

ABOUT US

Seemark Enterprise Company Limited , is one

professional supplier and exporter in China market for

Cargo Security products and packaging material from the year 2006 .

We have been exporting our products worldwide, and enjoying high reputation among our customers since then.

Shipping departments , container stevedores and freight forwarders worldwide are working with our Dunnage air bags , our million fold used and tested product. Not only those customers value the reliability and quality of this product. our new fast filling system is among the fastest in the market .

Our GW strapping and lashing belts are the first choice in this business to secure products on pallets, in rail cars and in inter modal containers. our Composite and Woven strapping belts are manufactured under the strongest quality measures . Together with our high quality metal & wire bucles they built one of the most reliable and economic strapping systems in the market

Container Lashing, Container Awning and our Edge protectors are sucessfully established as supporting products .

Our production lines are among the most automooted ones globally. more than 300 highly trained staff are employed world wide . German engineering and management is known for its quality and efficiency and therefor what we do .

All of our team are ready to assist you with the best solution for your cargo security.



PRODUCTS

Strapping Systems

Composite Strapping
Hot Melt Strapping
Polyester Woven Belts
Metal and Wire Buckles
Tensioner-Dispenser
Accessories

Dunnage Air Bags

Kraft Paper Airbags
PP Woven Airbags
Inflation Tools

Containerization

Container lashing system
Ratchet Tie Down

Plastic items

PE bags
Stretch film
Adhesive Tape

Attachment

Edge protector
Battery PET/PP tensioner
Reefer Lock

Polyester Composite Strapping

The best solution for many applications

Polyester Composite strapping are especially made for usage on rough environmental materials and sharp edges.

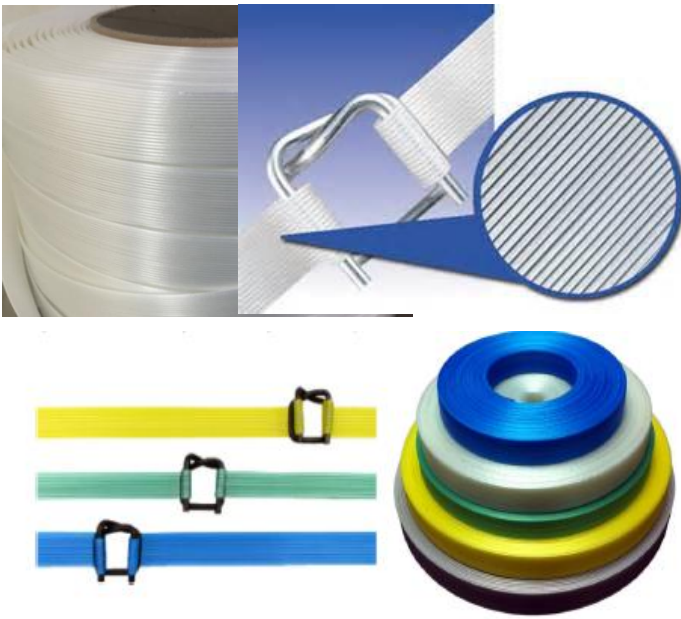
The optimise strength is the perfect base to secure the cargo.

Composite is made of parallel layers of single polyester threads covered with polypropylene. the core of our composite strapping is made of untwisted polyester yarns.

The unique and patented manufacturing process for untwisted yarns allows this strapping to achieve higher strength and lower elongation.

The Special recipe of our polypropylene coating ensures an optimal compound with polyester fibers and is at the same time resistant to most chemical solvents, caustics and acids .

Due to its high abrasion protection it is well suited for any product with rough surfaces and edges.



- ∴ High system strength
- ∴ No damage or scratch on any surface
- ∴ No corrosion-no splicing
- ∴ Comfortable handling, easy to push under pallets
- ∴ Retensionable&torsion absorbing
- ∴ No risk of injury for shippers and consignees in using or opening the strapping
- ∴ Available width 13mm to 32mm
- ∴ Linear breaking strength available from 200 to 1500daN
- ∴ Weatherproof (UV radiation)
- ∴ Easy disposable

Composite Strapping Types

Item Name	Width	Linear/System	Coil/box	Meter/Coil
SM40L	13mm	200/320daN	2	1100
SM50L	16mm	285/460daN	2	850
SM60L	19mm	380/610daN	2	700
SM40	13mm	300/480daN	2	1100
SM50	16mm	425/680daN	2	850
SM55	16mm	550/880daN	2	600
SM60	19mm	475/760daN	2	600
SM65	19mm	625/1000daN	2	500
SM69	19mm	790/1270daN	2	500
SM85	25mm	785/1260daN	2	500
SM86	25mm	925/1490daN	2	450
SM105	32mm	1500/2400daN	2	230/250/300
SM106	32mm	1500/2400daN	2	300

Hot-Melt Strapping

The basic version of current polyester strapping

Hot melt straps have been applied for many years in all industrial branches and are gentle and smooth on delicate edges and surfaces .

They can be tensioned by hand or by simple tensioning tools .They can be used with buckles or just using knots for easy binding .

The special sticky lamination provides a controlled unroll, meter by meter.

This feature makes it perfect for use in automatic baling press machines . The material absorbs very little moisture, is weather resistant and protects sensitive surfaces against damages .

Furthermore it can be retensioned in case of volume loss in packaged goods and has a high breaking load , linear and within a system.



No damage to delicate surfaces since it is a textile material

No corrosion & easy handling

Low investment costs - a small, manageable system

Retensionable in case of volume loss of the packaging good

No risk of injury for shippers and consignees in using or opening the strapping

High breaking load, in linear and system

Dynamic transport movements are absorbed by the elasticity of the strapping

Easy disposal

Weatherproof (UV radiation)

Available width 9mm to 19mm

Linear breaking strength available from 160 to 950daN

Item	Belt Width	Linear/System	Paper core	M/coil
H40L	13mm(1/2")	210daN	78X150X3.5mm	1189
H40	13mm(1/2")	375daN	78X150X3.5mm	1100
H50L	16 mm (5/8")	350daN	78X150X3.5mm	915
H50	16 mm (5/8")	440daN	78X150X3.5mm	850
H60	19 mm (3/4")	530daN	78X150X3.5mm	500
H30	9mm(1/3")	235daN	78X150X3.5mm	500
H30S	9mm(1/3")	280daN	60X150X3.5mm	500
H30-250M	9mm(1/3")	235daN	60X150X3.5mm	250
H30L	9mm(1/3")	160daN	78X150X3.5mm	1600

Polyester Woven Strapping

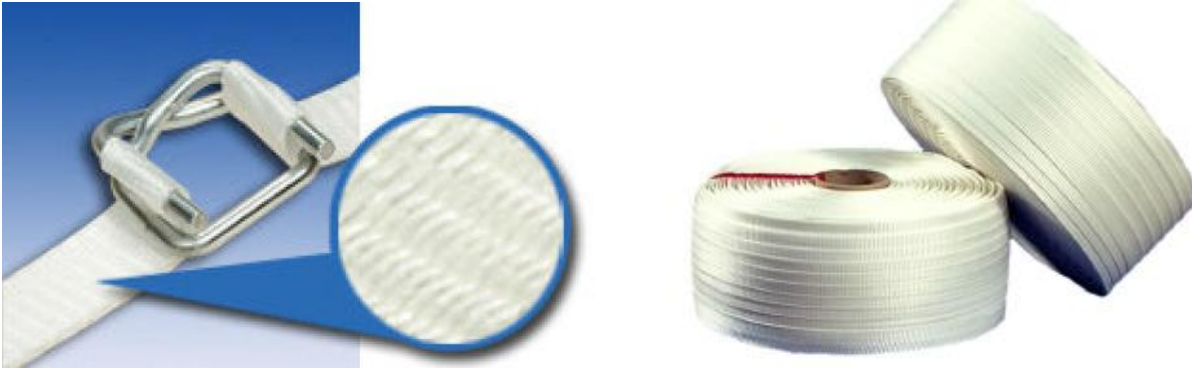
Flexible Solution For Many Applications

Woven strapping belts are made of high tensile polyester yarns. Due to its material characteristics it has low elongation(below 10%), is highly tear proof and absorbs very little moisture.

Furthermore it can be retensioned in case of volume loss in the packaged goods and has a high breaking load, linear and within the system.

We provide our woven strapping belts with a width from 13mm to 25mm and a traction force of 470 to 2400daN within a system.

Woven strapping belts do not splice, are flexible and universally applicable . our competent sales team will be happy to assist you in choosing the right strapping band and the matching accessories.



No damage to most surface	No corrosion & easy handling
Low investment cost	High shock absorbtion
A small, manageable system	Limited resistance against lyes and acids
No risk of injuiri for shippers and consignees in using or opening the	Linear breaking strength available from 395 to 1500daN
Available width 13mm to 25mm	Special glue coating for usage in baling press machines available

Item	Width	Linear/system	Length/coil	Coil/box	Box/pallet
G40L	13mm	295/470daN	1200m	3	36
G50L	16mm	350/560daN	914m	3	36
G60L	19mm	430/690daN	640m	3	36
G40	13mm	375/600daN	1100m	3	36
G50	16mm	450/720daN	850m	3	36
G55	16mm	600/960daN	600m	3	36
G60	19mm	580/930daN	600m	3	36
G65	19mm	750/1200daN	500m	3	36
G74	19mm	830/1330daN	500m	3	36
G75	19mm	1100/1760daN	500m	3	36
G76	19mm	1270/2030daN	400m	3	36
G85	25mm	1000/1600daN	500m	3	36
G86	25mm	1200/1920daN	500m	2	54
G87	25mm	1350/2160daN	300m	2	54
G92	32mm	1350/2160daN	100m	8	36
G94	32mm	1500/2400daN	330m	2	54

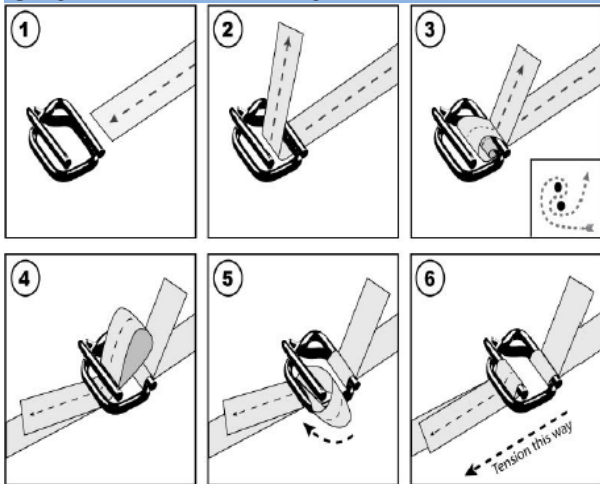


Baling Press Strapping

On this woven strapping belts , we apply a special glue coating to make it sticky. This prevents uncontrolled unwinding from the coil and make this product perfect for the usage in automatic baling press machines



Item	Width	Linear/System	M/coil	Packing
G 30 BP	9mm	275/440daN	500m	6coil/box 60box/pallet
G 40 BP	13mm	375/600daN	350m	6coil/box 60box/pallet
G 50 BP	16mm	450/720daN	250m	8coil/box 36box/pallet
G 60 BP	19mm	580/930daN	300m	4coil/box 66box/pallet
G 65 BP	19mm	750/1200daN	300m	4coil/box 27box/pallet
G 75 BP	19mm	1100/1760daN	300m	4coil/box 27box/pallet



Strapping with wire buckles

An important key to all one way strappings

Wire buckles are the most economic solution for all our strapping systems up to 32mm. When using wire buckles it is important that the belts are applied in the correct way and that they system will be tensioned on the right(left) side of the buckle.

Tensioning on the wrong side will weaken the system and therefore it is not safe.

Also important is the quality of the tensioning tools. cheap tools or inappropriate handling can damage the strapping or lashing belts and make the whole system ineffectively.



Polyester Woven Lashing Belt

Flexible solution for heavy duty applications

One-way cargo securing strapping with a high tensile strength is an economic and easy to handle alternative for conventional tension belts and /or complex wooden crates for load securing.

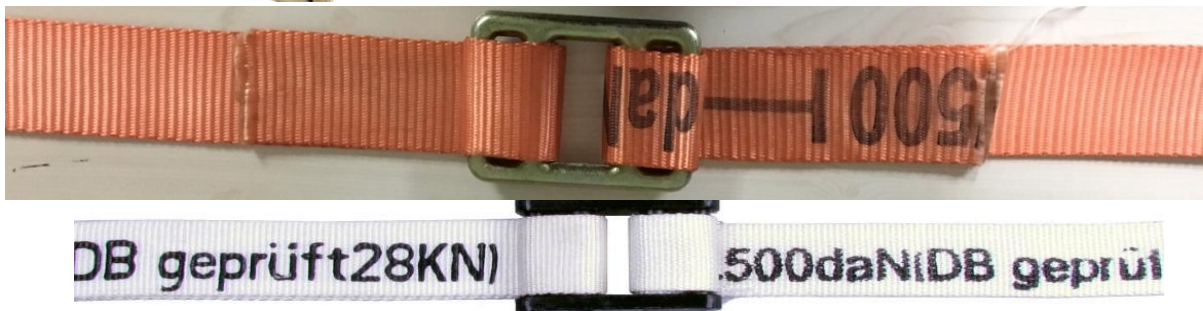
The usage of lashing is steadily increasing as a method for load securing on flat racks and in containers.

Textile lashing belts are made to tie the goods together and to fix them on suitable carriers.

In combination with our metal buckles and ratchets, a reliable connection between product and carrier can be established, serving to protect your goods against all damages during transport.

Our lashing straps are available in bulk coils, in cartons, or in our handy dispenser bag.

We offer two standard colors for lashing belts , natural white and orange .



Bulk packing

Item	Width	Linear/system	Meter/bag	Packing
G 95	35mm	1600/2560daN	370m	1bag/bo, 30box/pallet
G 105	32mm	2000/3200daN	250m	1bag/bo, 30box/pallet
G 106	32mm	2300/3700daN	250m	1bag/bo, 30box/pallet
G 150	38mm	3500/5600daN	200m	1bag/bo, 30box/pallet
G 200	40mm	5000/8000daN	200m	1bag/bo, 30box/pallet
G 300	50mm	2000/3200daN	150m	1bag/bo, 30box/pallet
G 500	50mm	5000/8000daN	150m	1bag/bo, 30box/pallet
G 600	50mm	6000/9600daN	100m	1bag/bo, 30box/pallet
G 750	50mm	7500/12000daN	100m	1bag/bo, 30box/pallet



Dispenser Bag

We also offer all our woven lashing belts winded on coils,(cake packing)delivered in our very handy dispenser bag.

A bag made from PP woven material with a strong shoulder strap. This make carring, handling and application of the lashing belts much easier .



High tensile strength
Easy handling with dispenser bag
Certified by Germanischer Lloyd
Superior resilience, low elongation
Combinable with other cargo securing systems E.g. dunnage bags
Alternative to expensive ratchet straps and bulky binding wires
DB approved
Available width 32mm to 50mm
Linear breaking strength available from 2000 to 7500daN
One-way strapping for securing (lashing)on flats, rail and in containers
No risk of injury for shippers and consignees in using or opening the strapping
Different colors and printings available



Item	Width	Linear/system	M/Coil	Packing
G95 D	35mm	1600/2560daN	2X125m	2coil/bag,2bag/box, 44box/pallet
G105D	32mm	2000/3200daN	2X125m	2coil/bag,2bag/box, 44box/pallet
G106D	32mm	2300/3700daN	2X125m	2coil/bag,2bag/box, 48box/pallet
G150D	38mm	3500/5600daN	2x100m	2coil/bag,2bag/box, 40box/pallet
G200D	40mm	5000/8000daN	1x100m	1coil/bag,2bag/box, 36box/pallet
G300D	50mm	2000/3200daN	2x125m	2coil/bag,2bag/box, 48box/pallet
G500D	50mm	5000/8000daN	1x100m	1coil/bag,1bag/box, 36box/pallet
G600D	50mm	6000/9600daN	1x75m	1coil/bag,1bag/box, 36box/pallet
G750D	50mm	7500/12000daN	1x75m	1coil/bag,1bag/box, 36box/pallet

Wire Buckles



Galvanized wire buckles

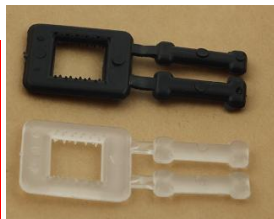
Good for our composite and hot-melt strapping

These galvanized wire buckles are protected from corrosion, sea water and other climatic threats, they are designed for easy threading and to deliver the ultimate in high load performance.



Item	Width	Wireφ	Pcs/box
B13P3.3	13mm	3.3mm	1000
B16P3.5	16mm	3.5mm	1000
B19P4.0	19mm	4.0mm	1000
B19P4.5	19mm	4.5mm	1000
B25P5.0	25mm	5.0mm	500
B25P6.0	25mm	6.0mm	500
B32P6.0	32mm	6.0mm	250
B32P7.0	32mm	7.0mm	250
B38P7.0	38mm	7.0mm	200
B40P8.0	40mm	8.0mm	150
B50P8.0	50mm	8.0mm	150

We supply nitrated wire buckles and plastic buckles in various size Nitrated buckles are for all of our belts . And plastic buckles generally used in postal service .



The wire buckles joint the strapping as a strong system , to supply maximum effect in packing and loading application! Strapping Buckles can be tensioned by hand or with a tensioning tool. No sealing tools are required. Just feed the strapping thru the wire or plastic buckles and pull tight

Item	Width	Wireφ	Pcs/box
B13G3.3	13mm	3.3mm	1000
B16G3.5	16mm	3.5mm	1000
B19G4.0	19mm	4.0mm	1000
B19G4.5	19mm	4.5mm	1000
B25G5.0	25mm	5.0mm	500
B25G6.0	25mm	6.0mm	500
B32G6.0	32mm	6.0mm	250
B32G7.0	32mm	7.0mm	250
B38G7.0	38mm	7.0mm	200
B40G8.0	40mm	8.0mm	150
B50G8.0	50mm	8.0mm	150

Phosphated Wire Buckles

Another special design for our woven strapping

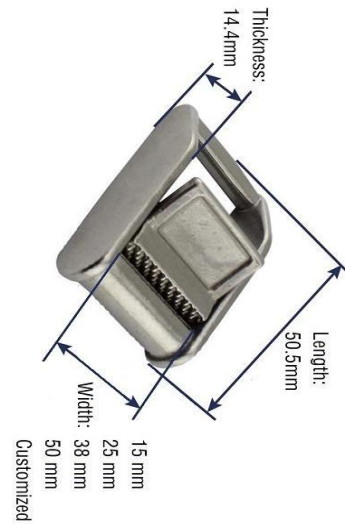
These phosphated wire buckles has been made in our factory for many years and has been performing without any problems ever since .The special coating/threading makes the wire surface more blunt, an effect which is veru useful to prevent the strapping belt from slipping. it also protects the material from wear and helps prevent galling. Special for our woven PES belts phosphated buckles are recommended.



Cam Buckles

Our cam buckles range from 1 inch wide to 2 inches wide , in zinc alloy or stainless steel material and come in several different styles and capacities.

Material	Size	Breaking strength	Color
Steel	2"/50mm	3000daN	Electrolytic polishing
	1"/25mm	500daN	
Zinc Alloy	1.5"/38mm	1500daN	Zinc
	1.5"/35mm		Black
			Zinc
	1"/25mm	550daN	Black
			Zinc
		750daN	Black
	1.5"/38mm	1500daN	Zinc
	1"/25mm	700daN	Zinc
	18mm	300daN	Zinc
		150daN	Zinc
	1"/25mm	1500daN	Zinc
		1000daN	Black
			Zinc

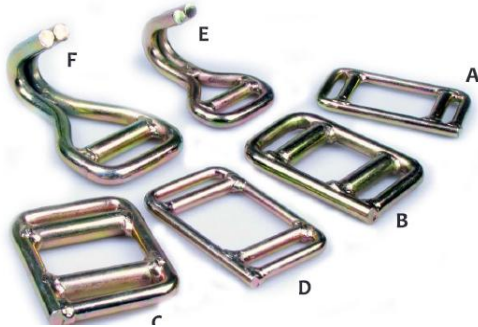


Forged Metal Buckles

Forged like a horseshoe and without welded points which might break under too heavy force. Our in house made forged buckles are made of high quality steels and are optimal protection against corrosion. The complex and expensive manufacturer procedure guaranties highest quality and extreme strong attributes. there are no strapping challenges you can not conquer with these forged buckles.



Item	Description	For belt width	pcs/Box
FB30	Forged metal buckle	30mm	140
FB40	Forged metal buckle	40mm	80
FB50	Forged metal buckle	50mm	60



Item	Picture	For belt width	Pcs per box
MB30RD	A	30mm	160
MB40RD	B	40mm	80
MB 50	C	50mm	70
MB 50 L	D	50mm	125
MH 35	E	35mm	60
MH 50	F	50mm	40

Metal Lashing Buckles

Heavy duty welded buckles

These metal buckles and hooks we are producing in our own factory for several years and they have become a standard product for strapping and lashing systems.

They all have been developed and improved for the last years and permanent tested and we have got several test certifications and approvals like from DB, Germanischer Lloyd , TUV and others.

Battery Operated Tensioner

BT-35 for woven and composite strapping

This new electric battery powered strapping tensioner for belts up to 32mm width. Function and design are outstanding and revolutionary. Instead of using a standard power tool, somehow attached to a gearbox, we have designed this tool from scratch, focused on the application.

And the results are astonishing. A very strong motor and the newest generation of rechargeable batteries have proven their reliability in many tests.

Advantages:

- Newest lithium ion battery technology
- Min. 600 up to 1000 pulls per charge
- Fully recharged in 1 hour
- External power supply included
- Heavy duty durable and ergonomic design
- Pulling force up to 850 KG/F
- Wind and rewind function
- Integrated belt cutter



Pneumatic strapping tensioner



These Pneumatic tensioners can be used for woven polyester strapping and for composite strapping belts from 9-32mm. The PT-50 can be used for up to 50mm strapping, but not heavy duty lashing.

PT-35 pulls up to 800KG/F. 4.5KG per unit.

PT-50 pulls up to 750KG/F. 3.6KG per unit.

For PT-35, the strapping cutter knife is included in the tool, the blade is made from special hardened steel.

Tensioner T-25, T-35/A, T-50

The market of tensioner is already overflown with cheap models made in China. Our tensioners are made in China too, but it contains advanced German engineering and knowledge .

While most of the cheap models are based on a ratchet system our tensioner is equipped with two anti cycling one-way bearings.

These bearings make the tensioner more durable and easy to handle ,as less force is needed during the tensioning. the special designed bracket shoe is made for all our strapping systems. high quality composite will be protected. the intergrated stainless steel cutter will easily cut and belt.



T-25



T-35A



T-50



Item	One way bearing	Belt width
T-25	yes	up to 25mm
T-35	yes	up to 32mm
T-35A	yes/Alu.body	up to 32mm
T-50	yes	up to 50mm

Ratchet RT50 XXL

Heavy duty challenges needs heavy duty tools.

The RT-50XXL ratchet is made for tensioner big and strong belts. This ratchet type tensioner can be used for any kind of strapping system fo 25 to 50mm width. The design fo these big tools is made to be as light weighted as possible and the wide tension angle gives you maximum tensioning strength at Minimum force .

RT-50XXL



Universal bracket for Ratchets



Combile any standard ratchet with our, in house manufactured universal belt bracket, to a very powerful tension tool.

The inexpensive ratchet can easily be changed when defective or worn out.the belt clamp of the bracket is extremely durable. Here we have created an inexpensive but valuable combo.

BR-50 tensioner, flexbile ratchet bracket with ratchet

BR-55 tensioner, bracket with ratchet "PUSH" system

Our Dispensers

Durable as a sledgehammer was one target when we developed this dispenser. On the other hand it had to be easy to handle and could not be too heavy . Quite a challenge .

With our new , all-in-house-made, high performance dispenser we are matching all our customers needs and wishes.

The handle bar is adjustable in height for a comfortable handling. the heavy-duty roll dispenser is extremely durable and fits to almost all common strapping belt coils .

The double ball bearing centre makes it possible for the coils to turn smooth and easy . but only as far as you want it . the integrated belt brake will prevent an uncontrolled unreel of the belt.

The balling bearing wheels , the solid standard and the tool compartment makes the dispenser complete.



ECONOMIC DISPENSER

Solid, low cost dispenser



Item	Description	Coil Ø	Picture
Dispenser cart I	Dual handle cart with adjustable handle,belt brake and tool tray	78&200mm	A
Dispenser cart II	Single handle cart with fixed handle belt brake and tool tray	78&200mm	B
Dispenser stand	Single handle stand with fixed handle belt brake and tool try	78&200mm	C
Eco cart dispenser	Steel discs dispenser with fixed handle belt brake and tool tray	145/150/ 200/400mm	E

Dunnage Air Bags

The purpose of a dunnage air bag is to secure the cargo and create a bulk head during transit. That can be a sea container, a rail car, a truck, a vessel or inter modal .

The dunnage air bags will be fitted into the gaps or void between the cargo and then carefully filled with compressed air . the air bag will safely secure your cargo during transit, by preventing movement and absorbing impacts.

Dunnage bags are the most cost effective and economic solution to secure the goods inside a container, a rail car or a truck.

Seemark provide different quality levels and many different sizes of dunnage bags. You can control the cost factory by chossing the right bag for your application.

How to choose the right air bag for my application?
High TEA Kraft Paper or Woven PP ?

Kraft Paper Dunnage bags

are the most common bags used world wide .the extensionable kraft paper is very strong and can be applied to the IN-LINER in multiple layers to make it extremely strong. It also makes the bags more stiff,so it is easy to apply them into the gaps.we offer kraft paper bags in 1,2 ,4 and 4ply.



Woven PP dunnage bags

are a good alternative to paper air bags. they are lighter and 100% recyclable. but their biggest advantage is that they are water resistant.

The performance is the same as for paper are bags and also classified in the 4 categories .

PP woven air bags will extend when inflating as it is a fabric material. but they always can be re-inflated to establish solid pressure.

PP woven air bags V/S Kraft paper air bags

Strong multi-layer technique	☹
water resistant	☹
solid stiffness	☹
100% polypropylene can be recycled	☹
many times reusable if deflated correctly	☹
environment friendly, no paper involved	☹
mainly automoated manufacturing	☹
fast filling system available	☹



Dunnage Air Bags Basics

The basic construction of any dunnage air bag is the combination of two major parts, the IN-LINEAR (also called bladder or balloon) which actually holds the compressed air tight at high pressure levels, and the OUT-LINER (the cover) which gives the shape, the stability and the enormous strength to the dunnage air bag. The strength of an air bag depends on the material thickness or number of kraft paper layers.

Material

All our dunnage bags IN-LINEAR are made of a special extruded polyethylene (PE-mixture) and guarantees perfect tightness even under high pressure. We offer two kinds of OUT-LINEAR for our dunnage bag, an extensible Kraft Paper construction with high TEA (tensile energy absorption) and multiple layer option for higher strength, or a PP woven polypropylene material in different GSM thickness.

Valve Systems

Customers can choose two kinds of valve, the standard valve which have been tested and approved by our customers in the many million air bags we have produced in the last 15 years. or the MEGAFLOW fast filling valve system, which allows you to fill up air bags much faster with our special Venturi air filling device. blowing compressed air in the special jet chamber inside the filling device creates a vacuum and the device "sucks" a huge amount of additional outside air into the bag. this so called venturi effect saves 30-40% of your time filling bags.

Usage

to use place the bag in the gaps between your cargo and start inflating using compressed air. you can easily recognise when the bag is filled enough. then it sits tight and unmovable in the vault. do not over fill the bags to avoid damage to your cargo. now your cargo is effectively secured during the transportation. when unloading, just open the valve to deflate. you can use our dunnage bag several times.

Air bag size

using the right size is a key point to safe transportation. the width of the bag is most important and depends on the size of the gap to fill. the length of an air bag can freely be adjusted to the size of the cargo.

Size of gap/void: >30cm >40cm >50cm >60cm

Bag size-width: 60cm 90cm 120cm 150cm

Important factors :

- what is the cargo's weight?
- how high is the cargo?
- how long is the cargo's trip ?
- what carrier is used?(Container, truck)
- are big climatic changes expected ?



Standard Valve

Tested and approved by our customers in the many million air bags. Recommended for heavy-duty and super heavy duty bags.

MegaFlow Valve

Our new designed, once inch fast filling system for the Megaflow "Venturi" inflator. When filling time is essential.



Kraft Paper Dunnage Air Bags

* Standard ... our bag --tested--approved--certified

* "Safver" ...When good is good enough

Level 1 standard AAR Type 2-ply

Max.filling press=20kPa/0.2bar/2.9 P.S.I

Our absolute best seller, convinced customers around the world more than a million times. the performance offered in relation to the price is unique in the business.

The tested burst pressure, is three times higher than the filling pressure and exceeds all European safety standards by far.

Certainly this bag has got the level-1 AAR

Recommended valves: standard(SV) Megaflow(MV)

Available width: 60cm-90cm-120cm

Available length: 90cm to 270cm



Heavy Duty Type 4-ply

Max filling press =40kPa/0.4bar/5.8P.S.I

For heavy loads and strong forces during transportation we suggest our "heavy-duty" or level-2 bags. the 4-ply paper construction is very resistant against outside forces. The nominal filling and burst pressure match with all current international safety standards for sea, road and railway transportation.

Recommended valve: standard valve(SV)

Available width: 60cm-90cm-120cm

Available length: 90cm to 270cm

Super Heavy Type 6-ply

max filling press=6kPa/0.6bar/8.7 P.S.I

This is your cargo's 'bodyguard' when it comes to extremely heavy loads and forces. These bags are made for special applications and they absorb almost all forces encountered during transportation. The nominal filling- and burst pressure match with international safety standards for sea, road and railway transportation.

Recommended valve: standard(SV)

Available width: 60cm-90cm-120cm-150cm

Available length: 90cm to 270cm

Features of Seemark's Kraft paper airbags

5 types of strength:

- Light 1-ply(safver)
- Medium 2-ply(safver)
- Level 1 standard AAR
- Heavy duty 4-ply
- Super heavy 6-ply

Reusable

ISO9001:2008 certified

SGS and ROHS test report

TUV certificate

Level 1 AAR approved

Meet most safety standards

100% recyclable

Many standard sizes available

Fast filling system available

Very user friendly

For all climatic conditions

Logo printing possible



SAFVER light 1-ply

max.filling press=13kPa/0.13bar/1.9P.S.I

Our most economic kraft paper dunnage bag ever. the high quality of the used kraft paper used allows quite high filling pressure even with only 1ply.

For light and medium weight goods without the risk of the penetration with sharp objects these bags are a good solution to secure cargo in a container.

Available valve: Mega flow(MV)

Available width: 60cm-90cm-120cm

Available length: 90cm to 245cm

SAFVER medium 2-ply

max filling press=18kPa/0.18bar/2.6P.S.I

Our most economic kraft paper dunnage bag ever.

The very high quality of the paper used allows almost standard medium filling pressure even with only 1 ply of paper.

For light and medium weight goods without the risk of the penetration with sharp objects these bags are a good solution to secure cargo in a container.

Available valves: MegaFlow (MV)

Available width: 60cm - 90cm - 120cm

Available length: 90cm to 240cm

Shipping cartons for dunnage air bags:



Stack 3 for Standard Valve
Stack 2 for Mega Flow Valve

Standard or MegaFlow ?

According to the valve of an air bag the packing is chosen to achieve maximum quantity. per carton pallet.

For standard valve bags we use the lower 3 stack boxes, for MegaFlow valve the higher 2 stack cartons. Both versions are available for standard and for HQ containers.



Retail Box for Saver bags !

Not every customer needs hundreds of bags at the same time, but 40-50 here and there.

To repack those cause additional cost and time. Now you can order bags in smaller size and quantity.

Our advanced manufacturing of dunnage air bags in Dongguan / China

Hose loom weaving machines producing out-liners made of flat yarn from our own production. After the weaving process the sack get laminated to make the bag as strong as necessary.



State of the art production of the co-extruded in-liner with maximum quality control. Every second bag will get inflated and must go through the leakage test for many hours.

The quality control staff is highly trained and any problem is reported immediately to the management in order to find an adequate solution in short time.

Polypropylene Dunnage Air Bags

- **Standard** ... the original OEMSERV bag - tested - aproved - certified
- **"Safver"** ... when good is good enough

SAFVER medium type

max. filling press = 18 kPa / 0,18 bar / 2,6 P.S.I.

The Saver PP bag is going to be our most popular dunnage air bag. Customers which have tried and tested this bag have never been disappointed and happy with the value for money. Saver bags can be used for light and medium heavy weights and they can absorb most of the forces encountered during transportation.

Available valves: MegaFlow (MV)

Available width: 60cm - 90cm - 120cm

Available length: 90cm -to 240 cm

PP90 - Standard Medium Type

max. filling press = 20 kPa / 0,2 bar / 2,9 P.S.I.

The PP 90 Easy bag is by far our popular dunnage air bags. Customers around the world have tried and tested this bag more than a million times and have never been disappointed. It can be used for light and medium heavy weights. The bag absorbs the forces encountered during transportation and have the **AAR level 1 cerstification**.

Available valves: Standard (SV), MegaFlow(MV)

Available width: 60cm - 90cm - 120cm - 150cm

Available length: 90cm -to 270 cm

PP150 - Heavy Duty Type

max. filling press = 40 kPa / 0,4 bar / 5,8 P.S.I.

For heavy loads and strong forces during transportation we suggest the heavy duty PP bags. The 150gsm material is very resistant against outside forces. The features match with international safety standards for sea-, road- and railway transportation.

Recommended valves: Standard (SV)

Available width: 60cm - 90cm - 120cm - 150cm

Available length: 90cm -to 270 cm

PP200 - Super Heavy Type

max. filling press = 60 kPa / 0,6 bar / 8,7 P.S.I.

The PP200 woven bag is our strongest PP dunnage air bag. It will resist almost any threats. It is made for very heavy loads and transportation forces. Even with this highperformance attitudes it is light weighted and easy to apply to the cargo.

Recommended valves: Standard (SV)

Available width: 60cm - 90cm - 120cm - 150cm

Available length: 90cm -to 270 cm



Features of PP woven airbags

Re-usable

ISO 9001:2008 certified

SGS and ROHS test report

TÜV certificate

meet most safety standards

100% recyclable

Level 1 -3 AAR aproval

many standard sizes available

fast filling system available

very user friendly

for all climatic conditions

can request customer size

logo printing possible

Inflator tools for dunnage bags

MegaFlow fast filling system

Our fast filling tool is designed for the Mega valve which is available for all our dunnage air bags.

This fully proved system, that eliminated operator error, can fill your dunnage air bag 30% to 40% faster than any other compressed air filling system!



Standard inflation tool

this is our classic filling tool for PP woven and paper air bags. Our special design of the valve adapter can easy be clipped on air bags valve; the handle helps to hold the bag in position.

The valve adapter comes in two types, one with a flexible rubber tube(40cm),and another one with a fixed steel pipe(20cm). an optional manometer shows the exact filling pressure.



Item	Description
S.800	Standard inflator 40cm tube
S.900	Standard inflator 40cm tube with manometer
S.805	Standard inflator 20cm pipe
S.805	Standard inflator 20cm pipe with manometer
M.5055	Mega flow basic, inflation tool, nylon body with slide valve
M.5056	Mega flow plus, inflation tool, nylon body,aluminium intake and outlet slide valve
M.5060	Mega flow advanced inflation tool,alu body, slide valve, flap, manometer

Container lashing systems

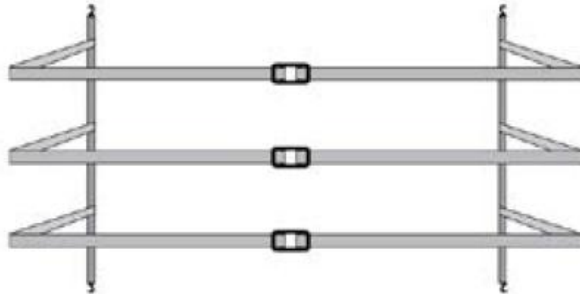
Ready made belt lashing sets

Container lashing has never been easier than with our container lashin ready made belt system.

It provides fast and effective load securing inside a container.

The goods are good protected against damage during transport, and when opening the container doors .

There is no risk or danger of injury for the receiver when unloading the container.



- *The alternative to complex timber constructions
- *Ready-made belt system = time and cost reduction
- *The fast and inexpensive solution for good cargo securing inside a container
- *Easy to hook the four vertical straps into the existing container attachment points (eyes)
- *Belt width available as 32mm and 50mm
- *Horizontal belts are movable or on a fixed position
- *Available for standard and high cube (HQ) container
- *Container lashing with 2, 3 or 4 horizontal belts

Item Belt system for standard container, 2 vertical belt with 2 hook, 2.4M high

NET5	2horizontal, movable, 32mm belts of 3m
NETW5	2horizontal, movable, 50mm belts of 3m
NET7	3horizontal ,fixed, 32mm belts of 3m
NETW7	3horizontal ,fixed, 50mm belts of 3m
NET8	3horizontal ,movable, 32mm belts of 3m
NETW8	3horizontal ,movable, 50mm belts of 3m
NET2	4horizontal ,fixed, 32mm belts of 3m
NETW2	4horizontal ,fixed, 32mm belts of 3m
NET3	4horizontal ,movable, 32mm belts of 3m
NETW3	4horizontal ,movable, 50mm belts of 3m



Item Belt system for high cube(HQ)container, 2 vertical belt with 2 hook, 2.7m high

NET6	2horizontal, movable, 32mm belts of 3m
NETW6	2horizontal, movable, 50mm belts of 3m
NET10	3horizontal, movable, 32mm belts of 3m
NETW10	3horizontal, movable, 50mm belts of 3m
NET4	4horizontal, movable, 32mm belts of 3m
NETW4	4horizontal, movable, 50mm belts of 3m
NET1	4horizontal, fixed, 32mm belts of 3m
NETW1	4horizontal, movable, 50mm belts of 3m



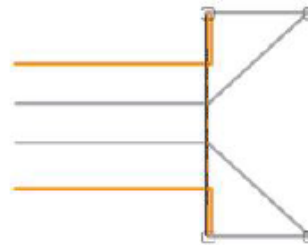
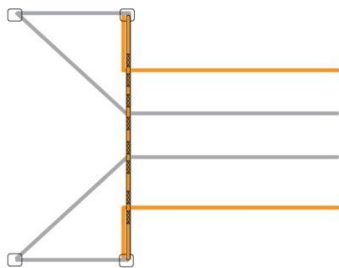
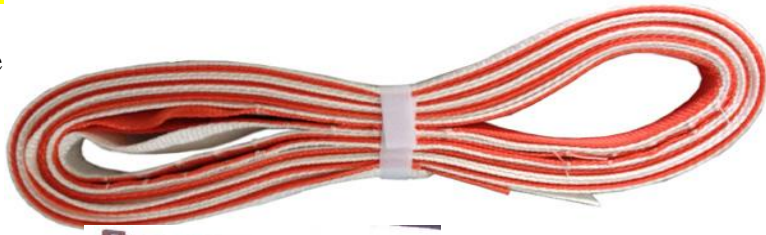
IMO Container Lashing System

Using 4 container lashing points(eyes) each side

Since the last revision of the IMO guidelines max,force which should be applied to the lower container lashing point is 1000kg and just 500kg to the upper point.

Using two sides, that gives a max. strength of 3 tons. By using 4 instead of 2 lashing points on each side of the container we can reach a much higher securing force

The IMO lashing system don't need hooks for its application to the eyes and is so not only our strongest, but also most economic version.



Item: IMO container lashing set of 2(left and right)

Clamp Lock Belt

this simple transport belt can be used in any application where it is only a temporary need to fix some cargo onto a transporting unit. Many applications in camping, outdoor activities, transportation of bicycles or motorbikes, boats, surf equipment and much more .

Belt Width	Length	Strength	In box
25mm	5m	1000daN	125pcs
25mm	6m	1000daN	100pcs
32mm	6m	1500daN	80pcs



Container Awning

Container Awning will secure your cargo and save the people from falling goods when opening the doors.



PP-150 2,3 x 2,3 m Container Awning, 2,30 x 2,30 meter,
4 x 25mm belts of 3.5 meter with clamp lock and 2 flat buckle 25mm

Ratchet Carao Lashina Belts



Cargo Lasing With Standard Ratchet
European Type EN-12195-2



Cargo Lashing With Egro Ratchet
European Type EN-12195-2

Ratchet tie down company with standard EN-12195-2 for Europe. Means:

*Min.break load of webbing is 3xLC

*Min.break load of hooks and ratchet assemblies is 2xLC

*Elongation of the webbing<7% @LC

*Complete ratchet sustain@1.25LC without relevant distortion

*Complete ratchet sustain@2LC without breaking.

!Webbing made by 100% polyester

!With TUV CE GS certificate

! STF for standard ratchet is 350daN, STF for Ergo ratchet is 550daN because it is with slightly longer tension.

!Advantage for ergo ratchet: takes less time to tension and with longer lifetime.

! Traceability: all RTD straps come complete with blue polyester safety labels included series number together with the date of manufacturer which is stitiched into the webbing for traceability,in the event the lable is dislodged .



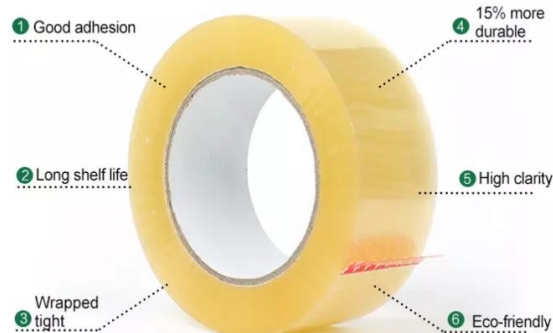
Cargo Lashing With Standard Ratchet

Type	Belt width	Load Capacity	Breaking	STF daN	Fixed Length	Length	End Fitting
SM-80-01	50mm	2500daN	5000daN	350	0.5m	8m	Double J hook
SM-80-02	50mm	2500daN	5000daN	350	0.5m	10m	Double J hook
SM-80-03	50mm	2500daN	5000daN	350	0.5m	12m	Double J hook
SM-80-04	50mm	2500daN	5000daN	350	0.5m	9m	U hook
SM-80-05	75mm	5000daN	10000daN	500	0.5m	10m	Double J hook
SM-80-06	75mm	5000daN	10000daN	500	0.5m	12m	Double J hook
SM-80-07	25mm	250daN	500daN	100	0.3m	5.7m	Double J hook
SM-80-08	25mm	400daN	800daN	100	0.3m	5.7m	Double J hook
SM-80-09	35mm	500daN	1000daN	100	0.3m	5.7m	Double J hook
SM-80-10	35mm	750daN	1500daN	100	0.3m	5.7m	Double J hook
SM-80-11	35mm	1000daN	2000daN	100	0.3m	5.7m	Double J hook
SM-80-12	35mm	1500daN	3000daN	200	0.3m	5.7m	Double J hook
SM-80-13	35mm	1500daN	3000daN	200	0.3m	7.7m	Double J hook

Cargo Lashing with Egro Ratchet L375

SM-80-04E	50mm	2500daN	5000daN	550	0.5m	8m	Double J hook
SM-80-05E	51mm	2501daN	5001daN	550	0.5m	10m	Double J hook
SM-80-06E	52mm	2502daN	5002daN	550	0.5m	12m	Double J hook

Bopp Adhesive tape



Item	Length	Width	Thickness	Color
Bopp Tape	≤1000M	18,24,36,45,48,50,72mm	36-65mic	Clear,brown, tan, yellow light yellow,red,blue, green and white, can be customized printing
Bopp Tape Jumbo Roll	4000M /4500M /4800M	1280mm		

Stretch Film



Products description

Specifications:

- 1) Thickness: 0.017-0.03MM
- 2) Width: 300MM 450MM 500MM
- 3) Length: as your request
- 4) Color: transparent/clear,black,green,and so on
- 5) Net weight: on buyer's option
- 6) Packing: cartons or pallets.

Product features:

- 1.100% New material and accept sample order.
- 2.Excellence and beautiful, the high grade product.
- 3.Easy to be pulled out and cut.
4. Transparency and no drape and even thickness.

Edge protector & Drum Security

We supply plastic and metal edge protector to keep your carton box , pallet and cargo safety during bunding, tensioning and lifting .

Suitable drum brackets for any application , to secure the barrels on the pallet , we recommend our drum brackets and drum covers



Item	Code	Specification	Packing
Edge Protector	Jumbo	PP Edge Protector - Jumbo - 140x190x150mm	54pcs/box
	KS50P	PE Drum Bracket - KS50P - 70x110x65mm	360pcs/box
	KS90P white	PE Edge Protector - KS90P - 90x90x135mm	200pcs/box
	KS90P black	PE Edge Protector - KS90P - 90x90x135mm	200pcs/box
Drum Bracket	FS50PR	PE Drum Bracket - FS50PR- 65x55x30mm	640pcs/box
	FS50PK	PE Drum Bracket - FS50PK - 65x55x38 (28) mm	1280pcs/box
	FS25P	PE Drum Bracket - FS25P - 70x110x35mm	700pcs/box
Barrel Cover	FH-1	Single Barrel Cover FH-1	250pcs/box
	FH-2	Double Barrel Cover FH-2	200pcs/box
	FH-3	Triple Barrel Cover FH-3	150pcs/box
	FH-4	Quadruple Barrel Cover FH-4	150pcs/box

Metal corner protector for heavy duty lashing and lifting



Dimension	Packing
4" x 6"	45pcs/box , 1620pcs/Pallet



Handle Electric/battery strapping tensioner for PET and PP Belt



Application: up to 19mm PP/PET belt,
0.5-1.2mm thickness



DDC19A

Dimension: 345x110x115mm
Parts: 2 batteries+1 charger + tools pack
Charge time: 90minutes
Lifftime: Charge 2000times
Max tension: 5000N
Unit weight: 4.3kg
Gross weight: 6.6kg
Battery capacity: 14.8V-4000mAh 59.2 Wh
Charger power input: 110v-245VAC -50-60HZ
Seal type: friction hot melting seal



13/16B

Application: up to 16mm PP/PET belt, 0.5-1.2mm thickness
Dimension: 340x130x120mm
Parts: 2 batteries+1 charger + tools pack
Charge time: 90minutes
Lifftime: Charge 2000times
Max tension: 2800N
Unit weight: 3.16kg
Gross weight: 5.44kg
Battery capacity: 4.0A/h12VCD
Charger power input: 110v-245VAC 50-60HZ
Seal type: friction hot melting seal



13/16A

Application: up to 16mm PP/PET belt, 0.5-1.2mm thickness
Dimension: 340x130x120mm
Parts: 1 battery+1 charger + tools pack
Charge time: 90minutes
Lifftime: Charge 2000times
Max tension: 2800N
Unit weight: 3.16kg
Gross weight: 5.44kg
Battery capacity: 3.0A/h12VCD
Charger power input: 110v-245VAC 50-60HZ
Seal type: friction hot melting seal

Reefer Lock

An L-shape steel lock to fix cargos onto the floor of a reefer container

Item	Size	Packing
RFL125	125x80x58mm	20pcs/box 48box/pallet

