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**Process Solutions for Life Science
and Consumer Product Applications**

www.morimatsu-eng.com.cn



Morimatsu Introduction

Morimatsu was founded in Japan in 1947. Today, Morimatsu is a world leader in the delivery of innovative process solutions and modular facilities with more than 5000 global employees. We have manufacturing plant throughout Asia and sales and engineering offices in Shanghai, Stockholm, Houston, and Mumbai. Our professionals are ready to support your project to ensure your process manufacturing requirements are satisfied.

The Morimatsu Group is active in many different industries including Life Science and Consumer Products and is dedicated to supplying process solutions and customized equipment to many of the largest companies within these industries. We have successfully delivered multiple projects in different global locations to leading companies like Amgen, Bayer, Eli Lilly, Novartis, P&G, Pfizer, and Unilever.

It is Morimatsu's culture to see our clients' development as our own development and our clients' success as our own success. We strive to help our clients to sustain their growth by supplying the most advanced equipment and process modules, innovative customer service, craftsmanship and an expanding capacity to accommodate client's specific needs.

The Client's need is our drive, our goal is to grow together with our clients and become their long term global strategic partner.



Corporate Culture

Our Vision

Our client list includes some of the most highly respected companies in the world, providing health care and consumer products to improve the lives of the citizens of the world. As their partner, we share the same social responsibility and vision. Through continuous improvement, we help our clients to deliver lifesaving therapies and time saving products at a reduced total cost that improves the quality of life for patients and consumers. As a strategic partner, we always see our clients' needs as our drive.

Our Value

To ensure our clients' success, we are committed to partnerships with an expanding global capacity and footprint. We are continuously innovating to provide more flexible and cost effective solutions to satisfy the client's requirement. We provide a customized end-to end solution through an international team of professionals with a drive to deliver a successful project.



What attract clients to work with us?

Guaranteed Japanese Quality

Our roots go back nearly 70 years and are closely tied to Japanese craftsmanship, and a focus on details and pursuit of perfection. The Morimatsu staff strives to master the most advanced knowhow and expertise to improve working efficiency, product quality and safety, no matter the position. Our workers are focused on their own responsibilities, and always regard it as the most critical part of the whole project execution. Experience sharing and technology transfer are a large part of our tradition to improve the overall technical level of the whole team.

Knowledgeable International Team of Professionals

As a global company, we are proud to offer a team with expertise from Asia, Europe, and North America to provide seamless customized solutions to our clients. Our team can respond quickly to changing regulations. We are also good at listening to our client's advice and comments and can adjust our proposal, design and working procedure to meet their specific requirement.

Flexible and Cost Effective Solution

With the advanced technology from Japan and Sweden, we have a rich history in helping clients to optimize their processes and designs to make the project more cost effective. By leveraging Morimatsu's fabrication capacity throughout Asia, skilled teams, and competitive labor costs, we contribute to our customer's success with quality equipment that stays within their budget.

Global Reach and Local Base

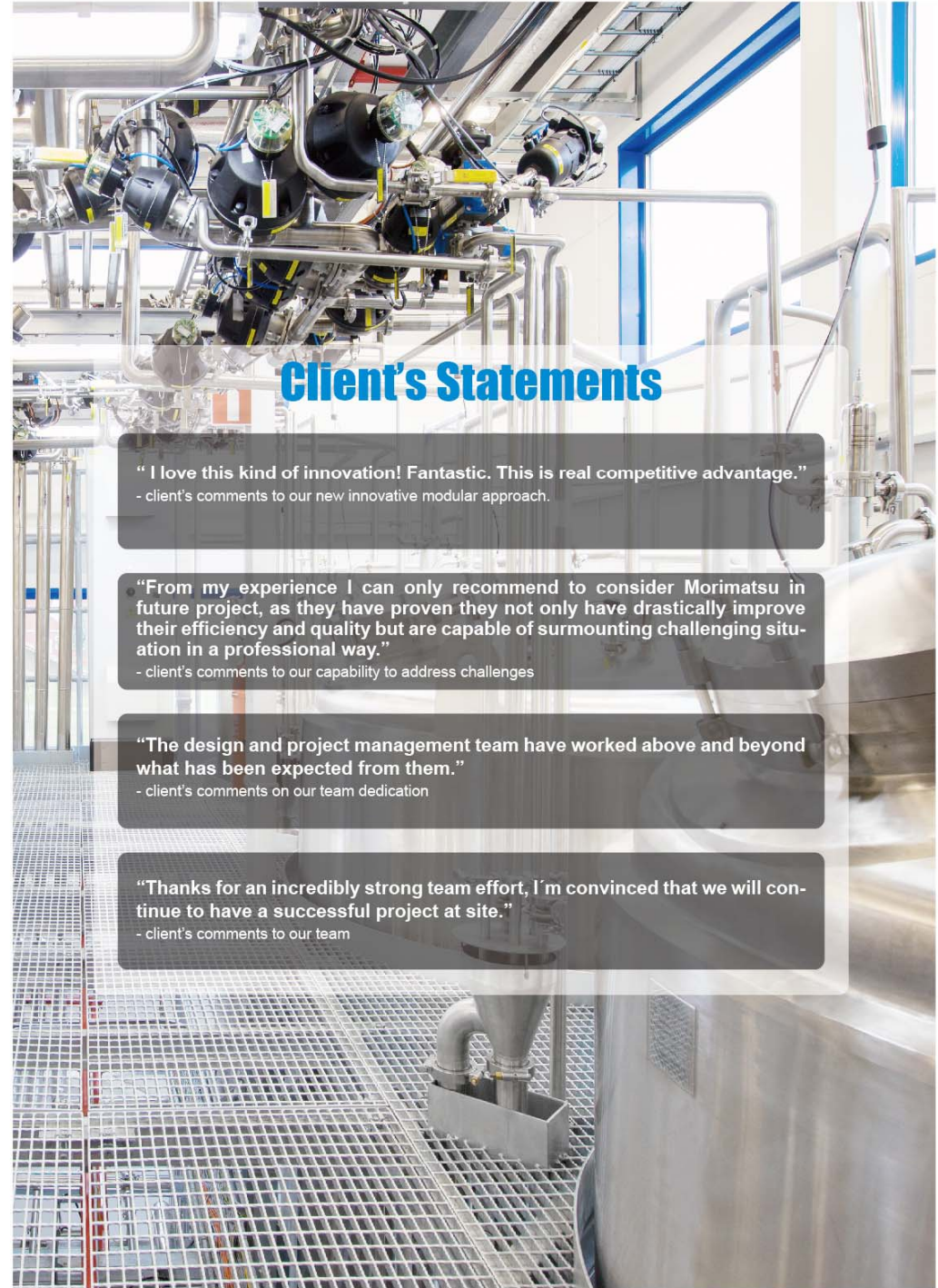
Utilizing our unique modular design from our fabrication plants, Morimatsu can deliver process solutions anywhere in the world. We have successfully delivered our equipment to more than 30 countries for use by local manufacturers and many of the world's largest multinational companies. With offices in North America and Europe, we are local, to help to work together to design a process solution and provide life-cycle support.

Big and Expandable Capacity

Morimatsu has more than half a million square meters of fabrication capacity and we continue to add capabilities and grow our capacity to keep up with our client's needs. Morimatsu is capable of satisfying our client's most extensive process requirements. This expanding capability is one reason why many of the most dynamic companies in the world have chosen Morimatsu as their preferred global partner.

Modular Solution

Morimatsu has specialized in the design and fabrication of process modules for the Life Sciences and Consumer Products Industries for more than 15 years. Our latest innovation is "Extreme Modularization". We adopted this approach to maximize off-site construction and help clients to reduce the site installation from weeks to days and hours. Using advanced technology, like 4D simulation and 3D scanning, have allowed Morimatsu to facilitate faster site installation with benchmark projects that have accomplished record completion for the industry. As the modular leader, Morimatsu's value has been recognized by our clients for faster project delivery, lower risk, predictable implementation, and great flexibility all while delivering low cost.



Client's Statements

"I love this kind of innovation! Fantastic. This is real competitive advantage."

- client's comments to our new innovative modular approach.

"From my experience I can only recommend to consider Morimatsu in future project, as they have proven they not only have drastically improve their efficiency and quality but are capable of surmounting challenging situation in a professional way."

- client's comments to our capability to address challenges

"The design and project management team have worked above and beyond what has been expected from them."

- client's comments on our team dedication

"Thanks for an incredibly strong team effort, I'm convinced that we will continue to have a successful project at site."

- client's comments to our team



Industry and Service

End to End Solution

We offer the total process solutions to our clients, from design and fabrication, through project management, commissioning and qualification. All products and service are developed and delivered by Morimatsu, so we ensure more value with less spending on your project.

Our Areas of Expertise:

- Biopharmaceutical Manufacturing
- Aseptic Formulation Fill and Finish
- Chemical API
- Oral Solid Dosage
- Power and Liquid Processing for Consumer Products

We provide the following professional service

Design

- Front End Design
- Modular Design
- Detailed Design
- Process Optimization
- Value Engineering
- Automation

Management & Construction

- Project Management
- Risk Management
- Document Management
- Procurement
- Process Manufacturing
- Equipment Fabrication
- Modular Assembly

Commissioning & Qualification

- Commissioning
- Qualification (DQ, IQ & OQ)
- Validation Support (PQ)
- Process Validation/Cleaning
- Regulation Consultancy
- Training

Product Introduction

Biopharmaceutical Industry

The expanding Biotech Industry requires strategic development planning to handle the growing global demand. New production technologies are emerging, providing increased yields and the need to redesign and debottle-neck the manufacturing process.

Morimatsu has been supporting the Biotech Industry with specialty process equipment since the beginning and can offer a global team of experts to lead your project. Many among our international staff have spent their 20+ year careers in this field gaining rich and diverse experience to support your project.

We provide complete process solutions: From bioreactors and fermenters, through media/buffer preparation, harvest and purification, all the way to formulation, biowaste, and CIP systems. Our engineered solutions are designed to minimize product loss and are fully CIP/SIP capable, while being easy to install, operate and maintain. As the end-to-end solution provider from upstream through downstream, we can eliminate interfaces for easy project management and delivery.



Media Preparation 1



Cell Cultivation 2



Buffer Preparation 3



Harvest 4



Purification 5



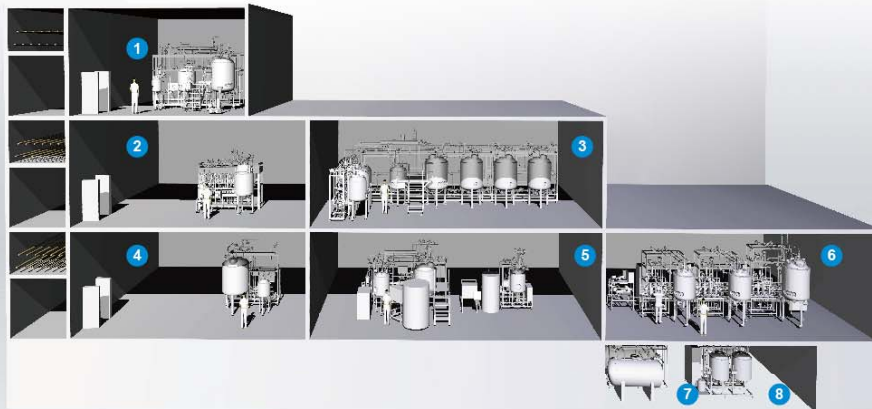
Formulation 6



Biowaste 7



CIP Station 8





Large Volume Injection Project

Pharma Industry

One of the main objectives of the Pharmaceutical Industry is to provide affordable medicine to people around the world. Morimatsu has embraced this, supporting our customers in this industry for decades, providing equipment to produce API, liquid and solid dosage forms. We deliver to our clients the most advanced industry knowhow and engineering technology to overcome any challenges to their production.

Liquid Dosage



Preparation Systems

Solid Dosage



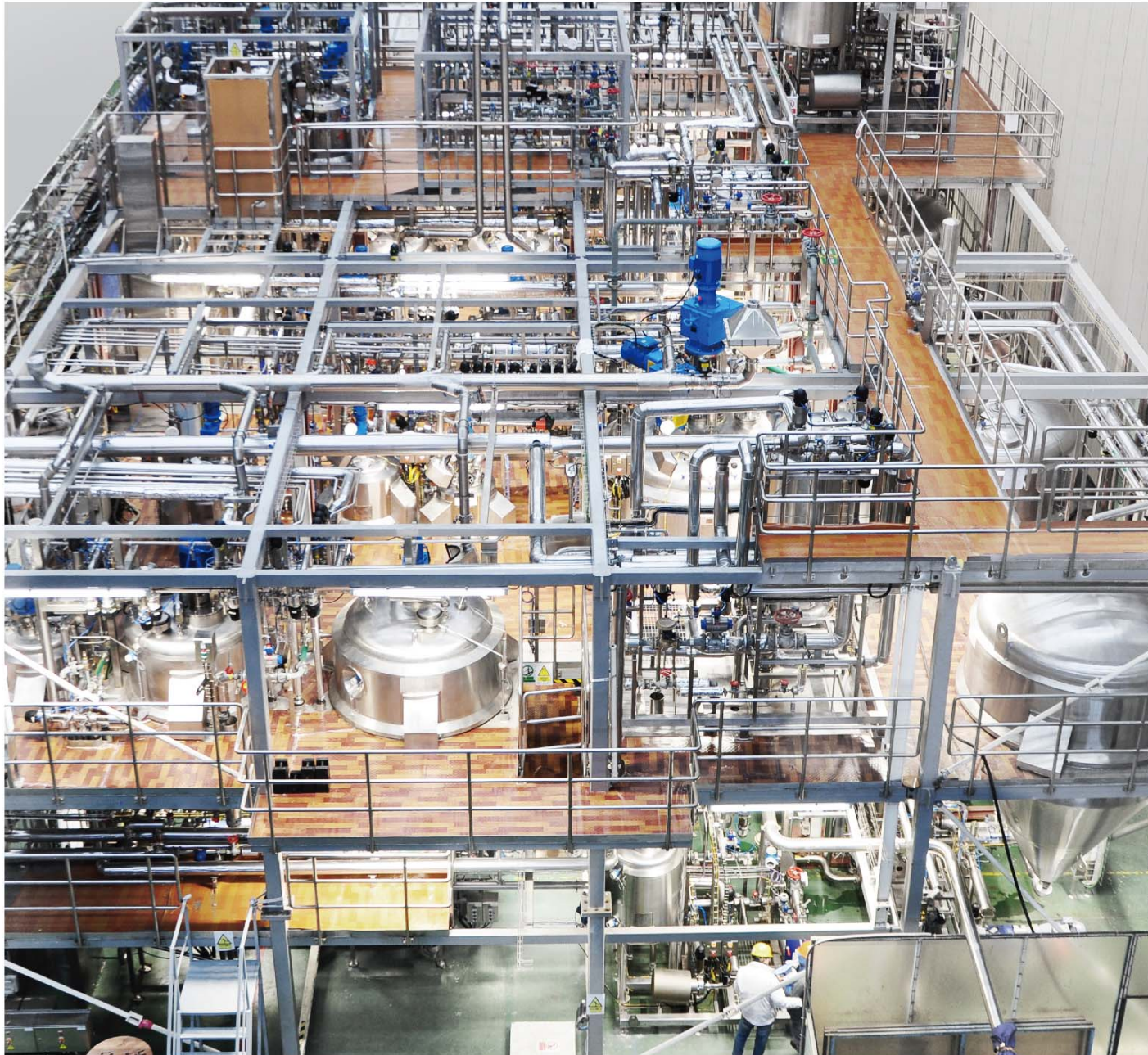
Multifunctional Granulation & Coating Systems

API



Crystallizers

Multifunction Filters



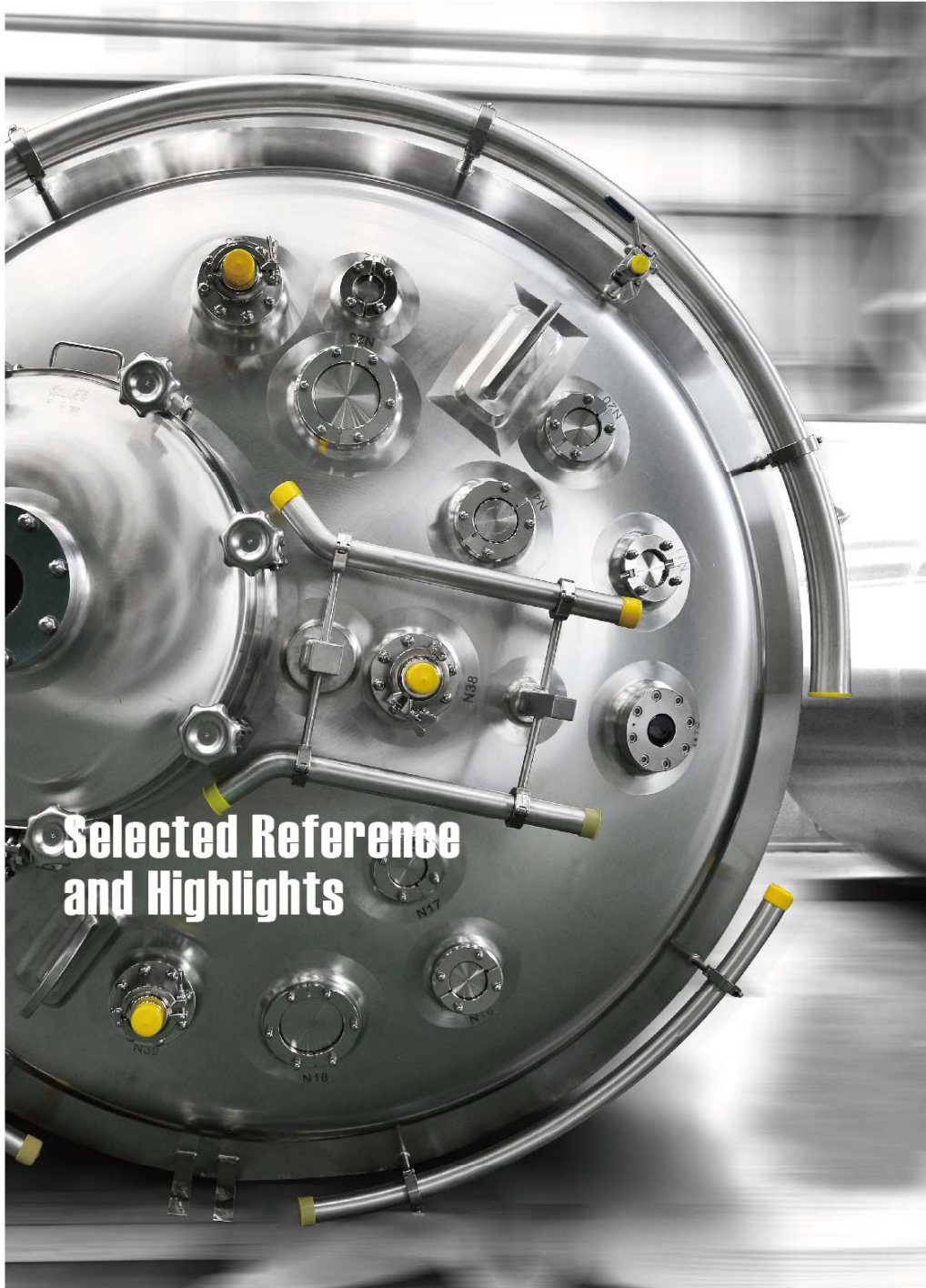
Consumer Products

For the Consumer Product Industry, faster project delivery is the key to delivering a competitive advantage to our clients, helping them gain the economic return in the market. The Morimatsu process module is the ideal solution to help clients to achieve this goal. Morimatsu's mixing expertise, CFD simulation software, and complete agitator lab, can help clients to design the most applicable impellor type to reach the optimum process and mixing performance.

Our process skids have been widely used in the following applications:

- Home Care for Powder and Liquid
- Personal Care Powder and Liquid
- Food and Refreshment Products





Selected Reference and Highlights



Project Location : Sweden
Project Type :
Drug Product
Scope : Glucose Preparation
Super Skid

Highlights :
Total solution including site installation & commissioning
Complete site installation in 2 weeks



Project Location : Singapore
Project Type :
Biomanufacturing

Scope : Biotech Downstream Systems

- Downstream Purification Vessels
- Buffer Preparation Super Skids
- Buffer Hold Super Skids
- WFI Tank
- Waste Treatment Tank

Highlights :

Biggest biomanufacturing project exported to Singapore including entire downstream systems



Project Location : Ireland
Project Type :
Biomanufacturing

Scope : Buffer Hold Tanks & Resin Slurry Skids

Highlights :

Only qualified vendor in Asia for key equipment



Project Type :
Skin Care

Scope : Full Making System

Highlights :

- Extreme Modularization
- Site Installation completed in 24 hours
- Benchmark project with the shortest installation time in client's history



Project Location : China
Project Type :
Biomanufacturing

Scope : Total Scope

- Seed Fermentation
- Production Fermentation
- Purification
- Crystallization
- Formulation
- Buffer Preparation and Storage
- CIP

Highlights :

Total solution provider from upstream to downstream



Project Location : Germany
Project Type :
Biomanufacturing

Scope : Multiple Sized Bag Holders

Highlights :

- 300 units
- Only Asian vendor

International Presence



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