

The JPT logo is rendered in a bold, white, italicized sans-serif font. It is positioned in the upper left area of the page. The background is a vibrant red with a dynamic pattern of glowing yellow and orange particles and streaks that create a sense of depth and movement, resembling a starry field or a high-speed data stream.

JPT

2023

Social Responsibility Report

Shenzhen JPT Opto-electronics Co., Ltd.

The light chaser have infinite possibilities!

The JPTs firmly believe in this beam of light, it is a dream, a hope, perhaps a form of faith.

Adhering to integrity and innovation, we have dreams in mind and pursue excellence to achieve a win-win cooperation.

Join us on a journey with curiosity about the unknown and admiration for the future. Let's bravely embark on this path together.

Chasing light, moving towards the light.

About this report

Scope of report

Time range of the report: January 1, 2023 to December 31, 2023.

Disclosure scope of the report : Unless otherwise specified, the reporting scope of this report includes the entire Shenzhen JPT Opto-electronics Co., Ltd.

Reference standards for this report

"Guidelines for Self-Regulation of Listed Companies No. 1 - Standardized Operations", Chinese National Standard GB/T 36001-2015 "Guidelines for the Preparation of Social Responsibility Reports", Global Sustainability Standards Board "GRI Sustainability Reporting Standards" (GRI Standards), "Guidelines for Compiling Corporate Social Responsibility Reports in China" (CAS-CSR4.0) of Chinese Academy of Social Sciences, Sustainable Development Goals (SDGs) of the United Nations.

Preparation principles of this report

This report is prepared in accordance with the four principles of importance, quantification, balance and consistency.

- **Principle of importance:** Major stakeholders and their ESG issues of concern have been identified during the preparation of this report, and targeted disclosure has been made in this report according to the relative importance of their concerns.
- **Principle of balance:** This report follows the principle of balance and objectively presents the JPT's ESG performance and management status.
- **Quantitative principle:** the coverage and calculation methods of the data involved in the report have been marked in the report.
- **Consistency principle:** Unless otherwise specified, there is no significant adjustment in the disclosure scope of this report compared with the JPT's previous ESG reports, and consistent disclosure statistical methods are used.

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The background is a vibrant red with a dynamic, abstract design. It features numerous bright, glowing particles and streaks of light that radiate from a central point on the left, creating a sense of depth and movement. The overall effect is reminiscent of a starry night sky or a high-speed data stream.

Introduction of JPT

Chairman's Oration



Looking back on 2023, JPT achieved a high-quality survival, with all businesses remaining stable and team building laying a solid foundation. Guided by the global trend of sustainable development and the national "dual-carbon" strategy, we actively promoted intelligent manufacturing transformation, compliant operations, green development, and the co-construction of a harmonious society. Together with our customers and partners, we embarked on a new journey of sustainable development for Chinese manufacturing industry.

Single-minded focus—We prioritize technological innovation, focusing on niche areas, and aim to be strong rather than big. We strive to make our products among the best in the domestic and global markets, and become an indispensable 'hidden champion' in the global market.

Step by Step—We adhere to the market positioning of laser + core module and deeply cultivate the new energy market. In 2023, JPT achieved 'high-quality growth' in 'stable operation'. In the lithium battery field, we focus on serving leading customers, providing them with a full range of laser solutions, among which some laser performance and solution yields have exceeded foreign leading laser brands, promoting the process of domestic substitution; In the photovoltaic field, we successfully became a supplier to the leading equipment manufacturers, winning the first 100MW-level order from the top customer in the perovskite industry.

Expansion and contraction —In 2023, we streamlined our product lines to eliminate those with insufficient market demand, while accelerating our overseas expansion efforts to explore new growth areas. To better serve our customers, JPT established a laboratory in the United States and expanded into overseas markets such as Japan and India. Currently, we have set up an overseas center in Singapore, which radiates to major countries in Europe, Asia, and other regions, laying a solid foundation for our future expansion into overseas markets.

The green and intelligent era is arriving. Whether the transformation and upgrading of industries driven by the digital economy, or the green and low-carbon development responding to global climate change, the concept of sustainable development is profoundly changing people's lifestyles and economic development models. JPT will integrate the concept of sustainable development into its corporate strategy and business operations. Relying on continuous technological innovation, we will work hand in hand with global partners to build a better future.

Chairman Huang Zhijia
Shenzhen JPT Opto-electronics Co., Ltd.

Company Profile

Founded in 2006, Shenzhen JPT Opto-electronics Co., Ltd. (stock code: 688025) is a national high-tech company engaged in R&D, production and sales of lasers, laser/optical intelligent equipment and fiber optic components. After years of development, JPT has established an international R&D and marketing platform, with products and services covering throughout the world. On the basis of core laser technology, JPT has established laser & optics, test & measurement, motion control & automation and machine vision technology platforms, continuing to create value for customers.

JPT keeps developing proprietary intellectual property rights and has applied for over 700 patents and software copyrights, including over 200 invention patents. JPT has an excellent consulting, management, R&D and sales team composed of multiple overseas-educated PhDs, and PhDs or masters from renowned domestic universities. JPT has more than 20 PhDs and 80 master's degrees on staff, and is equipped with advanced production equipment and comprehensive R&D and testing equipment.

As China's first manufacturer of commercial pulse-width tuning high-power fiber lasers, JPT adhered to the positioning of "laser +", deeply rooting in core laser technology and focusing on laser core modules around key consumer electronics, pan-semiconductor, new energy and biomedicine areas to provide fiber lasers, solid lasers and ultrafast lasers of different categories, bands and modes and special equipment technology solutions including laser precision welding, precision processing of brittle materials, semiconductor module testing and marking, passive components and FPC/PCB drilling to power the advanced manufacturing.



Global leading
manufacturer
of MOPA pulsed fiber laser

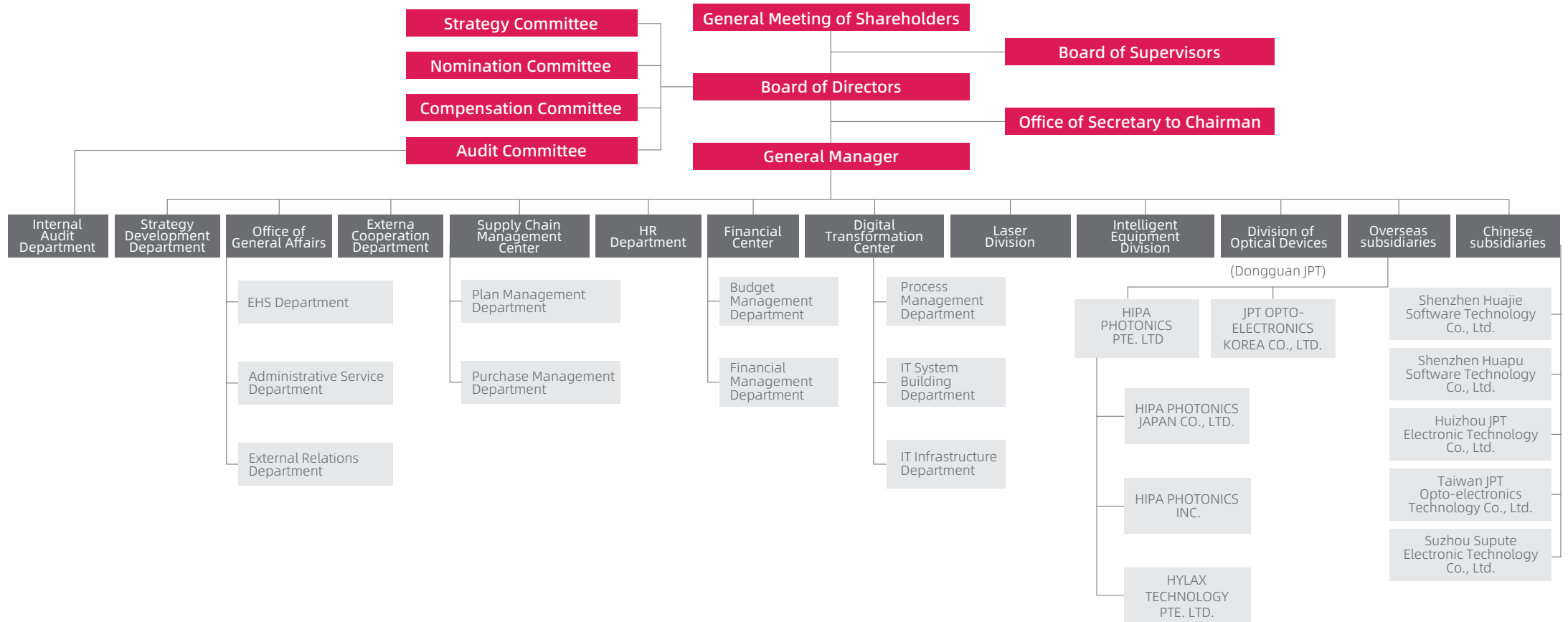
The most complete
variety
of industrial lasers

Industry status
The leading manufacturer of
laser technology

Best selling
of laser trimmer in the world

Leading laser
technology
of precision cutting and welding

JPT's Governance Structure



JPT's Culture.



Mission

Advancing intelligent manufacturing for a common bright future

Interpretation

Leading technology advances intelligent manufacturing, enabling a common bright life.



Vision

Drive by advanced laser technology, continuously create value for customers

Interpretation

Laser technology drives platform-based technology, serving customers beyond expectations in multiple dimensions.



Values

**Integrity and Innovation,
Embracing dreams,
Striving for excellence,
Collaborating for win-win success.**

Integrity and Innovation

Honest and upright, words and deeds are transparent, Focus on customers, Continuous innovation

Embracing dreams

Passionate about work, with a sparkle in eyes, Dare to take on tough challenges, Dare to win

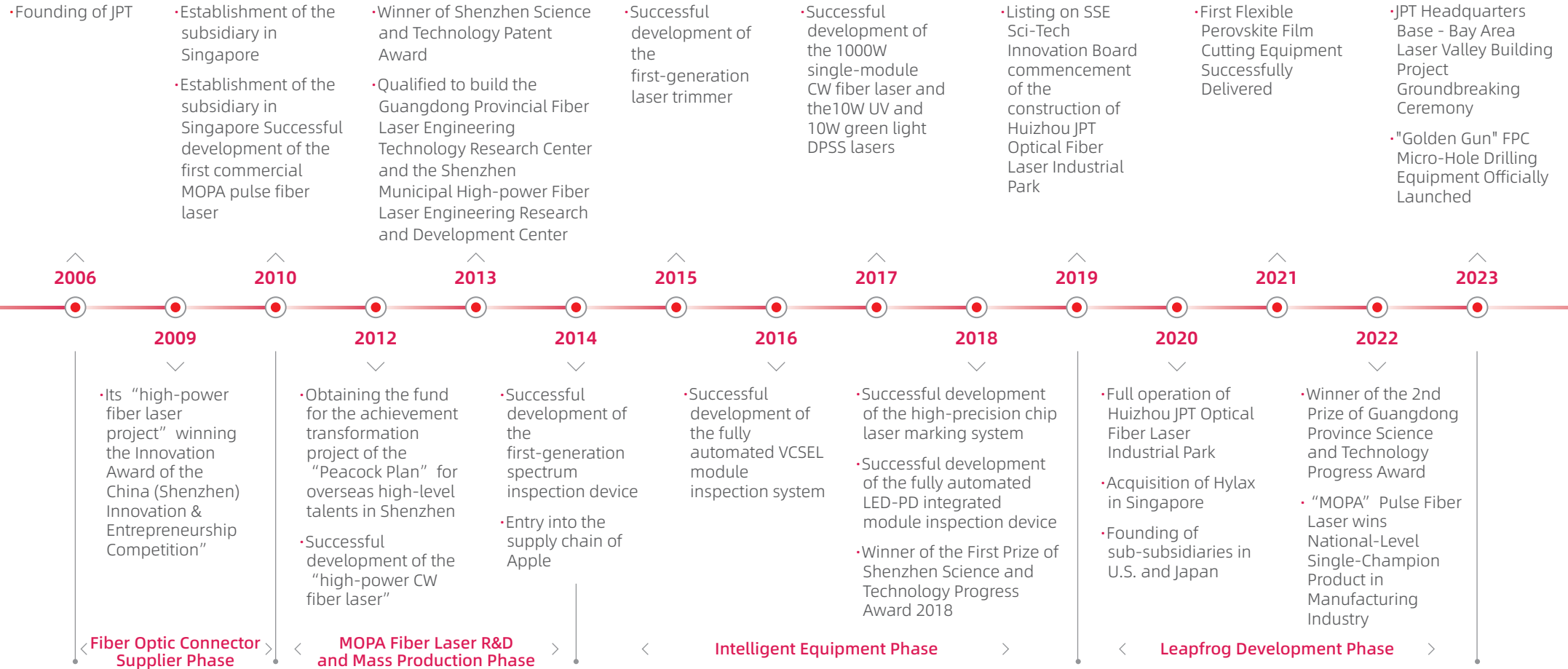
Striving for excellence

Baseline Thinking, Continuous Improvement, Always Striving for the first

Collaborating for win-win success

Building a Shared Destiny Community

Milestones



JPT's Honors in 2023

Guangdong Provincial Key Laboratory

Department of Science and Technology of Guangdong Province
March, 2023

The National Worker Pioneer

All-China Federation of Trade Unions
April, 2023

2022 Outstanding Enterprise for Employee Care

General Labor Union of Shenzhen
Longhua District Guanhu Street
April, 2023

National Quality Integrity Benchmark Enterprise

China Association for Quality Inspection
September, 2023

Shenzhen Industrial Grand Award

Shenzhen Industrial Association,
Shenzhen Business Daily
September, 2023

China Machinery Industry Science and Technology Award Third Prize

China Machinery Industry Federation,
China Mechanical Engineering Society
October, 2023

Shenzhen Industry Leader 100 Company

Shenzhen Industry Leader Enterprise Development and Promotion Association,
Shenzhen Business Daily
November, 2023

Special Award of 2023 Longhua District First Collective Bargaining Competition

Shenzhen Longhua District General Labor Union, Shenzhen Longhua District Human Resources Bureau, Shenzhen Longhua District Industry and Commerce Federation
December, 2023

Advanced Collective of Longhua District Harmonious Labor Enterprise Prize

People's Government of Longhua District, Shenzhen
December, 2023

One Chart to Understand Responsibility Performance in 2023

Economic Performance



Total Assets	RMB 2,547,913,299.64
Net assets attributable to the shareholders of the listed company	RMB 1,945,445,869.84
Operating Revenue	RMB 1,225,625,305.10
Operating Costs	RMB 721,816,048.58
Net profit attributable to the shareholders of the listed company	RMB 107,413,004.80
Basic EPS	RMB 1.14
ROE	5.68%
R&D CapEx	RMB 155,872,927.39
Total number of licensed technical patents	689

Social performance



Total tax payment	RMB 62,873,815.16
Donation expenditure	RMB 1,000,000
Expenditure on Poverty Alleviation and Rural Revitalization Projects	RMB 70,000
Number of Jobs Created	1,488
Proportion of Female Employees	26.27%
Proportion of ethnic minority employees	8.06%
Labor Contract Coverage Rate	100%
Social insurance coverage Rate	100%

Environmental performance



Green Energy

In 2023, based on the combined power of the lasers shipment, our customers have reduced about **46 million kWh** of electricity compared with traditional method.

Green production

A total investment of **RMB 3 million** yuan was put in Huizhou JPT factory for the construction and installation of rooftop photovoltaic power generation devices, with an installed capacity of **954.9KWP** and an annual power generation of about **1.1310 million KWH**. In 2023, all the electricity generated was used for Huizhou JPT's production. According to the standard coal carbon emission coefficient published by the National Development and Reform Commission's Energy Research Institute, the cumulative reduction in carbon dioxide emissions is approximately **897 tons**.

JPT's total emissions of waste and pollutants decreased by **8.1%** compared to the previous year, with hazardous waste emissions decreasing by **15.1%**. Water consumption per 100 million yuan of output value decreased by **18.2%** compared to the previous year.

Green operations

The company has always adhered to the concept of sustainable development, incorporating low-carbon energy saving and emission reduction, as well as climate change response into its operations, products, and services. We actively respond to the national call for 'carbon peaking and carbon neutrality', focusing on collaborative office and paperless office, building a smart office ecosystem, and using technology to empower enterprise to achieve low-carbon digital transformation, realizing energy saving and emission reduction, and cost reduction and efficiency improvement.

Procurement side: Saved procurement costs of **RMB 60 million**.
Management side: Reduced operating costs by **RMB 2.351 million**.
Product side: Replaced traditional processing methods to save **460 million kWh** of electricity for customers.

JPT's Governance



Strengthening the Foundation of Governance

Open, Transparent and Efficient Governance System

JPT has formulated a series of systems and rules in accordance with relevant laws, regulations and regulatory documents, including the "Company Law", "Securities Law", "Code of Corporate Governance for Listed Companies", and "Guidelines for Self-Regulation of Listed Companies". These systems and rules include the "Articles of Association", "Rules of Procedure for Shareholders' Meetings", "Rules of Procedure for Board of Directors Meetings", "Rules of Procedure for Supervisory Board Meetings", "Independent Director Work System", and "Board Secretary Work Details". These systems and rules regulate the operation of various institutions and ensure full compliance with the law.

JPT has also established a governance structure consisting of the shareholders' meeting, board of directors, supervisory board, and senior management, which forms a coordinated and balanced mechanism between the power institution, decision-making institution, supervisory institution, and management layer. This ensures JPT's high-efficiency, lawfulness, and transparency in its governance framework.

The company's board of directors is responsible to the shareholders' meeting and exercises its powers in accordance with national laws, regulations, and the "Articles of Association". The board of directors has established several committees, including the Strategy Committee, Audit Committee, Remuneration and Appraisal Committee, and Nomination Committee, and has formulated specific rules for committee meetings. As of the end of 2023, the board of directors has 9 members, including 6 non-independent directors and 3 independent directors.

The board of directors emphasizes independence, diversity, and professionalism. We are good at leveraging the advantages of professional talents in various fields and gathering diverse thinking modes to enhance the ability to respond to various risks, improve effective decision-making, and solve problems.

The Board of Supervisors oversees the company's financial management, major decision-making, the convening procedures and resolution implementation of the Board of Directors and the Shareholders' Meeting, as well as the legality and compliance of the duties performed by the company's directors and senior management personnel. It actively safeguards the company's interests and the rights of its shareholders. During the reporting period, the Board of Supervisors held six meetings, which reviewed periodical reports, related transactions, and accounting arrangements for the extension of the term of office, among other matters. It issued opinions on the supervision of related matters. The procedures for invitation, convening and deliberating the meetings complied with the relevant provisions of the Company Law, the Company Articles, and other legal, regulatory, and normative documents.



List of 2023 Company Governance-Related Meetings

Annual Shareholders' Meeting

1 time

Extraordinary Shareholders' Meeting

1 time

Board of Directors Meetings

10 times

Board of Supervisors Meetings

6 times

Internal Audit Committee Meetings

4 times

Nomination Committee Meeting

1 time

Compensation and Performance Evaluation Committee Meetings

2 times

Strategy Committee Meeting

1 time

In total, **26** company governance-related meetings were held

Empowering the 'Critical Few', Enhancing Governance Capabilities

In the governance of JPT, the "Critical Few" play a key role. We organize online and offline training for key individuals such as controlling shareholders, actual controllers, directors, supervisors, and senior management personnel through platforms such as the China Securities Regulatory Commission, law firms, and third-party consulting firms. This ensures that the "Critical Few" are aware of the latest legal and regulatory requirements, enhance their skills and knowledge in fulfilling their duties in a compliant manner, and contribute to the continuous improvement of the overall governance level of the company.

In addition, the Securities Department of the company provides training and education on information disclosure, internal reporting of major information, and other relevant matters to management personnel and employees of various departments such as operations, finance and R&D. So that we can continuously enhance the awareness of standardized governance among leaders and employees beyond the "Critical Few", ensuring that the company's internal control system is effectively implemented, and further promoting the company's standardized governance level.



During the reporting period, the company organized more than **10** training sessions for its controlling shareholders, actual controllers, directors, supervisors, and other senior personnel, which were organized by the China Securities Regulatory Commission, regulatory departments, and industry associations, covering over **40** individuals.

"Information Disclosure + IR" compliant linkage

JPT attaches great importance to investor relations management work. The designated website for the company's information disclosure is the Shanghai Stock Exchange website (www.sse.com.cn), and the designated newspapers for information disclosure are China Securities Journal, Shanghai Securities News, Securities Times, and Securities Daily. This ensures that all shareholders can fairly access the company's information. At the same time, the company communicates with investors through various channels, including the investor contact mailbox and dedicated consultation hotline, online interaction on the investor relations platform, and receiving investors' on-site research visits. The company actively maintains a good relationship with investors, increases the transparency of company information, and protects the legitimate rights and interests of all shareholders, especially small and medium-sized shareholders.

The company has established an information disclosure system, including the "Information Disclosure Management System" and the "Internal Major Information Reporting System", as well as an insider information registration and filing system. The system registers and manages individuals who have access to the company's operational, financial, and other insider information. Through the creation of a "Disclosure + IR" linkage, the company has innovated its information disclosure, improving its popularization and visibility.



During the reporting period, the company disclosed a total of **120** announcements, including **13** voluntary announcements. The company has also proactively disclosed its social responsibility report for three consecutive years, incorporating social responsibility concepts into its production and business operations. The report presents the company's achievements and highlights in multiple dimensions, including environmental, social, and corporate governance aspects, increasing investors' understanding of the company and enhancing the effectiveness of their decision-making.

Effective Investor Communication



Establishing a multi-level communication channel

The company attaches great importance to communication with investors and has established a multi-channel, multi-platform, and multi-method investor communication mechanism. Through the "information disclosure" linkage, the company organized **239** investor research and roadshows in 2023, and communicated with over **200** non-institutional investors through a combination of online and offline methods. This has enhanced investors' understanding and familiarity with JPT, and has gained the long-term attention and support of institutional investors, including public and private funds, promoting a healthy relationship between the company and its investors.

Compliant Business Practices

JPT strictly adheres to the common rules and regulations of listed companies and industry-related laws and regulations. Based on industry development trends and compliance conditions, we actively strengthens internal risk management and compliance governance. JPT continuously updates and iterates its internal and external compliance requirements, establishes a comprehensive internal and external compliance management system. This ensures that JPT and business partners operate in compliance and participate in various commercial activities. During the reporting period, the company did not have any non-compliant operations.

Strengthening the Internal Compliance Management System

JPT insists on promoting all the work within the framework of the rule of law, strengthening legal review, focusing on intellectual property, business operations, and litigation disputes, meanwhile compiling systematic documents such as "Compliance Requirements" to perfect compliance work from a systematic perspective.

In addition to construction of internal compliance, the company annually invites third-party auditors to conduct audits and inspections, and accepts supervision and management from government departments at all levels. The company also engages intermediary institutions and legal advisors to provide legal guidance on compliance matters related to global trade, intellectual property, anti-bribery and anti-corruption, human resources management, and other aspects. This helps the company's subsidiaries and departments to conduct compliant business operations, and conducts systematic supervision of the lawful and compliant operation of its subsidiaries, alerting to internal and external legal compliance risks.

Governing the company by law: Comprehensive compliance, all-employee compliance



Promoting External Compliance Management Standards

While continuously improving its internal compliance management level, JPT sets an example by promoting compliance management among its business partners, incorporating compliance concepts throughout the entire cooperation process, and striving to build a compliance ecosystem. Through practical actions, JPT guides its business partners to fulfill their compliance responsibilities.

JPT has completed the signing of the "Integrity and Honesty Cooperation Agreement" and the "Sunshine Procurement Business Behavior Code of Conduct Commitment" with its business partners, who are not allowed to engage in behavior that violates relevant laws and regulations. Suppliers are also required to make a commitment to not engage in bribery or corruption, and JPT will not cooperate with suppliers who have a serious record of dishonesty.

Improve Business Partner Access Management Mechanism

- Compliance Risk Preliminary Assessment: Before cooperating with new business partners, collect basic information about the partner, and conduct on-site research and compliance checks based on the partner's provided basic materials and actual business operations, and issue an inspection report.
- Strengthen business partner investigation (or duty investigation) to select highly qualified and reputable business partners to establish cooperation relationships.

Adhere to business partner compliance risk monitoring and early warning

- For business partners in cooperation, understand the true business situation of the partners from dimensions such as enterprise qualifications, business status, and business conditions, and understand the latest developments of the partners through regular communication.
- Conduct on-site compliance operation audits of business partners, and have on-site communication with their legal representatives and relevant business personnel to understand the true business situation of the partners.

Improve Business Partner Exit Management Mechanism

- Guide business partners who cannot complete the compliance improvement or engage in non-compliant business to exit normally.
- Actively contact and cooperate with business partners in the event of sudden compliance incidents, and assist in handling the issues.
- Establish a comprehensive blacklist database for business partners, and record the relevant events and reasons. Ensure the completeness and accuracy of the blacklist database.

Risk Management and Internal Control

The company adopts the risk management philosophy of "compliance governance, combination of prevention and control" to comprehensively manage the company's risks.

The Audit Committee under the Board of Directors is responsible for the company's risk management and internal control system, reviewing the company's financial reports and performance announcements. Relevant business management departments are responsible for implementing corresponding risk management systems and conducting daily risk management work.

JPT has established internal and external audit systems, covering various aspects of the company's operations and management, including bidding, procurement, warehousing, construction, and internal management audits. The company has also established a corresponding supervisory department, responsible for overseeing the operation of various business units within the company, including anti-corruption and anti-fraud efforts.

In the aspect of auditing for departing executives, JPT conducts checks and evaluations on the departing executive's performance, financial situation, and handover of work during their tenure, in order to achieve the purpose of risk management.

To establish a comprehensive internal control system, the company has published a series of risk management system documents, including the "Internal Audit Management System," "Internal Control System," "External Audit Management Process," "Risk Management Regulations," "Anti-fraud Management System," "Anti-fraud Complaint, Report, and Investigation Handling Process," "Employee Integrity and Self-discipline Commitment," "Information System Audit Management Regulations," "Outsourcing Audit Management System," "Expense Verification Management Regulations," and others, on the company's OA workflow and document platform.

No.	Module	Key Work Items	Main Regulations
1	Financial Audit	Regular Report Review and Analysis	"Internal Audit Management System", "Internal Control System", "Risk Management Regulations"
2	Internal Control Audit	IT Operations	"Internal Audit Management System", "Internal Control System", "Information System Audit Management Regulations"
		Subsidiary Management	"Internal Audit Management System", "Internal Control System"
3	Operational Audit	Sales Business	"Internal Audit Management System", "Internal Control System", "Risk Management Regulations"
		Procurement Business	"Internal Audit Management System", "Internal Control System", "Risk Management Regulations"
		Anti-fraud	"Anti-fraud Management System", "Anti-fraud Complaint, Report, and Investigation Handling Process", "Internal Audit Management System"
		Production, Inventory, and Warehousing	"Internal Audit Management System", "Internal Control System", "Risk Management Regulations"
4	Infrastructure Audit	Engineering Management	"Internal Audit Management System", "Internal Control System"
5	Major Matters Audit	External Investment	"Internal Audit Management System", "Internal Control System", "Risk Management Regulations"
		Fund Management	"Internal Audit Management System", "Internal Control System"
		Asset Management, etc.	"Internal Audit Management System", "Internal Control System", "Risk Management Regulations"

Intellectual Property and Information Security

The laser equipment and laser/optical intelligent equipment produced by JPT are all independently developed by the company.

In the period of January to December 2023, the company obtained authorized intellectual property rights totaling 58 items, including 14 invention patents, 10 utility model patents, 3 design patents, and 31 software copyright items.

As of December 31, 2023, the company had applied for 751 intellectual property rights, including 283 invention patents, 274 utility model patents, 46 design patents, and 148 software copyrights. As of December 31, 2023, the company had obtained authorized intellectual property rights totaling 537 items, including 93 invention patents, 258 utility model patents, 40 design patents, and 146 software copyrights.

List of Intellectual Property Rights Obtained During the Reporting Period and Accumulatively

	Added This Year		Cumulative	
	Number of Applications	Number of Grants	Number of Applications	Number of Grants
Invention Patents	31	14	283	93
Utility Model Patents	13	10	274	258
Design Patents	6	3	46	40
Software Copyrights	33	31	148	146
Others	0	0	0	0
Total	83	58	751	537



Intellectual Property Protection System

The company attaches great importance to intellectual property construction work, establishing the "Patent Reward System", taking intellectual property certification as the basis, and continuously breaking through the number and quality of patent applications from aspects such as intellectual property training, patent rewards, strengthening industry-university-research cooperation, and equipping intellectual property specialists. The company continues to increase investment in intellectual property, especially in the development of core technologies, protection of trade secrets, and crackdown on infringement, with increasing investment in these areas.

Intellectual Property Professional Team Building

The company has 4 full-time intellectual property personnel, and adheres to the principles of talent-led development, demand-oriented, quality and efficiency, and systematic promotion, striving to improve the company's overall intellectual property awareness and level.

Upholding Business Ethics

JPT continues to strengthen its corporate business ethics, adhering to the requirements of laws and regulations such as the "Anti-Money Laundering Law of the People's Republic of China" and the "Anti-Unfair Competition Law of the People's Republic of China". The company has established an anti-corruption/whistleblower protection system and an anonymous whistleblower protection system, resolutely preventing the occurrence of illegal business activities such as corruption and bribery.

Anti-Corruption

The company encourages both named and anonymous reporting, and publicly releases the company's audit and legal reporting phone numbers and email addresses in agreements with business partners and other business settings. The complaint and reporting channels are fully open to both internal and external parties, while the information of the reporter and the content of the report are strictly kept confidential to protect the reporter's privacy and information security.

Business ethics training data

Performance Indicators	2022	2023
Number of Internal Corruption Incidents (times)	0	0
Number of Internal Corruption Incidents (times)	0	0
Number of Cases of Corruption that were Publicly Prosecuted/Tried (times)	0	0
Percentage of Staff who Received Anti-Corruption Training (%)	46%	28%
Proportion of Operating Sites Covered by Corruption Risk Assessment	100%	100%
Proportion of Suppliers Signing the "Integrity Cooperation Agreement"	100%	100%

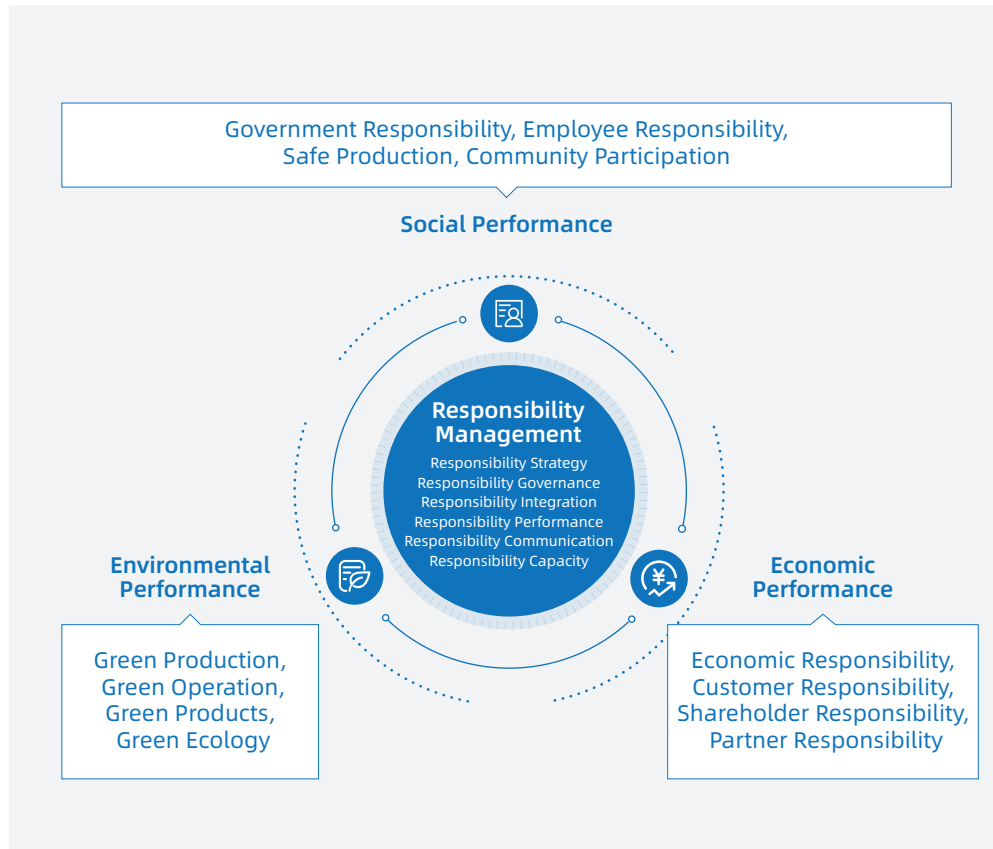
Note: The statistics of training personnel include the number of participants in offline training and the "JPT Growth Academy" training platform's related training courses.

Whistleblower Protection System

The company adopts the principle of "need-to-know" for personnel who receive whistleblower information, ensuring that only those who need to know are informed, and only to the minimum extent necessary. At the same time, the company provides regular training and education to relevant personnel on the importance of confidentiality, emphasizing that secrecy is the first principle of anti-corruption work, and adopting a zero-tolerance policy towards behavior and personnel that leak secrets.

Strengthening Accountability

Social Responsibility Model



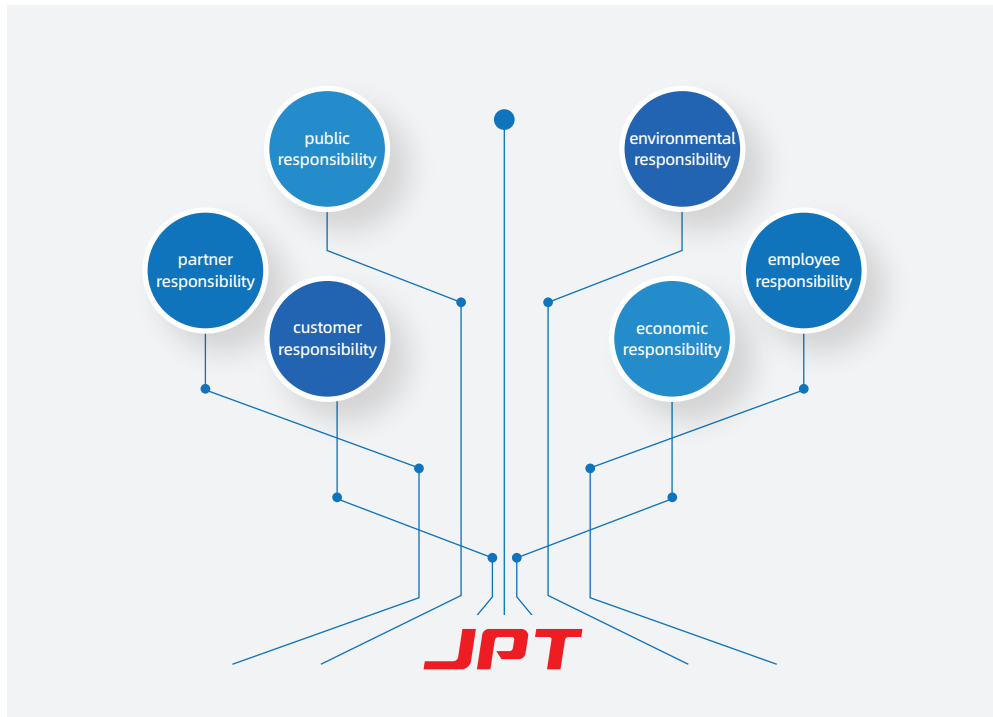
Identification and Management of Important Social Responsibility Issues

Based on the macro environment of sustainable development and the company's own development plan, in accordance with the principles of substance, integrity, and stakeholder participation, the company comprehensively identifies and prioritizes issues that have a significant impact on its business development and stakeholders, and determines the company's 2023 key social responsibility issues.



Responsibility strategy

JPT is committed to actively fulfilling its responsibilities in six major areas: economic responsibility, environmental responsibility, public responsibility, partner responsibility, customer responsibility, and employee responsibility.



Social responsibility organization system

The company continuously optimizes its social responsibility organizational structure, integrates social responsibility into its long-term, medium-term, and short-term development strategies and daily operations, and continuously carries out social responsibility management practices, striving to become a world-leading provider of laser and intelligent equipment solutions.



Stakeholder communication

Stakeholder	 Government, Regulatory Agencies	 Customer	 Partner	 Employee	 Community	 Environment
Communication Methods	Official Correspondence Information Disclosure Policy Implementation Daily Reporting and Communication Investigation and Exchange	Customer Needs Survey Hotline Service Network Regular Visits Customer Feedback and Handling	Exchange Visits Industry Forum High-Level Exchange Special Topic Seminar Satisfaction Survey	Staff Representative Conference Discussion Meeting Employee Training	Assisting "Anti-Epidemic" Efforts Precise Poverty Alleviation Public Welfare Activities	Environmental Policy Green Information Disclosure Green Operation
Expectations and Demands	Serving the National Strategy, Focusing on Core Technology Implementing Regulatory Policies and Information Disclosure Supporting Local Economic Development	Ensuring Product Safety Providing Convenient Services Protecting Customer Information Security Enhancing Customer Satisfaction	Protecting Intellectual Property Collaborative Win-Win Experience Exchange and Sharing Jointly Promoting Industry Development Comprehensive Rights and Interests Protection	Good Career Development Prospects Comfortable Working Environment Occupational Health and Safety	Supporting Local Economic Development Practicing Charity and Public Welfare Building a Harmonious Society Together	Promoting Green Operation, Green Production Saving Resources and Energy Advocating for Green and Low Carbon

JPT's Quality Management and Innovation



8 RECENT WORK AND
ECONOMIC GROWTH



9 INDUSTRY INNOVATION
AND INFRASTRUCTURE

Focus on Quality Management and Product Innovation

JPT adheres to the quality management policy of "high precision, high reliability, and high quality", and strictly controls quality management and product innovation. Since passing the ISO9001 quality management system, the company has been committed to continuously improving product quality. Firstly, improve product processing precision and intelligentization, through technical transformation and equipment updates. Secondly, strengthen internal systems to control quality, and set up quality control measures at all key processes, and add re-inspection links to ensure quality control at every step. Thirdly, enhance supplier management, and strengthen employee training to raise overall quality awareness.

JPT's products have also passed the EU CE certification and the US FDA certification, obtaining a "passport" for compliance and quality assurance in the international market.

List of System and Product Certifications

No.	Certificate Name	Certification Body	Certificate Number	Standard	Business Unit/Product Line		Applicable Product Models
1	Quality Management System	CEPREI Certification Body	01224Q30393R5L	ISO9001:2015	Group		Quality Management System
3	CE Certification	SGS Testing Institution	GZEE220100033131	EN 60825-1:2014	Pulsed Laser	Pulsed Laser YDFLP-10/15/20/30/40/50/60/70/80/100/120/	
4	CE Certification	SGS Testing Institution	GZEE220100033231	EN 60825-1:2014	Pulsed Laser	Pulsed MOPA Laser CL-50/100/200/300	
7	CE Certification	CTI Testing	CTL2101127031-EC	CTL2101127031-E	Solid-State Laser	Lark-355-3A,Lark-355,Lark-532	
8	CE Certification	CTI Testing	CTL2101127031-SC	CTL2101127031-S	Solid-State Laser	Lark-355-3A,Lark-355,Lark-532	
9	CE Certification	Shenzhen BKC Testing	BKC23041265DC	EMC -61000	Solid-State Laser	Laser-SEAL	
10	CE Certification	Shenzhen BKC Testing	BKC22113968KC	EMC-61000	Ultrafast solid-state laser	er-PS-IR-20/30/50/80-GR-15/30/50-UV-	
11	CE Certification	Shenzhen BKC Testing	CTNT221227002-ZS	60825--Laser Safety Class	Ultrafast solid-state laser	er-PS-IR-20/30/50/80-GR-15/30/50-UV-	

FDA Certificate List

No.	Product Line	Certificate Name	Original Certificate Number	2023 Audit Registration Number	Issue Date
1	CW Fiber Laser	FDA Certification	2111860-000	2330432-000	2023/7/3
4	Ultrafast solid-state laser	FDA Certification	2329177-000	2330447-000	2023/7/3
5	Ultrafast solid-state laser	FDA Certification	2320176-000	2330441-000	2023/7/3
6	Solid-State Laser	FDA Certification	2311083-000	New Case	2023/7/9
7	Solid-State Laser	FDA Certification	2311084-000	New Case	2023/7/10
8	Pulsed Laser	FDA Certification	2311085-000	New Case	2023/7/9
9	Pulsed Laser	FDA Certification	2311082-000	New Case	2023/7/9
10	Pulsed Laser	FDA Certification	2311086-000	New Case	2023/7/9



Case Study | Continuously Carrying out Quality Month Activities, Reflecting on "Zero Defects"

To closely align with the "Cost Reduction and Efficiency Enhancement" strategy, Chairman Huang Zhi-jia proposed the "Zero Defect" work concept of "doing things right the first time", which was organized and planned by the Quality Center as the 2023 "Quality Month" activity. Through the three themes of "Management Efficiency", "Quality Improvement", and "Internal Drive Efficiency", the organization's efficiency and effectiveness were fully utilized, and the potential of each employee was unleashed.

The Quality Month activity covered all employees of Shenzhen JPT Optoelectronics Co., Ltd. and its subsidiaries. The regions involved included Shenzhen, Huizhou, and Dongguan. This activity had a total of 1381 participants, with a full participation coverage rate of 90%.

The activity established the first QCC platform, implementing quality improvement teams at the grassroots and site levels, gradually promoting the application of problem-solving tools, including data statistical analysis tools such as QC's 7 Basic Tools and 6 Sigma, in line with the principle of evidence-based decision-making, improving problem-solving efficiency and effectiveness, with 3 projects published, directly creating economic benefits of over RMB 1.6 million.

In the rationalization suggestion project, the activity fully mobilized the enthusiasm of the employees and brought out the sense of ownership, collecting 124 rationalization suggestions that covered various aspects such as products, management, operation and maintenance, and processes. The rectification and closure rate was 100%.



Quality Month Rationalization Suggestion Statistics Table

Department/ Product Line	Rationalization Suggestion	Adopt	Already Rectified and Closed	Not Adopted	Department/ Product Line	Rationalization Suggestion	Adopt	Already Rectified and Closed	Not Adopted
Equipment Business Unit	88	84	84	4	Quality Center	6	6	6	0
Solid Product Line	4	2	2	2	Laser Strategic Development Department	2	1	1	1
CW Product Line	7	6	6	1	Laser Components Product Line	1	0	0	1
Pulsed Product Line	13	8	8	5	Digitalization Center	2	2	2	0
External Cooperation Center	1	1	1	0	Total	124	110	110	14

Supply Chain Quality Management

The company upholds the core values of "Integrity, Innovation, Dreaming, Excellence, and Win-Win Cooperation", and establishes cooperative relationships with suppliers and customers based on the principle of equality and mutual benefit, achieving win-win cooperation.



Customers



The company places great importance on communication with customers, and through regular interactions with customers, it understands their needs and provides them with high-quality services in a timely manner. The company has established a comprehensive supply chain internal control management system, with clear procedures and corresponding digitalization information systems for supplier selection, procurement processes, inventory management, and other related matters.

Supplier



In supplier management, the company selects suppliers through a rigorous evaluation process, and scientifically classifies and manages supplier qualifications. The company conducts strict testing, verification, and small-batch trials of materials. It signs cooperation agreements, quality guarantee agreements, and environmental and social responsibility agreements with suppliers. Through a performance evaluation system, the company dynamically manages suppliers' service capabilities, supply capabilities, cost, quality, environment, technology, and other aspects, continuously optimizing and developing supplier resources.

Within the company



The company's related departments work together to ensure timely product delivery and controllable product quality. The company select qualified suppliers using comprehensive indicators such as production capacity, process, delivery time, quality, and business affairs. Through efficient collaboration, the company helps suppliers grow and establish long-term stable cooperative relationships.

Innovative Thinking and Diversified Progress

As the first domestic manufacturer to introduce commercial MOPA pulsed fiber lasers, with technological innovation and experience accumulation in the field of core light sources, JPT filled the gap in the domestic market. After years of continuous development and innovation, the market share of this series of products has rapidly increased, achieving the global sales champion in the subdivided field, breaking the monopoly of American IPG and British SPI in this field, and achieving import substitution.

In response to the changing demands of the industrial laser market, the Pulsed R&D Department proactively transformed its development direction, shifting its focus towards new energy battery, photovoltaic, and laser cleaning applications. Within a short period, the department delivered pulsed fiber lasers that surpassed the performance of foreign counterparts, and through multiple performance tests and reliability verifications, became the specified product model for leading industry customers. Today, JPT has made further advancements in the pulsed fiber laser field, achieving single-mode pulsed fiber laser powers of kilowatt-level, multi-mode pulsed fiber laser powers of kilowatt-level, and pulse energies of hundreds of millijoules. The company has also launched femtosecond pulsed fiber laser products. In the subdivided field, JPT has a first-mover advantage, and with continued technological breakthroughs in high-power and high-brightness fields, coupled with the opening up of the domestic replacement market for power batteries, the company is expected to achieve a comprehensive surpassing of foreign manufacturers!



Case Study | Won the National Manufacturing Industry Single Champion and the "Shenzhen Industrial Grand Prize"

In the list of companies that won the National Manufacturing Industry Single Champion award, announced by the Industrial and Informationization Department and the China Industrial Economy Association at the end of 2022, JPT's "MOPA Pulsed Fiber Laser" won the honor of "National Level Manufacturing Industry Single Champion Product"!

The MOPA pulsed fiber laser is a core component of high-end laser equipment manufacturing, involving optical engineering, mechanical design, electronics, and automation. JPT has been researching high-power pulsed laser technology in recent years and has successfully launched the LP, M7, M8, and CL series MOPA pulsed fiber lasers, which are widely used in laser surface processing, laser cleaning, thin metal cutting/welding, and other applications. These lasers have been stably operating 7*24 hours at customer sites, effectively verifying their industrial stability.

单项冠军产品（第七批）		
序号	单项冠军产品名称	生产企业名称
1		
2		
3	脉宽可调（MOPA） 脉冲光纤激光器	深圳市杰普特光电股份有限公司
4		
5		
6		
7		





The photo shows the 2023 6th "Shenzhen Industrial Grand Prize" award ceremony held in Shenzhen, where JPT won the "Shenzhen Industrial Grand Prize"!

The "Shenzhen Industrial Grand Prize" is jointly organized by the Shenzhen Industrial Association and the Shenzhen Commercial Daily, and is the highest honor in the Shenzhen industrial circle. The award is held every two years, aiming to vigorously promote the industrial spirit, create a social atmosphere that values the real economy, commend the outstanding achievements of Shenzhen industrial enterprises and industrialists, set up a high-quality development benchmark for the Shenzhen industrial sector, and fully leverage the important role of Shenzhen industrial enterprises in the construction of the "Dual Zones".

The vast majority of industrial enterprises that participated in this evaluation are industry leaders and "Shenzhen Well-known Brands", enjoying widespread social recognition and reputation, high market share, and significant investment in research and development of new technologies and industries. They have strong core technical capabilities and represent the highest level of Shenzhen's industrial enterprises. JPT's winning of this award is not only a high recognition from various industries, but also an acknowledgment and encouragement of JPT's technical strength and innovative achievements.



Management Transformation and Digital Innovation

In 2023, the company continued to deepen its digital transformation, with a focus on improving customer experience and satisfaction, and providing end-to-end operational efficiency. We implemented a CRM transformation project, achieving closed-loop management from sales lead discovery to order delivery, and from customer issue reception to resolution. The company achieved tiered classification and credit management of over 4,000 customers, and managed the entire process of 85,000 orders, including delivery, invoicing, payment, and acceptance. It also handled over 15,000 end-to-end service requests, significantly improving operational efficiency and standardization, and effectively enhancing customer satisfaction.

Modules	Content	Online Platform	Achievements
Customer Management	Unified management of customer groups in multiple sectors such as devices, equipment, and lasers, through tiered classification to focus on high-value customers, aggregating customer, decision-making chain, credit, transaction, and service information to build a 360-degree customer view.	CRM	Conducted tiered classification and credit management for over 4,000 customers
Lead Management	Collecting leads, verifying and cultivating leads, achieving business interactions with the market and customers in the process of meeting customer needs.	CRM	Expanded the sales funnel, achieving visual management of leads
Sales Management	Multi-business line sales process transparency and standardization, efficient collaboration among multiple departments for sample/sending, real-time grasp of order, delivery, invoicing, and payment situations through system integration, and precise sales forecasting provides a basis for production preparation.	CRM	Achieved comprehensive management of 85,000 orders, including delivery, invoicing, payment, and acceptance
Service Management	Implemented end-to-end closed-loop management of various types of service business, including consultation complaints, on-site services, returns to factory/returns, etc., to enhance the timeliness and quality of services, and transparent management of spare parts to ensure timely supply.	CRM	Handled over 15,000 service requests

Performance Indicators	2022	2023
Quarterly Satisfaction Survey Coverage Rate for Important Customers	100%	100%
Overall Customer Satisfaction	98%	98%
Number of Serious Quality Issues Leading to Product Recalls	0	0
Number of Complaints of Products Causing Harm to Consumer Health and Safety	0	0
Number of Valid Customer Complaints	63	58

Case Study | JPT's Digital Transformation Achievements Featured on CCTV

In 2023, JPT firmly promoted digital transformation, adopting advanced digital systems, and completed the automation transformation of the finished product testing workstation on the MOPA pulsed laser production line. Through digital transformation, the workstation achieved a significant 150% increase in production efficiency while reducing the number of workers! The annual output also increased by 30%.

Behind these impressive numbers is JPT's unwavering commitment and effort to technological innovation and efficiency improvement. Digital transformation has not only impacted the production line but has also permeated the enterprise management system. Through digital transformation, we have successfully abandoned the previous manual operation mode, and work efficiency has increased significantly. Now, the sales, inventory, and operating data of each product line can be presented in real-time, providing accurate decision-making basis for product line managers to make timely adjustments and improvements. The preparation time for the company's annual report has also been shortened by a whole month. Digital transformation has enabled JPT to be more sensitive to market trends, make more accurate decisions, and enhance its core competitiveness.

It's worth mentioning that in 2019, when the company fully launched its digital transformation journey, in addition to its own investment, the Shenzhen Municipal Government also provided strong support, with a subsidy of up to 3.71 million yuan for digitalization-related projects. The Shenzhen Municipal Government and Longhua District Government also awarded the digital transformation project. In 2021, JPT won the title of the third batch of national-level "Specialized, Refined, Special, and New" small giant enterprises, with remarkable achievements. In July 2023, JPT's digital transformation achievements were reported by CCTV.

Case Study | JPT HiPA American Laboratory Opens Up New Market Space for the Future

The establishment of JPT HiPA's American laboratory is one of the company's key strategies for expanding its overseas market. HiPA focuses on high-precision automated optical measurement and laser micro-processing integrated equipment, perfectly combining advanced optical technology with automation technology on the basis of high precision, creating high-efficiency intelligent equipment. HiPA's pursuit of high-precision development aligns with the highly diversified and high-tech industrial development trend in the US market. In 2023, the establishment of JPT HiPA's American laboratory not only opened up new market space for future development but also enabled HiPA's commercial influence to interact effectively with overseas innovation opportunities, thereby improving the company's global operational efficiency and better serving global customers.

JPT HiPA's American laboratory will provide high-quality intelligent equipment products and efficient services to international market customers, helping them better understand the high-quality technology innovation companies from China, and enabling JPT to rapidly grow into a highly influential high-efficiency intelligent equipment provider in the US.



JPT's Sustainable Development



Enhancing Environmental Governance

The company has always adhered to the concept of sustainable development, integrating low-carbon energy reduction, responding to climate change, and other initiatives into its operations, products, and services. We actively respond to the national call for "peak carbon, carbon neutrality", empowering enterprises with technology to digitalize their low-carbon transformation, achieving energy conservation and emission reduction, reducing costs and increasing efficiency, focusing on collaborative office work and paperless office, building a smart office ecosystem.



Environment

• Percentage of employees who have received training on environmental issues (internal or external) in all regions	90%
• Percentage of workplaces that have conducted environmental risk assessments out of all workplaces	100%

Energy saving and emission reduction

The company actively promotes energy conservation and reduction, and the rational use of resources, strictly adhering to the "Environmental Protection Law of the People's Republic of China", the "Energy Conservation Law of the People's Republic of China", and the "Law on the Prevention and Control of Solid Waste Pollution in the People's Republic of China" and other laws and regulations. The concept of sustainable development is integrated into the company's operations and the entire life cycle of its products. The company has formulated a medium- and long-term carbon reduction plan, and is committed to becoming a leading enterprise in energy conservation, low-carbon environmental protection, and making a due contribution to achieving the goal of "carbon peak, carbon neutrality".

JPT takes the responsibility of seriously implementing the national and local environmental protection policies, laws, and regulations of the country. It strictly adheres to the environmental impact assessment system and the "Three Simultaneously" system, and implements the requirements for reporting and approving environmental impact assessment reports, as well as the requirements for the approval of environmental facilities. The company's manufacturing bases in Shenzhen, Huizhou, and Dongguan do not emit any industrial wastewater. The company regularly monitors wastewater, waste gas, and factory noise pollution, ensuring compliance with the emission standards. The company strictly controls the emission of solid pollutants and sets up special warehouses for the storage of hazardous waste. The company promptly transfers hazardous waste to qualified processing companies for disposal. The company has formulated a reduction plan for waste disposal and strictly implements it.

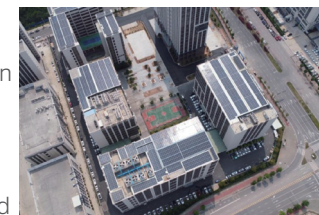
In terms of green and low-carbon development, the company has taken various measures to reduce the unit energy consumption of various energy sources. Every year, the company conducts a carbon emission inventory check for Scope 1 and Scope 2 emissions in accordance with the "Shenzhen City Organization Greenhouse Gas Inventory Report Writing Guidelines". Based on the national "30/60" dual-carbon goal and customer requirements, the company has formulated a medium- and long-term carbon reduction plan, and reviewed specific emission reduction schemes in combination with the company's internal data of carbon verification for the benchmark year.

Due to the diversity of JPT's products, the large number of customers, and the fact that most customers select customized equipment, the company has a large number of upstream suppliers and downstream customers with delivery locations all over the world. As a result, it is challenging to conduct carbon emission verification of Scope 3 for the entire value chain. Currently, the company has formulated a plan to conduct a pilot project for carbon emission verification of Scope 3 for specific product lines by 2025.



Case Study | Using Green Energy to Reduce Carbon Emissions

The Huizhou JPT factory invested 3 million yuan to build and install a rooftop photovoltaic power generation system, with a total installed capacity of 954.9 kWp. The annual power generation is approximately 1.131 million kWh. During the reporting period, the project was completed and put into use, and the generated electricity was used entirely for production at Huizhou JPT. According to the carbon emission coefficient of standard coal published by the National Development and Reform Commission's Energy Research Institute, the project reduced carbon dioxide emissions by 897 tons in 2023.



Roof-mounted Photovoltaic Power Generation System at Huizhou Factory

2023 JPT Energy Consumption Data

Energy Category	2022	2023
Diesel Consumption (Liters)	14,500	230.6
Gasoline Consumption (Liters)	125,460	40,415
Liquefied Petroleum Gas (N.m ³)	13,280	0
Electricity Consumption (KWh)	Shenzhen 2,765,653	Shenzhen 3,241,247
	Huizhou 8,188,705	Huizhou 6,798,584
	Dongguan 143,676	Dongguan 135,804
Internal Clean Energy (KWb) Roof Top Photovoltaic system in Huizhou	573,895	1,131,044

2023 JPT Water Consumption and Wastewater Discharge Data

Water Consumption and Discharge	2022	2023
Total Water Consumption (Tons)	67,641	55,321.50
Municipal Water (Tons)	67,641	55,321.50
Surface Water (Tons)	0	0
Groundwater (Tons)	0	0
Other Sources of Water (Tons)	0	0
Water Consumption per Million Yuan Output (Tons/1 Million Yuan)	57.65	47.15
Industrial Wastewater Discharge (Tons)	0	0
Domestic Wastewater Discharge (Tons)	64,259	55,556

2023 JPT Greenhouse Gas Emission Data

Greenhouse Gas Emission Indicators	2022	2023
Scope 1 Direct Emissions (tCO ₂ e)	351.12	207.81
Scope 2 Direct Emissions (tCO ₂ e)	10,530.92	10,718.73
Scope 1 and 2 Total Emissions (tCO ₂ e)	10,882.04	10,926.53
Carbon Reduction through Clean Energy Use (tCO ₂ e)	1,139.07	897
Operating Revenue (Million Yuan)	1,173.31	1,225.63
Carbon Emission Intensity (tCO ₂ e/Million Yuan)	9.27	8.92

2023 JPT Waste Disposal Data

Waste Types	2022	2023
Total Waste Disposed (Tons)	125.38	115.21
Hazardous Waste (Tons)	1.59	1.35
General Solid Waste (Tons)	115.02	143.2
Recycled and Reused Waste (Tons)	8.77	7.57
Landfill Waste (Tons)	0	0

Cost Reduction, Efficiency Improvement

In 2023, the company achieved significant cost reduction through multi-process and multi-node management at both the management and product ends.

On the management side, we achieved cost savings through property management, energy consumption control, and fine-grained management of administrative expenses. As a result, we reduced operating costs by 2.351 million yuan in 2023.



The Nanshan office area was replaced with a smaller space ahead of schedule, and the deposit was fully refunded. This resulted in an annual savings of **196,000** yuan in rent.

The Dongguan company was exempted from paying rent for three months, resulting in a savings of approximately **250,000** yuan.

The property management fee for Komron was reduced by **0.5** yuan per square meter through coordination, resulting in a savings of **108,000** yuan per year.

Property Management Aspect



The Yipeng Park coordinated with the power grid to implement peak-valley measurement, and electricity bills were paid directly to the power supply department, resulting in a savings of 780,000 yuan for the year.

The Huizhou Park established a special energy-saving and consumption reduction project, which reduced electricity consumption by 980,000 kWh compared to the previous year (including a reduction of 650,000 kWh in air conditioning electricity consumption, with production value remaining basically stable year-over-year).

The Huizhou Park's solar photovoltaic power generation system produced approximately 1.1 million kWh of electricity, with normal operation and maintenance of the equipment.

The Komron Park implemented a night shift inspection system, where personnel checked the air conditioning and lighting switches to eliminate waste and reduce electricity consumption.

Energy Consumption Control and Cost Reduction



The company centralized the management of waste materials, sold them in bulk, and realized a revenue of 135,000 yuan.

The company set up temporary apartments for business trips in Shenzhen and Huizhou, providing convenience for employees on business trips and saving approximately 650,000 yuan in hotel accommodation fees.

The company adjusted the timing of meal subsidies, revised the rules for issuing work uniforms, and cancelled parking fee reimbursements. By adopting a more meticulous, considerate, and thoughtful work attitude to serve everyone, the company reduced overall administrative expenses while maintaining administrative service satisfaction levels.

The company compared prices among several suppliers for festival welfare gifts, choosing the ones with the best quality and lowest price, resulting in a 12% decrease in costs compared to the previous year, saving approximately 32,000 yuan.

The company reasonably allocated office furniture, and handled minor engineering projects and renovations in-house, saving approximately 200,000 yuan.

Control of airline tickets and business travel expenses: Introduce a new partner, reduce service fees (by 6-11 yuan per ticket), and compare prices among three service providers. Select the one with the lowest price.

Administrative Expense Control

Procurement Side

Each business unit saved 60 million yuan in procurement costs through optimization of the supply chain system and digital management.

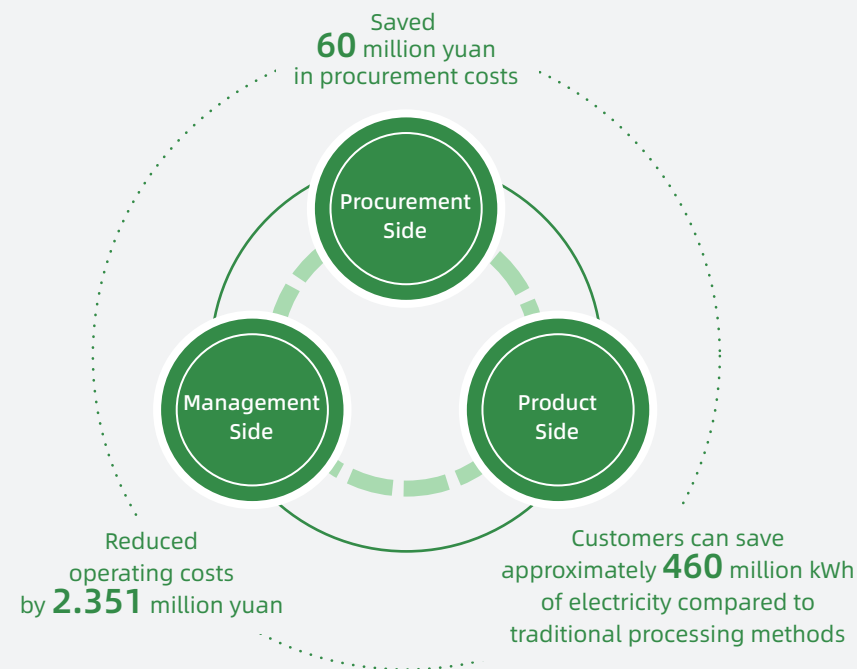
Management Side

The company has always adhered to the concept of sustainable development, incorporating low-carbon energy conservation and emission reduction, as well as climate change response into its operations, products, and services. JPT's employees take the construction of ecological civilization as the main line, actively practicing the concept of green and low-carbon development, carrying out all-employee energy conservation and emission reduction activities, sharing green development achievements and resources, and creating a social fashion that advocates for frugality, reasonable consumption, and low-carbon environmental protection. JPT is committed to adhering to the principles of green environmental protection, energy conservation, and emission reduction, and will take the creation of an eco-friendly enterprise as its responsibility, strengthening technological innovation, and walking a stable and high-quality development path that prioritizes ecology and green low-carbon development, making contributions to social green low-carbon circular development.

Through various measures, the company reduced operating costs by 2.351 million yuan.

Product Side

Laser manufacturing, as an important processing method for advanced manufacturing, has a high photoelectric conversion efficiency and can effectively help customers achieve energy-saving and green production, contributing to "carbon neutrality". Through various technical means, the company has reduced energy consumption and costs, and improved efficiency in its own operations. In 2023, based on the total output power of the company's laser equipment, customers can save approximately 460 million kWh of electricity compared to traditional processing methods.



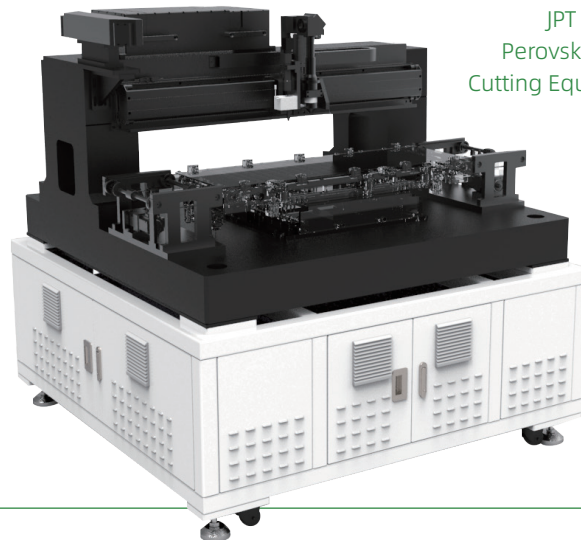
Case Study | Green Smart Manufacturing Helps Achieve "Dual Carbon" Goals

With the establishment of China's "dual carbon" goals, the country's photovoltaic, energy storage, and new energy vehicle industries have experienced rapid development, becoming global industry benchmarks. JPT has applied advanced laser technology to support the achievement of the dual carbon goals through smart manufacturing, demonstrating outstanding performance in energy conservation and emission reduction, as well as improving energy conversion efficiency.

In the photovoltaic industry, JPT's single-mode continuous fiber laser is an optimized combination of light, machine, electricity, and software, with many advantages such as high electro-optical conversion efficiency, low energy consumption, compact structure, maintenance-free adjustment, flexible fiber output, and ease of customer integration. JPT's advanced pump source technology has also effectively solved the heat management problem, providing users with low-energy consumption solutions and achieving energy conservation and emission reduction in actual device use.

In 2023, JPT successfully won the first 100MW-level order in the photovoltaic cell field, and cooperated with the leading enterprise in the perovskite photovoltaic cell industry, Xiexin Optoelectronics, to build a 100MW perovskite photovoltaic cell production line laser scribing full set of equipment. This marks a new milestone for JPT's perovskite photovoltaic cell laser scribing technology. By the end of July 2023, the entire 100MW perovskite laser scribing equipment had been successfully delivered to the customer. The company has begun to layout the research and development of the next generation of GW-level production lines and will continue to explore and innovate in the field of laser applications in the photovoltaic cell industry, adhering to its original intention, striving for excellence, and continuously innovating!

In the energy storage industry, in recent years, we have jointly innovated with industry partners, actively investing and researching to develop a series of laser intelligent equipment for high-precision scribing of thin-film batteries, catering to different production capacity and product types. The equipment includes laboratory and small-scale production line equipment, as well as 100MW-scale pilot production line equipment. Benefiting from JPT's years of technical accumulation in optical design, motion control, and precision measurement, the laser scribing equipment can meet customers' high-precision scribing demands.



JPT Flexible
Perovskite Film
Cutting Equipment

In the actual laser welding production process, lack of welding, missed welding, and pseudo-welding have always been the main problems that produce defective products. The company developed a welding process monitoring module (WPD) for customers, which can monitor the radiation light signals of each workpiece during welding, including plasma radiation, melt pool thermal radiation, and laser back-reflection, and then analyze the changes in various electrical signal parameters during the subsequent welding process to determine the quality of the workpiece welding. This achieves the purpose of defect detection and quality control, ensuring that the customer's battery products meet quality standards.

In 2023, the company provided a perovskite laser film cutting device for the 100MW production line of a leading customer in the perovskite battery field, further optimizing the consistency of the laser scribing line width and the parallelism between lines on large-area thin-film batteries, helping the customer to improve the conversion efficiency of perovskite batteries.

In the new energy vehicle industry, the company customized and developed a laser product for cutting battery-grade sheets for its power battery customers. The presence of burrs on the battery-grade sheets can increase the risk of the battery pack being punctured by the burrs, leading to spontaneous combustion of the battery. The company's independently developed laser product can achieve burr-free cutting of battery-grade sheets, effectively reducing the risk of battery self-ignition and improving the safety of the customer's battery products.

Build a responsible supply chain

We adhere to the principles of win-win cooperation and honest integrity, and operate with the mission of fair cooperation. We fully respect and protect the legitimate rights and interests of suppliers, customers, and consumers, and establish good cooperative relationships with them. Our supply chain is constantly evolving, gathering collective wisdom, and building a safe, reliable, and efficient supply chain, enhancing the core competitiveness of the supply chain, and providing better delivery services and experiences for our customers.

Win-Win Cooperation

Adhere to the concept of win-win cooperation, and engage in in-depth exchanges with suppliers in multiple dimensions such as business, technology, quality, and innovation. Maintain long-term good cooperative relationships with suppliers, continuously enhance the market competitiveness of the company's products, improve product quality, and reduce material costs.

Supplier Management

Select and evaluate suppliers, scientifically classify and manage their qualifications; conduct strict testing, verification, and small-batch trials of materials. Sign cooperation agreements, quality guarantee agreements, and social responsibility agreements with suppliers. Use a performance evaluation system to dynamically manage suppliers' services, supply capabilities, costs, quality, environment, technology, and other aspects, and continuously optimize and develop supplier resources.

Supply Chain Security

Achieve high compatibility and substitutability in R&D, increase the width of supply chain choices, and select the best options. Strengthen strategic cooperation with leading supply chain enterprises, and enhance predictive capabilities to improve supply chain flexibility and rapid response.

Transparent Procurement

Implement a digital information system, create a high-efficiency, transparent, and intelligent procurement information system, making procurement more standardized, convenient, and efficient.

Performance Indicators	2022	2023
Number of Safety Violation Penalties	0	0
Number of Environmental Violation Penalties	0	0
Number of Human Rights Violation Penalties	0	0
Number of Product Violation Penalties	0	0

JPT Employees



Employee Rights Protection

The company strictly adheres to the laws and regulations, including the "Labor Law of the People's Republic of China" and the "Labor Contract Law of the People's Republic of China", and recruits and employs personnel in accordance with these laws and regulations. The company also provides employees with competitive salaries within the industry, ensuring that employees receive reasonable compensation.

The company attaches great importance to the protection of employees' rights and interests, and has established a relatively complete system of employee rights and interests protection, covering employee rest and vacation, salary and benefits, occupational health examination for employees in hazardous positions, and other human resources systems, as well as management systems for personnel safety, office equipment safety, and office environment safety.

The company has made a commitment to occupational health and safety, with the highest management level approving the policy, and all personnel participating in occupational health and safety management and performance improvement. The company identifies and evaluates the hazards of each process, position, workplace, equipment, and facility before they are put into use, and takes corresponding measures to prevent risks and ensure that they are within the permitted scope. The company continuously revises and improves its occupational health and safety management to meet the requirements of relevant laws and regulations. For positions with hazards, the company organizes annual occupational health examinations for employees to ensure their physical health, eliminate occupational hazards, and prevent occupational diseases.

JPT strictly adheres to the "Labor Law of the People's Republic of China", the International Labor Organization (ILO), the "United Nations Global Compact" (UNGC), the Responsible Business Alliance (RBA), and customer-related behavioral guidelines, upholding the principle of equal employment and creating a diverse and inclusive work environment. The company does not discriminate against employees in terms of employment, compensation, training, and promotion opportunities based on age, disability, ethnicity, gender, marital status, nationality, political affiliation, race, religion, sexual orientation, or union membership. In terms of equal consultation, the company has not only established a systematized dialogue mechanism between employees and management, but also emphasizes the cultivation of employees' equal consultation awareness, continuously improving the quality and level of equal consultation.



Case Study | JPT's representative team won the Special Prize in the First Collective Bargaining Competition in Longhua District

In December 2023, the first collective bargaining competition final in Longhua District, co-hosted by the Longhua District General Labor Union, Longhua District Human Resources Bureau, and Longhua District Federation of Industry and Commerce, came to a close at the Longhua District Workers' Service Center.

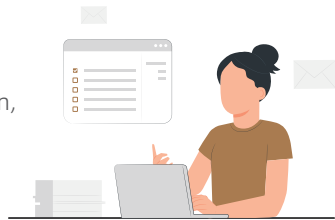
This competition, themed "Hand in Hand, Mutual Benefit", aimed to cultivate the consciousness of equal consultation among employees in enterprises under its jurisdiction, and improve the quality of collective bargaining work. 16 teams with 80 players from all over the district participated in the event. After fierce competition, the JPT Team won the special prize. Through this competition, the enthusiasm of enterprises and trade unions to unite and cooperate has been further mobilized, and the ability, skills and work level of collective bargaining in enterprises have been improved.



The company explicitly opposes workplace harassment and protects employees from sexual harassment, threats, and intimidation during work. The company incorporates anti-discrimination and anti-harassment training into new employee onboarding training, ensuring that all employees understand the company's management policies on equal employment and anti-workplace harassment upon joining. At the same time, the company encourages all employees to provide anonymous or named feedback on problems they encounter in their work and life, on the basis of legality and compliance. The relevant departments of the company follow up in a timely manner, actively respond to employees, and resolve related issues. The company takes a zero-tolerance attitude towards child labor and forced labor, and eliminates child labor and forced labor within the company and its supply chain through the establishment of various rules and regulations, training and publicity, and internal inspections. The company has formulated the "JPT Social Responsibility Management Manual" and other procedures to guide and manage child labor and forced labor matters.

Case Study | Providing Employees with Flexible Work Arrangements

The company has established flexible working conditions for employees with special family circumstances, allowing them to enjoy a flexible work arrangement. In 2023, an employee's child fell ill at their hometown and required full-time care. After the employee submitted an application, the company approved a three-month remote work arrangement, allowing the employee to work online from their hometown. This arrangement met the employee's needs to balance family care and work responsibilities.



In December 2023, the final of the first Golden HR Award Competition in Longhua District and the Longhua District Labor Harmony Enterprise Commendation Conference were held at the Longhua Talent Park Talent Hall. After fierce competition, JPT's HR Department won the championship of the Golden HR Award Competition.



2023 Employee Rights and Interests Performance Indicators

Diversity, Equity, and Inclusion (DEI) Metrics	2022	2023
Reports of Discrimination Incidents during Recruitment Process	0	0
Reports of Discrimination Incidents during Career Advancement Process	0	0
Reports of Harassment and Abuse Incidents	0	0
Percentage of Employees Covered by Anti-Discrimination, Harassment, and Abuse Training (Number of Employees Trained / Total Number of Employees)	92.5%	100%

Child Labor and Forced Labor Performance Metrics	2022	2023
Number of Child Labor Incidents Identified	0	0
Number of Forced Labor Incidents Identified	0	0
Number of Slavery and Human Trafficking Incidents Identified	0	0
Training Coverage Rate about Child Labor and Forced Labor (Number of Employees Trained / Total Number of Employees)	100%	100%

Labor and Human Rights

2023

Percentage of Workplaces that Have Conducted Employee Health and Safety Risk Assessments

100%

Percentage of Total Employees Represented by a Joint Management-Worker Health and Safety Committee

3.2%

Percentage of Total Employees Covered by Formal Collective Agreements on Working Conditions(Specify)

100%

Percentage of Total Employees Covered by Formally Elected Worker Representatives(Specify)

95%

Percentage of Total Employees Who Have Received Regular Performance and Career Development Evaluations(Specify)

91%

Percentage of Total Employees Who Have Received Job-Related or Skills Training(Specify)

90%

Percentage of Workers from Minority Groups and/or Vulnerable Populations in the Total Employee Population(As Applicable)

8.06%

Percentage of Female Employees in the Total Employee Population

26.27%

Compensation and Incentives

The company provides employees with reasonable and attractive compensation in accordance with national labor laws and regulations, local government regulations, market salary levels, and the company's actual situation.

The company expands the career advancement channels for employees, establishes a perfect, scientific, and reasonable compensation system, and improves the growth mechanism for employees. This motivates employees to work actively, encourages them to work together with the company to create greater value, and promotes the long-term development of the enterprise. The company implements a performance-based and result-oriented system, using work result and performance appraisal as the criteria for annual salary adjustments and promotions. This encourages employees to continuously improve their work level, creates a fair, just, and open competitive atmosphere within the company, and promotes the common development of the company and its employees, pursuing a win-win situation for both the company and its employees.

The company establishes different compensation and reward systems for different categories of personnel based on its overall compensation and benefits framework

Management Team, R&D Technical Backbone, and Business Backbone:

The compensation and reward system consists of fixed salary, project bonuses, patent bonuses, performance bonuses, equity incentives, allowances and benefits. As of the end of 2023, there are 305 employees holding company shares, accounting for 19.37% of the total number of employees.

Other Employees

The compensation and reward system consists of fixed salary, performance bonuses, allowances, and benefits.



Employee Shareholding Situation	
Number of Employee Shareholders	305
Percentage of Employee Shareholders in the Total Number of Employees (%)	19.37
Number of Shares Held by Employees (10k shares)	1,019.40
Percentage of Total Shares Held by Employees (%)	10.73

Compensation and Benefits, and Working Conditions Indicators		2022	2023
Ratio of Direct Employee's Minimum Salary to Local Minimum Salary		1.35	1.33
Percentage of Employees Meeting Local Minimum Living Wage (Subsistence Wage) Standards	Shenzhen: 92% Huizhou: 100% Dongguan: 95%	Shenzhen: 100% Huizhou: 100% Dongguan: 100%	
Percentage of Employees Covered by Five Insurances and One Fund (%)		100%	100%
Percentage of Employees Receiving Performance/Career Development Evaluations (%)		48%	50.48%

Valuing Talent Development, Building a Growth-Oriented and Learning-Focused Organization

The Human Resources Department and Training Department, in accordance with the company's medium-term and long-term development strategy and business development needs, work together with the annual talent inventory to identify core talents and key positions, and tailor-make employee growth plans to build a growth-oriented and learning-oriented organization.

In terms of talent development: Strengthen the training and selection of cadres, improve the learning ability and management ability of cadres. Continuously recruit talents in optics, lasers, mechanical control and other fields to provide talent guarantees for the company's rapid business development.

In the future, with the theme of "platformization", we will focus on building a training atmosphere that encourages all employees to participate and gamify learning. By investing reasonable resources, we will encourage employees to actively participate in teaching and research, and provide a comprehensive learning platform. We will also pilot a credit system for elective courses, stimulate employees' enthusiasm for learning and innovation, and provide a continuous source of innovation for the company's development.

Case | JPT Pulse R&D Department Team Wins the 2023 "National Worker Pioneer" Honorary Title

The Pulse R&D Department Team is a research and development team under the Laser Business Department of Shenzhen JPT Optoelectronics Co., Ltd., with 52 members. The team's developed products and technologies have won numerous awards, including the Second Prize of Guangdong Provincial Science and Technology Progress Award, the Second Prize of Shenzhen Municipal Science and Technology Progress Award, the Shenzhen Municipal Patent Award, the Shenzhen Longhua New District Science and Technology Innovation Award, the Shenzhen Longhua New District Patent Award, the China (Shenzhen) Innovation and Entrepreneurship Competition Innovation Award, the Most Competitive Product Award, the Ronger Technology Innovation Award, and the Silver Award of the China International Optoelectronic Exposition. Not only did the team fill the domestic gap in this field, but it also broke the monopoly of foreign companies, achieving import substitution.

After more than 10 years of development, the company's tunable pulse width fiber laser has become the NO.1 in China in terms of technology and scale, and is also the global sales leader.

In 2023, the company received new energy and photovoltaic-related demands, and the relevant team members worked together overcoming numerous challenges to develop and improve the light source in a short time. They achieved breakthroughs in the fields of battery pole ear cutting and photovoltaic glass drilling, and received recognition from industry leading enterprises.




JPT Growth Academy: From Excellence to Eminence

In the digital era, the impact is not only on the business model, but also on the comprehensive upgrade of digital online platforms. To meet the company's needs for digital, mobile, and cultural construction, JPT Growth Academy was established in September 2021, and online platform construction began in April 2022. In 2023, the training system was gradually improved, and a digital training system that combines online and offline, covering all employees from new employees to core management, was initially completed.

The Growth Academy adheres to the value of "the most difficult thing is the easiest to succeed" and insists on "doing things right the first time". It has introduced a large number of new topics, the latest learning methods, and the most practical management tools. In 2023, the academy completed the penetration training of the BLM system, the practice of coach-style management, the popularization education of standardization and processization for engineers, the introduction of large customer sales and iron triangle projects in the sales sector, as well as the daily operation and regular book club of JPT Book House. On the basis of perfecting the system, the Growth Academy has been refining its internal skills, continuously improving its learning methods and presentation skills, and insisting on publishing self-made teaching materials, learning manuals, internal publications, and self-made short videos, becoming the core platform for internal dissemination.

The platform operates through rich learning resources, full-scenario coverage, and convenient learning methods. Through the development and implementation of outstanding growth plans in training projects, it aims to achieve the following:

- 
- ① Transmit the company's corporate culture, quickly integrate into the company's work atmosphere, reduce the initial tension of new employees, and find a sense of belonging to the company.
 - ② Understand the company's overview, rules and regulations, organizational structure, and adapt to the work environment more quickly.
 - ③ Acquire basic business knowledge and general workplace knowledge, and enter a working state more quickly.
 - ④ Understand the company's human resources policies, job prospects, and planning, clarify the development path, and clarify development goals.
 - ⑤ Train team spirit among team members, stimulate employees' initiative, and foster a sense of collective consciousness and the courage to contribute their wisdom.

JPT Growth Academy is responsible for new employee training, and every new employee will receive comprehensive training on corporate culture, company development history, and other aspects during the probationary period. They will also have the opportunity to listen to the experience sharing and guidance of the company's founders and senior executives. In this process, the cultural genes of the company's founders, such as "striving upwards", "pursuing dreams", "heroes do not ask about their origins", and "doing difficult but correct things", are deeply rooted in the hearts of JPT people, guiding them to make choices in their work and strive for the company's mission!

striving upwards

heroes do not ask
about their origins

pursuing dreams

doing difficult but
correct things

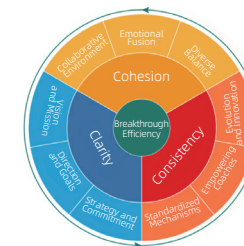


New Employee Training

Case | "Preferential Training Program", Targeted Cultivation of New Cadres

In 2023, the Growth Academy customized a comprehensive training plan for new cadres, providing solutions for each real-life challenging management scenario, including:

- Starting with the "Golden Interviewer" training and certification, solving the difficulty of "selecting the right person" in recruitment interviews;
- Using the "Transformation Training Camp" to correct management role cognitive biases, concentrating on improving communication skills, and solving cross-departmental communication and collaboration challenges;
- Conducting specialized training on "Coaching Leadership", providing batch training for middle and senior managers on "Listening, Feedback, and Motivation" skills, and introducing the industry-leading "Light Accompaniment" operation mechanism.



In the "21-Day Action Run" project, 150,000 words of coaching dialogue were accumulated, unlocking 7 practical and simple management tools, and certifying two qualified coaches within the company as a guarantee for future promotion. New frontline managers were matched with mentors and personal development plans, with HRBP tracking progress regularly to fill in gaps. Since implementation, the abilities of management cadres at various positions have been recognized and improved by their superiors, with varying degrees of improvement in their competence.

Performance Indicators	2022	2023
Total Training Hours	16280	16531.5
Number of New Employees Trained and Coverage Rate	698/96.5%	339/97.5%
Average Training Hours per Employee	13.56	10.33
Average Number of Training Sessions	1263	1281
Number of External Stakeholder Training Sessions	66	108

Happy Life, Joyful Work

The company upholds the workplace concept of "Happy Life, Happy Work" and, through the union organization, various club activities and rich and colorful theme activities, strengthens employees' physical and mental health, promotes employee relationships, enriches employee life, and creates a good workplace atmosphere.

Throughout the year, the union organized over 200 club activities, 10 large-scale competitions and welfare activities, and actively participated in large-scale competitions organized by government departments (such as basketball, football, and badminton tournaments, etc.). These activities enriched the leisure lives of colleagues and received recognition and affirmation from everyone, making everyone happy to work and live at JPT.

On International Women's Day

The company held a themed activity to celebrate the holiday. The administrative service department of JPT carefully prepared gifts for every beautiful goddess. They also invited the chairman's wife to be the guest speaker and held a tea party called "Blooming Beauty". Meanwhile, a creative handmade activity called "Handmade with Love, Beautiful hat as a flower" was also held.



Sports Club Activities

Table Tennis, Badminton, Music, Basketball, Hiking, etc.



Safety Training and Management

The company attaches great importance to the protection of employees' rights and interests, and has established a relatively complete system of employees' rights and interests protection, covering labor and human resources systems such as employee rest and leave, salary and benefits, and occupational health examination for employees in hazardous positions, as well as management systems for office area personnel safety, office equipment safety, and office environment safety.

The company has made a highest level managerial commitment to approve the career health safety policy, and all employees participate in career health safety management and performance improvement. The company identifies and evaluates the risks associated with each work process, job, work site, equipment, and project before investment, to prevent risks. The company continuously improves and adjusts career health safety management to meet requirements of laws and systems, to meet the company's development. The company organizes annual career health checks for employees in hazardous positions to ensure the health and safety of employees, eliminating occupational hazards, and preventing the occurrence of occupational diseases.

The company, adhering to the concept of "managing production must also manage safety", conducts hazard identification and risk assessment for each process, job, work site, equipment, and project before they are put into use, and takes corresponding measures according to the level of hazard, to ensure effective prevention.

The company invested a total of 456,800 yuan in safety-related expenditures throughout the year, organized safety training for 1,155 people, and conducted 3 fire drills.

Strengthen Safety Training

In 2023, the company continued to carry out diverse safety training and education, covering safety production rules and regulations, operating procedures, safety production laws and regulations, hazardous equipment, hazardous positions, and knowledge of safety production accidents, emergency rescue and relief, and other aspects.

In 2023



the company conducted **20** sessions of three-level safety education training for new employees,

with a total of **339** trainees.



Additionally, **22** sessions of training were conducted for special operations, emergency team building, and management level safety awareness enhancement,

with a total of **816** trainees.

Ensure Safety Investment

To further strengthen safety production management, ensure the effective investment of safety production funds, and ensure the timely, accurate, and effective use of safety education, labor protection equipment, safety production technical measures, and related expenses, in accordance with the relevant provisions and requirements of the "People's Republic of China Safety Production Law", the company invested a total of 456,800 yuan in 2023 for:

- 1、Perfecting, transforming, and maintaining safety protection equipment and facilities.
- 2、Safety production education and training, and equipping labor protection equipment.
- 3、Safety evaluation, accident hazard assessment, and rectification.
- 4、Occupational hazard prevention, occupational hazard factor detection, monitoring, and occupational health examination.
- 5、Safety performance testing and inspection of equipment and facilities.
- 6、Equipping emergency rescue tools and equipments, and conducting emergency rescue drills.
- 7、Safety signs and identification.
- 8、Other items or activities directly related to safety production.

Enhance Accident Emergency Management

2023 JPT Safety Indicators Achievement Status

Health and Safety Indicators	2022	2023
Safety Law and Regulation Compliance	100%	100%
Occupational Health and Safety Training Coverage Rate	100%	100%
Annual Work-Related Death/Severe Injury Rate	0	0
Occupational Disease Incidence Rate	0	0
Major Fire Incident Rate	0	0
Injury Accident Loss Rate per Million Working Hours	215	0
Health and Safety Risk Assessment Site Coverage Rate	100%	100%

Note

According to the GRI 403 Occupational Health and Safety 2018 disclosure indicator interpretation, the relevant indicator calculation formulas and definitions are as follows:

1. Occupational Death Rate = Number of Deaths Caused by Occupational Injuries ÷ Total Working Hours × 1,000,000

2. Lost Time Injury Frequency Rate (LTIFR) / Severity Rate (SR) = Total Lost Workdays due to Occupational Injuries ÷ Total Working Hours × 1,000,000



JPT Corporate Citizenship



While JPT is contributing to the local economic development with its products and technologies, solving employment issues, and promoting the high-quality development of China's manufacturing industry, it also remains committed to its social responsibilities. Through supporting education, participating in targeted poverty alleviation, helping ethnic minority areas, and caring for the disabled, JPT has demonstrated its corporate social responsibility and continued to give back to society.



In 2023

the company's total
tax payment was
59.2 million yuan

its external education donations,
targeted poverty alleviation,
and public welfare charitable
donations totaled **1.07** million yuan

Corporate Responsibility, Giving Back to Society

JPT Public Welfare Activities Overview

Donator	No.	Public Welfare Activities Content	Beneficiary	Amount (RMB 10 Thousand)	Date	Source
JPT	1	In Support of the Development of Southern University of Science and Technology's Educational Undertakings	Shenzhen Southern University of Science and Technology Education Foundation	100	July 28, 2023	Donation Agreement, Donation Receipt
	2	2023 Guanhu Subdistrict and Donglan County, Guangxi Province Pairing Assistance Work	Shenzhen Longhua District Charity Federation	4	October 9, 2023	Donation Receipt
	3	Longhua District Warm Worker Fundraising Campaign	Shenzhen Workers' Relief and Assistance Foundation	3	December 8, 2023	Donation Receipt



Co-Creating and Co-Sharing, Driving Industry Development

As a leader in the industry, JPT has implemented innovative technologies and sustainable business models to continuously enhance its competitiveness and set new standards for the entire industry. By participating in industry conferences and communicating with peers, we have formulated industry standards and raised the overall level of the industry. We have also avoided cutthroat competition and demonstrated how our transparent governance structure and responsible business practices can promote sustainable development in the industry.

In February 2023, JPT participated in the Western Optoelectronics Expo in the United States.



In June 2023, JPT participated in the WIN EURASIA exhibition in Turkey.



In May 2023, the International Electronic Circuit (Shenzhen) Exhibition was held at the Shenzhen International Convention and Exhibition Center. The exhibition attracted exhibitors and visitors from all over the world, gathering many innovative products and technologies from the supply chain of the circuit board and electronic assembly industry. HiPA, as one of the focus exhibitors, brought its FPC micro-hole processing drilling equipment - Golden Gun F, showcasing its latest products and technologies. HiPA focuses on high-precision automated optical measurement and laser micro-processing integrated equipment. Combining advanced optical technology with automation technology on the basis of high precision, create high-efficiency intelligent equipment that has successfully improved production efficiency and expanded economic benefits.



In November 2023, the first Chain Exhibition was held in Beijing with the theme of "Building, Promoting, and Sharing". The exhibition set up 5 main chains, including the Smart Vehicle Chain, Green Agriculture Chain, Clean Energy Chain, Digital Technology Chain, and Healthy Life Chain, and established a Supply Chain Services Exhibition Area. The exhibition displayed advanced technologies, products, and supply chain services from various industries, including trade promotion, investment cooperation, innovation accumulation, and learning exchange. JPT, as a leading supplier of new energy laser technology in the Smart Vehicle Chain, showcased a range of products related to new energy vehicles at the exhibition.



Government- Enterprise Partnership, School- Enterprise Partnership

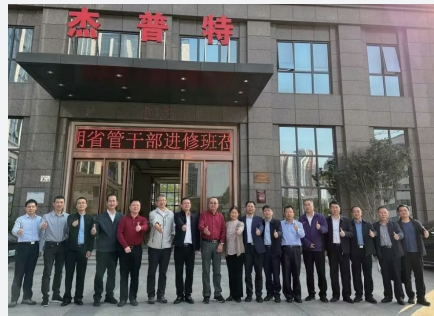
The company has established long-term cooperation and targeted business research with well-known domestic and foreign technology enterprises, famous universities, and governments, mainly including joint talent cultivation, technical research and development and industrialization of lasers and laser equipment, and laboratory co-construction, etc., and multi-level and multi-faceted cooperation, which has improved the company's research, development and production capabilities in the field of lasers and laser intelligent equipment.

The company has established partnerships with universities such as Nanyang Technological University, South China University of Technology, Huazhong University of Science and Technology, Shenzhen University, Harbin Institute of Technology, Yangtze University, and Hubei University for Nationalities for collaborative research and development. The company has also established joint laboratories with these universities, including the "Next Generation Internet National Engineering Laboratory" with Huazhong University of Science and Technology and the "Laser Technology and Application Joint Laboratory" with Yangtze University.

In promoting Environmental, Social, and Governance (ESG) goals, the community plays a crucial role. We work with the community to develop educational programs, support local schools' science education, and cultivate the next generation's environmental awareness and innovative capabilities. This two-way interaction not only enhances the company's social image but also injects new vitality into the community's sustainable development. In August 2023, the "Society-School-Enterprise" joint children's friendly research and learning activity, organized by the Lu Lake Community, JPT Labor Union, and Growth Academy, was successfully held at JPT. The research and learning tour not only broadened the children's horizons but also sparked their interest in science and their aspirations for the future. Through hands-on participation and interactive experiences, they gained a deeper understanding of the principles and applications of lasers and personally experienced the charm and fun of science.



Tsinghua University's Future Science and Technology fifth class students and teachers visit JPT for exchange and visit



The first batch of provincial cadres' further education class of Guangdong Provincial Party Committee School in 2023 conducted investigation at JPT



Lin Jian Academician, Fan Dianyuan Academician Visits JPT for Exchange



"Father of Fiber Lasers" David Payne visited JPT for exchange

Index of ESG

Description	The company has reported on its performance from January 1, 2023 to December 31, 2023, referencing the GRI standards.
GRI 1 used	GRI 1: Foundation 2021

GRI Standard	Disclosure	Location
General Disclosures		
Organization and Reporting Practices		
2-1	Organizational details	Corporate Governance Structure
2-2	Entities included in the organization's sustainability reporting	About Our Reporting
2-3	Reporting period, frequency and contact point	About Our Reporting
2-4	Restatements of information	None
2-5	External assurance	None
Activities and Workers		
2-6	Activities, value chain and other business relationships	Supply Chain Quality Management
2-7	Employees	Protecting Employee Rights
2-8	Workers who are not employees	Building a Responsible Supply Chain
Governance		
2-9	Governance structure and composition	Social Responsibility Organizational Structure
2-10	Nomination and selection of the highest governance body	Social Responsibility Organizational Structure
2-11	Chair of the highest governance body	Social Responsibility Organizational Structure
2-12	Role of the highest governance body in overseeing the management of impacts	Social Responsibility Organizational Structure
2-13	Delegation of responsibility for managing impacts	Social Responsibility Organizational Structure
2-14	Role of the highest governance body in sustainability reporting	Social Responsibility Organizational Structure
2-15	Conflicts of interest	Social Responsibility Organizational Structure
2-16	Communication of critical concerns	Responsible Communication
2-17	Collective knowledge of the highest governance body	Social Responsibility Organizational Structure
2-18	Evaluation of the performance of the highest governance body	Social Responsibility Organizational Structure
2-19	Remuneration policies	Remuneration and Incentives
2-20	Process to determine remuneration	Remuneration and Incentives
2-21	Annual total compensation ratio	None

GRI Standard	Disclosure	Location
Strategy, Policy and Practice		
2-22	Statement on sustainable development strategy	Social Responsibility Model
2-23	Policy commitments	None
2-24	Embedding policy commitments	None
2-25	Processes to remediate negative impacts	Social Responsibility Organizational Structure
2-26	Mechanisms for seeking advice and raising concerns	Social Responsibility Organizational Structure
2-27	Compliance with laws and regulations	Protecting Employee Rights
2-28	Membership associations	2023 Honors and Awards
Stakeholder Engagement		
2-29	Approach to stakeholder engagement	Identification and Management of Significant Social Responsibility Issues
2-30	Collective bargaining agreements	None
3-1	Process to determine material topics	Identification and Management of Significant Social Responsibility Issues
3-2	List of material topics	Identification and Management of Significant Social Responsibility Issues
3-3	Management of material topics	Identification and Management of Significant Social Responsibility Issues
201-1	Direct economic value generated and distributed	None
201-2	Financial implications and other risks and opportunities due to climate change	2023 Responsibility Performance
201-3	Defined benefit plan obligations and other retirement plans	Protecting Employee Rights
201-4	Financial assistance received from government	
202-1	Ratio of Standard Entry-Level Wage to Local Minimum Wage by Gender	Not Applicable

GRI Standard	Disclosure	Location
202-2	Ratio of High-Level Executive Employees Hired from Local Community	Not Applicable
203-1	Infrastructure investments and services supported	None
203-2	Significant indirect economic impacts	None
204-1	Percentage of Spend on Local Suppliers	Not Applicable
205-1	Operations assessed for risks related to corruption	Not Applicable
205-2	Communication and training about anti-corruption policies and procedures	Building a Responsible Supply Chain
205-3	Confirmed incidents of corruption and actions taken	None
206-1	Litigation related to anti-competitive behavior, anti-trust, and anti-monopoly practices	None
207-1	Tax Policy	None
207-2	Tax Governance, Control and Risk Management	Upholding Compliant Operations
207-3	Stakeholder Engagement and Management related to Tax Concerns	Building a Responsible Supply Chain
207-4	Country Report	Not Applicable
301-1	Materials used by weight or volume	Not Applicable
301-2	Recycled input materials used	2023 Responsibility Performance
301-3	Reclaimed products and their packaging materials	2023 Responsibility Performance
GRI 302: Energy 2016		
302-1	Energy consumption within the organization	2023 Responsibility Performance
302-2	Energy consumption outside of the organization	2023 Responsibility Performance
302-3	Energy intensity	2023 Responsibility Performance
302-4	Reduction of energy consumption	Energy Conservation and Emissions Reduction
302-5	Reductions in energy requirements of products and services	Energy Conservation and Emissions Reduction

GRI Standard	Disclosure	Location
303-1	Interactions with water as a shared resource	None
303-2	Management of water discharge-related impacts	None
303-3	Water withdrawal	None
303-4	Water discharge	None
303-5	Water consumption	None
304-1	Operational sites owned, leased, managed, or adjacent to protected areas and areas of high biodiversity value	Not Applicable
304-2	Significant impact of activities, products, and services on biodiversity	Not Applicable
304-3	Protected or restored habitats	Not Applicable
304-4	Species listed in the IUCN Red List and national conservation lists that are impacted by operations	Not Applicable
305-1	Direct (Scope 1) GHG emissions	Energy Conservation and Emissions Reduction
305-2	Energy indirect (Scope 2) GHG emissions	Energy Conservation and Emissions Reduction
305-3	Other indirect (Scope 3) GHG emissions	Energy Conservation and Emissions Reduction
305-4	GHG emissions intensity	Energy Conservation and Emissions Reduction
305-5	Reduction of GHG emissions	Energy Conservation and Emissions Reduction
305-6	Emissions of ozone-depleting substances (ODS)	Not Applicable
305-7	Nitrogen oxides (NOx), sulfur oxides (SOx), and other significant air emissions	Not Applicable
306-1	Waste generation and significant waste-related impacts	Not Applicable
306-2	Management of significant waste-related impacts	Not Applicable
306-3	Waste generated	Not Applicable
306-4	Waste diverted from disposal	Not Applicable
306-5	Waste directed to disposal	Not Applicable
308-1	New suppliers that were screened using environmental criteria	Building a Responsible Supply Chain
308-2	Negative environmental impacts in the supply chain and actions taken	Building a Sustainable Supply Chain

GRI Standard	Disclosure	Location
401-1	New employee hires and employee turnover	Protecting Employee Rights
401-2	Benefits provided to full-time employees that are not provided to temporary or part-time employees	Protecting Employee Rights
401-3	Parental leave	Protecting Employee Rights
402-1	Minimum notice periods regarding operational changes	Not Applicable
403-1	Occupational health and safety management system	Safety Training and Management
403-2	Hazard identification, risk assessment, and incident investigation	Safety Training and Management
403-3	Occupational health services	Protecting Employee Rights
403-4	Worker participation, consultation, and communication on occupational health and safety	Safety Training and Management
403-5	Worker training on occupational health and safety	Protecting Employee Rights
403-6	Promotion of worker health	Protecting Employee Rights
403-7	Prevention and mitigation of occupational health and safety impacts directly linked by business relationships	Safety Training and Management
403-8	Workers covered by an occupational health and safety management system	Safety Training and Management
403-9	Work-related injuries	Safety Training and Management
403-10	Work-related ill health	Safety Training and Management
404-1	Average hours of training per year per employee	Valuing Talent Development, Building a Growth-Oriented and Learning-Oriented Organization
404-2	Programs for upgrading employee skills and transition assistance programs	Valuing Talent Development, Building a Growth-Oriented and Learning-Oriented Organization
404-3	Percentage of employees receiving regular performance and career development reviews	Valuing Talent Development, Building a Growth-Oriented and Learning-Oriented Organization
405-1	Diversity of governance bodies and employees	Social Responsibility Organizational Structure
405-2	Ratio of basic salary and remuneration of women to men	Not Applicable

GRI Standard	Disclosure	Location
406-1	Incidents of discrimination and corrective actions taken	Not Applicable
407-1	Operations and suppliers in which the right to freedom of association and collective bargaining may be at risk	Building a Responsible Supply Chain
408-1	Operations and suppliers at significant risk for incidents of child labor	None
409-1	Operations and suppliers at significant risk for incidents of forced or compulsory labor	None
410-1	Security personnel trained in human rights policies or procedures	Not Applicable
411-1	Events involving violations of indigenous rights	None
413-1	Operations with local community engagement, impact assessments, and development programs	Not Applicable
413-2	Operations with significant actual and potential negative impacts on local communities	Not Applicable
414-1	New suppliers that were screened using social criteria	Building a Responsible Supply Chain
414-2	Negative social impacts in the supply chain and actions taken	Building a Responsible Supply Chain
415-1	Political contributions	None
416-1	Assessment of health and safety impacts of product and service categories	None
416-2	Incidents involving non-compliance with health and safety impacts of products and services	None
417-1	Requirements for Product and Service Information and Labeling	None
417-2	Number of Violations of Product and Service Information, and Labeling Regulations	None
417-3	Number of Violations of Marketing and Communication Regulations	None
418-1	Number of Confirmed Complaints about Customer Privacy Violation and Loss of Customer Data	None

Feedback

Reader feedback form for 2023 Social Responsibility Report of Shenzhen JPT Opto-electronics Co., Ltd.

Dear readers,

Greetings! Thank you for reading the Social Responsibility Report 2023 of Shenzhen JPT Opto-electronics Co., Ltd. We are very concerned about your comments on the report. To drive the company's improvement in the areas of environment, society and corporate governance, please provide your opinions and suggestions on this report and feedback to us, so that we can continuously improve the report.

1、What is your overall evaluation of this report?

☐Excellent ☐Good ☐Fair ☐Poor ☐Very Poor

2. What is your evaluation of the readability of this report?

☐Excellent ☐Good ☐Fair

3.What is your evaluation of the structure and arrangement of this report?

☐Excellent ☐Good ☐Fair ☐Poor

4.Does the content disclosed in this report meet your expectations?

☐Yes ☐No ☐Unknown

5.Does this report comprehensively reflect the social responsibility undertaken by Shenzhen JPT Opto-electronics Co., Ltd?

☐Fully reflected ☐Partially reflected ☐Not reflected

6. Please write down your comments and advice on 2023 Social Responsibility Report of Shenzhen JPT Opto-electronics Co., Ltd:

Feedback Form for Shenzhen JPT Opto-electronics Co., Ltd. 2023 Social Responsibility Report

Name: _____ Tel: _____

Name of Organization: _____ Contact address: _____

Email: _____

Contact address: 1-12F, Building A, Kemron Science and Technology Park,
Guanlan Hi-tech Industrial Area, Longhua District, Shenzhen, China 518110

Fax: +86-0755-29528185

Company website: www.jptoe.com

Tel: +86-0755-29528181/2/3

Conclusion

With hope in my heart, chase the light and encounter. With stars in my eyes, bath in the light and move forward.

Promote the progress of intelligent manufacturing to create a better future together

JPTs with aspirations, have a direction to strive for.

I'm chasing the light, and sailing with it!





Shenzhen JPT Opto-electronics Co., Ltd.

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