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Opioelectronics



AI Optical Sorter



















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AI and Optoelectronics

Intelligent Sorting Equipment Provider

DataBeyond was founded in 2018, leading the high-end intelligent sorting technology applied globally. DataBeyond making high-end intelligent sorting equipment more affordable and accessible to recycling manufacturer. We aim to accelerate the arrival of the intelligent era in recycling. DataBeyond's optical sorters not only lead in domestic market but also are widely exported to dozens of countries and regions, including Japan, Malaysia, Indonesia, Brazil, Dubai, Saudi Arabia, India, etc., earning high praise and popularity among users.

NO.1 Top Sales in China

≥99.6% Sorting Accuracy

1000+ Project Cases Worldwide 20000m²

Intelligent Equipment R&D and Production Base











DataBeyond Technologies

AI

Artificial Intelligence Sorting Technology

DataBeyond utilizes its advanced backbone network, DataBeyondNet, to achieve accurate identification. This includes a highly efficient industry-specific model and the industry's pioneering structured waste big data image library. These innovations greatly enhance computational speed, enabling high-speed conveyor vision inspections of up to 6m/s.

AI•SPEC™

Hyperspectral Sorting Technology

DataBeyond has autonomously developed the AI-SPEC[™] software and hardware system, allowing for the precise identification of multiple materials concurrently. This advanced system can even identify composite plastic packaging composed of different materials and waste paper with varying fiber densities.

Al·Laser™

Laser Sorting Technology

DataBeyond innovatively integrates laser sorting technology with AI, creating the powerful AI·Laser™ sorting technology. By comprehensively detecting multiple dimensions such as object spectrum and spatial characteristics, it further enhances material identification accuracy and sorting purity.

AI•**FLUO**™

Fluorescence Aging Sorting Technology

DataBeyond leads the industry by combining fluorescence aging sorting technology with AI to develop the distinctive AI·FLUO™ sorting technology. Prior to crushing PET bottles, AI·FLUO™ can actively segregate aged and fluorescent bottles, decreasing the presence of aged and fluorescent fragments in bottle flakes and significantly enhancing flake quality.

FLYinVision™

High-Speed Imaging Technology

DataBeyond's FLYinVision™ technology, combined with synchronous belt tracking functionality and a high-speed scanning system, enables rapid scanning of materials on a conveyor belt moving at speeds of up to 6m/s. This system captures multidimensional features of the materials, even identifying ultra-fine characteristics that are imperceptible to the naked eye.

MultiSensor

Multisensor Fusion Technology

DataBeyond's MultiSensor technology supports the combination of various sensors, including visible light, near-infrared, X-ray, fluorescence, laser, hyperspectral, and metal detectors. Employing fuzzy logic and deep neural network algorithms, it performs decision-level fusion on multiple heterogeneous data sources.

Cloud Brain

DataBeyond Cloud Brain

DataBeyond Cloud Brain combines edge, terminal, and cloud technologies, continuously monitoring data from various sensors. It achieves remote intelligence enhancement, predictive maintenance of equipment, and 365 days * 24 hours real-time monitoring and management.

MSWDataBase Municipal Solid Waste Big Database

DataBeyond's MSWDataBase™ is the most extensive and comprehensive solid waste database in China. It encompasses a wide range of waste sorting scenarios, including renewable resources and urban solid waste. By collecting data from numerous waste treatment plants, it has built a vast image library that is extensively labeled and multi-dimensional, establishing a strong data advantage.



O Recycling Intelligent Recycling >>

Unmanned Waste Recycling Room

DataBeyond's unmanned waste recycling room is primarily applied in residential areas, shopping malls, office buildings, hotels, universities, factories, and other scenarios. It can be integrated into waste sorting rooms or used as standalone units. It supports mixed recycling of all categories, including waste cardboard, plastic, small appliances, waste textiles, and metal. With the unmanned waste recycling house, there is no need for collectors to weigh materials on-site, and it eliminates the price difference earned by tricycle collectors, greatly saving operational costs and helping you quickly secure the source of recyclables. Combined with the intelligent unloading platform of the backend sorting center, it enables instant identification of waste types, instant report generation, and instant settlement, eliminating water contamination.

Reverse Vending Machine (RVM)

DataBeyond has partnered with Unilever and Alibaba to develop a smart plastic bottle RVM, which is now commonly found on university campuses. This intelligent machine can identify, price, and settle individual plastic bottles within one second. The smart plastic bottle RVM from DataBeyond offers rapid recognition and a wide range of capabilities, going beyond the conventional method of scanning QR codes on bottle surfaces. Let's join hands in supporting the worldwide effort to reduce plastic usage and protect our precious blue planet.



O2Sorting Re newable Resources Sorting >>>

DataBeyond's AI Optical Sorter is suitable for sorting various renewable resources.

- Separate various types of high-value plastics from mixed plastics, such as PET, PP, HDPE, LDPE, PC, PVC, etc.
- Separate plastics by the term of different colors, grades, and applications
- Separate paper by the term of yellow waste paper, white waste paper, miscellaneous paper (cigarette cards, medicine cards, folding box board(FBB), solid bleached sulphate(SBS),gray cards), tetra pak packaging, etc.
- Separate metal, including Automobile recycling, appliance recycling, electronic waste recycling, battery recycling, etc.

Municipal Solid Waste Sorting 🍌

DataBeyond provides a stable and reliable sorting solution for municipal waste disposal, aiming to achieve the goals of 'resource utilization, reduction, and harmlessness' for waste. DataBeyond has become a trusted partner for an increasing number of customers worldwide, offering a one-stop turnkey project from overall solution design, equipment manufacturing, on-site installation, to final complete delivery. With DataBeyond's intelligent sorting machine, we can separate various valuable materials from mixed waste, ultimately turning waste into treasure. If you are seeking a reliable partner to realize the resource utilization of municipal solid waste, DataBeyond's intelligent sorting technology and extensive industry experience can tailor a solution to meet your needs.





PP container



HDPE



Low-Value Recyclable



Municipal Solid Waste



Textile



Green Sorting Center for Resource Recovery



Medical Plastic Recycling





Mixed Household Waste

Construction and Demolished Waste





Commercial Waste

Industrial Waste





Waste Electrical and Electronic Equipment



Organic Waste

Top Perfromance Of Product Combination for Recycling Manufacturer to Establish "Dark Factory"

Mini AI Optical Sorter series

- Applicable to large bottle recycling plants for secondary sorting of miscellaneous materials, cost-effective, and reducing labor costs.
- Applicable to bottle depot and small flake washing plant.
- Equipped with hyper-spectrum sensor.
- Equipped with mainstream domestic motors, imported NSK bearings from Japan, 200-type metal roller shafts, laser line-scan cameras, and an anti-rebound material catching bin.
- High-speed conveyor belt velocity 1.8m/s-2.2m /s.
- Identification accuracy≥99.6%.
- IP65 protection rate for electronic control system.
- IP65 protection rate for valve bank system.



Data-driven optimization by DataBeyond Cloud Brain

Large AI optical sorter series

- sensor and
- laser sensor.

- Identification accuracy≥99.6%.





• Applicable to large-Scale bottle flake washing plant's mainline or MRF, with high processing capacity and stability. Equipped with hyper-spectrum sensor, metal sensor, fluorescence

Equipped with German-imported SEW motors, Japanese-imported NSK bearings, 350-type metal roller shafts, laser line-scan camer-• as, and stainless steel dual-layer material catching bins.

• 3.5m/s-4.2m /s High-speed conveyor belt velocity.

• IP65 protection rate for electronic control system.

IP65 protection rate for valve bank system.

AI Optical Sorter

FΛSTοΛi®

An AI Optical Sorter with "Human-like" Judgment Capabilities

The upgrade generation of AI optical sorter, FASTOAI®, boasts industry-leading AI identification capabilities. It integrates DataBeyond's independently developed high-speed conveyor belt, with the entire machine 100% produced by DataBeyond. It can flexibly incorporate hyperspectral sensors, fluorescence sensors, metal sensors, laser sensors, X-ray sensors, and more. Data-driven optimization by DataBeyond Cloud Brain, continuously making recycling smarter.

- The upgrade generation FLYinVision™ technology supports to conveyor belt speed of 4.2m/s, increasing throughput by 20% compared to the previous generation.
- The feeding of PET bottles can reach up to 10 tons per hour, while the mixed plastic input can go as high as 15 tons per hour.
- The upgrade generation identification technology ensures a detailed view of small objects and subtle errors with exceptional precision.
- 3.5m/s-4.2m /s High-speed conveyor belt velocity.
- Featuring a completely redesigned exterior, integrated body for enhanced durability and stability, capable of
 operating in ultra-low temperature environments down to -35°C.

| Model | 106 | 146 | 206 | 286 |
|--------------------------|---|--------|--------|--------|
| Working Width | 1000mm | 1400mm | 2000mm | 2800mm |
| Power | 6kw | 8.5kw | 11kw | 12kw |
| Weight | 1600kg | 2800kg | 4600kg | 5000kg |
| Sorting Accuracy | ≥99.6% | | | |
| Operating Voltage | Configurable to meet varying electrical requirements in different countries | | | |

*The above data is for reference only; please refer to the actual equipment for accuracy. Sorting accuracy may vary due to differences in incoming materials.

- Mixed Municipal Waste Sorting
- Construction and Demolished
 Waste Sorting
- Industrial and Commercial Waste Sorting
- Medical Waste Sorting
- Garden Waste Sorting
- Bulky Waste Sorting
 Food Waste Sorting
 Organic Waste SortingMixed
- household plastic
- PET Bottle Sorting
- HDPE Bottle Sorting
- PP Food Container Sorting
- Paper Waste Sorting
- Electronic Waste Sorting Automobile Recycling and
- SortingMetal Sorting
- Power Electronic Sorting
- Recyclable Waste Sorting









Capable of Simultaneously Identifying 256 of Materials, **Including the Sorting of Plastic Films**

- Known as the AI & SPEC Optical Sorter, equipped with flaser line scanning camera, and hyperspectral camera, , leading the industry in identification capabilities.
- Identification of plastics, paper, and textiles in 256 spectral bands.
- Clear identification of PC, PVC, PETG, PP, PE, and composite materials, ensure that the product's impurities do not • exceed the standard.
- Sorting paper, such as corrugated paper, yellow cardboard, decorative paper, book paper, office paper, newspa-• pers, kraft paper, egg trays.

| Model | 106 | 146 | 206 | 286 |
|-------------------|---|--------|--------|--------|
| Working Width | 1000mm | 1400mm | 2000mm | 2800mm |
| Power | 7kw | 9.5kw | 13kw | 14kw |
| Weight | 1600kg | 2800kg | 4400kg | 5000kg |
| Sorting Accuracy | ≥99.6% | | | |
| Operating Voltage | Configurable to meet varying electrical requirements in different countries | | | |

*The above data is for reference only; please refer to the actual equipment for accuracy. Sorting accuracy may vary due to differences in incoming materials.

Medical Plastic Recycling

Mixed Household Waste

Applications

- PET .
- PP container .
- HDPE
- Low-Value Recyclables .
- Municipal Solid Waste •
- Green Sorting Center for • **Resource Recovery**
- Paper Waste . Textiles

•

.

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- Commercial Waste .
- Industrial Waste .
- Organic Waste
- Construction and Demolition Waste Electronic Waste





Al Optical Sorter **FASTOAI** · *FLUO*[®]

Before Crushing, Fluorescent and Aging Bottles Can Be separated.

- Equipped with the industry's first 'laser line scanning camera, and 'fluorescent sensor, providing a unique advantage over competitors
- At the whole-bottle process, separated aged bottles, faintly fluorescent bottles, and fluorescent bottles that are imperceptible to the human eye, ensuring the quality of the back-end bottle flakes.
- Equipped with AI identification system, not only simultaneously separate oil bottles, self-adhesive label bottles, bottles with residual labels, and mixed color bottles, but also saving on labor costs.
- FASToAi·FLUO®—Quality management expert that provided exceptional Identification to establish "Dark Factory".

| Model | 106 | 148 | 208 | 288 |
|-------------------|---|--------|--------|--------|
| Working Width | 1000mm | 1400mm | 2000mm | 2800mm |
| Power | 6.5kw | 9kw | 12kw | 13kw |
| Weight | 1600kg | 2800kg | 4600kg | 5000kg |
| Sorting Accuracy | ≥95% | | | |
| Operating Voltage | Configurable to meet varying electrical requirements in different countries | | | |

*The above data is for reference only; please refer to the actual equipment for accuracy. Sorting accuracy may vary due to differences in incoming materials.

- PET Bottle Sorting
- Bottle To Bottle Recycling
- Municipal Solid Waste
- Green Sorting Center for Resource Recovery







- Equipped with 「laser line scanning camera」 and 「metal camera」, our exceptional identification stand as your unique advantage, setting you ahead of your peers.
- Separate all metal materials, including copper, iron, aluminum, stainless steel, etc., to protect the back-end crusher.
- Equipped with an AI identification system, simultaneously separate aluminum-mouth bottles, widemouth bottles, oil pots, self-adhesive label bottles, bottles with residual labels, mixed-colored bottles, etc.
- Saving on labor costs.
- Simply change the settings in the software to separate PET boxes and trays from PET bottles.

| Model | 106 146 | | 206 | 286 |
|-------------------|---|--------|--------|--------|
| Working Width | 1000mm | 1400mm | 2000mm | 2800mm |
| Power | 6kw | 8.5kw | 11kw | 12kw |
| Weight | 1600kg | 2800kg | 4600kg | 5000kg |
| Sorting Accuracy | ≥99.6% | | | |
| Operating Voltage | Configurable to meet varying electrical requirements in different countries | | | |

*The above data is for reference only; please refer to the actual equipment for accuracy. Sorting accuracy may vary due to differences in incoming materials.

Applications

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- Mixed household plastic
- Industrial and Commercial
- PET Bottle Sorting HDPE Bottle Sorting
- Waste Sorting
 Construction and Demolition
- PP Food Container Sorting
- Recyclable Waste Sorting
- Mixed Municipal Waste Sorting
- Waste Sorting





Al Optical Sorter FASTOAI · SPEC · METAL[™]

[[]Laser Line Scanning Camera, Combined With [[]Hyperspectral Camera, And [[]Metal sensor,

- The optimal choice for the first process of whole-bottle sorting, separating the required materials.
- All miscellaneous materials in the first process of whole-bottle sorting, and do not proceed to the main production line.
- Separate all metal materials, including copper, iron, aluminum, stainless steel, etc., to protect the back-end crusher.
- Users can set miscellaneous materials by themselves, such as metal, oil bottles, different materials, different colors, bottles with adhesive label, special brands, multi-layer bottle, etc.
- Saved the use of procedures involving magnetic separators, eddy current separators, and other metal separation machines. significantly saving costs.
- Guards the "first gate" of whole-bottle sorting in the production process, to establish "Dark Factory".

| Model | 106 | 146 | 206 | 286 |
|-------------------|---|--------|--------|--------|
| Working Width | 1000mm | 1400mm | 2000mm | 2800mm |
| Power | 7kw | 9.5kw | 13kw | 14kw |
| Weight | 1600kg | 2800kg | 4600kg | 5000kg |
| Sorting Accuracy | ≥99.6% | | | |
| Operating Voltage | Configurable to meet varying electrical requirements in different countries | | | |

*The above data is for reference only; please refer to the actual equipment for accuracy. Sorting accuracy may vary due to differences in incoming materials.

- Mixed household plastic
- HDPE Bottle Sorting
- PET Bottle Sorting





Al Optical Sorter **FASToAi · SPEC** · FLUO[™]

AI- Color-Material-Flou 4D optical Sorter [Laser Line Scanning Camera] Combined With 「Hyperspectral camera」 And 「Fluorescent Sensor」

• Applied in the final process of whole-bottle sorting to improve product quality, detect that "cannot be identified by the human eye" and separate miscellaneous materials.

• Users can set miscellaneous materials by themselves, such as faintly fluorescent bottles, fluorescent bottles, oil bottles, aged bottles, trays, bottles of different material & various colors, soiled bottles, self-adhesive label bottles, bottles with label residue, etc.

- Achieves "machine replacing human" in the quality inspection process, reducing labor costs.
- Guard the final process of whole-bottle sorting, to establish "Dark Factory."

| Model | 106 | 148 | 208 | 288 |
|-------------------|---|--------|--------|--------|
| Working Width | 1000mm | 1400mm | 2000mm | 2800mm |
| Power | 7.5kw | 10kw | 14kw | 15kw |
| Weight | 1600kg | 2800kg | 4600kg | 5000kg |
| Sorting Accuracy | ≥99.6% | | | |
| Operating Voltage | Configurable to meet varying electrical requirements in different countries | | | |

*The above data is for reference only; please refer to the actual equipment for accuracy. Sorting accuracy may vary due to differences in incoming materials.

- High Quality Flakes Production
- Food Grade Bottle to Bottle Recycling







The AI-powered high-speed sorting robot PiCKiNG·Ai[®] can simultaneously sort various materials. It offers the option to choose suction or grasp two types of fixtures.

In addition, artificial intelligence embedded in systems also enables seamless analysis of sorted products, enable the digitization and visualization of the entire sorting process, making the future plants even smarter. The DataBeyond AI robot and AI optical sorter are excellent product combination.

- New Generation AI identification system
- New generation FLYinVision™
- Smart collaboration of 'hands + eyes + brain'
- Over 95% Sorting Accuracy

Applications

- Recycling Resource Sorting
 Municipal Solid Waste Sorting
- Food Sorting

| Model | PiCKiNG-Ai T1 | PiCKiNG·Ai T2 | |
|------------------------|---|-----------------|--|
| Ejection method | Suction | Clamping | |
| Maximum sorting range | diameter 1600mm | diameter 1600mm | |
| Maximum Sorting Weight | 0.5kg | 2kg | |
| Power | 6kw | 8kw | |
| Sorting Accuracy | ≥95% | | |
| Working Voltage | Configurable to meet varying electrical requirements in different countries | | |

*The above data is for reference only; please refer to the actual equipment for accuracy. Sorting accuracy may vary due to differences in incoming materials.

PiCKiNG · EASY®

PiCKiNG·EASY[®] is an AI heavy-duty sorting robot arm by DataBeyond, autonomously identifies and removes large-sized meterial, such as wood, plastic, woven bags, fabrics, foam, metal, shoes, etc., effectively reducing manual labor intensity and achieving optimal performance when integrated with DataBeyond optical sorter.

• Heavy-duty and Long-Travel Anti-collision Robot.

• Seamless analysis of sorted products, enable the digitization and visualization of the entire sorting process, making the future plants even smarter.

• Over 95% Sorting Accuracy

Applications

Construction and Demolition Waste Sorting
 Bulk Waste Sorting

| Model | PiCKiNG·EASY S3 | PiCKiNG·EASY S2 | PiCKiNG·EASY S1 | |
|------------------------|---|-----------------|-----------------|--|
| Number of Robots | One-to-one | One-to-one | One-to-one | |
| Maximum sorting Range | 2000mm×2000mm | 2000mm×2000mm | 2000mm×2000mm | |
| Maximum Sorting Weight | 5kg | 10kg | 20kg | |
| Power | 8kw | 14kw | 18kw | |
| Sorting Accuracy | ≥95% | | | |
| Working Voltage | Configurable to meet varying electrical requirements in different countries | | | |

*One-to-one means one central processing unit (CPU) controls one robot; it can be designed as one-to-two, where one CPU simultaneously controls two robots









IQC Line Of Plastic Bales



Automated detection on rigid plastic bottle ba including PET and PE, analyzing the weight proportion of various plastic bottles and miscellaneous materia



Production Process:



| | System list : |
|-------|-------------------------------|
| les, | • Debaler |
| ons | Infeed Conveyor |
| ıls. | Trommel Screen |
| | Vibration Feeder |
| | IIQC Sortr |
| | Air Blower |
| tion | Storage |
| | Receiving Conveyor belt |
| | Automatic Electronic Scale |
| ality | Integrated Operating Console |
| | Management System Of Bale IQC |
| | Line |
| | |
| | |



Weighing

Report

Weigh Miscellaneous materials automatically

After completed IQC, the system automatically generates of IQC reports and sends to finance and related staff.

MES Of Plastic Flakes Washing Plant

Eliminate Management Loopholes to Ensure Leading-edge Performance

Incoming materials management

QC Management

Sorting management

Functions of MES

- Historical data query
- Production data & schedule progress visualization
- System alarm and troubleshooting
- Real-time monitoring of material process
- Data display on Web and phone App end
- Seamless connection between MES and ERP system

Applications

- PET Flakes Washing Plant
- Chemical Fiber Plant
- Waste Collection Centret

- MRF
- C&D Waste Plant
- Paper Waste Plant

Bottle Flake Washing management

Shipping management



Test Center Invest in Equipment with more Confidence

Before investing in equipment, be sure to find the sorting solution that best suits your factory. DataBeyond Dongguan Testing Center have a full range of intelligent sorting equipment, including optical sorters with various sorting functions, intelligent sorting robots, and other separater. To provide you a visual understanding of the sorting capabilities of our machines , we have integrated these high-end intelligent equipment into a complete production line.

Together with our material experts and engineers, we help you find the best solution for your material recovery and sorting tasks. You are also welcome to visit our testing center and participate in the material testing process with us.

We provide you complete picture of DataBeyond's intelligent sorting equipment , covering processing capacity, sorting accuracy, reject rate, one-click material switching, quick setting of sorting recipes, and more. Based on this testing data, we will tailor a sorting solution that best suits your factory. Our customer-focused testing services are free of charge. By using DataBeyond's material testing services, you can reduce the risks of investing in equipment, validate the sorting process, and ensure that the equipment you invest in is the best choice for your needs.

Due to diverse classification requirements from our clients, DataBeyond's Testing Center is the only facility in China that integrates various advanced sorting equipment, including AI optical sorters, AI hyperspectral optical sorters, whole-bottle fluorescence aging machines, AI material color fluorescence 4D optical sorters, and AI sorting robots. This comprehensive testing center is designed to offer personalized solutions tailored to meet your needs.

If you are unable to visit the testing center, we can conduct material testing according to your requirements and provide you with detailed test reports and complete testing videos.





Customized Services

Free Consultation

We have accumulated extensive experience from thousands of successful cases, representing unparalleled expertise in the field. We can offer you expert advice and provide the most suitable solutions, including: complete factory process diagrams, overall equipment layout plans, comprehensive equipment lists, factory-wide power calculations, and logistics planning for the entire facility.

Free Testing

Our Material Testing Center is freely accessible to you. You can provide sample materials, and our professional testing engineers will offer testing services for you.

Return on Investment Analysis

In order to provide you with a more accurate understanding of the value our equipment brings, we can offer you a Return on Investment (ROI) analysis, assisting you in making informed investment decisions.

Installation, Debugging, and Training

We have professional technical service engineers to provide equipment installation and debugging. Before our engineers arrive, please ensure that the equipment has finished the connections about power, ventilation, network and that other auxiliary equipment at the front and back ends has been installed. We will also provide training for the personnel designated by you on-site until they can independently operate the equipment and perform routine maintenance.

All-round services

We monitor your equipments system 24x7 through DataBeyond Connect software to ensure smooth operation, prevent downtime and keep software and databases updated.

We commit to 365 days of sorting technical support and on -site arrival within 24 hours. You will gain a competitive advantage over peers through our prompt service.





DataBeyond, Deserving of Your Trust!

Extensive Experience

With thousands of successful cases in automated sorting of recycled resources, we have accumulated extensive experience. We are not just your equipment supplier but also a partner you can trust. In the waves of technological advancement, we accompany you and your business in mutual growth.

Our Values

Our core principles and values: honesty, efficiency, integrity, and responsibility. In our actions, we work efficiently within an atmosphere of open and honest communication. In our thinking, we adhere to the right path, never resorting to unscrupulous methods. We approach every customer, regardless of size, with a sense of responsibility and commitment.

We Stay Focused

Since 2006, our team has consistently focused on the research, development, and commercialization of robotics and intelligent equipment. We are a top-notch professional team in the field of intelligent equipment and a partner you can trust.

Focused Sorting

Leading

Top Investment Institutions

With a professional technical background, strong productization capabilities, and rapid market share, we have gained the trust of top investment institutions such as Legend Capital, Fortune Venture Capital, Sequoia China, and others. Our financing amount has reached several hundred million dollars.

Mission and Vision

All our actions align with the company's mission and vision—leading the global popularization of high-end intelligent sorting technology. We aim to make advanced intelligent sorting equipment accessible and beneficial for more recycling resources enterprises.

We are DataBeyond

Our Chinese name 弓叶 is not just our name but also our commitment to society.

"弓" (bow) signifies a balance of tension and relaxation, a constant focus. It represents our dedication not only to the growth of our company but also to the happiness of our employees' families.

"叶"(leaf) symbolizes that, no matter how powerful we become, ultimately, like leaves returning to their roots, we must give back to society.

