



NOVA
STAR
LINK



Flexible Intermediate Bulk Container

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Our advantages

FIBC stands for Flexible Intermediate Bulk Container. FIBCs are also known as big bags, bulk bags or jumbo bags. The following is a brief summary of why we are your best partner for the design, distribution and delivery of your FIBC.

- We can provide you with customised FIBCs (big bags/jumbo bags) for every industry
- We guarantee the consistent high quality of your FIBCs
- Thanks to our own manufacturing locations, we can cater to your needs and deliver from our stock
- You can use the extensive knowledge that our account managers have about your market
- We have all the necessary quality certificates, including a very prestigious one
- We are a sound company (with a healthy balance sheet), meaning that we can be your long-term partner
- In brief: we keep your industry going

FIBCs for every industry

Do you operate in the (petro)chemical, pharmaceutical or food industry? We can supply you with the right big bag for every application. Moreover we modify the FIBCs especially to suit your filling and discharge system. The dimensions, the filling and discharge systems and the lifting loops are always custom-built. Especially for our food and pharmaceutical customers, all of our FIBCs satisfy the relevant HACCP certifications.

Consistent quality

In every delivery of our FIBCs (big bags) you receive the same high quality, with the same specifications. We can guarantee such consistent quality thanks to the long and close relationship that we have established with our production partners. We know that we can expect the best from them.



Advantages of FIBCs

FIBCs, – also called big bags, bulk bags or jumbo bags, – are the ideal solution for the temporary storage and transportation of dry bulk goods. This includes powders, mineral ores, aggregates and other ingredients. FIBCs have a very low packaging weight and are safe to use and available in various different forms. In 90 percent of cases, we custom make the FIBC for our customers. In doing so, we take into account the filling and discharging conditions, the hydroscopic properties and the density of the product being packaged. FIBCs have a capacity of up to 3 cubic metres and several tons in weight. In addition, you can reuse FIBCs after a professional reconditioning or have 100% of the materials recycled. Because in most cases it is not necessary to use a secondary packaging (such as corner supports, a wrapping net or pallets), an FIBC is the most cost-effective packaging available.



The advantages at a glance:

- A FIBC can carry up to a thousand times its own weight
- Thanks to the different hoisting structures, secondary packaging is unnecessary
- You will save on warehousing. Empty FIBCs take up very little space.
- By printing on the bags, you can use them as mobile billboards and mention essential product information
- Excellent possibilities for minimising your waste flows (packaging weight per transported ton).
- Good recycling and reconditioning possibilities
- FIBCs can be delivered tailor made and can be customised to your manufacturing process and that of your clients.

One and two-loop FIBCs

One and two-point lift bags are very suitable for packaging fertiliser, cement and commodities, mostly on semi-automatic or fully automatic filling lines. You can mainly use one and two-point lift bags for a relatively low packaging weight of 500 to 1000 kg and in situations where filling speed is crucial. The bags are filled and transported on one or two loops. The transportation and loading is often done using several FIBCs (big bags/jumbo bags) at the same time. These bags often contain a liner to keep hydroscopic products such as cement and fertiliser dry. The thickness of this liner varies from 40 to 150 micron.



4 loops bulk bags

Star Ind excels at making four loop FIBCs (big bags/jumbo bags). In most cases, these bags are custom-made. We supply FIBCs made of tubular and flat woven fabric with standard loops, cross-corner loops or tunnel lifting systems. This catalogue describes the most common FIBC varieties. Our FIBCs for non-hazardous products comply with the ISO 21898:2004 standard, while our FIBCs for hazardous products are manufactured in accordance with UN standards for packaging hazardous products.



Anti-static

When products are loaded or unloaded, an electric charge is created. If this happened in an explosive environment/atmosphere, it could represent a danger to life. That is why it is crucial that we take all possible measures to prevent this discharge. At Star Ind, safety comes first. We offer FIBCs (big bags/jumbo bags) that are specially designed for anti-static applications and meet the requirements of international standard IEC 61340. Provided that these bags are used correctly and that the regulations are complied with, we can guarantee you a safe workplace. The anti-static classifications of our FIBCs are described below.

Type A:

Type A FIBCs are made of a fabric that does not have any protective properties against the build-up of static electricity. You can use this type of FIBC for non-combustible materials in an environment where no flammable gases are present.

Type B:

Type B FIBCs, like type A, have no protective properties against the build-up of static electricity. The difference is that the fabric material has a lower breakdown voltage (< 6 kV). You can use this type of FIBC for dry, combustible materials, but there must not be any flammable gasses in the area.

Type C:

Type C FIBCs are made of a conductive fabric. The conductivity is obtained by interweaving several conductive yarns. The various threads of yarn are connected to each other and come together at an earthing point. You must therefore earth this FIBC at all times. You can use this type of FIBC for combustible materials and in environments where flammable gases are present.

Type D:

Type D FIBCs are made of a special anti-static fabric with permanent discharge properties (corona discharge). They do not need to be earthed. However, it is crucial that the immediate vicinity (machinery, staff, etc.) is fully earthed. There are also restrictions on the relative humidity in order to safely use this type.

Food Clean

LC Packaging also stands for quality for food and pharmaceutical products. We manufacture our food clean FIBCs in rooms (the clean rooms) that comply with all our food safety requirements. The features of a clean room include epoxy floors, metal tables, airwash systems, overpressure, H13 air filters, light tables and metal detection. In addition, our specially trained clean room employees work in accordance with the most stringent hygiene requirements.



We guarantee the quality from raw material to end product. All our FIBCs meet all relevant certification requirements in relation to HACCP. In addition, our manufacturing location has the necessary certificates, including ISO 9001, ISO 22000, ISO 14001 and OHSAS 18001.

In brief: are you looking for a food clean FIBC and do you want to be confident about quality, reliability and deliveries? In that case, please contact Star Ind. We can also keep your FIBCs in stock at all times.

Q bags (form-stable)

A Q bag is a form-stable big bag fitted with an internal structure (baffles). These baffles ensure that the Q bag will remain stable after filling with no more than minimum bulging, which means that the FIBC (big bag/jumbo bag) stays within the pallet dimensions and guarantees an optimum load for any type of transport. We usually manufacture Q bags with coating and fabric seams to prevent any leaks during filling, storage and transportation and when discharging. These FIBCs are very suitable for applications with powder and granular products in every segment.



Specifications:

- Made with or without liner
- Available with or without coating
- Available with standard baffles or mesh baffles
- Various filling and discharging possibilities available

UN FIBCs

The transportation of hazardous goods is regulated worldwide by a team of experts from the United Nations. They have established directives to prevent accidents, injuries and damage to property and not least to protect public health and prevent pollution. At Star Ind, we test and design the bags so that they comply with all the requirements of a UN FIBC. This work is done in our own testing laboratories and is then ultimately certified officially by repeating the tests in an independent testing facility. The test results are the basis on which a unique UN number can be issued.



Sift proof seams

We can use siftproof seams in order to prevent any leaks. During the manufacturing process, the sewing machine needle makes small holes in the fabric. This could cause a leak if the FIBC were filled with fine powder material, such as cocoa, milk powders, starch, lead powders, iron powders or resins. A sift proof seam is a downy material that is attached to the seams and prevents leaks.

Specifications:

- 3 – 5 grams per meter
- Single-sided (on one side of the fabric)
- Double-sided (on both sides of the fabric)
- Triple (both sides + in between)
- Triple with felt



Asbestos

These bulk bags (big bags/jumbo bags) are suitable for smaller pieces of material containing asbestos and are larger than the asbestos rubble bag. They meet the requirements of the landfill areas for waste that contain asbestos and can be disposed of underground. As well as asbestos bulk bags, Star Ind also supplies PP asbestos rubble bags, plate bags and container bags. Ask our experts about the possibilities.

Specifications:

- Asbestos FIBC with asbestos logo printed on the bulk bag
- Available in various sizes
- Available with various filling openings for safe disposal
- Various seals available

Liners

Depending on your product, a bulk bag can be fitted with an inner bag, which we call a liner. This liner provides additional protective properties against air and water vapour migration and the effect of light.

We can manufacture liners in the following materials: LDPE, LLDPE, MDPE, HDPE, PA, EVOH or aluminium.



Specifications:

- 40 to 250 micron
- Various protective properties
- The liner can be fitted into the FIBC in various ways (stitched, glued, etc.)
- Available in various colors
- Conductive, form-stable and also available pre-formed
- Class 10,000 liner manufacturing possible in house

Ventilated big bags

For the packaging, transportation or storage of potatoes, onions, beans, grains, nuts or similar products, we provide the ventilated FIBC (big bag with air stripes). This bag is protective, breathable and very strong.

Specifications:

- Content 500 to 1500 kg
- UV stabilized
- Printing 1, 2 or 4 sides possible
- Open top, skirt or filling spout and discharge spout
- 100% polypropylene and therefore easy to recycle
- For single use, 5:1
- All bags manufactured by Star Ind are certified



Conical

FIBCs (big bags/bulk bags) with a conical base are specially developed for poorly flowing products. The conical shape at the bottom of the bag ensures that the bulk bag can be discharged quickly and easily. By using this bulk bag, you can sometimes prevent expensive adjustments to discharging systems.

Specifications:

- Often used for very fine materials such as powders, etc.
- Flat woven or tubular woven fabric
- Coated or uncoated
- With or without liner
- Various lifting possibilities
- Various discharging possibilities



Jute

These are very useful for packaging your potatoes, beans, grains or nuts. This strong, protective and absorbent packaging is also suitable for equivalent products where a natural packaging is preferred over a synthetic packaging. Jute is very breathable and ensures optimum ventilation of the packaged product.

The jute FIBC is not yet in common use; it is a relatively new product. Our Research & Development Department is continuing to develop this bag and is running tests in order to certify the jute FIBC in accordance with the relevant international safety standards.

Specifications:

- Content 300-1000 kg
- Colors: full bright or standard
- Printing possible
- Filling and discharge spout
- 100% biodegradable





Construction (sand & gravel)

Big bags with standard dimensions of 1 cubic meter, 1/2 cubic meter or 1/3 cubic meter, for example, can be supplied from stock as standard. Of course the big bags can also be printed with your own company name and/or logo. Various applications require different types of constructions, such as multiple types of loops and filling and discharging options. Star Ind only supplies big bags that meet all the requirements and are certified by reputable laboratories. This allows us to guarantee the safety level that is essential in the construction industry.

Standard big bags

Big bags with standard dimensions of 1 cubic meter, 1/2 cubic meter or 1/3 cubic meter, for example, can be supplied from stock at all times. Your own company name and/or logo can also be printed onto the big bags. Various applications require different constructions, such as multiple types of loops and filling and discharging options. Naturally, we only supply big bags that meet all the requirements and are certified by reputable laboratories.

Specifications:

- Various standard dimensions, such as: 90x90x120 cm, 80x80x80cm, 65x65x75cm
- Different types of loops: standard loops, cross-corner loops and slings
- Several filling and discharging systems: open top, filling skirt, filling flap, flat bottom, discharge spout
- Different fabric weights for multiple purposes
- Possibility to print your own company name and/or logo onto the bags



Container liners

Container liners can transform your 20 or 40 foot container into an efficient transport system for bulk goods within ten minutes. With container liners, every ISO standard container can be used. For example, our customers use it for the following products: chemicals, petrochemicals, minerals, agricultural products, seeds and food products. Because the polypropylene fabric is attached to the inside of the container, the product does not touch the container itself. It creates an extra inner wall that protects the product and prevents any contamination.

Please feel free to contact us for more information. Our experts know the market and would be happy to advise you in this area.

Specifications:

- Use for 20 or 40 ft containers
- The container will be ready for use within 10 to 15 minutes
- Easy to put up
- Various filling and discharging possibilities
- Fabric available with or without coating



Transport of liquids

If you are looking for a way to transport liquids, then these FIBCs (big bags/jumbo bags) from Star Ind are the solution. Designed for a single trip only, they are easy to erect. Star Ind will supply you with a package that you can put together yourself on a pallet. These special FIBCs are only suitable for non-hazardous substances.

Ask our experts for more information. We would be happy to come and demonstrate this FIBC at your location.

Specifications:

- Only 'single trip'
- Usually used for food
- Stackable up to two high
- Uses little warehouse space
- Easy to fill and empty



Filling and discharging

Every FIBC (big bag/jumbo bag) made by Star Ind is different and often geared to our customer's manufacturing process. Because every customer has different needs and products or uses a different filling or discharging system, Star Ind supplies different kinds of filling and discharging mechanisms.

Below are some of our mostly commonly used systems. Please contact our account manager to find out which one is right for you.

Discharging system options

Depending on your needs or those of your client, we supply a number of extra options in addition to the standard discharging systems. This may involve opening the big bag remotely, an additional reinforcement in the bottom to prevent bulging or an additional hygiene flap to prevent contamination. For more information about these or other possibilities, please contact our FIBC department.

Specifications:

- Option E-knot, remote discharging
- Option B-lock, including dosed discharge
- Option bonbon closure, opening in two phases
- Option bottom cross, additional support for discharge spout
- Option Petal star closure, prevents bulging and minimizes contamination risk
- Option hygiene flap, discharge spout stays clean and minimizes the risk of contamination



Discharging systems

Once your product has arrived, you want to discharge the FIBC (big bag/jumbo bag) safely. In many cases, this is done using special discharging machines in which you can hang the FIBC. We recommend that you consult our experts before you invest in a discharge system for your organization. Star Ind can work with you to formulate a long-term plan. This could save you a lot of money. The following pictures show some examples of situations encountered by our customers. Do you have a special request? This is not a problem. We will be pleased to consider the options with you.



Filling systems

An FIBC (big bag/jumbo bag) can be provided with various filling systems. The filling system depends on your filling process and the equipment you use. Are you considering filling FIBCs with a special filling machine? Our experts can introduce you to one of our filling system partners and they can advise you immediately on the most suitable FIBC. By starting with this issue early, you can save a lot of money.

The following pictures show some examples of filling systems that we can offer.



Lifting systems

We will make the lifting system that best suits your manufacturing process, depending on your needs. If the lifting system is correctly adjusted to your manufacturing process, this can optimize your operation.

Do not forget that the right lifting mechanism could significantly reduce the use of pallets. Below, you can choose from the two most common types of lifting mechanisms, which are the standard and tunnel loops.

Please feel free to contact us if you have any special requirements for your new FIBC (big bag/jumbo bag).

Lifting systems

Star Ind supplies a number of lifting systems on the four corners of the FIBC (big bag/jumbo bag). There are standard loop and cross corner loop systems. Cross corner loops generally stay upright, which can make the handling easier. Like the FIBCs, the loops are also subject to strict safety requirements and are always tested thoroughly.

Specifications:

- Available in various thicknesses and heights
- Extra anti-wear system available
- Loops can be linked by a sling
- Available in various colors



Safe Handling instructions

The popularity of the FIBC (big bag/jumbo bag) is still growing. That should come as no surprise: an FIBC can be used in many different ways and can carry a thousand times its own weight up to approximately 2500 kg per FIBC. It is important that you use an FIBC correctly, so that the transportation and the loading and unloading can take place safely. Please read the following tips:

Storing FIBCs

FIBCs are best stored clean and covered. This keeps the FIBC in optimal condition and protects it from sunlight and extreme climate changes.

Filling FIBCs

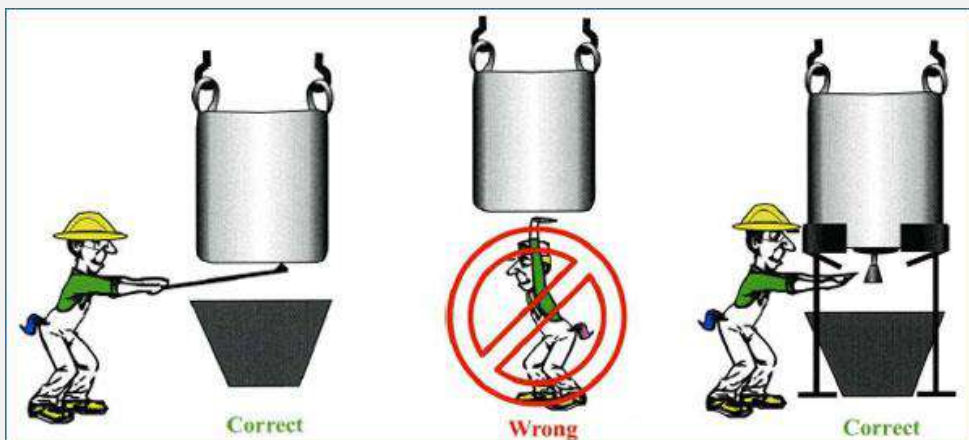
The best way to fill an FIBC is by resting it on the ground or on a pallet, and having a filling mechanism hold the loops. Please note: in some cases, the bag must be grounded before you can fill it.

Discharging FIBCs

In most cases, an FIBC is discharged through the use of gravity. In some cases suction is used. Bags with a special discharge spout can be used differently to control the emptying process. If the bag does not have an emptying spout, then this is often cut at the bottom. You can stop the discharge process by lowering the bag onto the product to be unloaded. Please pay close attention during this process and ensure that nobody is standing under the FIBC at the point of discharge. Star Ind offers numerous discharge systems to facilitate your manufacturing process.

Stability of filled FIBCs

The best way to fill an FIBC is in a way that ensures that the width/diameter ratio is no more than 2:1. To promote product stability, a vibrating mechanism is often used during filling.



Lifting FIBCs

When you lift the FIBCs, it is important that you are directly in front of the FIBC and that it is easy to place your forks in the loops or tunnel loops. When lifting, ensure that all loops are vertical and not twisted. Also ensure that the fork has no sharp sides which may damage the FIBC or cut the loop.

Driving a forklift truck with FIBCs

Ensure that you always keep a filled FIBC low to the ground when you drive a forklift truck. If you hold the filled FIBC too high above the ground, the forklift truck will be unstable and you will increase the risk of accidents.

Handling with cranes

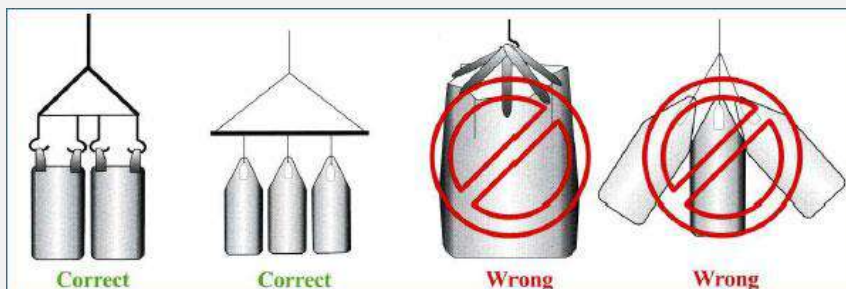
Ensure that the hooks of the crane do not contain sharp parts which could damage the bags or the lifting structure. Use protective materials wherever possible. We advise that you use special safety hooks, so that the bag can never unexpectedly come off the hooks. When the bags are lifted, the loops must be vertical. Loops with a twist, knot or incline can cause a safety hazard.

Straightening FIBCs

The lifting loops of an FIBC are made in such a way that you have to use all the lifting loops at the same time. An FIBC is made in such a way that the full weight must be distributed over all the lifting loops.

Storing filled FIBCs

There are several ways to best store FIBCs. Depending on the material, you can choose to place the bags in racks (with or without pallet). You can also stack the FIBCs. Ensure that you stack the FIBC correctly and that the FIBC must be certified for the height that you wish to maintain. Our account managers can advise you on this, bearing in mind the applicable safety standards.



Agriculture

Working in agriculture, you know better than anyone that nature can't be controlled. That is why Star Ind is your flexible partner when it comes to packing and packaging. Whether we are talking about punnets and plastic containers, machine-erected boxes, net bags, jute bags (automatic filling), we understand that you can often only tell us what you need at the last minute.



Countless onions, potatoes, sprouts, turnips, mushrooms and broccoli have already found their way to their destination in packaging supplied by Star Ind. Will yours do the same? Please feel free to contact us for more information about our packaging and packaging systems. You can also complete our contact form on our website. We will get in touch as soon as possible.

Animal feed

The secret of how to keep animal feed at its best? The packaging – you know that better than anyone. Star Ind is pleased to support you in choosing the right packaging for your product. Whether we are talking about dog food or horse feed, there is always a consumer packaging and bulk packaging for animal feed that meets your requirements.

Chemicals

Transporting, storing or unloading chemicals requires an expert and solid approach. Whether we're talking about packaging petrochemical or agrochemical products, Star Ind is happy to work with you to find a suitable and safe solution.

To us, effective cooperation means that we share our insight, experience and expertise with you. Producers of titanium, polymers, dioxide, fibers, pigments, powder coatings, resins, detergents, carbon powder, intermediates, granulates, pesticides and many more have led the way for you. Do you want to safely transport, store or unload your chemicals? Please complete our contact form on our website! We will get in touch as soon as possible!

Construction

With big bags from Star Ind, the transportation and movement of sand, gravel and stones becomes effortless. It also makes the transportation of construction materials less expensive. We have big bags for single or multi trip use. Nozzles, loops and tunnels for the forklift truck increase the ease of use. In addition, you can choose or apply materials, logos and brands to your specifications.

Many big bags of sand, gravel, mortar or cement have found their way to a construction site. Do you want to be able to rely on the FIBCs (big bags/jumbo bags) from Star Ind? Please complete our contact form on our website! You will hear from us soon!

Firewood

You know better than anyone that in terms of the quality of firewood and charcoal, the quality of the packaging is decisive. Star Ind has been anticipating your firewood and charcoal packaging needs for years. Our packaging ensures that your product retains the quality that you require. We supply bags including air-permeable raschel or leno bags and premium bags which keep firewood dry.

Food

Working together on the food safety of your product. At Star Ind, that is what we do on a daily basis. Whether we're talking about hygienic packaging, odourless packaging or packaging that reduces the risk of antistatic discharges, we have a suitable solution for you. All packaging does your product justice and complies with legal requirements, taking into account your wishes and our experience.

Are you looking for the safest packaging for your product? Do you need robust and stable packaging that will ensure that your product can survive a few bumps during transport? Do you want to have an on-site technical evaluation? We are looking forward to receiving your details in the contact form on our website. We will get in touch as soon as possible.

Mining and minerals

FIBCs (big bags/jumbo bags) are now an integral part of the mining industry. There is a wide range of choices, with many properties.

Pharmaceuticals

You guarantee the safety and quality of your medicines, and we do the same for our packaging. Together, we will make sure that your pharmaceutical products meet all the packaging requirements and arrive safely at their destination. Polybag produces its packaging in special clean-rooms and applies the most stringent safety inspections. Our robust quality system is ISO certified (ISO 22000, ISO 9001, including HACCP, BRC and AIB).

We have experience in packaging clinical food, baby food, tablets, capsules, pharmaceutical intermediates and much more.

Tobacco

The quality of a product in the tobacco industry stands or falls with the quality of the packaging material. That is why Star Ind has been contributing its ideas about the right FIBCs (big bags/jumbo bags) or other packaging materials for your product for decades.

Optimise your product and your production process with jute bags, jute big bags, ventilated or non-ventilated FIBCs, raschel bags and jute container liners. Package your product in our shelf ready packaging (SRP), displays or wraparounds. Let your product reach the shops in our corrugated cardboard without needing to worry about it. In brief, let your product realise its full potential with packaging from Star Ind!

Waste & recycling

What used to be waste is now often the beginning of something new. Our FIBCs (big bags/jumbo bags) are now an integral part of the waste and recycling sector. Because we design FIBCs at Star Ind, we can support you in choosing your packaging like no one else can.

Whether we are talking about plastic bags, polypropylene bags or jumbo bags, we have an FIBC for every purpose.



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