

## Inflatable Air Packing Rolls

Consisting of 95% air and 5% plastic film, inflatable air packaging material uses related physics principles to achieve all air tubes inflation at one time. Meanwhile, it can be self-locked up air and form cushioning space. All the air chambers are respectively independent, which brings the advantage that even one air tube leaks, other tubes remain intact. Our inflatable air packaging material mainly contains 2 types: Inflatable air packing rolls and Inflatable air bag designs.



**Air tubewidth(φ 20mm~90mm)  
Total width(300mm~1200mm)**

## Advantages

- ① By using newly patented no printing valves, the air inflow is smooth and effective.
- ② Nice and clean appearance material, it also has good performance in buffering protection.
- ③ No tooling needed, thus tooling cost can be saved and shorter production lead time can be achieved.
- ④ It is small and flat before inflating, thus a lot of space can be saved in warehouse and transportation.
- ⑤ Easy and quick to inflate, labor time and packing cost can be saved.

### Air packaging VS Traditional packaging materials



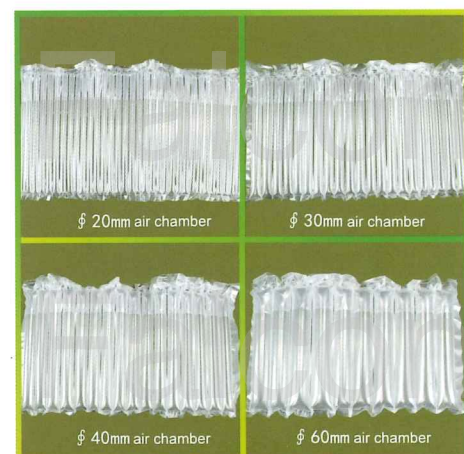
Air packaging saves **20%-50%** space, compared to traditional packing methods



Material\Character	Shock absorption capability	Resilience	Climate-resistance	Oil-resistance	water-absorbing capacity	Environmental Protection
Air packaging	95%	98%	Good	Good	0%	Yes
Corrugated cardboard	60%	20%	Bad	Bad	30%	Yes
Pulp paper	70%	30%	Bad	Bad	30%	Yes
EPS	90%	60%	Good	Bad	10%	No
EPE	95%	90%	Good	Good	8%	Yes
Froth polypropylene(EPP)	95%	85%	Good	Good	8%	Yes
Froth polyurethane (EPU)	85%	60%	Good	Bad	10%	No
Traditional PE bubble film	65%	50%	OK	Bad	20%	Yes
Sponge	80%	98%	OK	Bad	50%	No

Diameter for air column(mm)	20	30	40	60
Single layer thickness(mm)	0.06-0.1	0.06-0.1	0.06-0.1	0.06-0.1
Total width(mm)	300-1200	300-1200	300-1200	300-1200
Length of the roll(m)	150-500	150-500	150-500	150-500
Suggested packing product's weight(kg)	0.1-1.5	1.0-2.0	1.5-5.0	2.0-8.0
Maximal Inflatable Pressure (mPa)	0.08	0.08	0.08	0.08
Applied inflatable pressure (mPa)	0.06-0.08	0.06-0.08	0.06-0.08	0.06-0.08
Low temperature resistance (°C)	-35	-35	-35	-35
High temperature resistance (°C)	+65	+65	+65	+65

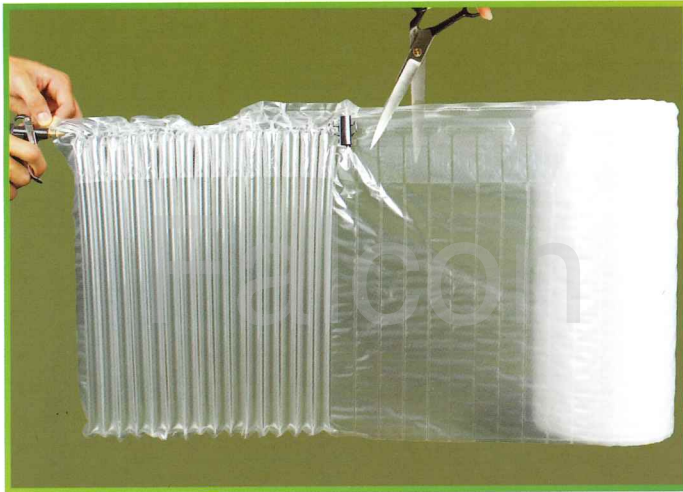
Note: Inflatable air pressure 0.06mpa, Kilo-gram force 0.5kg, less than 8% air leaking within 6 months.



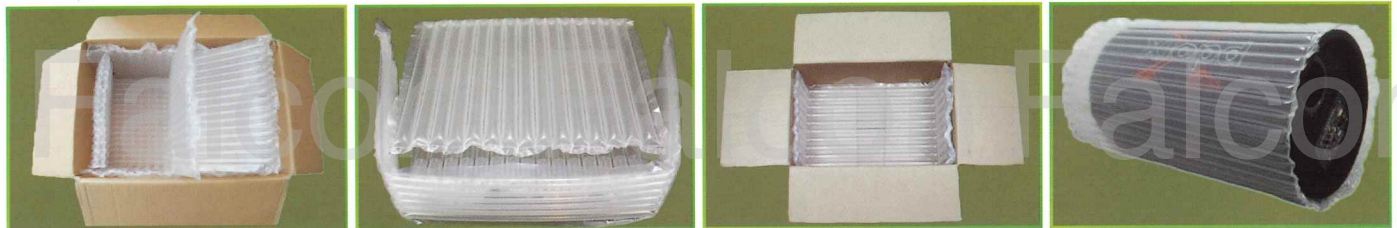


## Inflation as you wish

- ① Low cost, no tooling cost, clean and fine material
- ② Good buffering in protection
- ③ Save warehouse and transportation space
- ④ Easy to handle, personalized designs

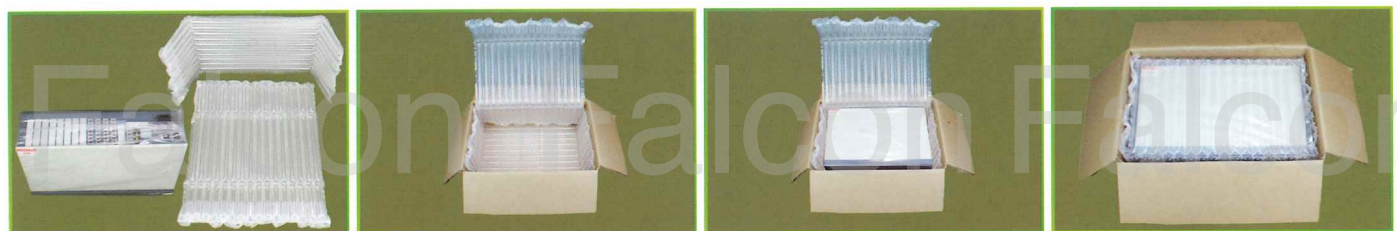


### Application



Inflatable air packaging are very common and easy to operate. You can cut as needed from the packing rolls, then inflate and pack. The width of our air packing rolls is from 300mm-1200mm, length of the standard roll is 200m/roll, diameter width of air tube is 20mm-90mm. Perforation lines can be made on the rolls if needed. Clip on the valve at the length you need, then inflate and cut as required or tear along the perforation lines.

### Packing examples





## Inflatable Air Packing Rolls

Bubble type air packing rolls are bubble shaped air packaging rolls, unlike the traditional bubble wrap that has separate bubbles, our bubble type has one connected air flow for the same line for instant inflating. They can be torn by your hands along the perforation lines and used for packaging or void filling applications.



φ 28mm

Before  
&  
after  
inflation

φ 44mm



Diameter for bubble(mm)	28	44
Single layer thickness(mm)	0.06-0.1	0.06-0.1
Total width(mm)	300-1200	300-1200
Length of the roll(m)	300	300
Suggested packing product's weight(kg)	0.1-1.5	1.0-2.0
Maximal Inflatable Pressure (mPa)	0.08	0.08
Applied inflatable pressure (mpa)	0.06-0.08	0.06-0.08
Low temperature resistance (°C)	-35	-35
High temperature resistance (°C)	+65	+65

Our bubble type air packing rolls (with valve) are made from PA. The regular diameter of the bubbles are φ 28mm and φ 44mm, customer can choose as required. customized sizes are also available if needed.



Besides the shock absorbing and protecting function, bubble type air packing rolls are cost-saving, quick in inflating, little space occupying and more flexible after inflation. They can be used not only for void filling but also for wrapping and packaging. Due to these advantages over traditional packing material, bubble type air packing rolls got a widely application in shipping and logistics.

### Wrapping and packaging



Tear down suitable length of the bubble film.

Wrap the product, you may fix by tape.

Put the well-packed product in the carton.

### Carton void filling



Put the product in the carton

Cut or tearing suitable amount of bubble film as required.

Put the bubble film in the carton for filling.



## Air bag examples



Air bag for wine bottle



Three-in-one air bag



Air bag with handle



Open Q shape



End caps with ex-sides



Corner protector



L type for camera



L type for milk powder tin



U type for PAD



Q type for HDD



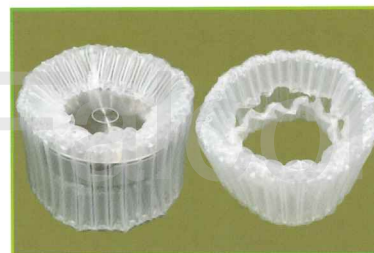
Strengthened end caps



Q type for cosmetic



Inner folding U type



Inner folding ring bag



Black Q bag for cartridge



Special design for guitar



Bag in bag for phone



Fragile goods protection



## Air bag packing examples



## Inflating procedures & tools

### Step1

Find air inlet



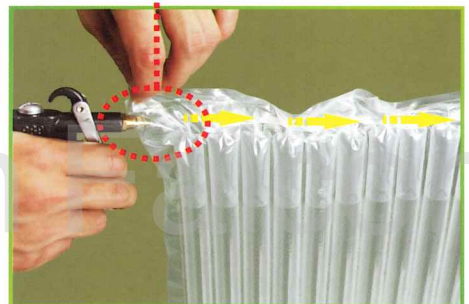
### Step2

Put the nozzle in the air inlet



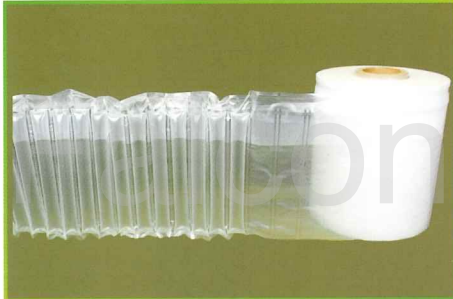
### Step3

Inflating and all air chambers inflated at one time.





Running on automatic inflating machine, air packing rolls with valve can achieve automatic inflation. You only need to tear along the perforation lines by hands after inflation when using. It's convenient and time-saving in packing. Currently, we have inflatable air packing rolls, bubble type air packing rolls and air bag design rolls.



Inflatable air packing roll

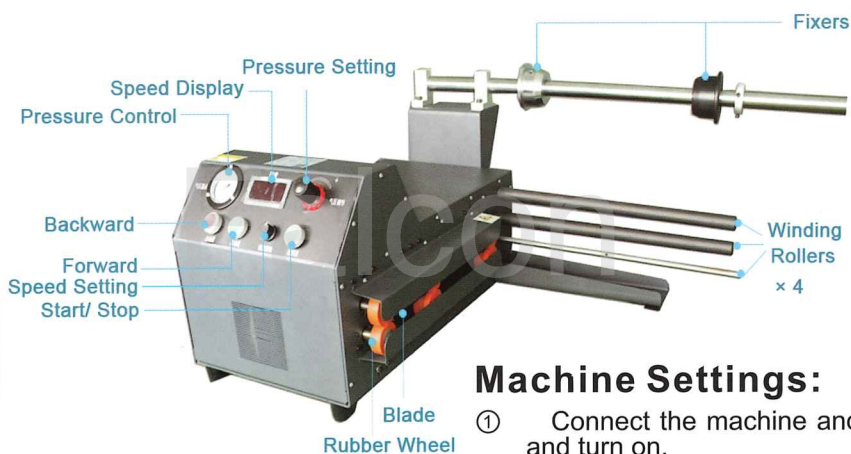


Bubble type air packing roll



Air bag design roll

## Automatic inflating machine and inflating procedures



Model: PB-100	Machine Size (L*W*H): 840*735*410 (mm)
Weight: 47kg	Rated power: 240w
Speed: 20m/min	Frequency: 50-60HZ
Air Volume: Depend on the air bag designs	Voltage: 110-220V
Power Supplier Connection Method: Y	Electric Shock Protection Class: I

### Machine Settings:

- ① Connect the machine and air compressor with an air pipe, then plug in and turn on.
- ② Put the air packing roll on the feed roller and fix it by fixers as in picture 1.
- ③ Pull out the air packing film and wind through the 4 winding rollers as in picture 2. Let the inflating pipe of the machine penetrate through the air inlet of the film.
- ④ Press FORWARD and BACKWARD to pull the film through the rubber wheels and adjust position.
- ⑤ Press START/ STOP to start inflating. The air pressure and speed and be adjusted during the process. (Picture 3)



Picture 1



Picture 2



Picture 3

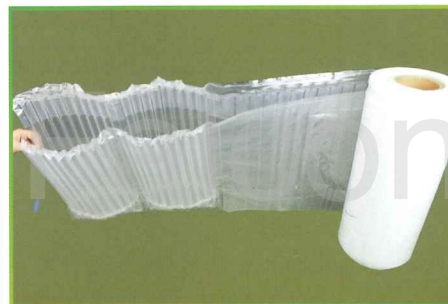
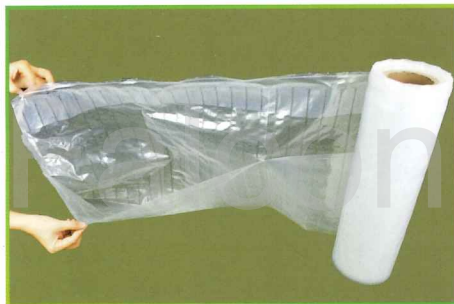
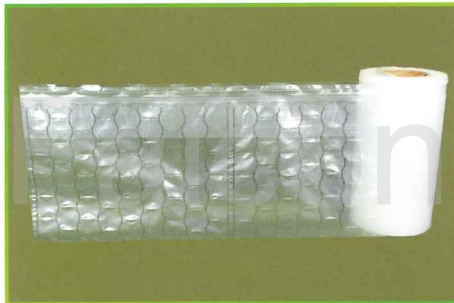


## Air bag rolls examples

Film rolls type

Before and after inflation

Running on machine

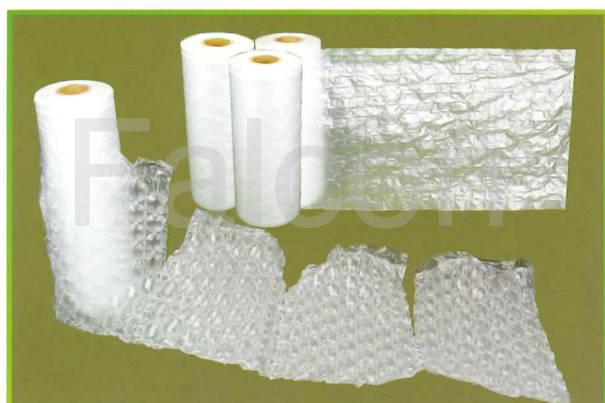




LDPE/ HDPE bubble type air packing rolls need to be used with air cushion machine together to achieve inflating and sealing at the same time. There are perforation lines on the film. To pack and fill, you can choose suitable amount and tear down by hands after inflation.



## Specifications



LDPE/ HDPE/ PA	Diameter (mm)	44
Bubble	Single layer thickness (mm)	0.020/0.025/0.030/0.035
type film roll	Width (mm)	400
(no valve)	Length of roll (m)	200/300/400/600
	Size per piece (mm)	400×286

Customer can choose different material, thickness and length of rolls according to the products you want to pack. You are also welcome to consult our sales for recommendations and advice.

## Void filling examples



Filling the gap between products and carton



Wrapping the products and cartoning



Air cushion rolls need to work with air cushion machine together. There are perforation lines between each air pillow. They can be torn down by single or multiple for use.



## Specifications



LDPE/ HDPE	Perforation width for single air pillow (mm)	100~400
Air cushion rolls (no valve)	Single layer thickness (mm)	0.020/0.025/0.030/0.035
	Width (mm)	200~300
	Length of roll (m)	200/300/400/600

Customer can choose different material, thickness and length of rolls according to the products you want to pack. You are also welcome to consult our sales for recommendations and advice

## Void filling examples



Filling gaps between various items and carton



Filling gaps between products and the carton



## Advantages

- ① Fast inflating. The air cushion machine can inflate 18m air cushion per minute.
- ② Full-automatic inflating. It can save cost in workload.
- ③ With intelligent operation interface, temperature, volume and speed can be adjusted as required.
- ④ High quality inflating. The air bags are tight with perfect sealing edges and can reach 90% air saturation, no wrinkles will occur.
- ⑤ The machine is small and portable. Basically it can work in any environment.
- ⑥ It is compatible with different thickness, shape, sizes of film rolls, and can inflate both air cushion rolls and bubble wrapping rolls.
- ⑦ Super stable performance. It is stable and quiet while inflating, little noise will be caused.
- ⑧ Equipped with safety protection, the machine has long life span and will automatically shut down in case of current overload.



### Machine Settings:

- ① Plug in and turn on.
- ② Put the air packaging film roll on the feed roller.
- ③ Pull out the film roll and wind through the long and medium rollers.
- ④ Place the film air inlet into the inflating tube of the machine, lift up one end of the heat block slightly and then pull the film to the rubber wheel.
- ⑤ Adjust the relevant inflatable parameters, press the START button to automate the inflating.

Model: PB-020	Machine size (length×width×height): 430×410×230 (mm)
Weight: 10.4kg	Rated Power: 300w
Speed: 18m/min	Frequency: 50HZ
Air Volume: 330L	Voltage: 110-220V
Sealing Temperature: 150°C	Electric Shock Protection Class: I
Power Supplier Connection Method: Y	



Automatic inflating for bubble type air packing roll



Automatic inflating for air cushion roll



## Advantages for air cushion

- ① Low cost, cheaper than paper;
- ② Automatic air lock valve;
- ③ Good performance in pressure resistance. They can bear 60-200kg static pressure to protect products from deformation;
- ④ They are easy to operate. With high efficiency, it can save workload and improve production;
- ⑤ Occupies very little space before inflation, it can save cost in warehousing and transportation;
- ⑥ Clean and environmental friendly, they are popular among customers.



LDPE/HDPE/PA Air cushion

## Application



### More services:

1. Different material can be provided as per requirements;
2. Air cushion with different pressure resistant ability can be provided as per requirements;
3. Customized sizes and design available;
4. Apply to most inflating tools, such as hand pumps and air compressors.

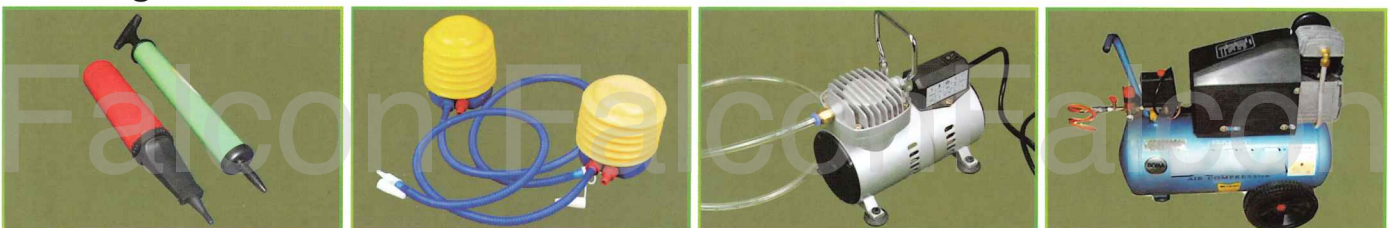
### Filling after inflation



### Filling before inflation



### Inflating tools







**Container Pillow** can effectively prevent the movement of goods in truck, container or rail transport. It is fully filled in the gap between the goods, absorbs the pressure caused by shaking during the transit therefore protects goods from damage. It is better than any other supporting or filling material, and way more environmentally friendly than traditional foam filling material.

**Container pillow** use one-way non-return valve. They can be inflated and deflated rapidly and lock the air tight and firm.

**Container pillow** are simple and quick to use, which greatly saves the packing time and effectively reduces transportation costs. They have been adopted by more and more industries.

## Pressure bearing capacity test report

Besides regular self tests, our products are also tested by authoritative organizations. Please be assured of our quality.



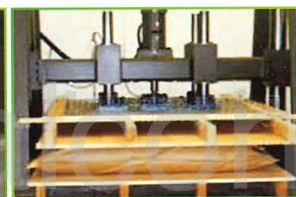
Kraft paper+ PP woven+Nylon



PP woven+Nylon



Nylon



## Standard sizes

	Size(mm) (width×length)	Maximum Width after Inflation (mm)	Maximum Height after inflation (mm)
CP0510	500×1000	250	900
CP0812	800×1200	400	1100
CP1018	1000×1800	500	1700
CP1020	1000×2000	500	1900
CP1022	1000×2200	500	2100
CP1224	1200×2400	600	2300

As a supplier for air packaging products and solutions, we will continue to focus on the improvements of our products, solve more packaging problems and apply air packaging to wider market and industries. Besides self-designed container pillow valves, we also have the ability to develop and produce different container pillows according to customers' requirements.



Valve A



Valve B



Valve C



Valve E



Soft valve

Container gap filling procedures



Put the container pillow into the gap



Inflating



Cover the lid



Valve A  
&  
inflating  
tool



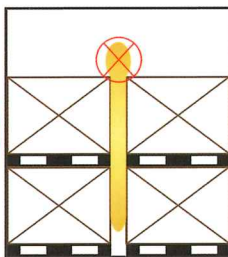
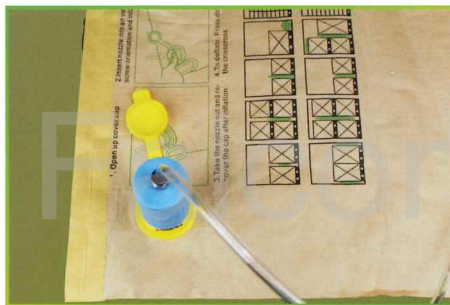
Valve B  
&  
inflating  
tool



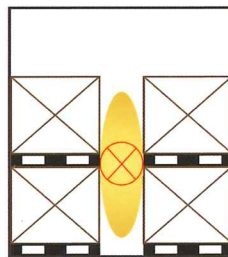
Valve C  
&  
inflating  
tool



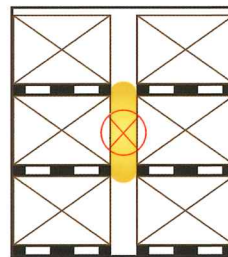
Valve E  
&  
inflating  
tool



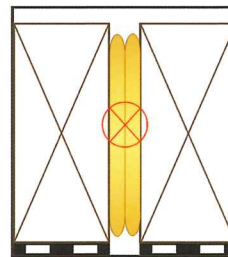
Too long



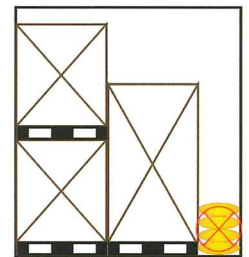
Overinflated



Too short



Do not overlap



Place vertically only

