DOOIL TPS

TOTAL PACKAGING SYSTEM



KS Q ISO 9001:2015 / ISO 9001:2015

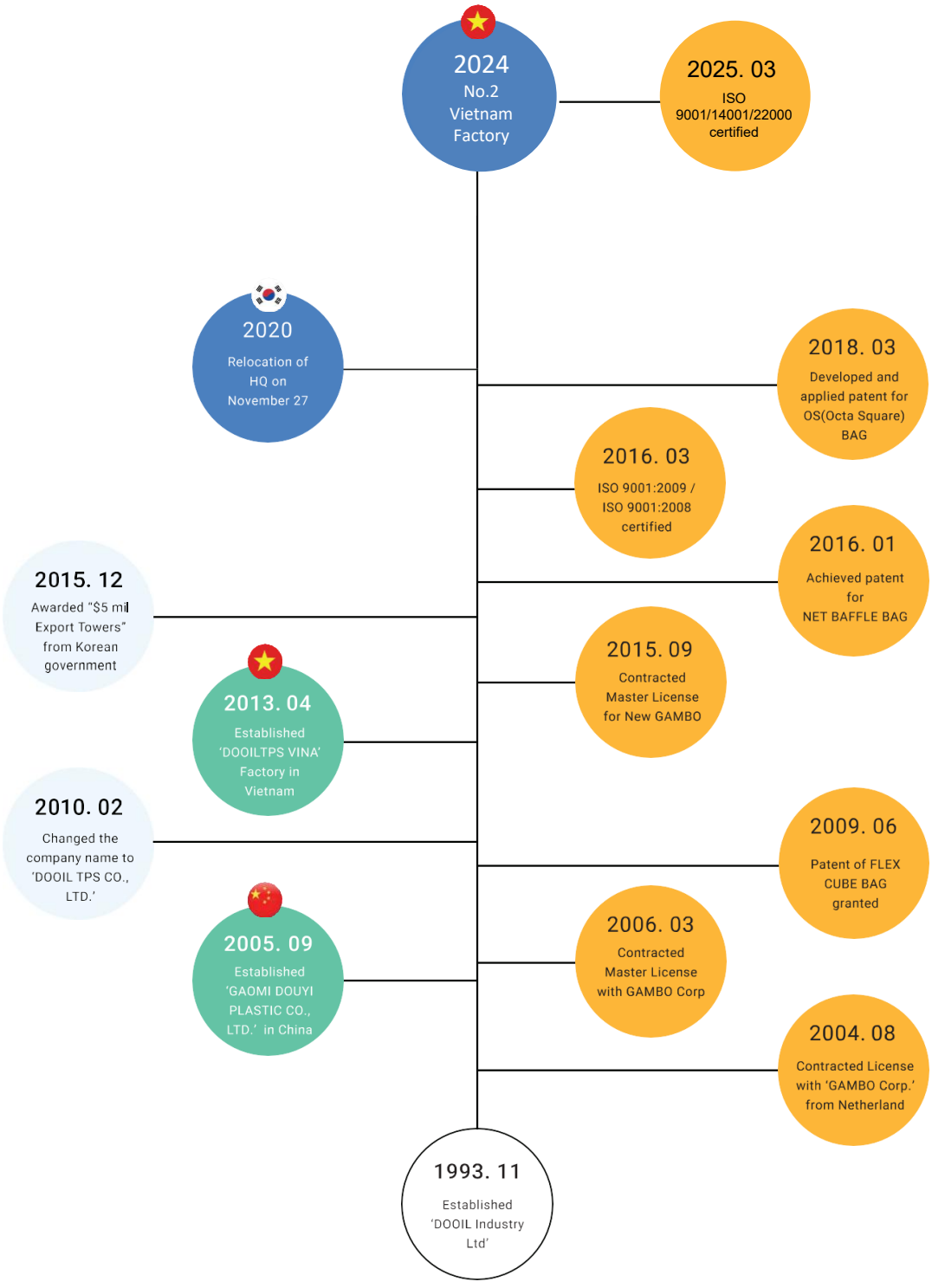
DOOIL TPS CO., LTD.

www.dooiltps.com

ABOUT

DOOIL TPS CO., LTD. is a leading manufacturer of a wide range of packaging products for petrochemical, fodder and grain industries. With proven quality and price competitiveness through long term supply to the major Korean companies in those industries, DOOIL TPS is proudly introducing its cutting edge products line-up to overseas customers

HISTORY



INTELLECTUAL PROPERTY RIGHT

Category	Application Number	Announcement	No. of Patent	Definition
Invention Patent	20150064763	2016.01.12	1586610	Container Bag with Bulkhead made by NET
	20150032460	2015.09.22	1556495	Multi-Container type Bag with corner space
	20110123674	2012.05.02	1144432	Multi-Container type Bag for Bulk Cargo
	20090054470	2009.06.18	0946095	Packing container
	20090039879	2009.05.07	0921883	Packing container
Design Registration	20090042873	2009.09.28	300544173	Packing container
	20090042874	2009.09.28	300544174	Packing container
	20090017056	2009.04.21	300536247	Packing container
	20090036055	2009.08.17	300539884	Packing container
	20090036056	2009.08.17	300539885	Packing container
	20090036057	2009.08.17	300539886	Packing container
	20090036058	2009.08.17	300539887	Packing container
	20090036059	2009.08.17	300539888	Packing container

MAJOR CUSTOMERS

LG화학 · LOTTE CHEMICAL · PolyMirae · DL Chemical · GS칼텍스
Hanwha · TotalEnergies · S-OIL · 금호석유화학 · SK chemicals
SK geo centric · TKG HUCHEMS · UNID · SERVEONE
INEOS STYROLUTION · H&L Advanced · 한국엔지니어링플라스틱(주) KOREA ENGINEERING PLASTICS CO.,LTD. · HYOSUNG CHEMICAL
orion ENGINEERED CARBONS · 한화컴파운드 · Huvis · 코오롱플라스틱(주) · BASF We create chemistry
대한유화주식회사 KOREA PETROCHEMICAL IND. CO., LTD. · SeAH 세아M&S · NH농협 · KCC · OCI

DOOIL VINA

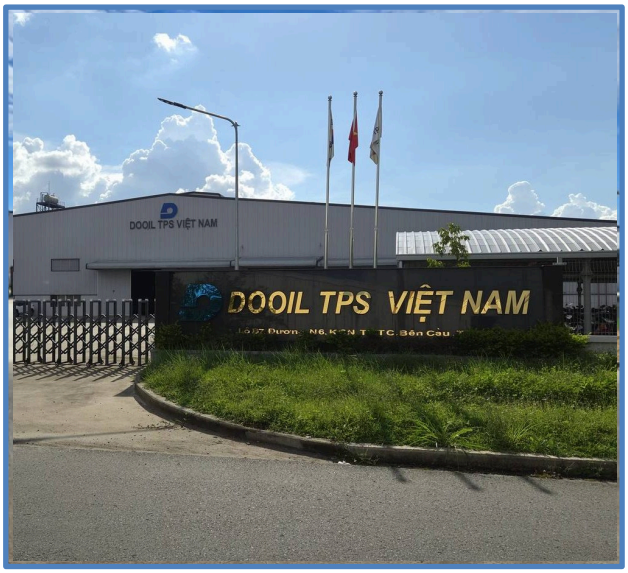
DOOIL TPS VINA is covering full line-up of FIBC with integrated production system from extruding, weaving up to sewing



DOOIL TPS VINA	
Location	Binh Duong My Phuoc Industrial Complex 2
Founded	Mar 2013
Employees	500
Capacity (Month)	NORMAL TYPE: 60,000 GAMBO & BAFFLE TYPE: 40,000 BULK LINER: 1,500
Main Equipment	Extruder / Weaving machine Film / Belt machine, Coating machine, Metal detector, Automatic cutter, Welding Hole press, printer, Foreign substance inspection Machine, CCTV, Net baffle weaving machine

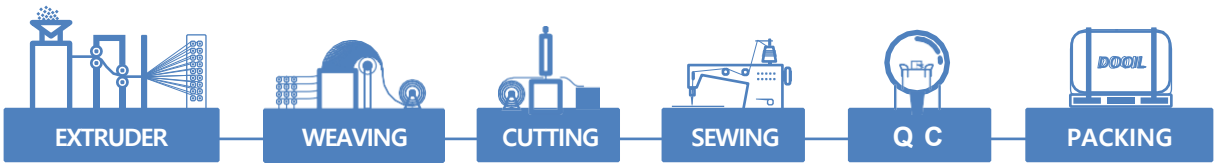
DOOIL VIETNAM

we are expanding new factory to expand existing production capacity and enter various industrial markets, including packaging bags for cathode materials of lithium-ion batteries



DOOIL TPS VIETNAM	
Location	Tay Ninh Moc bai Industrial Complex
Founded	Oct 2024
Employees	800
Capacity (Month)	FIBC: 200,000 BULK LINER: 1,500
Main Equipment	Film / Belt machine, Coating machine, Metal detector, Automatic cutter, Welding Hole press, printer, Foreign substance inspection Machine, CCTV, Clean Room

FACTORY WORKFLOW



+ EXTRUDER & WEAVING





+ CUTTING & SEWING





+ QC , PACKAGING





Quality Control

❶ **Quality Control Planning**

- Establishing Quality Managing Goal
  - Raw Material Improvement
- Quality test
  - Authorized agency testing for each item
- Regular Quality Control training

❷ **Production process and final inspection**

- First Product Inspection
  - Factory manager and leader-level staff conduct initial inspection (QC report)
- Mass Produced Product inspection (QA)
  - QA Team conducts inspections 3 times a day and prepares an inspection list.
- Total inspection (QC)
  - QC Team conducts Air blowing inspection and 1:1 full inspection on all items
- Sample inspection (by manager)

❸ **Establishing Quality Plan**

- Operation of R&D Task Team for Improvement of customer quality issues (2 staff in factory/ 2 staff in HQ)
  - In case of quality issues, respond with the factory and R&D Center to find improvement measures
  - Continuous quality process evaluation and new R&D items

✓ ALIS SYSTEM (All – Line Suction System)

- Our factory has set a goal of zero contaminants to continuously improve the quality of our products. Operating ALIS (All-Line Suction System) for contaminants management system.

- It is also applied to QC zone and packing zone for additional contaminants management at specific stages of the process.

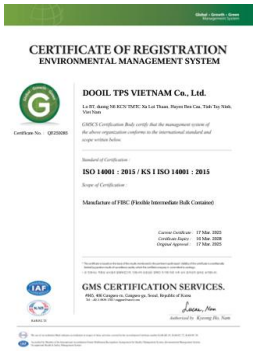
✓ Clean Room System (Class 10,000) operation to maintain optimal quality



✓ ISO CERTIFICATION



ISO 9001



ISO 14001



ISO 22000



GAMBO BAG

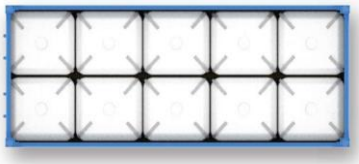
Its double layer structure of which inner layer is larger than the outer layer makes the bag maintain square shape when the bag is fully loaded. In terms of the safety during transportation and the economics of logistics, Gambo bag is the best among FIBC. Dooil has an exclusive right to manufacture Gambo bag in Korea by licensing contract with Gambo Corp., from the Netherlands.

Safe Working Load : 300kg~1,500kg / Safety Factor 5 : 1	
TYPE	WOVEN, LINER

STORAGE | SAFETY | SHIPPING COST | QUALITY | MOISTURE CONTROL

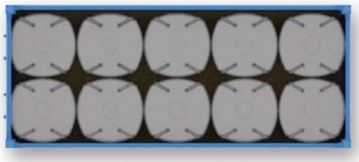
LOWER LOGISTICS FEE

20FT CONTAINER BOX



GAMBO Bag

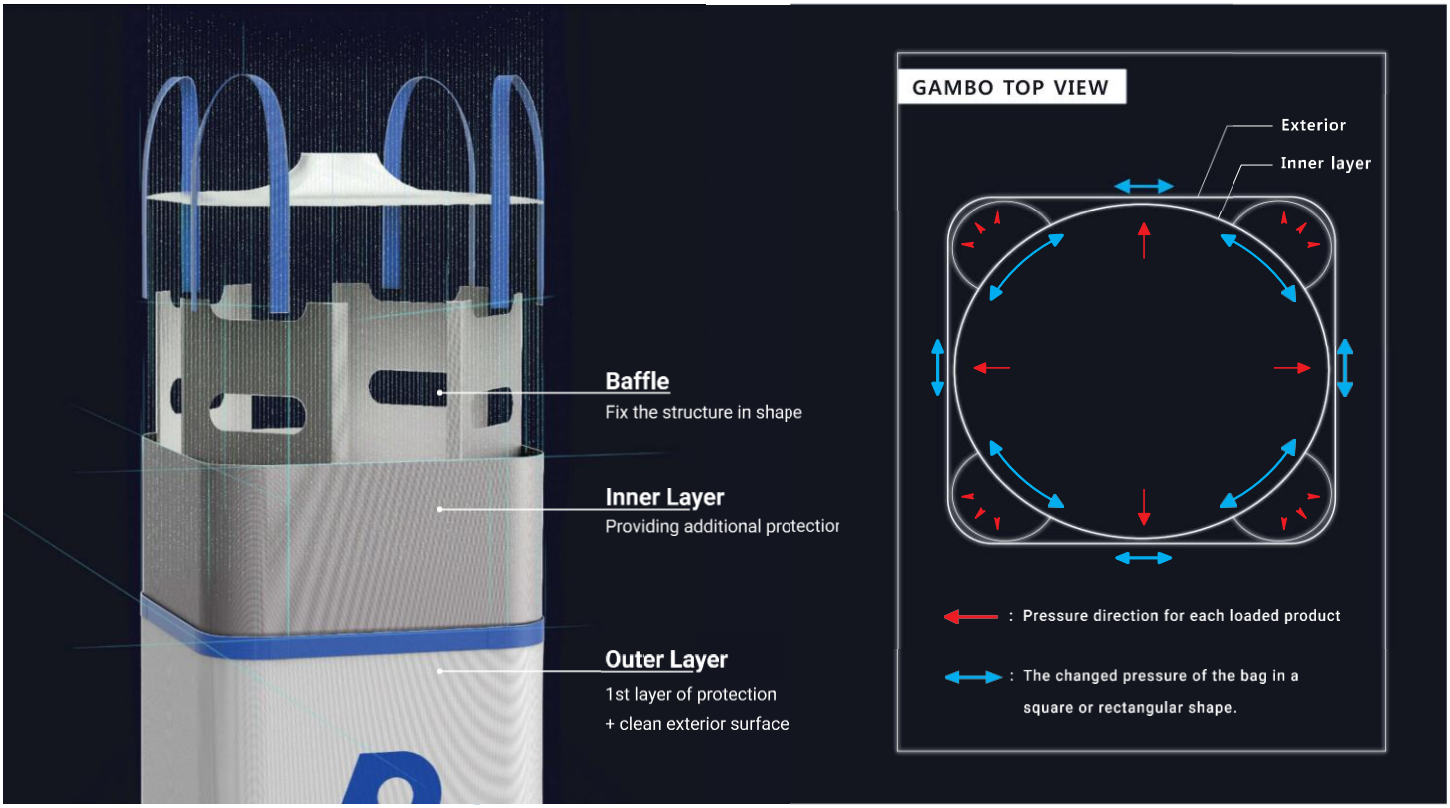
90-93%
of storage capacity



Regular FIBC

68-75%
of storage capacity




Baffle
Fix the structure in shape
Inner Layer
Providing additional protectior
Outer Layer
1st layer of protection
+ clean exterior surface
GAMBO TOP VIEW
Exterior
Inner layer
: Pressure direction for each loaded product
: The changed pressure of the bag in a square or rectangular shape.


PVC
LG Chem
MADE IN KOREA


Daelim Poly
DAELIM


LG
EPS
LUCKPOR





BAFFLE BAG

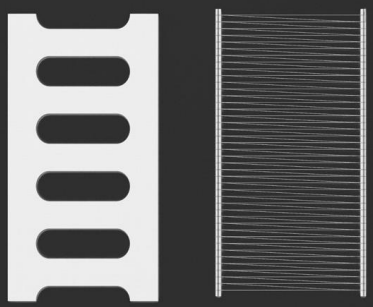
Baffle-embedded single structure square bag enhancing safety during transportation and reducing logistics cost.

NET BAFFLE BAG

By adopting net type baffles, the bag can maintain square shape and utilize its maximum capacity as the contents can be evenly spread over every corners in the bag.

Safe Working Load : 300kg~1,500kg / Safety Factor 5 : 1	
TYPE	WOVEN BAFFLE / NET BAFFLE

STABILITY | CAPACITY | MAINTAINING THE SHAPE | STACKABILITY | SPACE EFFICIENCY



TYPES OF BAFFLE

- Woven panel type
- Net (String) type

* There is a difference in load flowability and capacity depending on the content when loading.







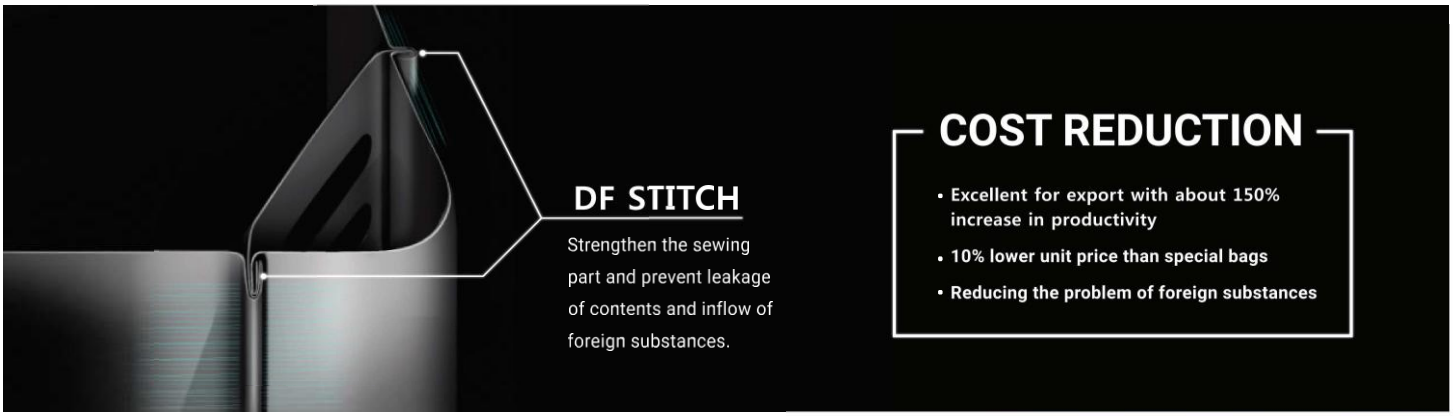


OS BAG

Dooil's own ambitious product having improved price competitiveness by reducing the number of sewing parts while retaining same performance as baffle bag

Safe Working Load : 300kg~1,500kg / Safety Factor 5 : 1	
TYPE	WOVEN BAFFLE

STABILITY | CAPACITY | MAINTAINING THE SHAPE | STACKABILITY | SPACE EFFICIENCY











NORMAL BAG

It is the most common FIBC model in the industry. Rectangular or circular type is available

Safe Working Load : 300kg~1,500kg / Safety Factor 5 : 1	
TYPE	BELT, ROPE





BOOTS BAG

The most economical solution by saving material and production cost capped with extended tubular fabric and 2 Loops type of belts.

Safe Working Load : 300kg~1,500kg / Safety Factor 5 : 1	
TYPE	BELT





CONDUCTIVE BAG

An antistatic FIBC bag applying conductivity thread to prevent explosion or fire caused by static electricity during filling and discharging of the contents.

Safe Working Load : 300kg~1,500kg / Safety Factor 5 : 1	
TYPE	BELT, ROPE



SAFETY GUIDE LINE IEC 61340-4-4

TYPE	FEATURES
TYPE A	Normal fabric without anti-static guard
TYPE B	Fabric produced by dielectric breakdown strength under 4KV, but any anti-static material is not included
TYPE C	Grounding conductor to FIBC, with conductivity coating which restricts anti-static energy of bag or thread
TYPE D	Containing component without having to ground an antistatic

UN BAG

The product is compatible with UN safety regulation guideline for the safe transportation of dangerous contents such as explosive, flammable, toxic and corrosive materials

Safe Working Load : 300kg~1,200kg / Safety Factor 6 : 1	
TYPE	BELT, ROPE











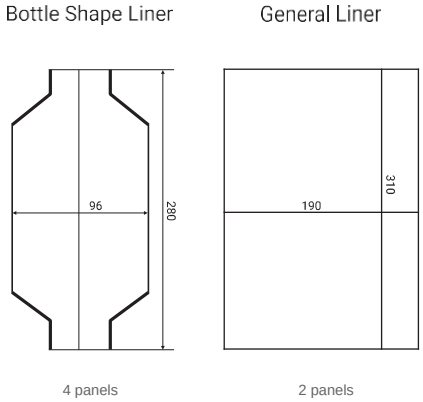
BOTTLE SHAPE BAG

The product can improve the convenience of packaging and prevent foreign body issue between Liner and Bag by making same the inlet shape of Liner for general FIBC as outlet shape of bag.

Safe Working Load : 300kg~1,500kg / Safety Factor 5 : 1	
TYPE	BELT, ROPE



Liner Comparison



- Manufacturing M-type liner in the same width as bag.
- Treating B/S liner at top/base panels, it is possible to shorten 30cm length of liner.
- By the benefit of working at B/S liner at top/base panels, it is more easy to tie after packaging.
- B/S liner (more 0.07mm) is a bit thicker than general liner. (0.05mm)

PVC BAG

The product is made of a strong PVC Tarpaulin material which can be reused for more than 10 years.

Safe Working Load : 300kg~1,500kg / Safety Factor 5 : 1	
TYPE	BELT + ROPE







BULK LINER

A large packaging container that protects the contents by simply installing liners inside the 20' to 40' Dry Container. This product offers lowest packaging cost per ton and maximum usage of loading capacity and minimum packaging waste by easy installation.

+ WOVEN TYPE

Being made of Polypropylene or Poly ethylene fabric, it is easy to install minimizing damage of the contents





+ FILM TYPE

Being made of PE FILM + PP fabric combinations, it fully protects the contents from moisture and foreign body. Mainly used for POWDER products or water-sensitive products as it is free from leakage of the contents






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