



Roll covers
for tissue industry

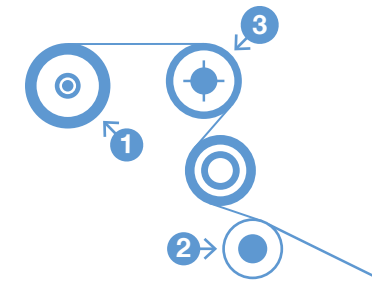
ABOUT US

Tecno Caucho Rolls & Covers is the Spanish company with the largest production capabilities for rolls and sleeves, covered with **rubber**, **polyurethane**, **composites**, **HVOF** thermal spraying and **plasma** spraying APS.

Nowadays, our eagerness to constantly improve stand out us through our **strong R&D investment**, which is why our rolls, presses and technical component offer encompasses all the industrial materials. That gives us the ability to be able to offer **high efficiency and high-quality solutions** to improve the productivity and functioning of the machinery and manufacturing processes of our customers.



FIND COVERS FOR EVERY POSITION



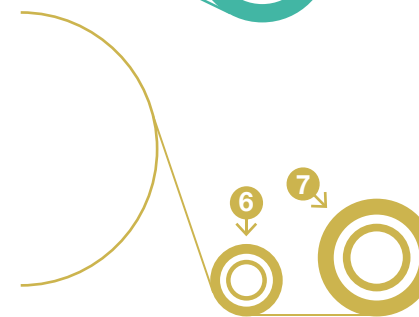
FORMING p4-5

- 1 Former roll
- 2 Guide roll
- 3 Drive roll



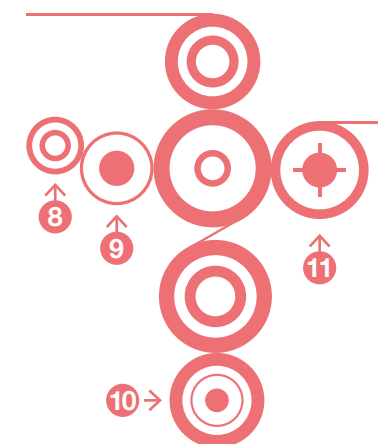
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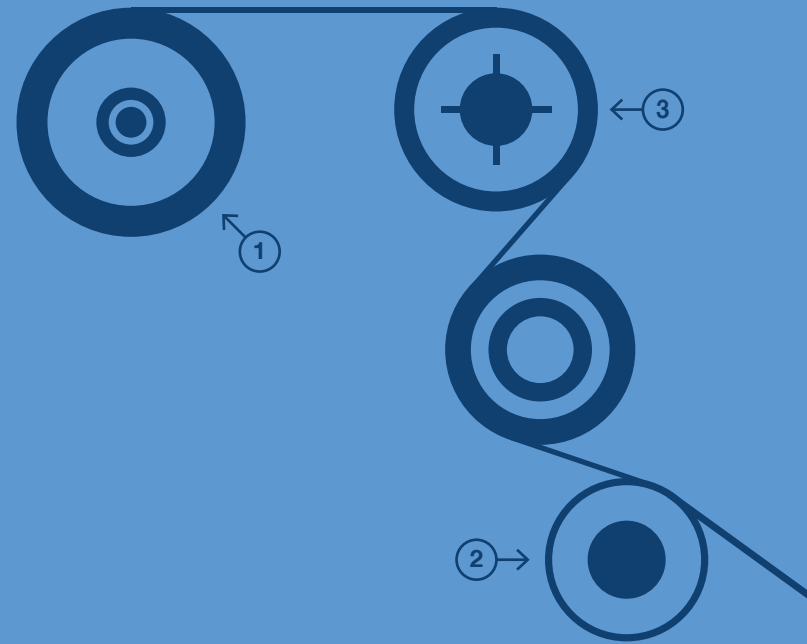
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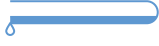
FORMING



1 Former roll





Former rolls are responsible for collecting the pulp to start the manufacturing process. They are constantly in contact with aqueous solutions, so it is important that they have the capacity to resist corrosion and its effects for a long period of time. In addition, these solutions are usually partly composed of some chemical agents that can increase the corrosive effect on the cover and must be considered if the durability of the covers wants to be maximized.






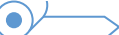



	 Cover Type	 Color	 Hardness Range	 Cover Thickness
BLACKXTREME	Rubber	Black	88 ShD	5 - 15 mm
NANOROCK	Composite	Blue	90 ShD	10 - 15 mm

Durability		Corrosion resistance	
STANDARD 100%		STANDARD 100%	
BLACKXTREME 110%		BLACKXTREME 140%	
NANOROCK 140%		NANOROCK 140%	

2 Guide roll





Guide rolls have the function of directing the paper line between the different sections of the manufacturing process. They must provide stability to the process to avoid at all costs any alteration in the direction of the paper line. Anti-corrosion properties are also important as at this point the pulp still lacks consistency as it is still soaked, so it is necessary to have qualities in the covers of these rolls that prevent the formation of stickies on the paper line, as well as dirt and other external agents.





	 Cover Type	 Color	 Hardness Range	 Cover Thickness
BLACKXTREME	Rubber	Black	88 ShD	5 - 15 mm
CERAGUIDE	Ceramic	Black	1300 HV	500 - 1000 µm

Durability		Corrosion resistance		Release/Anti-stickies	
STANDARD 100%		STANDARD 100%		STANDARD 100%	
BLACKXTREME 110%		BLACKXTREME 140%		BLACKXTREME 120%	
CERAGUIDE 200%		CERAGUIDE 170%		CERAGUIDE 140%	

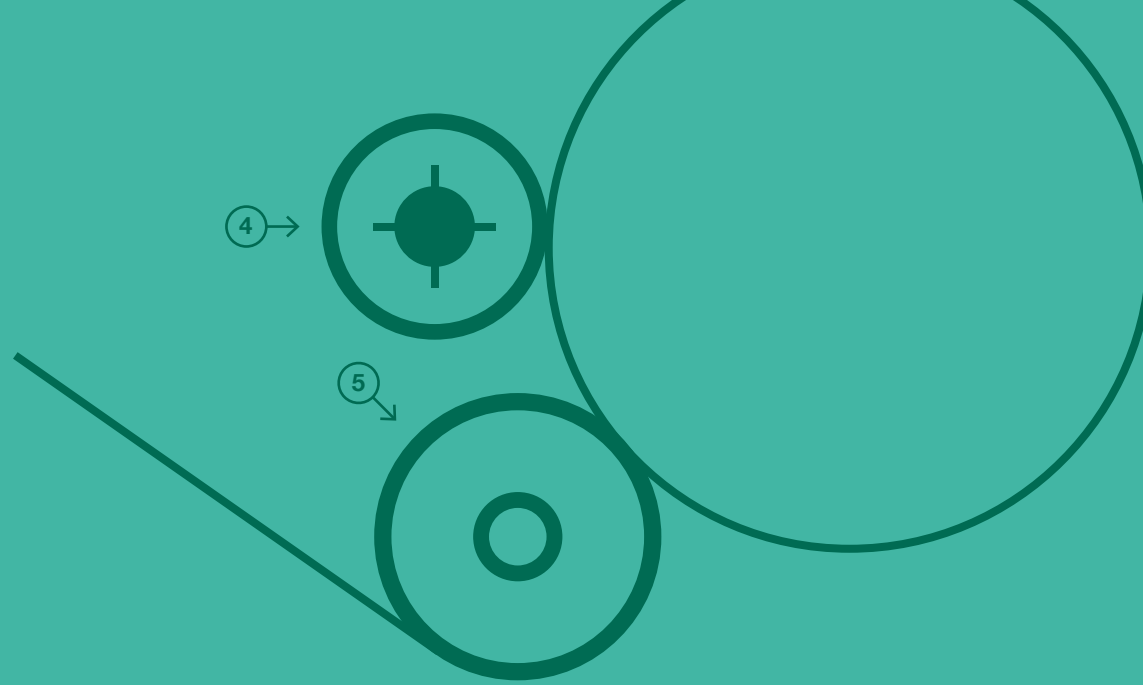
3 Drive roll

Drive rolls are those that drive the movement of the production line and set the speed of the paper line. Their most outstanding characteristic is the traction capacity that their covers must have to be able to withstand such an effort.

	 Cover Type	 Color	 Hardness Range	 Cover Thickness
DRIVEXTREME	Rubber	Black	5 - 40 P&J	15 - 25 mm





Durability		Traction Capacity	
STANDARD 100%		STANDARD 100%	
DRIVEXTREME 130%		DRIVEXTREME 150%	

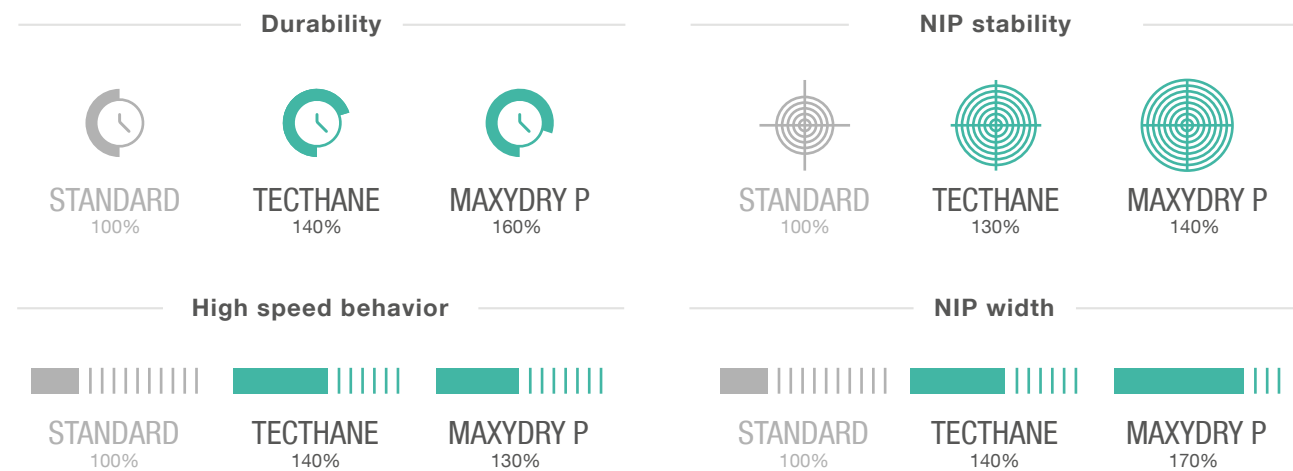
PRESS



4 Blind press





The main function of blind presses is to give the paper greater consistency by means of pressure. For this purpose, it is very important that the covers used maintain constant dimensional stability along the entire surface of the roll to press the paper uniformly along the entire paper line. Other factors such as the behavior of the cover at high speeds are also important.

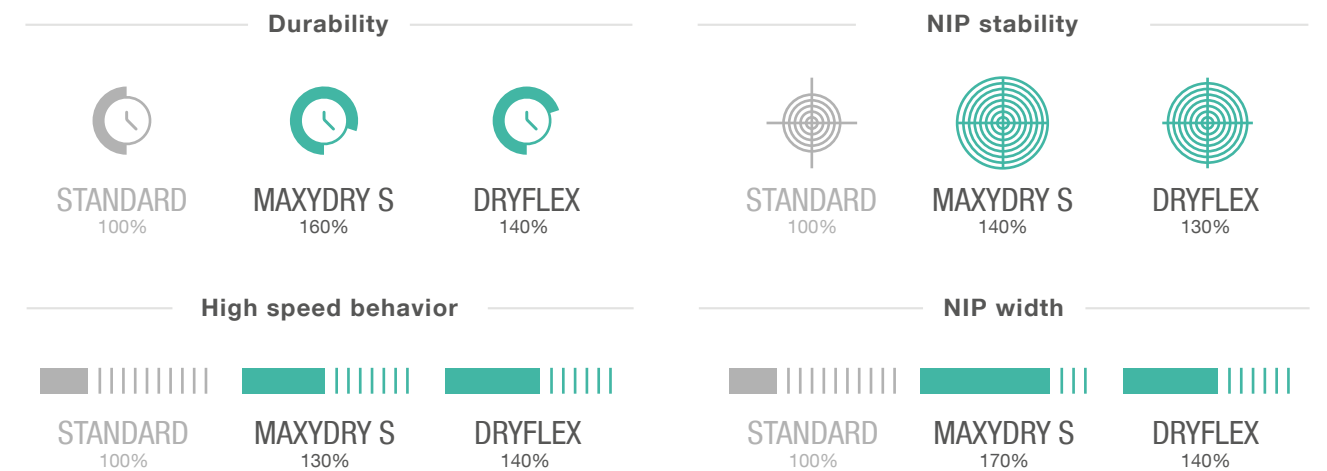
	 Cover Type	 Color	 Hardness Range	 Cover Thickness
TECTHANE * Special feature: Non cooling	Polyurethane	Yellow	10 - 25 P&J	17 - 25 mm
MAXYDRY P * Special feature: Non cooling	Special Compound	Blue	15 - 22 P&J	25 mm



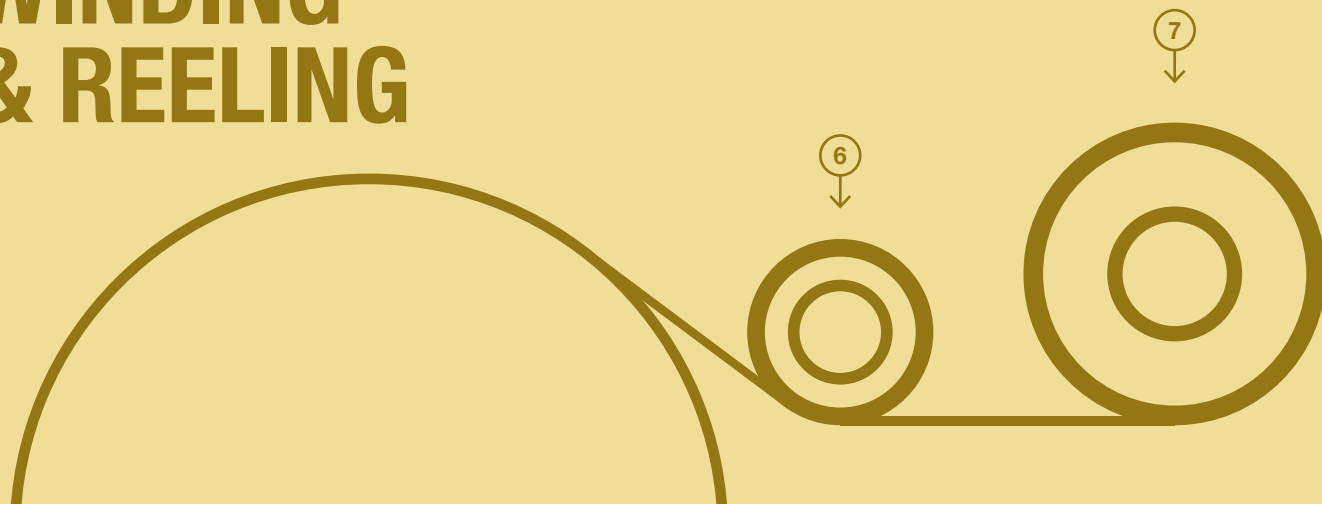
5 Suction press

Suction presses in concrete are intended to absorb water from the paper line during pressing, so their covers have a drilled or grooved finish which greatly influences their suction capacity among other factors. The dimensional stability of the roll cover is also important to suck water uniformly throughout the paper line and avoid areas with higher humidity, as well as its behavior at high speeds.

	 Cover Type	 Color	 Hardness Range	 Cover Thickness
MAXYDRY S	Special Compound	Blue	22 - 30 P&J	25 mm
DRYFLEX	Polyurethane +	Violet	20 - 35 P&J	20 - 25 mm



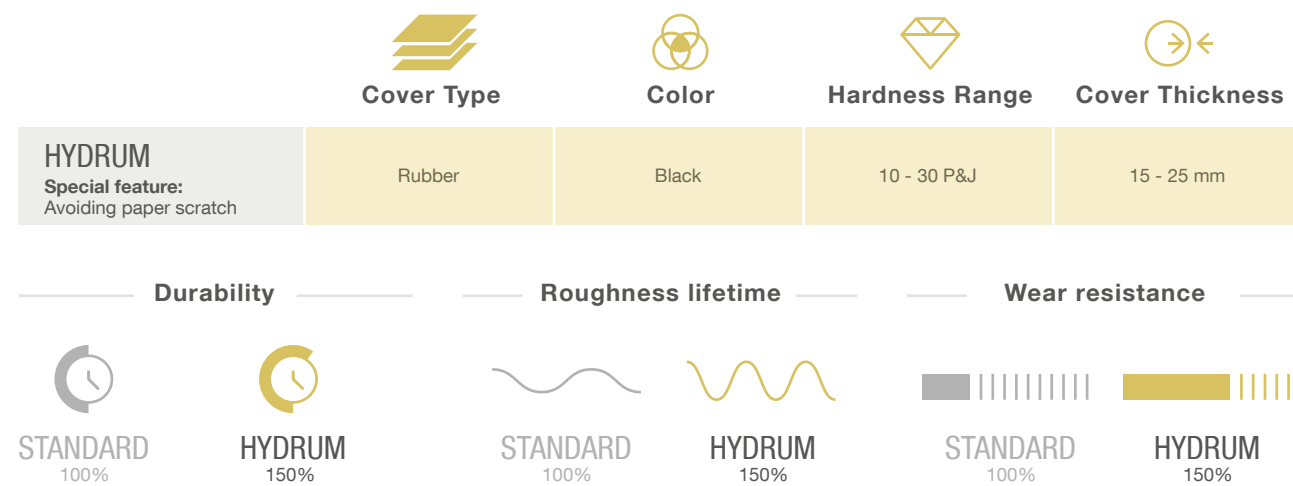
WINDING & REELING



6 Reel drum

These rolls are responsible for collecting the paper once the manufacturing process has been completed and supplying it correctly to the reel spool to form a roll of one layer of tissue. For this purpose, they must have a certain roughness in their covers that allows them to grip the paper well, avoiding possible breaks in the paper line. They must also offer good resistance to wear and tear.

6.a Tissue reel drum

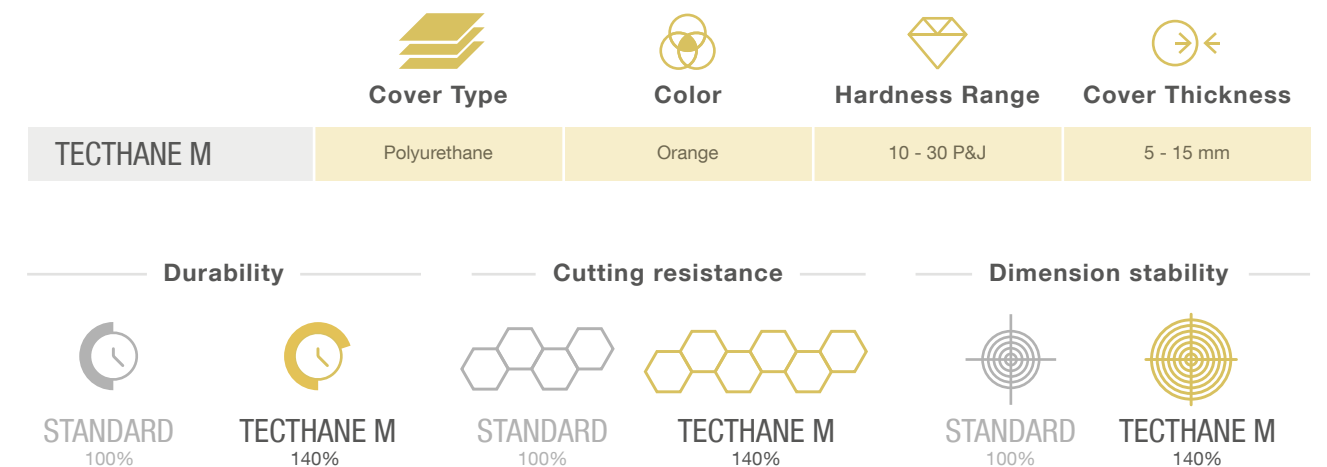


6.b Board reel drum

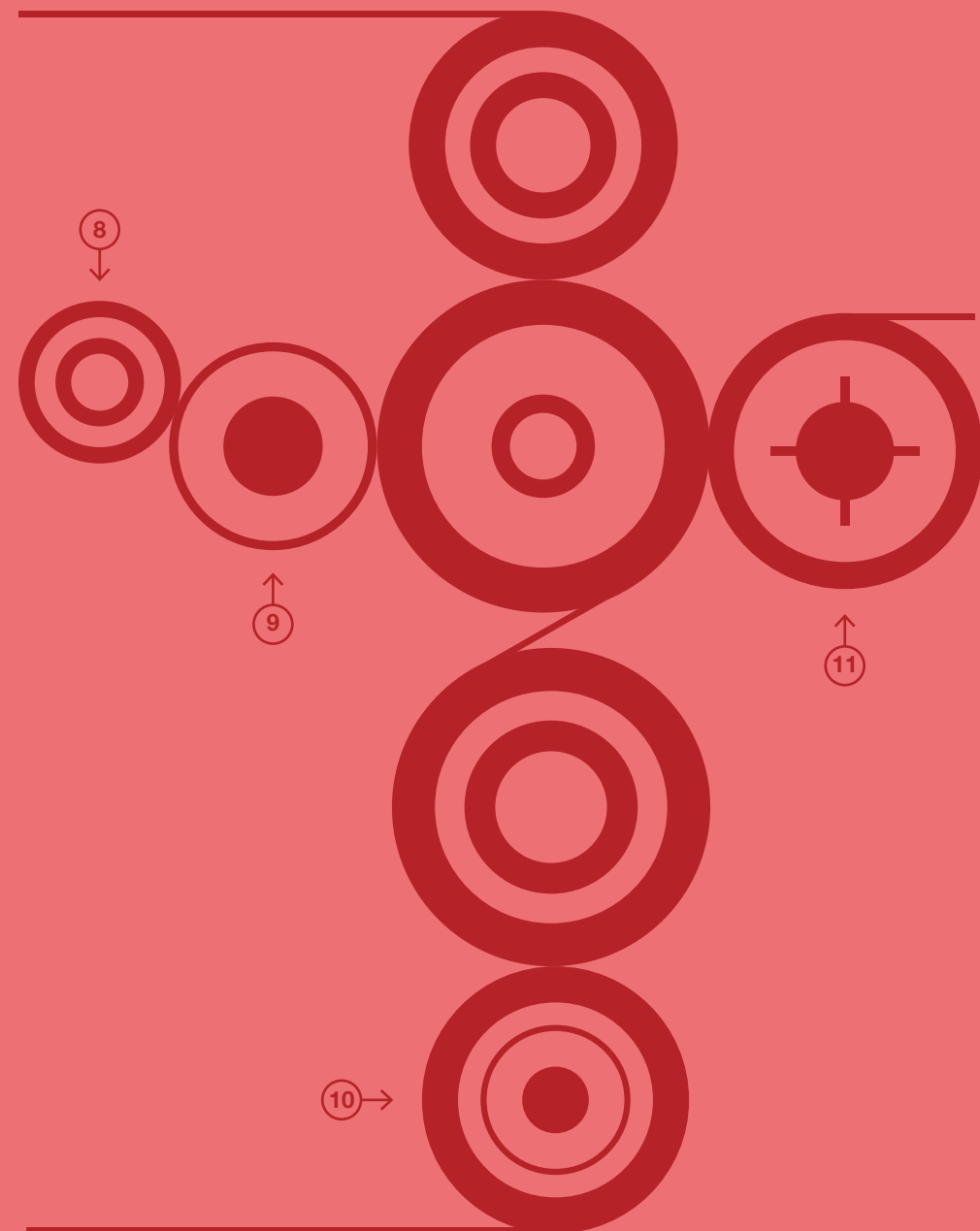


7 Reel spool

In tissue, the cover used in this position mainly serves to protect the metal reel on which the tissue paper layer will be wound once it has been manufactured. For this purpose, it must be cut-resistant and offer good dimensional stability, in addition to allowing traction.













CONVERTING







8 Anilox

Anilox rolls are used to supply the right amount of adhesive to the applicator rolls so that they can later apply it to the tissue paper layers. Their covers must be corrosion-resistant and easy to clean, as well as have good adhesive transfer properties and good volume stability.





	 Cover Type	 Color	 Hardness Range	 Cover Thickness
CERALOX	Ceramic	Metallic Green	1400 HV	200 - 1000 µm










Durability		Glue transfer		Volume stability	
 STANDARD 100%	 CERALOX 150%	 STANDARD 100%	 CERALOX 150%	 STANDARD 100%	 CERALOX 140%

Corrosion resistance		Easy cleaning	
 STANDARD 100%	 CERALOX 180%	 STANDARD 100%	 CERALOX 140%

9 Glue applicator





This roll position has the function of applying a coating of glue on the paper to subsequently increase the number of layers of the tissue roll by gluing one to the other. The covers used on these rolls must allow the roll to apply adhesive in an optimal and uniform way, so qualities such as dimensional stability or the correct transfer of the adhesive are essential.



















	 Cover Type	 Color	 Hardness Range	 Cover Thickness
ECOGLUE	Rubber +	Black	70 ShA	10 - 15 mm
MAXIGLUE	Polyurethane +	Black	70 ShA	10 - 15 mm













Durability		Dimensional stability		Adhesive transfer	
 STANDARD 100%	 ECOGLUE 120%	 STANDARD 100%	 ECOGLUE 110%	 STANDARD 100%	 ECOGLUE 110%
 MAXIGLUE 170%		 MAXIGLUE 160%		 MAXIGLUE 150%	

10 Embosser

This roll position must withstand the high loads exerted by embossing rolls when applying the stencil to the tissue by means of pressure. In addition, they must withstand the high temperatures in which the process is carried out, as well as offering good resistance to abrasion and adaptability to the different patterns that can be embossed on the tissue.





	 Cover Type	 Color	 Hardness Range	 Cover Thickness
EMBOHEAT	Special Compound	Orange	55 - 65 ShA	12 - 20 mm
EMBOFLEX	Polyurethane	Yellow	65 ShA	12 - 20 mm
MAXIFLEX	Rubber	Violet	55 ShA	12 - 20 mm
MAXIFLEX DUAL	Rubber +	Violet	55 ShA	12 - 20 mm
MAXIFLEX 6	Rubber	Violet	60 ShA	12 - 20 mm

Durability		Temperature resistance		Abrasion resistance	
STANDARD 100%		STANDARD 100%		STANDARD 100%	
EMBOHEAT 170%		EMBOHEAT 180%		EMBOHEAT 150%	
EMBOFLEX 180%		EMBOFLEX 120%		EMBOFLEX 180%	
MAXIFLEX 110%		MAXIFLEX 140%		MAXIFLEX 120%	
MAXIFLEX DUAL 170%		MAXIFLEX DUAL 140%		MAXIFLEX DUAL 150%	
MAXIFLEX 6 140%		MAXIFLEX 6 140%		MAXIFLEX 6 130%	

Pattern adaptability		High load	
STANDARD 100%		STANDARD 100%	
EMBOHEAT 140%		EMBOHEAT 180%	
EMBOFLEX 110%		EMBOFLEX 160%	
MAXIFLEX 140%		MAXIFLEX 130%	
MAXIFLEX DUAL 180%		MAXIFLEX DUAL 150%	
MAXIFLEX 6 160%		MAXIFLEX 6 140%	

11 Marriage

The function of the marring rolls is to bind the different tissue layers together to obtain a final roll of paper that maintains the thickness between the different layers of paper. To achieve this, the covers used on these rolls must offer low specific pressure and marking resistance, as well as good dimensional stability and easy cleaning to obtain quality tissue rolls.

	 Cover Type	 Color	 Hardness Range	 Cover Thickness
MARRYFLEX	Rubber +	Black	90 ShA	12 - 15 mm
MARRYTOP	Polyurethane	Red	98 ShA	12 - 15 mm
MARRYCHARGE * Special feature: Anti-static	Rubber +	Black	97 ShA	12 - 15 mm

Durability		Low specific pressure	
STANDARD 100%		STANDARD 100%	
MARRYFLEX 130%		MARRYFLEX 150%	
MARRYTOP 150%		MARRYTOP 110%	
MARRYCHARGE 130%		MARRYCHARGE 140%	

Marking resistance		Dimension stability	
STANDARD 100%		STANDARD 100%	
MARRYFLEX 120%		MARRYFLEX 120%	
MARRYTOP 150%		MARRYTOP 150%	
MARRYCHARGE 130%		MARRYCHARGE 130%	

Easy cleaning	
STANDARD 100%	
MARRYFLEX 130%	
MARRYTOP 140%	
MARRYCHARGE 140%	

WHY CHOOSE US?

At Tecno Caucho Rolls & Covers we offer a **complete and safe service** thanks to our extensive **knowledge of the sector**. We **manage the complete process** by taking care of the transport, covering, finishing and maintenance services required for each roll.

In addition, our **60 years of experience** allow us to provide **specific advice for each roll** in order to **solve problems** and avoid possible future inconveniences in the durability and rolls operation.

Thanks to this, we offer **customized solutions** for each roll that allow us to **decrease TCO**, **avoiding unexpected shutdowns** and assuring **quality and fast delivery times**.

RANGE OF SERVICES

Roll covering

- Rubber.
- Polyurethane.
- Composites.
- HVOF thermal spraying.
- Plasma thermal spraying (APS).

Surface finishing

- Turning.
- Drilling.
- Grooving.
- Super Finish.
- 3D Grinding.
- Laser Engraving.

Construction of complete rolls

Maintenance

- Roll repair.
- Recharging and adjustment of shafts.
- Non-destructive testing with magnetic particles, dye penetrant liquids, ultrasound and thermography.
- Maintenance of suction presses.
- Maintenance of Crown Control Rolls (CCR).
- Dynamic balancing.
- Vibration analysis.

Advising and optimization

- Press sections.
- Calender and multicalender.
- Troubleshooting and production efficiency.





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