



Your challenges, our mission

Cushion plate mounting tapes for flexo printing

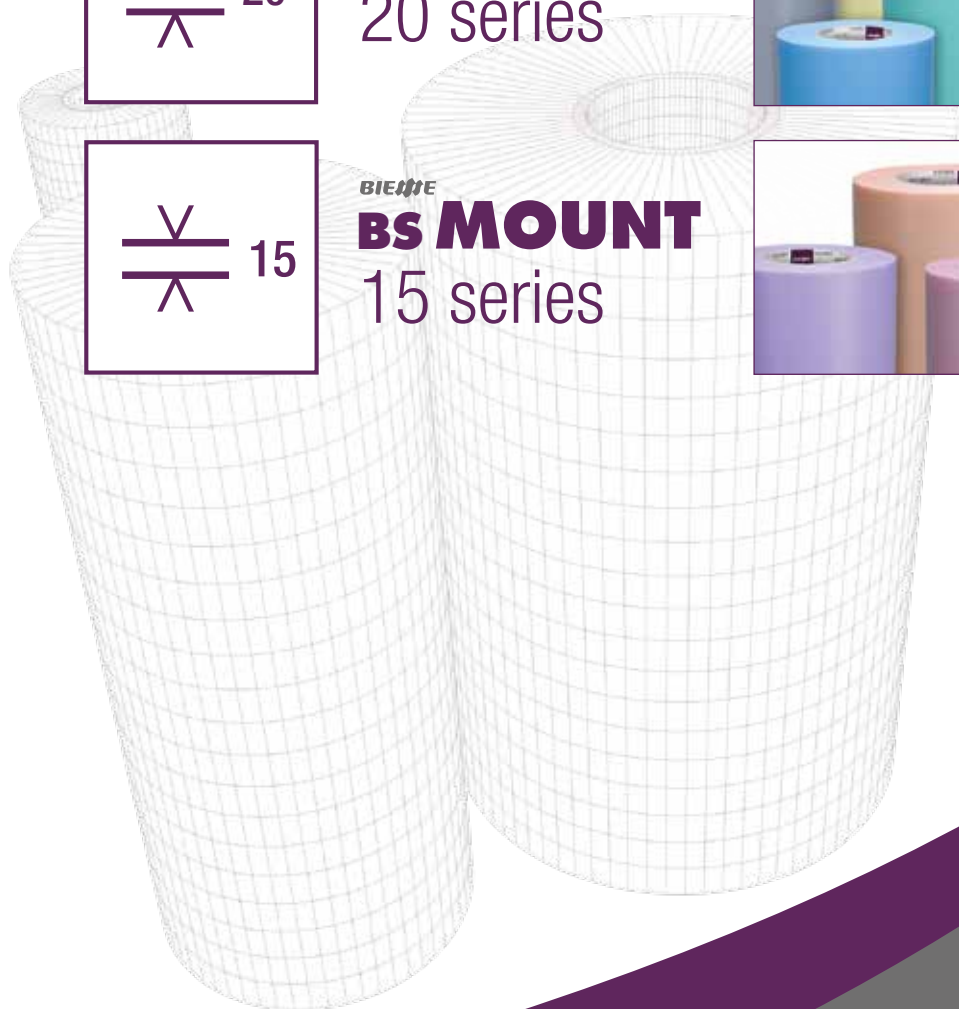
SAMPLE BOOK



BIESS
BS MOUNT
20 series



BIESS
BS MOUNT
15 series





BS MOUNT

The BiesSse® range of cushion adhesive tapes has been developed to meet the demands of high quality flexo printing.

The products are characterised by a foam carriers of different compressibilities and thicknesses, combined with different adhesive types and liners.

The innovative formulation of the highly resilient BiesSse® foam ensures maximum printing quality, even with the most technically advanced and complex designs.

The BiesSse® BS MOUNT range is used in flexo printing of labels, flexible packaging, and cardboard (pre-print).

It consists of 8 adhesive combinations, 2 thicknesses range and 10 compressibilities, identified by specific colours to guide the user in choosing the most suitable product.

PRODUCT ADVANTAGES:

- High resilience foam
- High adhesion and clean removal
- High performance embossed liner
- Excellent printing results at very high speed and long print runs



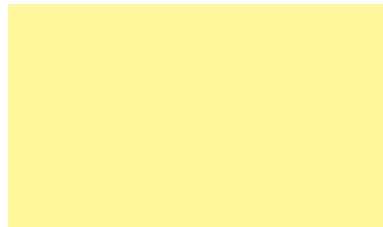
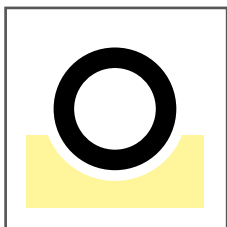
BS MOUNT Cushion adhesive tapes



Product thickness 0.55 mm (22 mils)
Application thickness **0.50 mm (20 mils)**

AVAILABLE IN 6
COMPRESSIBILITY
GRADES

20.100

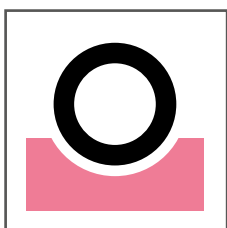


HIGH COMPRESSIBILITY

- Screens, shades, lines and fine types
- Yellow foam

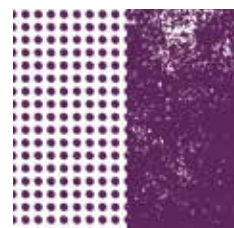


20.150

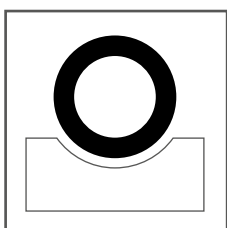


MEDIUM-HIGH COMPRESSIBILITY

- Combination print with prevailing screens, shades, lines and fine types
- Red foam

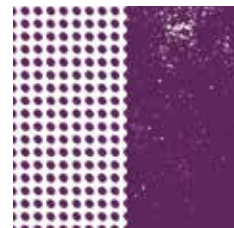


20.200

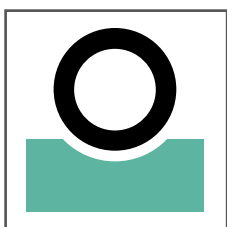


MEDIUM COMPRESSIBILITY

- Combination print with balance among screens, lines and solids
- White foam



20.250

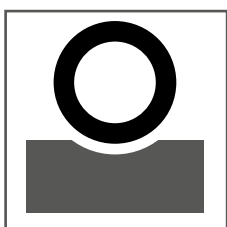


MEDIUM-LOW COMPRESSIBILITY

- Combination print with prevailing solids and lines
- Green foam

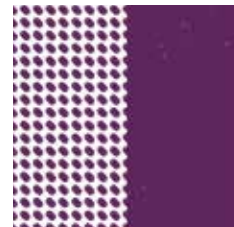


20.275

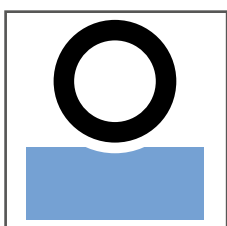


LOW COMPRESSIBILITY

- Full solids print
- Grey foam

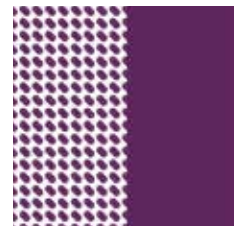


20.300



VERY LOW COMPRESSIBILITY

- Full solids print, more intense colours
- Blue foam

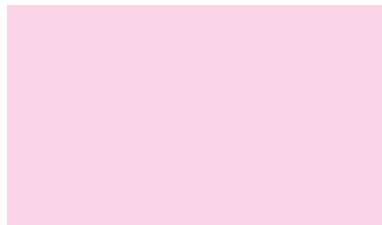
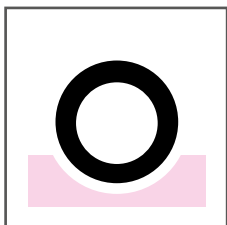




Product thickness 0.41 mm (16 mils)
Application thickness **0.38 mm (15 mils)**

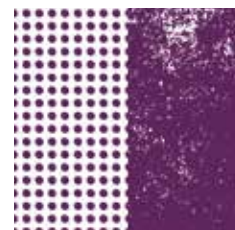
**AVAILABLE IN 4
COMPRESSIBILITY
GRADES**

15.150

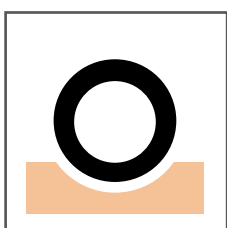


**MEDIUM-HIGH
COMPRESSIBILITY**

- Combination print with prevailing screens, shades, lines and fine types
- Pink foam



15.200

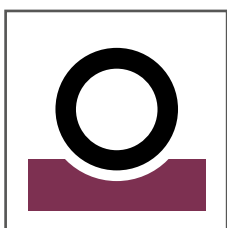


**MEDIUM
COMPRESSIBILITY**

- Combination print with balance among screens, lines and solids
- Orange foam



15.250

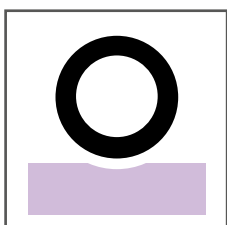


**MEDIUM-LOW
COMPRESSIBILITY**

- Combination print with prevailing solids and lines
- Purple violet foam

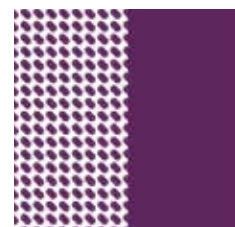


15.300



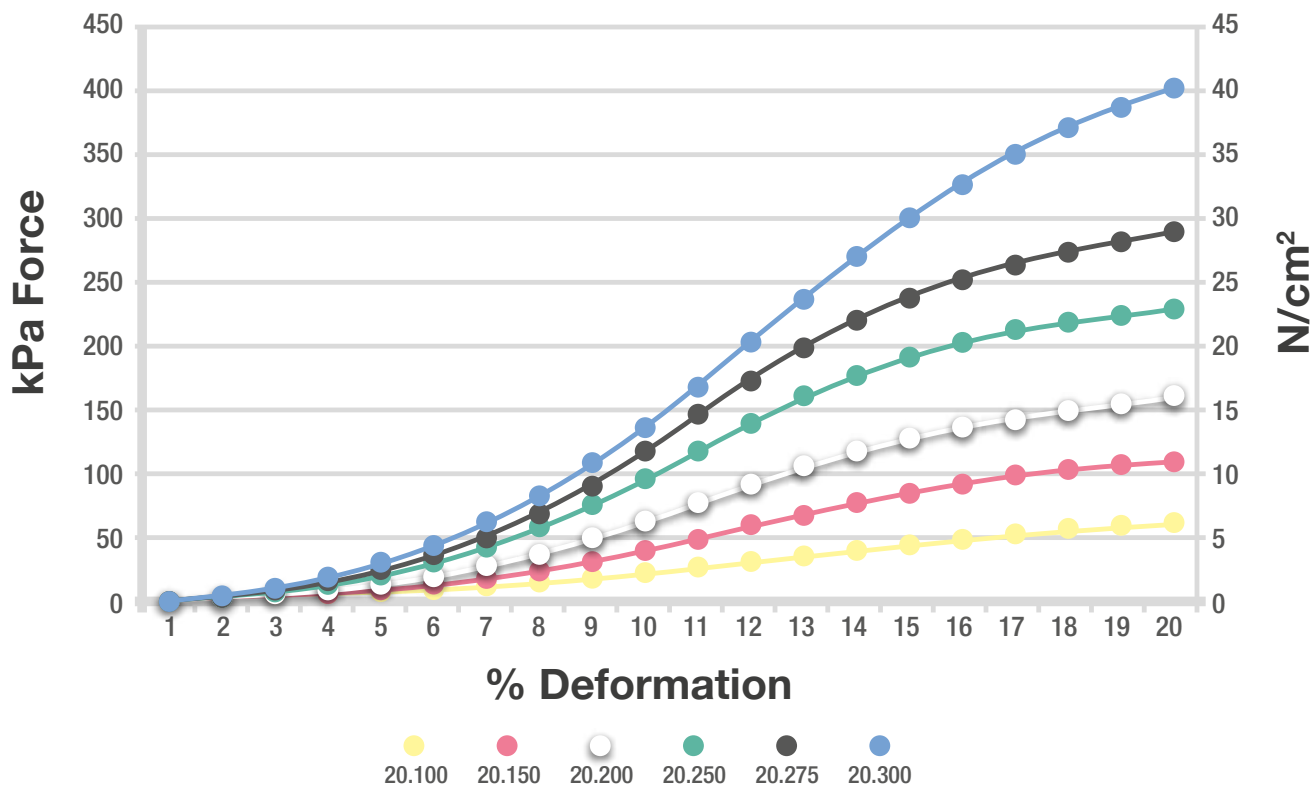
**VERY LOW
COMPRESSIBILITY**

- Full solids print, more intense colours
- Lilac foam

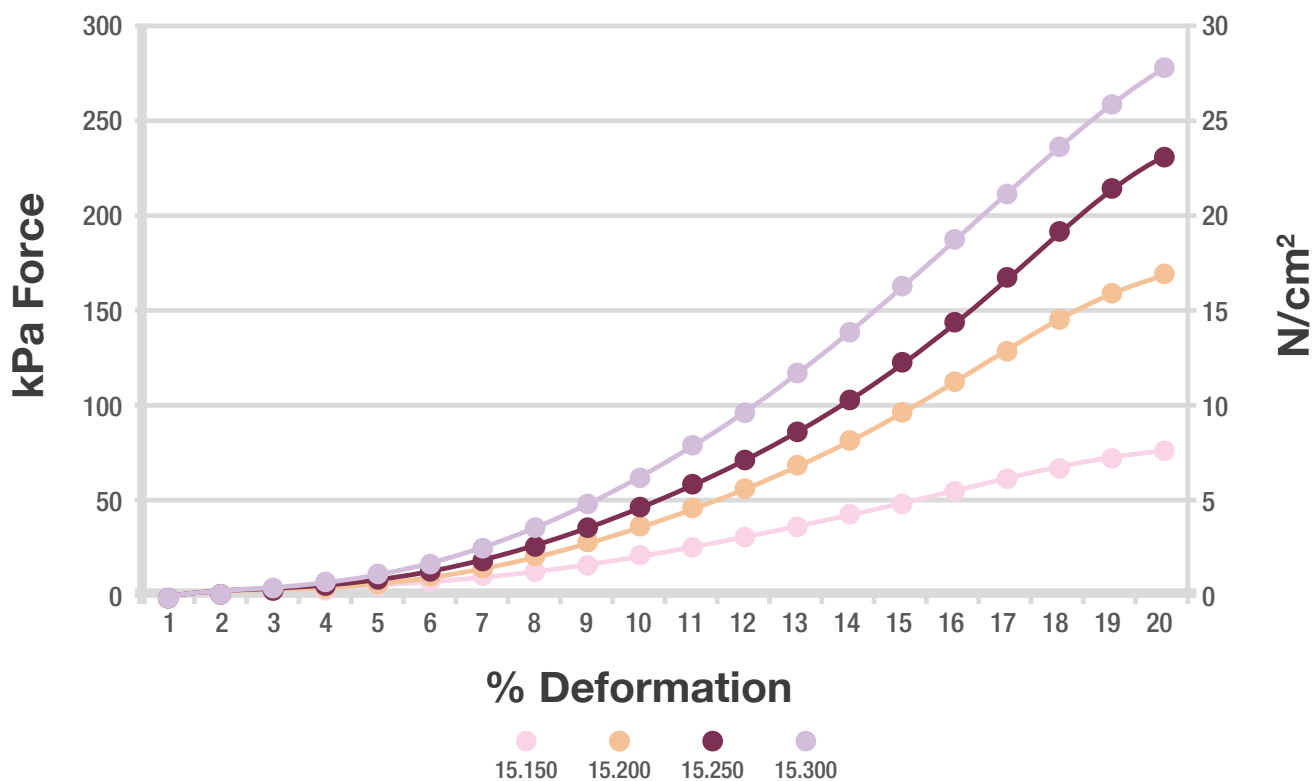


BS MOUNT Technical features

Compression test • 0.50 mm (20 mils)



Compression test • 0.38 mm (15 mils)



Available ranges

Product	PLATINUM	TITANIUM	US	TPS-LT	TITANIUM OPP	NW-CN	TT	TPS
BS MOUNT 15.150								
BS MOUNT 15.200								
BS MOUNT 15.250								
BS MOUNT 15.300								
BS MOUNT 20.100								
BS MOUNT 20.150								
BS MOUNT 20.200								
BS MOUNT 20.250								
BS MOUNT 20.275								
BS MOUNT 20.300								

Carrier colour
 Transparent Liner
 Products available upon request

The TPS range is available in the following thicknesses:

- 20 series: product thickness 0.59 mm (23 mils) - application thickness 0.54 mm (21 mils)
- 15 series: product thickness 0.46 mm (18 mils) - application thickness 0.43 mm (17 mils)

Available carriers

Tipo	PLATINUM	TITANIUM	US	TPS-LT	TITANIUM OPP	NW-CN	TT	TPS
Reinforced PE foam	●	●	●	●	●	●	●	●

Available liners

Tipo	PLATINUM	TITANIUM	US	TPS-LT	TITANIUM OPP	NW-CN	TT	TPS
Pattern embossed PP film	●	●	●	●				●
Orange peel embossed PP film					●	●	●	

Adhesion performance

Side	PLATINUM	TITANIUM	US	TPS-LT	TITANIUM OPP	NW-CN	TT	TPS
Closed side (plate side)								
Open side (sleeve side)								

Adhesion shown refers to the general performance of the product during application and not to Peel Adhesion values

Natural rubber adhesive
 Acrylic adhesive

Application recommendations

Product	Plate thickness			Application			Plate support		
	Low	Medium	High	Wide Web	Narrow Web	Pre-print	Steel cylinder	Aluminium cylinder	Rigid sleeve
BS MOUNT PLATINUM	●			●	●	●	●	●	●
BS MOUNT TITANIUM	●	●		●		●	●	●	●
BS MOUNT US		●	●	●	●	●	●	●	●
BS MOUNT TPS-LT	●	●		●		●	●	●	●
BS MOUNT TITANIUM OPP		●	●	●		●	●	●	●
BS MOUNT NW-CN	●	●	●		●		●		●
BS MOUNT TT	●	●	●	●	●	●	●		●

● Ideal

● Suitable

PROPER CLEANING HELPS PREVENTING PLATE LIFTING

Cleaning of contact surfaces (cylinders, sleeves and plates) is a determining factor for a good mounting.

The cleaning solvent used affects the double-sided tape adhesion. It is recommended to clean the surface with a clean cloth and a weak solvent, such as isopropyl alcohol, that takes the specific characteristics of the adhesive into account without reducing the adhesion.

SOLVENT	VAPOUR PRESSURE	EVAPORATION RATE	RECOMMENDED WAITING TIME
Acetone	223 mBar	very high	15 sec
Ethyl acetate	97 mBar	high	45 sec
Alcohol	43 mBar	medium	5 min
Retardant*	5 mBar	low	30 min

*The retardant used in this example is cyclohexanone



PROPER APPLICATION PREVENTS AIR BUBBLES

It is important to apply the same pressure to the whole adhesive tape surface to eliminate air bubbles.

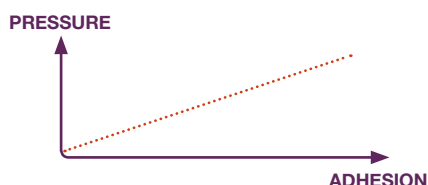
Keeping the winding direction parallel to the sleeve in the adhesive tape application avoids stresses in the material.



HIGHER PRESSURE LEADING TO STRONGER ADHESION

For a strong adhesion, pressure-sensitive tapes (PSA) need the application of higher pressure.

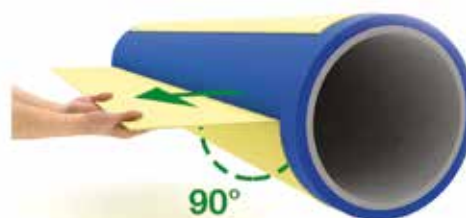
An even pressure distribution on the whole plate surface prevents plate lifting.



CORRECT DEMOUNTING PRESERVES TAPE AND SLEEVE

It is highly recommended to remove the adhesive tape on its full width with a constant speed.

Too rapid tape removal could cause adhesive residue on the sleeve and damage to the tape carrier.



Why choose BIENNE BS MOUNT



HANDLING

EASY TO HANDLE:

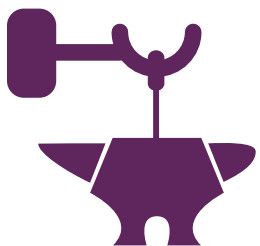
- **Different mass colour** foam for easier identification
- **High internal cohesion** and **double reinforcement** for easier removal avoiding delamination



CARRIER

EFFECTIVE CUSHIONING SYSTEM:

- Exclusive **high resilience** formula for perfect printing results at very **high speed** and **long printing runs**
- **Wide range of compressions** for more suitable selection and higher printing yield



ADHESIVE

TECHNOLOGICALLY ADVANCED ADHESIVE SYSTEM:

- **Strong adhesion** avoiding tape and plate lifting
- **Clean removal** after printing with no adhesive residues



LINER

HIGH PERFORMANCE LINER:

- **Transparent colour** for easier air-bubbles identification
- Surface structure ideal to avoid **the air bubbles problems**

Your challenges, our mission

The BiesSse group, which has been operating on the global market for **over 40 years**, specializes in the production and conversion of highly performing technical adhesive tapes.

The experience acquired during the years, the advanced proprietary know-how, combined with its on-going commitment in research and development, have enabled the BiesSse group to be **active on various markets** through two distinctive companies operating in close synergy, i.e. :

- **BiesSse Tape Solutions S.p.A.**, for the company's core business
- **BiesSse Equipment Solutions S.r.l.**, for the design and production of industrial equipment and related software.

BiesSse's mission is to develop **integrated solutions** by anticipating the more and more demanding future market requirements, and to innovate the most challenging industrial processes by supporting customers in their search for the most suitable solutions that complying with their requirements.

The company's Adhesive Tapes manufacturing unit (over 11,000 sq.mt.) and the Equipment manufacturing unit (over 2,000 sq.mt.) are equipped with **modern and advanced installations**, in line with Lean practices.

The BiesSse group, with Headquarters in Sedriano, Milan (Italy), operates worldwide through its subsidiaries in Austria, China and Mexico, availing itself of a professional and strongly committed local workforce. The **direct presence on the ground** makes it possible to quickly and efficiently respond to customers' demands and to ensure on-going assistance and support.

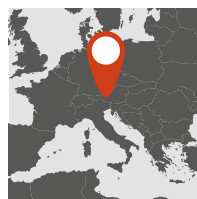
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BiesSse Equipment Solutions S.r.l.

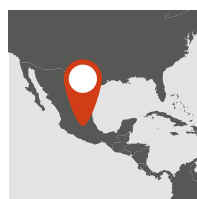
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Your challenges, our mission

Process innovation through:

Tape solutions

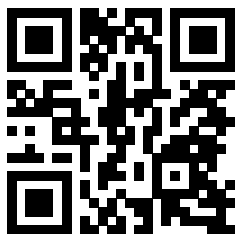
Highly performing technical adhesive tapes
for the most challenging industrial applications

Equipment solutions

Cutting-edge proprietary equipment
for adhesive tapes applications

Software solutions

Multiplatform, user-friendly software
supporting industrial automation



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