

| Factory area         | Production equipment | Warehouse stock | Regular stock    |
|----------------------|----------------------|-----------------|------------------|
| 30000 m <sup>2</sup> | 200 units            | 5000 tons       | 3 million pieces |

# Ton Bag

## Ton pack semi-finished products series

### > Base fabric (coatable)



**Color:** Colored base fabric/White base fabric

**Material Ratio:** 3%、5%、10%、15%、20%、25%

**Weight/Thickness:** 135/140/145/150/155/160/165 /170/175/180(The rest can be customized to 200 grams)

**Specifications:** 100/110/120/130/140/150/160/173/ 180/190/200/210/220/240 Customized Size

**Advantages:** tensile strength, weather resistance, corrosion resistance, uniform weaving  
Anti-oxidation UV/anti-ultraviolet  
3%、160g、customizable

**Industrial field:** building materials (cement, mineral powder), chemical raw materials(granules, powders), metallurgical products.

**Agriculture:** Moisture-proof storage of grain (rice, wheat), feed, and fertilizer.

**Special scenarios:** anti-static base fabric (suitable for flammable and explosive products), conductive base fabric (precision electronic component packaging).

### > Loops

#### High-strength material:

woven with high-strength polyester yarn, with a tensile strength of 2 tons, suitable for extreme environments.....

#### Safety Technology:

non-slip wear-resistant edge treatment, sewing reinforcement, to eliminate the risk of breakage, to protect the safety of lifting.

#### Weave Structure:

Cross Weave 1.5 Ton.

#### Surface treatment:

Silicone anti-slip texture/abrasion-resistant PVC coating/anti-freeze cracking modification.

#### Loops Material:

new material polypropylene PP granule



### > One-stop jumbo bag solution

#### Flexible combinations

22 base fabrics x 15 loops x 9 types of accessories = 2970 safety options.

From raw material particles to finished sutures, each link has independent quality

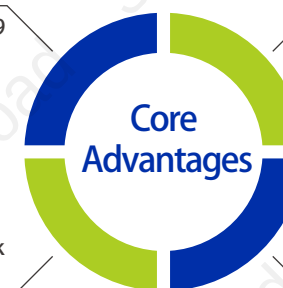
#### Fully controllable

#### rapid response

We always have over 10,000 standard components in stock and can assemble them within 48 hours.

Real-time scrolling raw material testing pass rate / loops breaking force test value

#### Data dashboard

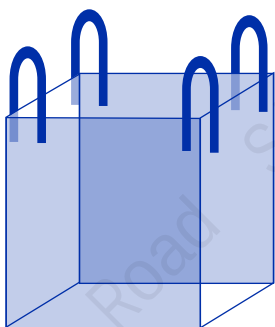


# Ton Bag

## Jumbo Bag Finished Product Series

### Four-Loop Cross Bottom Jumbo Bag/FIBC

Four-Loop Cross Bottom Jumbo Bag/FIBC, also known as four-loop container bag, is a flexible packaging container designed for the transportation of heavy bulk materials.



| Series               | Bottom-supported series                                           | Non-bottom-supported                                   |
|----------------------|-------------------------------------------------------------------|--------------------------------------------------------|
| Load range           | 1.5 tons - 3 tons                                                 | 0.8tons -1.3 tons                                      |
| Core difference      | Bottom reinforcement structure to disperse bottom pressure        | No bottom reinforcement lightweight design             |
| Applicable scenarios | Granular/powdery heavy goods (such as mineral powder, fertilizer) | Lightweight regular goods (such as textiles, granules) |

### > Specifications

|                         |                                       |
|-------------------------|---------------------------------------|
| Product name:           | Four-Loop Cross Bottom Jumbo Bag/FIBC |
| Product color:          | white, black, yellow                  |
| Product specifications: | any size can be customized            |
| Material:               | Brand new polypropylene pp particles  |
| Load-bearing capacity:  | can be customized according to size   |

### > Four-Loop balanced force system

| Symmetrical distribution                                                                                                  | Upgraded tensile strength                                                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| The Four-Loop are woven with high-strength polyester to ensure uniform force and avoid tilting or tipping during lifting. | Single-loop tensile strength $\geq$ two-loop jumbo bag, suitable for heavy machinery lifting to ensure the safety of high-altitude operations. |

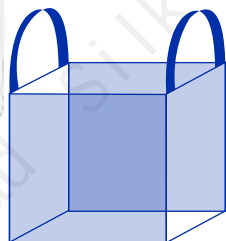


# Two-loop Jumbo Bag/ FIBC

Two-loop Jumbo Bag/ FIBC is a jumbo bag with a symmetrical layout of two lifting points, suitable for the rapid turnover of goods within 1 ton. The loops spacing is precisely calibrated, compatible with all types of forklifts/lifting equipment, and one person can complete the loading in 5 minutes. Compared with the four-loop model, it saves 15% of material costs and reduces the weight of a single bag by 0.8-1.2kg.

## Specifications

|                         |                                                                                                    |
|-------------------------|----------------------------------------------------------------------------------------------------|
| Product name:           | Two-loop cross bottom Jumbo Bag/ FIBC<br>(parallel bottom support,<br>oblique fork bottom support) |
| Product color:          | white, black, yellow                                                                               |
| Product specifications: | any size can be customized                                                                         |
| Material:               | Brand new material polypropylene PP particles                                                      |
| Load-bearing capacity:  | can be customized<br>according to size                                                             |



✓ High-density PP weaving redundant

✓ breaking force design

✓ lightweight scenarios

## 核心优势

5000+  
products  
in stock

15%  
saving in  
material costs

1.2kg  
weight  
reduction

40%  
stacking stability  
improvement

## Two-loop - parallel bottom support / oblique fork bottom support

### Parallel support - rigid support

#### Structural design

The bottom is crisscrossed with high-strength woven belts to form a "three-dimensional grid skeleton" to densely reinforce key stress points.

#### Hard core load-bearing

Single-layer grid has high pressure-bearing strength and is specially designed for high-density powder materials (such as cement and mineral powder). It will not collapse after long-term stacking.

#### Scene adaptation

Heavy industry: such as building material powder, chemical powder closed packaging;  
High-risk materials: storage and transportation of corrosive raw materials that are prone to dust and require high stability.



### oblique fork bottom support — flexible shock absorption

#### Structural design

The bottom adopts "X-shaped elastic mechanical layout", and the oblique cross belts form a dynamic buffer triangle area to absorb impact energy.

#### Core advantages

It disperses more than 60% of the impact force during transportation bumps, protecting the integrity of brittle materials such as corn and plastic particles; it reduces the deadweight by 15% compared to the traditional tic-tac-toe bottom support, and increases the single-bag cycle handling efficiency by 20%.

#### Scenario adaptation

Bulk transportation of agricultural products: shock-proof packaging of fragile particles such as rice and beans.



# Internal Sling series

Internal Sling FIBC is a flexible container bag with high-strength woven belts (tension bars) embedded inside the bag body. The internal tension bars form a three-dimensional support network for the bag body to prevent the bag body from expanding and deforming or stress concentration after loading, which significantly improves the compression resistance, stability and load-bearing capacity of the jumbo bag. It is especially suitable for transporting powdery or granular materials that are easy to expand and have strong fluidity.

- ✓ 3D three-dimensional reinforcement structure
- ✓ Filling density reaches 98%
- ✓ Automatic pressure balance
- ✓ High-strength PP "reinforcement ribs"



## > Specifications

|                        |                                     |                               |                                                                                                                               |
|------------------------|-------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Product name           | Internal Sling FIBC                 | Maximum load-bearing capacity | Double-layer reinforced structure exceeds 3 tons load                                                                         |
| Product color:         | white, black, yellow                | Circular economy              | The reinforcement ribs can be removed and replaced and the number of times a single bag can be reused is $\geq 8$ times       |
| Product specifications | any size can be customized          | Dense loading                 | powder filling density reaches 98%, reducing the risk of stacking overturning caused by volume shrinkage after transportation |
| Material               | new polypropylene PP granules       | Scenario-specific             | Provide targeted solutions in the chemical/mineral/food sectors                                                               |
| Load-bearing capacity  | can be customized according to size | Cost reconstruction           | economic benefits are calculated by "reuse 8 times + 0.65% consumption reduction"                                             |

## > Internal Sling FIBC

| Dimensions               | Internal Sling FIBC                                     | Ordinary jumbo bag                         |
|--------------------------|---------------------------------------------------------|--------------------------------------------|
| Internal structure       | With vertical/horizontal reinforcement grid             | Without internal reinforcement             |
| Strong anti-expansion    | Very strong, the bag is square                          | Easy to expand and deform                  |
| Upper load-bearing limit | 30%-50% higher                                          | Normal load-bearing                        |
| Applicable materials     | Powder/granules with strong fluidity and easy expansion | Regular granules or low fluidity materials |
| Cost                     | 15%-25% higher                                          | Low                                        |



# U-shaped bag series

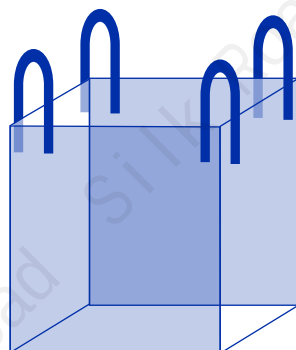
U-Shaped FIBC is a flexible container bag that improves load-bearing stability through the design of U-shaped reinforcement belts at the bottom or sides. Its core feature is that a U-shaped high-strength woven belt is embedded at the bottom or side of the bag to form a "U"-shaped three-dimensional support structure, which effectively disperses the material pressure and prevents the bag from expanding and deforming. It is especially suitable for the transportation and stacking of heavy, easy-flowing or easy-expanding materials.



## > Specifications

|                         |                                      |
|-------------------------|--------------------------------------|
| Product name:           | U-shaped bag series                  |
| Product color:          | white, black, yellow                 |
| Product specifications: | any size can be customized           |
| Material:               | Brand new polypropylene pp particles |
| Load-bearing capacity:  | can be customized according to size  |

- ✓ Increase efficiency  
reduce costs
- ✓ Reduce breakage rate
- ✓ High density compilation
- ✓ Reduce cargo damage
- ✓ Prevent expansion
- ✓ Recycle



## > U-Shaped FIBC vs Ordinary jumbo bag

| U-Shaped FIBC                                           | VS                     | Ordinary jumbo bag                        |
|---------------------------------------------------------|------------------------|-------------------------------------------|
| Bottom/side U-shaped reinforcement strip                | Structural design      | No additional reinforcement structure     |
| Keep the cube shape                                     | Deformation resistance | Easy to expand, easy to tilt when stacked |
| 20%-35% higher                                          | Upper limit of load    | Standard load-bearing range               |
| Powder/granules with strong fluidity and easy expansion | Applicable materials   | Regular low flow materials                |

## > Application Scenario

### ■ Heavy industry

Mineral powder: suppresses dust leakage and is suitable for heavy lifting equipment in ports.  
Chemical powder: moisture-proof and pressure-resistant transportation of titanium dioxide and calcium carbonate.

### ■ Agriculture and food industry

Grain storage and transportation: Anti-collapse bag stacking of rice and wheat to reduce waste of storage space.  
Feed additives: leak-proof packaging for highly fluid premixes.

## > Core Technology

### ■ Bottom U-belt

The high-strength polyester/PP woven belt is distributed in a U shape at the bottom of the jumbo bag to form a "tray-like" support to prevent bulging or tearing at the bottom.

### ■ Side U-shaped belt

The longitudinal U-shaped bags on both sides of the bag body enhance the lateral compression resistance and reduce the lateral deformation during stacking.

### ■ Pressure distribution

The U-shaped belt directs the weight of the material to the four corners of the bag and the lifting loop, reducing stress concentration in the central area.

# Anti-static series jumbo bag

AntistaticFIBC is a container bag specially designed for transporting and storing flammable, explosive and electrostatically sensitive materials. It can effectively remove static electricity through special materials or process treatment to avoid sparks or explosions caused by static electricity accumulation. It is an essential safety packaging container for high-risk industries such as chemical, electronic, and pharmaceutical industries.



## > Specifications

|                         |                                     |
|-------------------------|-------------------------------------|
| Product name:           | Anti-static series jumbo bag        |
| Product color:          | white, black, yellow                |
| Product specifications: | can be customized to any size       |
| Material:               | new material pp particles           |
| Load bearing:           | can be customized according to size |



Comply with EN61340-5-1 standard



Construct three-dimensional conductive network



Multi-layer shielding structure



Anti-electromagnetic interference coating

## > Application Scenarios

### ■ Chemical Industry

Flammable and explosive chemicals: sulfur, nitrocellulose, organic solvents.  
Easy oxidation powder: metal powder (aluminum, magnesium), carbon black, dyeing section.

### ■ Electronic industry

Electrostatic sensitive components: integrated circuits, semiconductor materials, precision instrument packaging.

### ■ Energy field

Dust explosion-proof: storage and transportation of coal powder, wood chips, starch.

## > Core technology

### ■ Compliant and reliable

Base cloth conductivity: Embedded conductive filaments (e.g. carbon fiber, stainless steel wire) in polypropylene (PP) woven fabric to form a conductive network.

### ■ Grounding design

Conductive tape or metal hooks are set on the surface of the tonnage package to connect with the ground or equipment to conduct away the static charge in time

### Safe and explosion-proof

Eliminate static sparks and avoid ignition of volatile gases or dusts (e.g. sulfur and phosphorus, aluminum powder, coal dust).

### Strong adaptability

can be customized with four loops jumbo bag with flat bottom, bottom bracket structure, load range 1-4 tons, compatible with heavy machinery lifting.

Supports additional functions such as moisture-proof, UV protection, and breathable valve.

# Ton Bag

## Round jumbo bag



Uniform  
force



sling  
design



anti-slip  
treatment



redundant  
load-bearing

### Industrial container with 360° balanced force

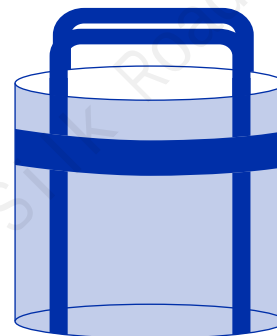
a structural packaging solution designed for fluids, powders and high-demand bulk materials.

## Customized Series

Round jumbo bag is a flexible container bag with a cylindrical three-dimensional structure. It is cylindrical in shape and is mainly used to load and transport bulk materials (such as powder, granules, and blocky goods). It breaks through the physical limitations of traditional square jumbo bags through annular force design and seamless technology. It is specially designed for the transportation of materials with strong fluidity, easy leakage, or high cleanliness requirements.

### > Specifications

|                         |                                                           |
|-------------------------|-----------------------------------------------------------|
| Product name:           | Round jumbo bag                                           |
| Product color:          | White, black, yellow                                      |
| Product specifications: | Can be customized to any size                             |
| Material:               | New material polypropylene pp particles/recycled material |
| Load bearing:           | Can be customized according to size                       |



### Application scenarios

**Powdered/granular materials:** such as cement, fertilizer, plastic granules, grain, etc.

**Material with high fluidity:** The circular structure reduces the dead corners where materials accumulate, making it easier to completely empty them.

**Environment requiring frequent lifting:** such as ports, chemical plants, grain storage, etc.

### Core technology

The overall design is cylindrical, with a loading port on the top and a discharge port on the bottom (which can be designed as an open or sealed bottom); it is made of high-strength polypropylene (PP) or polyethylene (PE) woven fabric, and the inner layer can be coated with moisture-proof and anti-static coatings; it generally bears 0.5-2 tons, depending on the size and material strength.

### > Round Big Bags vs Square Big Bags

#### Round Big Bags

Auxiliary tools are needed for stacking. Easy to roll

Occupies a large space (cylinder gap)

No dead corners more thorough unloading

Materials with strong fluidity and easy sliding

# VS

Stability

Space utilization

Unloading efficiency

Applicable materials

#### Square Big Bags

Can be stacked independently and stably

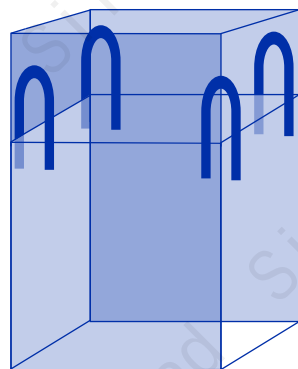
Fits well with containers or shelves high space utilization

Material may remain in the corners

Blocky and sticky materials

# Square jumbo bag

Square jumbo bag is a common design form of container bag (FIBC), which is in the shape of a cube or a cuboid and is widely used for the storage, transportation and handling of bulk materials. The flexible container bag with a cube structure is adapted to the global mainstream logistics system through modular design and standardized interfaces. It is specially designed for bulk dry particles, powders and regular-shaped materials, and occupies more than 75% of the global jumbo bag market.



- ✓ Three-dimensional frame design
- ✓ Anti-slip treatment
- ✓ Inlet and outlet
- ✓ Leak-proof upgrade

## Square design

- The cube shape is suitable for standard pallets
- compatible with 80% of forklifts/lifting equipment
- standardized production reduces manufacturing costs by 15%-20%
- stacking stability reaches 4 layers (2 tons)
- and the wear resistance of braided double-layer reinforcement is improved
- storage space utilization rate increased by 25%
- turnover efficiency increased by 30%
- logistics recovery cost saved by 40%

## > Specifications

|                         |                                         |
|-------------------------|-----------------------------------------|
| Product name:           | Square jumbo bag                        |
| Product color:          | White, black, yellow                    |
| Product specifications: | Can be customized to any size           |
| Material:               | New material polypropylene pp particles |
| Load bearing:           | Can be customized according to size     |

### Process introduction

**Cube/rectangular body:** The bottom is crisscrossed with high-strength woven belts to form a "three-dimensional grid skeleton" to densely reinforce key stress points.

**Advantages:** Stable structure, can be stacked independently, fit the container or shelf space, and increase loading density.

**Disadvantages:** Materials may remain in the corners, and auxiliary beating or vibration is required during unloading.

**Sling design:** 4-6 high-strength slings are equipped on the top or side, suitable for forklifts, cranes or cranes.

**Unloading method:** The bottom can be designed as full opening, side opening or valve-controlled unloading, which can flexibly adapt to different scene requirements.

### Applicable scenarios

**Block/viscous materials:** such as ore, coal, feed, scrap metal and other materials that are not easy to flow.

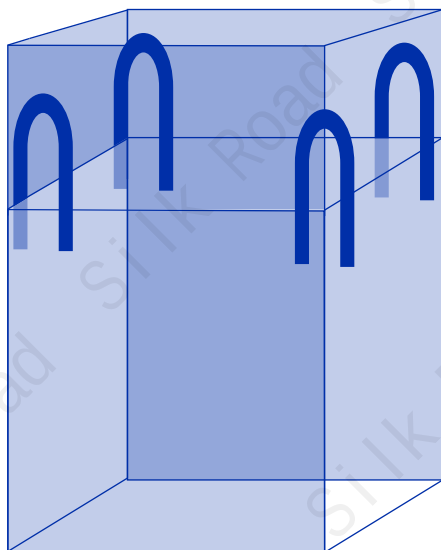
**High-density stacking:** when the space needs to be maximized in warehousing or container transportation.



# Top duffle

## > Structural features

Large size: usually covers a larger area of jumbo bags, and the opening size is significantly larger than ordinary packaging bags, which is convenient for materials to enter and exit quickly. It is made of high-strength polypropylene material with a lamination, which has good wear resistance, moisture resistance and waterproof performance.



## > Application scenarios

Mining material transportation, chemical raw material packaging, construction material handling

## > Advantages

The top duffle design allows materials to be quickly loaded and unloaded from the jumbo bag, greatly shortening loading and unloading time and improving work efficiency. The tough material and good sealing can effectively protect the materials from moisture and contamination during transportation and storage, ensuring the quality of the materials. The high-strength material and reinforced edges make the top duffle jumbo bag have a long service life and can be reused, reducing packaging costs. It can adapt to many different types of materials, whether it is powder, granular or block materials, they can be packaged and transported through large-mouthed cloth jumbo bags.

## > Applicable people

Mining material transportation, chemical raw material packaging, construction material handling

# Top duffle with bottom spout

## > Structural features

The top duffle (sealing cloth/skirt cloth) adopts high-density weaving technology, with a lamination on the outside, and a firm tie design, which can fit the bag mouth tightly. The feeding mouth is equipped with a tie rope and a blocking cloth to form a 360° fully enclosed protection.

## > Application scenarios

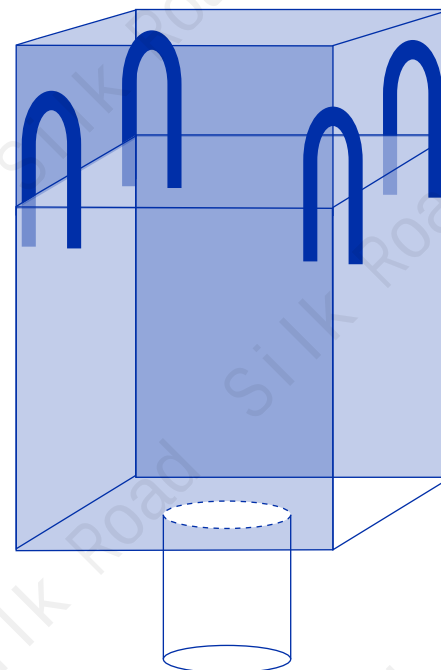
Chemical raw material packaging, construction material transportation, mineral product loading and unloading

## > Applicable people

Production companies such as chemical, building materials, grain processing, and mining can use this jumbo bag to package and transport products, improve production efficiency, and reduce packaging costs. It can be easily transported in containers, easy to load and unload, and improve logistics efficiency, and reduce losses and risks in the logistics process. It is conducive to the stacking and storage of goods, convenient for management and inventory counting, and goods can be taken on demand through the unloading port, reducing the workload of inventory management.

## > Advantages

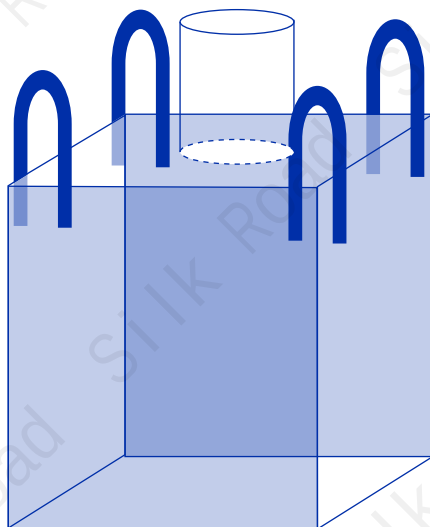
Efficient loading and unloading methods are required. The top duffle is convenient for quick filling, and the discharge spout is convenient for accurate unloading, reducing dust flying and material waste, and improving construction efficiency.



# Top spout

## > Structural features

It is convenient for large equipment or conveying pipelines to connect and feed materials, and can quickly and efficiently load materials into jumbo bags. The shape is mostly circular, and the circular top spout is easy to connect with the circular conveying pipeline, and the sealing performance is good.



## > Application scenarios

In the chemical, plastic, building materials and other industries, it is used to transport large amounts of powdered and granular raw materials from storage tanks or production equipment to jumbo bags for packaging. In grain processing, feed production and other scenarios, it can be used to load grain, feed raw materials, etc. into jumbo bags. In the ore processing and transportation links, the loading port can be used to load crushed and screened ore into jumbo bags for subsequent transportation and sales.

## > Applicable people

The larger top spout is easy to operate, which can improve loading efficiency and reduce labor intensity. It helps to quickly complete the packaging and transportation of goods, improve logistics efficiency, and reduce the dwelling time of goods during loading and unloading. The design of the top spout facilitates the reception and storage of materials in the warehouse, and facilitates the accurate loading of materials into jumbo bags and neatly stacking.

## > Advantages

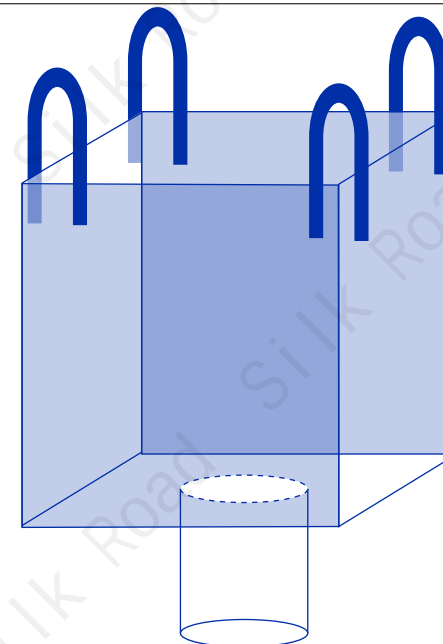
Improve loading efficiency and facilitate docking equipment: Its shape and structure are easy to connect with various feeding equipment, such as screw conveyors, bucket elevators, etc., to achieve automatic feeding, reduce manual intervention, and improve the degree of automation and accuracy of production.

Reduce material waste: The good docking between the top spout and the conveying equipment and the larger diameter can make the material enter the jumbo bag more smoothly, reduce the spillage and splashing of materials during the loading process, thereby reducing material waste.

# Bottom spout

## > Structural features

Usually located at the bottom of the jumbo bag, it is convenient for the material to flow out naturally by gravity. The discharge port is easy to process and has good sealing performance; in order to prevent leakage of materials during transportation and storage, the discharge port is generally equipped with a sealing structure, such as a zipper, rope tie or sealing cover. Some sealing devices also have good moisture-proof and dust-proof properties, which can protect the quality of the material.



## > Application scenarios

In the chemical, building materials and other industries, it is used to accurately transport raw materials in jumbo bags to production equipment. In grain processing and storage, it can be used to transport grain in jumbo bags to processing equipment or storage containers. In logistics transfer and warehouse management, it is convenient to quickly unload the goods in the jumbo bags and transfer them to the designated location, improving logistics efficiency.

## > Applicable people

It is convenient for production workers to accurately add materials to production equipment, improving the accuracy and efficiency of production. It is convenient to quickly unload goods while the sealing device can ensure the quality of inventory goods. And quickly unload goods after they arrive at the destination, reducing the time the goods stay on the transport.

## > Advantages

Convenient unloading: Whether in the warehouse, workshop or transport vehicle, the unloading port allows materials to be unloaded quickly and conveniently, reducing the labor intensity of manual unloading and improving unloading efficiency.

The sealing device can effectively prevent the material from being damp and contaminated, ensuring the stable quality of the material during storage and transportation, and reducing the loss caused by material deterioration or contamination.

# Loading and unloading ports

## > Structural features

The loading port is convenient for large equipment or conveying pipelines to connect and load materials, and can quickly and efficiently load materials into jumbo bags. The shape is mostly circular, and the circular loading port is convenient for connecting with the circular conveying pipeline, and has good sealing.

The unloading port is usually located at the bottom of the jumbo bag, which is convenient for the material to flow out naturally by gravity. The unloading port is easy to process and has good sealing; in order to prevent leakage of materials during transportation and storage, the unloading port is generally equipped with a sealing structure, such as a zipper, a rope tie or a sealing cover. Some sealing devices also have good moisture-proof and dust-proof properties, which can protect the quality of the materials.

## > Application scenarios

Used to package and transport various chemical raw materials. Sand, gravel, cement and other construction materials can be loaded into jumbo bags through the loading port and transported to the construction site, and then unloaded from the unloading port for construction. During grain storage and processing, wheat, corn and other grains are loaded into jumbo bags through the loading port for storage, and sent to processing equipment from the unloading port during processing.

## > Applicable people

The loading port is convenient for quick loading, and the unloading port is convenient for taking materials on demand, which improves production efficiency and inventory management efficiency. It helps to achieve fast loading and unloading of goods, improve logistics and transportation efficiency, and reduce the dwelling time of goods during transportation.

## > Advantages

Convenient unloading: Whether in the warehouse, workshop or transport vehicle, the unloading port allows materials to be unloaded quickly and conveniently, reducing the labor intensity of manual unloading and improving unloading efficiency.

The sealing device can effectively prevent the material from being damp and contaminated, ensuring the stable quality of the material during storage and transportation, and reducing the loss caused by material deterioration or contamination.

