











TEU, EUROPE REGION WORTHING, UNITED KINGDOM









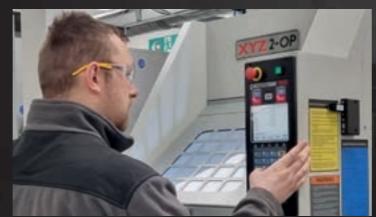
BEST RUN PLANT AWARD

- Fully realized TEU strategy focusing on "BRP/TCB business" and achieved a PO of 22.8%.
- Improved and developed strong relationship with key customers.
- Created a new method to manage operational productivity by keeping "Cost of Non-Quality" low (YTD Nov, BP/0.6% vs Actual/0.2%). and improving *On-time Delivery* (Nov 2021/69.8% vs Nov 2022/91.1%) resulting in reduced sales back log.











AMERICAS REGION TAG (GEORGIA), TAC - TAE (TENNESSEE) MEDICAL DEVICE BUSINESS TAM (MICHIGA



EMPLOYEE OF THE MONTH (TAG - TAM)





BARBECUE AND COOKING, JULY (ABOVE) - COMPANY PICNIC, AUGUST (BELOW) - (TAG)



SOCIAL INITIAT

AMERICAS REGION TAG (GEORGIA), TAC - TAE (TENNESSEE) MEDICAL DEVICE BUSINESS TAM (MICHIGAN)





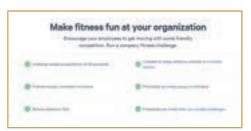
SPOT RECOGNITION PROGRAM, AUGUST (ABOVE) RECOGNITION FOR EMPLOYEES: 5S, CONTINUOUS IMPROVEMENT (BELOW) (TAG)

WELLNESS INVOLVING ALL AMERICAN PLANTS



ENCOURAGE SIMPLE, CONSISTENT MOVEMENT.

Connect a fitness tracker or smartphone to get stepping together. Compete in fun challenges that are accessible for every fitness level.



EMPLOYEE
APPRECIATION DAY, JULY
EMPLOYEE OF THE MONTH
ANNIVERSARY AWARDS
VETERANS DAY
RECOGNITION
VENDING BUCKS
PROGRAM
(TAE)



WATER AND COOLING BANDANAS DURING SUMMER HEAT ICE CREAM MACHINE (TAE - TAM)

AMERICAS REGION TAG (GEORGIA), TAC - TAE (TENNESSEE) MEDICAL DEVICE BUSINESS TAM (MICHIGAN





EMPLOYEE'S CHILDREN
SCHOLARSHIP PROGRAM (TAE)
EMPLOYEE'S CHILDREN
AT SCHOOL (TAM)
SHRINERS CIRCUS TICKETS
FOR EMPLOYEES (TAE)
NORTHEAST STATE COLLEGE
MACHINE TOOL TECHNOLOGY
CLASS TOUR (TAE)
AMERICAS REGION
HANDS OUT YETI TUMBLERS
WITH THE COMPANY
NAME ENGRAVED
TO ALL EMPLOYEES



YETI

YETI







THANKSGIVING AND CHRISTMAS MEALS CHILDREN'S CHRISTMAS GIFT CARDS ANGEL TREE AT CHRISTMAS CHILDREN'S CHRISTMAS T REE ORNAMENT DECORATION CONTEST (TAG - TAE, LEFT) - (TAM, ABOVE)



VETERAN DAY (RIGHT)

(TAM)

HALLOWEEN (BELOW LEFT)
COOKING (BELOW RIGHT)



TSI (INDIA)

(FROM ABOVE RIGHT)
15TH AUGUST
YEAR END PARTY
DUSSHERA CELEBRATION

TSR (THAILAND)

(BELOW LEFT)
TEAM BUILDING









TEB (BOSNIA)

DEVELOPMENT
OF NEW PERSONNEL
AND VISITS TO THE FACULTY
OF MECHANICAL ENGINEERING
FROM SARAJEVO
ARRANGING PRACTICE
FOR NEW ENGINEERS
AND STUDENTS



VISIT OF AN ELEMENTARY SCHOOL





TCK (CHINA REGION) WOMEN'S DAY



TEI (ITALY)





CHRISTMAS PARTY (LEFT AND BELOW)









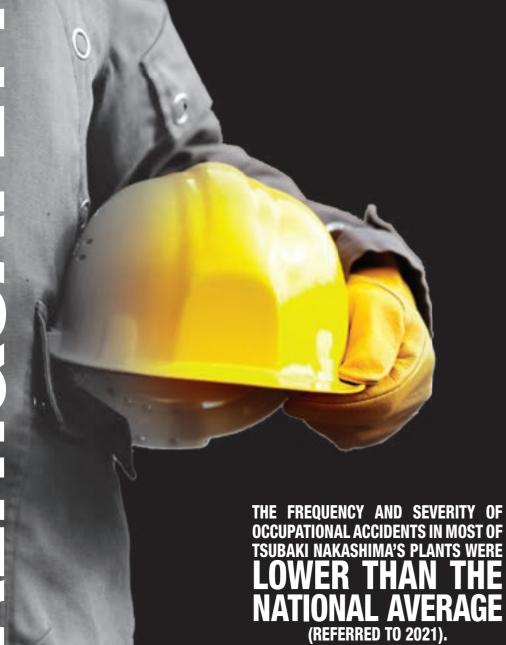
(FROM ABOVE LEFT)
FUNDRAISING
FOR CHILDREN IN HOSPITAL
AT CHRISTMAS
FUNDRAISING
FOR POOR FAMILIES
SPONSORSHIP
SUPPORTING
SOCIAL ASSISTANCE
MOBILITY
HELPING
UKRAINE POPULATION











NUMBER OF INJURIES



INJURY FREQUENCY BY PLANT

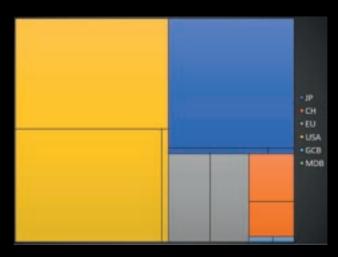
Injury/Illness Cases (Recordable + Lost days + Ergonomic in juries/illnesses events) x 200.000 / Total Worked Hours

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TJB	TJL	TŢŢ	TJS	TCT	TCC	TCK	TEN - R	TEN - SMP	TEB	TEI	TES	TEP	TEU	TSI	TAE - R	TAG	TAE-B	TAC	OſL	TSR	TAM
J	J	J	J	СН	СН	СН	EU	EU	EU	EU	EU	EU	EU	EU	US	USA	USA	USA	GCB	GCB	MDB

INJURY SEVERITY BY REGION

Injury Severity = Number of Lost Workdays x 200.000 / Total Worked Hours.



SAFETY MANAGEMENT INITIATIVES

Tsubaki Nakashima seeks to improve its safety and health programs around the world by holding regular meetings at all the organizational levels to share information, discuss issues and opportunities to improve to achieve ZERO Accidents and ZERO Occupational Illnesses. At the Management Committee level, during the bi-weekly meeting, our Executives update one another about actions being taken and discuss issues to identify opportunities for improvement. At the Regional and operational level, Managers, Supervisors, Workers' Representatives and Sustainability Representatives also meet regularly to share information (Sustainability Committee). According to the Global Sustainability System, an annual Management Review has been prepared in every plant and consolidated at Global Level.

Starting in 2019, we have developed a system of internal standards, based on international technical regulations (ISO) pertaining to safety, health and the environment, which is called Minimum Technical Standard, in order to:

Tsubaki Nakashima
Plants run the business
in a manner that results in
Injury Free, Incident Free and no
adverse environmental impacts,
in full compliance with TN
Management Principles,
International Standards

and local Laws.

clearly
state TN Plants'
obligation to develop
a Sustainability Plan
complying with the
Minimum Technical
Standards

Ensure
all Tsubaki
Nakashima Plants
utilize consistent EHS &
Energy standards and
establish/share
Best Known
Methods



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MINIMUM TECHINCAL STANDARDS

is a method of establishing uniformity of minimum expectations, over 43 minimum techincal EHS & E standards developed.

- A Procedure containing the International Minimum Standards
- A Visual example of what we are talking about
- A detailed and complete training session, with pictures and drawings
- Each MTS has adjoining MTS implementation Checklist

RAISING PEOPLE AWARENESS WITH ACCIDENT REPORTS

Tsubaki Nakashima analyzes all occupational injuries and accidents, identifies causes, and makes plans for preventing similar incidents. Occupational accidents are reported in the form of **PRELIMINARY ACCIDENT REPORT AND ROOT CAUSE ANALYSIS** which describes accident causes, countermeasures, and actions that all sites are to take to prevent similar accidents in the future. These reports are placed on the intranet (One Team Software) and discussed with employees.

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PROFESSIONAL DEVELOPMENT THROUGH SAFETY AND HEALTH TRAINING

Tsubaki Nakashima considers safety and health training vital for protecting employees. The training curriculum is tailored to the position, roles, and responsibilities of employees. Training for non-management employees focuses on practical techniques such as risk assessment and hazard prediction. Training for managers and supervisors focuses on leadership. All Group companies use the Training Plan to include specific EHS training. Our Chief HR Officer provided training concerning the Global Sustainability System and Minimum Technical Requirements to the Management Committee, Regional Presidents and all the HR & Sustainability Team members.

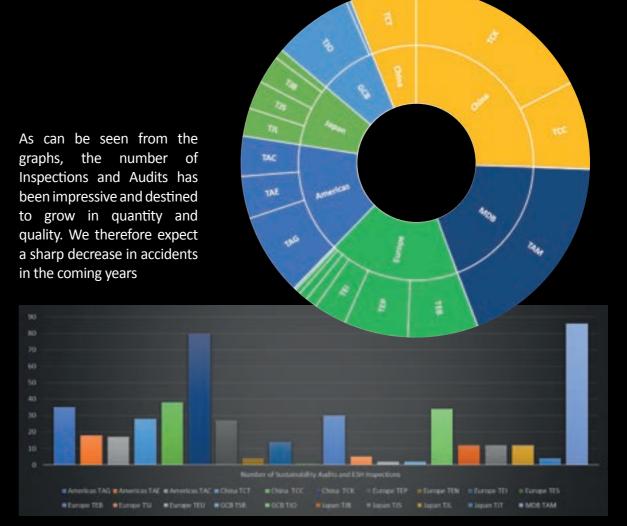


SAFETY ENGINEERING MANUAL

Our Safety Engineering Manual is a detailed guidance on how machine guarding, and electrical safety is to be set up and maintained to ensure employee protection.

In 2022, we implemented **TWO NEW TOOLS**: for environmental, safety and health inspection and a toolkit for safety and health risk assessment. This allows for an in-depth initial (and periodic) assessment, action plans for troubleshooting and improvement, and frequent monitoring of safety status. At the end of 2022 we then transformed the Safety & Health Inspection toolkit into software modeled on the Auditing system and preventive and corrective actions already adopted in the Quality Management System.

SUSTAINABILITY AUDITS AND ENVIRONMENT AND SAFETY INSPECTIONS IN 2022



SAFETY TRAINING

During 2022, and thanks to the decrease in travel difficulties following the pandemic, training courses on safety and health were held - with 31 modules and different topics, audits and awareness acquisition in the field involving 75 managers and supervisors in Japan, 25 in Thailand and over 150 in Europe. In 2023, there are plans to extend the training to America and China, thus covering the entire organization. The Talent LMS e-learning platform will make it possible to use all the training material (and course videos) both for on-boarding new employees and for refresh training.

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Safety Training Burspe 2002 - Session 1 Corporate	Safety Training Safety Training 2002	88-98-2022	***
Safety Training Europe 2003 - Session 2: Introduction	Safety Training — Safety Training 2022	11/08/2023	
Safety Training Europe 2003 - Seption 2: Risk Abse., Plus	Safety Training Safety Training 2002	11/06/2022	22
Safety Training Buropie 2002 - Session 3: Wolking and Working	Safety Training — Safety . Training 2002	11/06/2022	
Safety Training Burope 2022 - Session 3: Machine Guarding	Safety Training Safety Training 2022	\$1.48K/2522	***
Safety Training Bursow 2002 - Session 3: Look that Tag Out	Safety Training — Safety Training 2022	11.08/2022	



TCC (CHONGQUING) FIRE BRIGADE TRAINING







TSI (INDIA)

3 IMPORTANT PROJECTS IN THE FIELD OF WASTE REDUCTION, ELIMINATING LEAKAGES IN THE PRODUCTION DEPARTMENTS.

INTRODUCE RETURNABLE PACKAGING TO CUSTOMERS.

AMERICAS REGION TAC - TAE (TENNESSEE)

In 2022, both TAC and TAE improved their facilities to better comply with the standards of Tsubaki Nakashima, be at the forefront of innovative, creative, and inclusive ideas and suggestions, help create a safer environment, and build a team atmosphere.

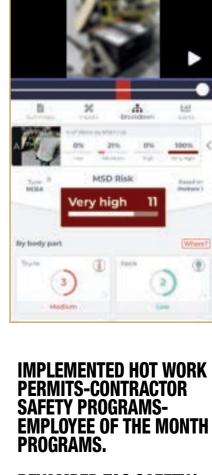


(RIGHT) ERGO AI STUDY **AND CORRECTIONS** (VIA TUMEKE **ÈRGO APP)**

(LEFT) IMPLEMENTING
FULLY ELECTRIC
HOISTS/ELIMINATING
PUSH-PULL MANUAL **HOISTS FROM MOST ACTIVE AREAS.** INSTALLATION **OF HIGH VIZ LOTO** (LOCK OUT-TAG OUT) STATIONS IN HI-**GH-TRAFFIC AREAS.** IMPLEMENTATION OF KEVLAR PROTECTIVE **SLEEVES PREVENTING DERMATITIS. PARTNERED WITH XENA WORKWEAR ON**

PROPERLY FITTING PPE FOR ALL WOMEN

IN THE WORKPLACE.



PERMITS-CONTRACTOR SAFETY PROGRAMS-EMPLOYEE OF THE MONTH PROGRAMS. REVAMPED TAC SAFETY/ SUSTAINABILITY TEAM WITH NEW EMPLOYEES, **GREATER FOCUS** AND MORE PRO-ACTIVE INTENSITY

MONTHLY SAFETY AWARD CONTEST IF NO INCIDENTS (TAC)

TAG (GEORGIA)

NEW N PROPYL BROMIDE SYSTEM to prevent pollution

in the plant environment and protect people's health.

NEW WIRE DRAWER

cleaning system in the heading department





TWO (2) SMOG HOG VENTILATION UNITS

put in place to eliminate unhealthy smoke and reduce the oil mist from contaminating and causing oil build up on machinery helping to reduce health effects and potential fires.



TSR (THAILAND)

CLEANING AREAS IN THE PLANT
HEALTH CHECK
DRUG TEST
White factory project

FIRE TRAINING











TEP (POLAND)

HONEY PRODUCTION BEE PROJECT **SOLAR ENERGY POWER** RENEWAL ACTIVITIES IN THE PLANT









TCT (CHINA)

CLEAN THE WORLD



TJB (JAPAN)

FIRST AID TRAINING AND FIRE DRILL





In 2022 our efforts were concentrated in collecting Scope 3 data for our raw material suppliers, and to extending the ESG questionnaire to all of our suppliers through our local purchasing networks during 2023

During 2022 Tsubaki Nakashima has started to engage its MAIN SUPPLIERS IN THE SUSTAINABILITY ROADMAP AND IN THE GREEN TRANSITION. We believe that all of our suppliers must be committed to the same challenges as we are facing, in other words, those related to sustainability. We also believe that it is really important to share and support each other in this journey. The purpose of this self-assessment questionnaire is to evaluate the Social, Governance and Environmental impacts of our main suppliers.

Following the guidelines of the GRI standard we evaluated several areas:

- ISO certifications
- Business ethics
- Child labour
- Forced labour
- Freedom of association
- Discrimination
- Working hours
- Compensation
- Safety and Health
- Environment
- Carbon footprint & sustainability goals
- Percentage of renewable energy used



91% **RAW MATERIALS SUPPLIERS EVALUATED**

81% **ARE ISO 14001** CERTIFIED

29% **ARE ISO 50001** CERTIFIED

62% **MONITOR THEIR CARBON FOOTPRINT**

43% **MONITOR THEIR % OF RENEWABLE ENERGY**

62% HAVE SET TARGETS FOR SUSTAINABILITY

SUSTAINABILITY AND SUPPLIERS 2023

One of the goals for 2023 is to let the Suppliers understand our strategy and activities and understand theirs. For that purpose, we plan to analyze with the Suppliers:

actions taken to address the significant actual and potential negative environmental impacts identified in the supply chain, and whether the actions are intended to prevent, mitigate, or remediate the impacts;

how expectations are established and defined in contracts with suppliers to promote the prevention, mitigation, and remediation of significant actual and potential negative environmental impacts, including targets and objectives;

whether suppliers are incentivized and rewarded for the prevention, mitigation, and remediation of significant actual and potential negative environmental impacts;

practices for assessing and auditing suppliers and their products and services using environmental criteria;

the environmental criteria for the assessment will be based on the contents of GRI 302: Energy, GRI 303: Water and Eflluents, GRI 305: Emissions.



ZERO VIOLATIONS!

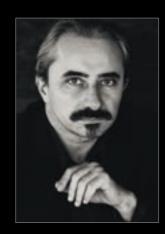
Through a specific tool for collecting data relating to sustainability (EGS THROUGH NUMBERS), obviously including Corporate Governance, and specifically the violations of the law contested by the Authority as well as access to the available Hot Lines, we monitor on a monthly basis what happens in our factories. Based on this we can state that during the year 2022 Tsubaki nakashima reported ZERO Violations of any law and local regulation, as well as ZERO Complaints from our Employees





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The graphic design and the graphic development of the contents in this publication were thought and created by MARIO BOIS, Italian eclectic artist, that expresses his creativity in different fields, being: graphic designer, actor in theatre and film industry, journalist, director, author and poet. He played the main character in "FIORI", movie nominated among the three finalists at Italian Golden Globe in Rome in 2022. Since 2021 he's glad to be called to work at new strategies and ideas for an efficient, creative and impressive corporate identity and communication for Tsubaki Nakashima.

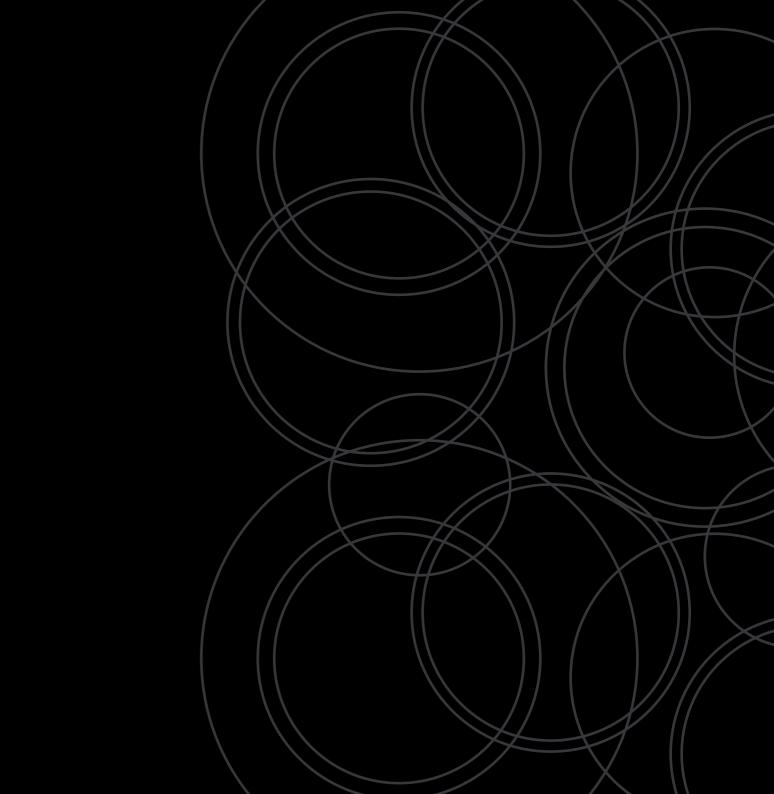
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