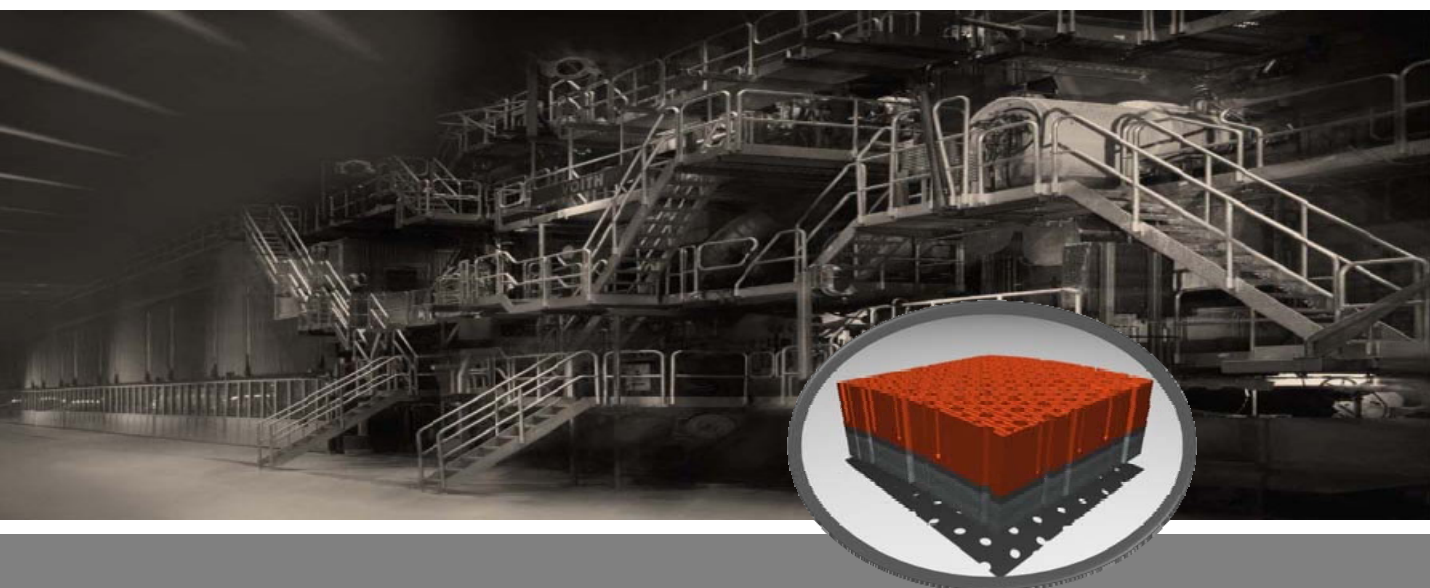
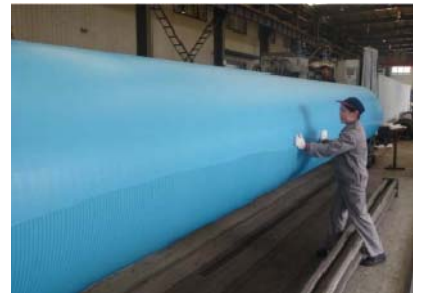


您的輥子包膠和服務專家

**The solution supplier for roll service**



昆山陸聯力華膠輥有限公司  
**RollianZ Lihua Paper Rolls Service**



## Company Profile

Founded in 2008, introduce the first class roll recovering technology from Europe, which includes the rubber, polyurethane and resin composite technology.

In 2009, successfully launched the all series of roll cover product onto the market, gradually achieved the recognition from most of big paper mills.

Imported from US the advanced HVOF thermal coating equipment and technology to provide the professional hard metal coating product for calender roll, dryer cylinder, guide roll and winder drum etc.

Based on the know how of our specialist, we can give customers the professional roll overhaul service for all kinds of roll, such as swimming roll, CC roll, spreader roll and suction rolls.



## 公司介紹



### 昆山陸聯力華膠輥有限公司

成立於2008年，中歐技術合作，引進國外最先進的輥子包膠材料技術，包括：合成橡膠，聚氨酯，樹脂複合材料。

2009年投入生產，成功推出一系列高性能輥子包膠產品，憑藉出色的產品和專業化的技術服務，逐漸獲得國內多數大型造紙企業的認可。

公司又引進了國外最先進的HVOF熱噴塗設備和技術，為客戶提供專業可靠的熱噴塗產品，應用在烘缸，導輥，硬壓光輥，複卷機等部位。

依靠專業的技術人才，不斷提高輥子維修技術能力，可以為客戶提供全方位的維修服務，包括遊泳輥，分區可控中高輥，弧形輥真空輥的專業維修。

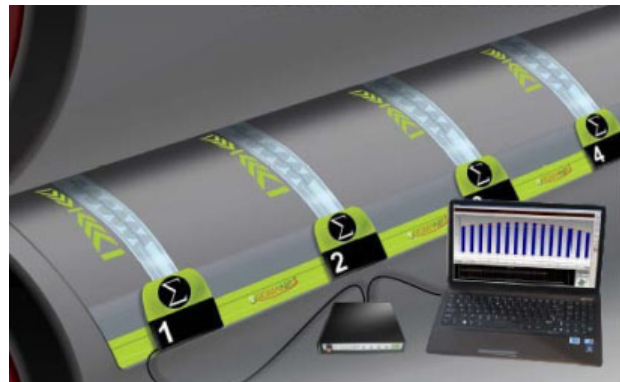


## 專業的應用技術服務

### Professional application service

電子壓區壓印測試，精確測試壓區壓力分佈情況，據此判斷輥子外形曲線，中高曲線是否異常。適用於壓榨部，施膠部，壓光部等輥子壓區測試。

Electronic Nip impression test. Accurately check out the nip pressure status in press roll, size rolls and calender rolls, which indicates a clearing understanding how to adjust the line load or crown.



專門的電腦軟體分析壓區壓印測試結果。

Particularly designed software for analysis of the nip impression testing result.

# 核心競爭力

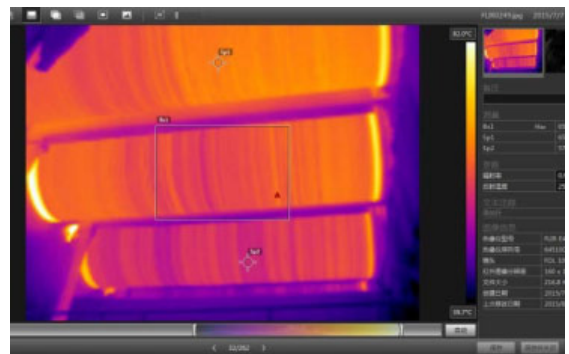
## Core Competence

秉承“用心製造，用心服務”的宗旨，不斷投入產品技術研發，不斷提高專業的技術服務能力，為客戶提供專業的輥子包膠解決方案，為您排除生產過程中遇到的困難，創造最大的效益。

Adhering to the idea of “commitment to the excellence”, we continue to invest the R&D and application technical service skill. It brings the best value added service for our clients with providing the optimization solution to the difficult issues.

壓榨部脫水平衡計算，表面開孔形式設計，幫助客戶選擇最佳的壓榨輥包膠表面設計形式，提高脫水效率。

The calculation of the press dewatering balance. Choose the best surface design of roll cover in terms of the open area.



紅外熱成像分析輥面溫度，根據溫度不同，反映輥面的壓力分佈情況，及時發現異常狀況。還可以用來分析紙幅的溫度變化，用以判斷水分情況。

Thermal imaging analysis on the roll, paper as well as the fabrics to find the moisture issues or dewatering problem.



纸机节能

辊子包胶能

Energy saving

by roll cover

RoliPress P 系列 新一代聚氨酯包膠

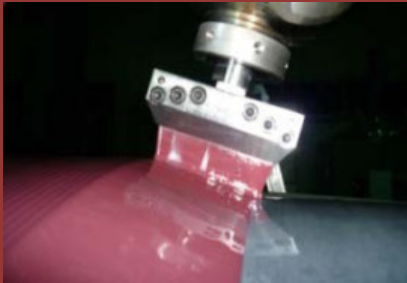
RoliPress P series new generation PU cover

品名 Name	材質 Material	硬度 Hardness	應用位置 Position	特性 Features
RoliPress P	複合聚氨酯 Polyurethane	10-20 P&J	溝紋壓榨，大輥徑壓榨， 真空壓榨 LNP press, suction press	耐磨，韌性高，表面開孔率高，提高脫水和研磨週期 Excellent wearing resistance, high toughness, for longer grinding interval. High open area for better dewatering.
RoliPress P2	複合聚氨酯 Polyurethane	5 P&J	靴壓對輥，大輥徑壓榨 ENP press, LNP press	高硬度，高強度，耐磨和抗壓縮性優，表面開孔率高，靴壓的最佳包膠選擇。 Higher hardness and toughness, enhanced wearing resistance, high open area. Best fit for shoe press.
RoliPress PT	複合聚氨酯 Polyurethane	15-30 P&J	烘缸托輥，真空托輥 Press roll to Yankee cylinder	更柔軟的聚氨酯，彈性高，抗老化好，使用於生活用紙機壓榨輥。 Softer PU cover with good elasticity and ageing resistance. Suitable for the press roll of tissue machine..



## 先進的材料技術和加工工藝

## The advanced PU manufacturing technology



國際最尖端的聚氨酯旋轉澆注包膠工藝、技術和配方，  
100%進口原材料。

The most advanced rotational casting technology  
with the 100% imported materials

### 粘接強度測試

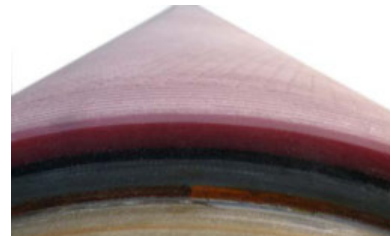
### Bonding strength test

Rolipress P 系列聚氨酯包覆層採用多層設計，樹脂複合材料基層，與輥殼的粘接異常牢固。基層和聚氨酯面層採用了GMPC粘接系統，即漸進過渡粘接層。

RoliPress P series Polyurethane cover has the multilayer design, the base layer is the resin composite. The bonding layer is a GMPC system developed from aerospace technology, which has a durable bonding strength.

每一個RoliPress P 聚氨酯包膠產品都必須通過粘接層拉力測試。如右圖所示，拉力足以拉斷強韌的聚氨酯，但無法破壞粘接層的結合！

Each of the RoliPress P cover has to go through the tensile test. See the pics, the tension is strong enough to break the PU material without pull the bonding layer apart.

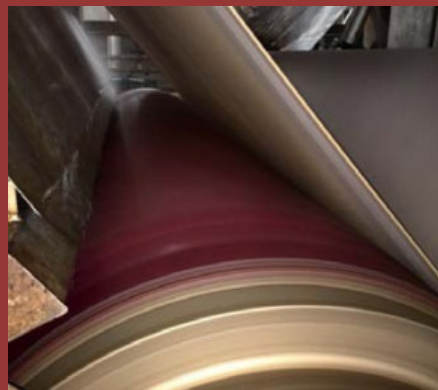


## 典型應用案例 – 聚氨酯

### Typical application – PU cover

真空壓榨輥聚氨酯包膠

Suction Press roll cover



橡膠和聚氨酯開孔率比較

#### Comparison of the surface design

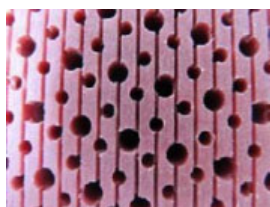


橡膠 Rubber

通孔: 4,0 mm

開孔率: 19,4 %

容積率: 730 ml/sqm



聚氨酯 PU

盲孔: 2,3 mm

溝紋: 0,7/2,5/2,0 mm

通孔: 3,7 mm

開孔率: 47,38 %

容積率: 1560 ml/sqm

聚氨酯開孔率可達到橡膠的兩倍以上，容水空間接近兩倍，大大提高壓榨輥的脫水能力，同時降低壓區內水壓，減少孔印的發生。

Thanks to the high toughness of the PU material, the open area of the roll cover surface can be enlarged to 50% two times of the rubber cover, which improves the dewatering while decreases the hydraulic pressure in the nip.

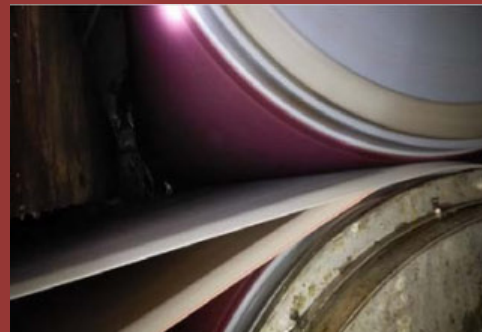


## 典型應用案例 – 聚氨酯

### Typical application

大輥徑壓榨聚氨酯包膠

Jumbo Press roll cover



橡膠和聚氨酯耐磨性比較

#### Comparison of wearing



橡膠使用6個月後



聚氨酯使用12個月後

聚氨酯開孔率可達到橡膠的兩倍以上，大大提高壓榨輥的脫水能力，同時降低壓區內水壓。

Thanks to the extreme high strength of the PU material, the open area of the roll cover is two times of the rubber cover, which improves the dewatering while decreases the hydraulic pressure in the nip.

聚氨酯的超強耐磨性，研磨週期是合成橡膠包膠的兩倍以上。

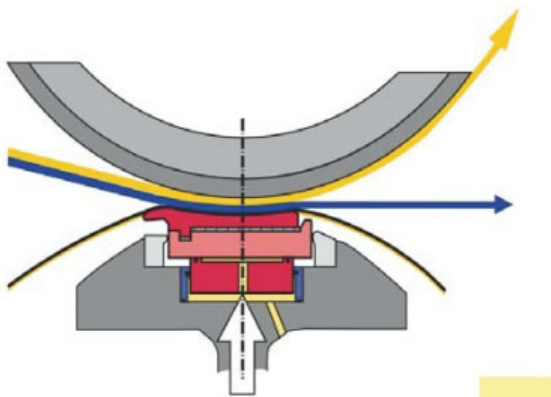
The excellence wearing resistance give the PU cover 2 times of grinding interval compared to rubber cover.

由於採用特殊的底膠粘接技術，不使用冷卻水系統的情況下可以保證安全運行，減少輥子運行負載，節省15%-20%電力。

The special bonding layer resist the high temperature . It makes the PU cover could be run without internal cooling of jumbo press roll, which saves 15-20% electricity power due to less roll weight.

## RoliPress P2 靴壓對輥聚氨酯包膠

### RoliPress P2 Shoe Press counter roll



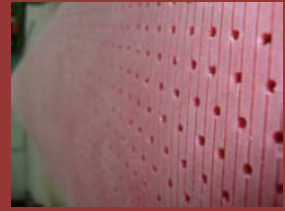
靴壓對輥的包膠形式有硬橡膠，溝紋鋼輥，複合材料，但是聚氨酯包膠是最佳搭檔。原因是其他包膠材料只能選擇溝紋或者盲孔，而聚氨酯包膠是溝紋和盲孔結合，開孔率最大，脫水效率最高，同時耐磨性和硬度都最佳。

There are several types of cover for shoe press counter roll but the best fit for shoe press roll is PU cover. Because the other cover can only have groove or blind drill but the PU cover can have both combination. This surface design allows better dewatering capacity as well as keeping good wearing resistance and hardness.

# RoliPress PT 節能利器

新一代衛生紙機洋基烘缸托輥包膠

New generation Yankee press roll cover



眾所周知，衛生紙機主要通過洋基烘缸烘乾紙頁內的水分。蒸汽用量關係到經濟效益。如何節省蒸汽，成為一個重要的課題！

The tissue machine consume a lot of steam to dry the paper by Yankee cylinder. It is the key factor for cost saving to lower the steam consumption!

您知道嗎？**Do you know?**

烘缸壓榨托輥使用新型聚氨酯包膠材料可節約蒸汽5%以上。

5% steam can be saved by using the new type PU cover on the Yankee pressure roll.

聚氨酯包膠表面開孔率高，特別是表面的溝紋，在高速紙機的脫水效率很高。

The PU cover has much higher open area, especially the groove, dramatically increase the dewatering in the high speed machine.

聚氨酯非常好的彈性，將紙頁均勻的貼合到烘缸表面，提高烘乾效率，改善橫向水分。

The superior elasticity of PU cover can have a uniform nip against the yankee cylinder, which has a good drying efficiency and CD moisture profile. 聚氨酯優異的抗老化性能，保證硬度長期穩定，膠面不會硬化，延長研磨週期。

The excellent ageing resistance ensure the stable hardness in a long period, which means longer grinding interval.

## RoliCal / NanoCal 系列

### 樹脂複合材料包膠

### Resin Composite Cover



品名 Name	材質 Material	硬度 Hardness	應用位置 Position	特性 Features
RoliCal	樹脂複合材料 Hard rubber	88-92 SHD	軟壓光輥 Soft calender roll	耐磨，耐高溫，彈性模量高 Chemical resistance, good abrasion and temperature resistance
RoliCal SC	樹脂複合材料 NBR	90-93 SHD	超級壓光輥 Super-calender roll	硬度高，耐磨和抗衝擊性優，彈性模量優 Fiber reinforcement, hard wearing and tear resistance, high smoothness
NanoCal	樹脂複合材料 Hypalon	88-92 SHD	軟壓光/超級壓光輥 Soft/Super-calender roll	納米級填料，非常耐磨，耐高壓高溫，抗衝擊和抗起棱 Enhanced wearing and impact resistance, stand high temperature, resist barring problem.
RoliCal P	複合聚氨酯 Hypalon	70-75 SHD	半幹壓光輥 Wet calender roll	聚氨酯材料，硬度較低，彈性好，溫和壓光，保持松厚度，起棱問題少 Soft cover, very good elasticity, gentle pressure, keep good bulk for paper. Less barring issue.
RoliCal MP	樹脂複合材料	90-92 SHD	捲煙紙螺紋壓榨背輥 Marking press roll	更高的硬度，產生更清晰穩定的螺紋印跡，研磨週期長 Higher hardness, better and stable marking on paper, longer grinding interval

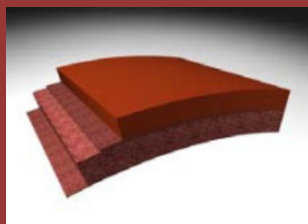
## RoliCal / NanoCal系列

### 樹脂複合材料包膠

### Resin Composite Cover

最先進的環氧樹脂合成材料技術，北美進口的凱夫拉纖維，歐洲進口樹脂材料和奈米級填料。

Most advanced resin composite technology, with aramid fibers from America, resin and fillers from Europe



引進歐洲的生產設備和一流的工藝。先進的填料混煉設備以及包膠工藝。嚴格的品質控制系統，杜絕氣孔等問題。

Introduced from Europe the advanced device and art of state, including the mixing device and winding machine. Through the strict QC, ensure the product is out of problem such as air bubble issue

針對不同紙種對軟壓光輥包膠的要求，我們設計了多款產品。適用於軟壓光，超級壓光，螺紋壓榨背輥等應用位置

Target to the different application, several type of composite product were designed for SNC , super-calender, marking press counter roll etc.



## 典型應用案例 – 複合材料包膠 Typical application – composite cover

**Nanocal** 奈米級複合材料包膠應用在軟壓光機。  
表面更細膩，耐溫性更高，耐磨性好，保持輥面的  
平整性，延長研磨週期。

**Nanocal** on soft calender with fine smooth  
surface, best wearing and temperature resistance,  
which has longer grinding interval.



軟壓光機  
soft calender

超級壓光機  
Super-calender



**RoliCal SC** 應用在超級壓光機，生產格拉辛紙，線  
壓力最高達到350KN/m，正常操作壓力300 KN/m，熱  
輥油溫200度，車速600米/分，是應用條件極端苛刻  
的環境。

抵抗振動性能好，減少超壓光輥震動引起起棱問題。  
安全運行在極端條件下長達數月。

**RoliCal SC** used on super-calender, produce glazing  
paper which has extreme high line load up to 300  
KN/m, 200 C degree hot oil roll, 600 m/min speed.

Less vibration due to very good impact resistance, Safely  
running in the extreme condition for several months.



## **RoliCal MP 捲煙紙機螺紋壓榨背輥 - 複合材料包膠**

### **RoliCal MP - composite cover for marking press counter roll**

**RoliCal MP** 是專門為捲煙紙機的螺紋壓榨背輥設計的複合材料包膠，特點是硬度高達 **92 SHD**，回彈性好，紙頁的壓紋清晰，變異係數穩定，比傳統硬橡膠的研磨週期長。

**RoliCal MP is designed for marking press counter roll of cigarette paper machine. It has higher hardness up to 91 SHD with good elasticity which gives paper clear marking and stable CD profile. While the grinding interval is much longer than hard rubber cover.**



## RoliSize/RoliCoat 系列

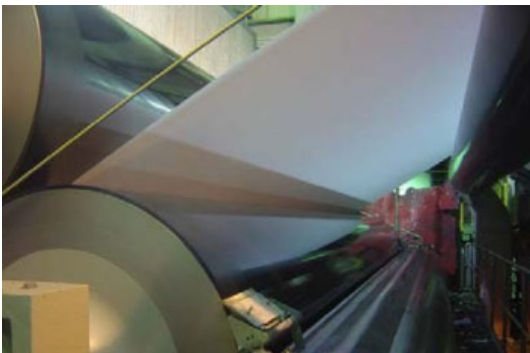
### 施膠輥包膠

### Size Press roll cover

品名 Name	材質 Material	硬度 Hardness	應用位置 Position	特性 Features
RoliSize RH	硬質橡膠 Hard rubber	0-2 P&J	池式施膠硬輥 Puddle Size hard roll	硬度高，耐磨，剝離性好 Hard, abrasion resistance, good sheet release.
RoliSize X	丁晴橡膠 HNBR	15-45P&J	薄膜施膠/池式施膠軟輥 Film /Puddle size soft roll	添加助強纖維，耐磨和抗撕裂，粗糙度適中 Fiber reinforcement, hard wearing and tear, proper roughness.
RoliSize SP	合成橡膠 NBR	10-45P&J	池式施膠/薄膜施膠軟輥 Puddle/film size soft roll	添加耐磨PE材料和助強纖維，非常耐磨，粗糙度高，耐溫好 Fiber reinforcement and PE particle mixed, enhanced wearing resistant, high roughness, stand high temperature.
RoliSize P	複合聚氨酯	5-30P&J	池式施膠/薄膜施膠軟輥 Puddle/film size soft roll	複合材料基層，粘接強度高，非常耐磨，彈性好。 Composite base layer, extreme wearable, very good elasticity.

## 典型應用案例 – 施膠輥

### Typical application – Size Press Roll



**RoliSize X** 適用於高速薄膜施膠機，因為橡膠裡加入了特殊處理的纖維，增加了耐磨性和抗撕裂性，輥面粗糙度適中 RA 1.0um 左右，既不會太光滑導致膠液分佈不均，也不會太粗糙影響紙頁的表面光滑度。

**RoliSize X** suitable for high speed film size press. Enhanced wearing and tear resistance as the special fiber mixed in the rubber. It keep a proper roughness RA 1.0um , which could maintain the good distribution of sizing agent as well as good smoothness of paper surface.

**RoliSize SP** 適合池式施膠的材料，橡膠裡面添加了纖維和PE耐磨材料，使得這種合成橡膠擁有超強的耐磨性和機械強度，適用於磨損性很強的包裝紙施膠機。比普通的橡膠包膠使用週期更長。並且其表面粗糙度高，上膠量大，剝離性好。

**RoliSize SP** designed for puddle size press. It contains high mount of fiber and PE filler in the rubber. Excellent wearing resistance and mechanical strength. Suitable for the size press of package paper. Much longer grinding interval than normal rubber. Due to the high roughness RA 2.0um it has better sheet release property.

## RoliSize/RoliCoat 系列

### 塗布背輥包膠

### Coater backing roll



品名 Name	材質 Material	硬度 Hardness	應用位置 Position	特性 Features
RoliCoat	合成橡膠 Hard rubber	30-50 P&J	塗布上料輥 Coater applicator roll	耐腐蝕，耐磨，耐高溫 Chemical resistance, good abrasion and temperature resistance
RoliCoat X	丁晴橡膠 NBR	50-90 P&J	塗布背輥 Coater backing roll	添加助強纖維，耐磨和抗撕裂，平滑度好 Fiber reinforcement, hard wearing and tear resistance, high smoothness
RoliSize HP	海珀龍橡膠 Hypalon	50-90 P&J	塗布背輥 Coater backing roll	非常耐磨，強度高，抗衝擊，耐溫性優 Enhanced wearing and impact resistance, stand high temperature.
RoliFly	海珀龍橡膠 Hypalon	90-150 P&J	塗布飛接輥 Flying roll	特別軟的橡膠，抗幹磨，彈性好 Very soft, resist dry friction, very good elasticity.

## 典型應用案例 – 塗布背輥

### Typical application – coater backing roll



**RoliCoat HP** 海珀龍橡膠，採用特殊的包膠工藝，膠面不會產生纏繞紋，整個輥面的均勻性非常一致。由於海珀龍橡膠比丁晴橡膠更加耐磨，機械強度更高，因此是塗布背輥的最佳材質。

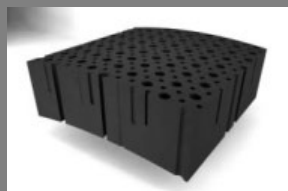
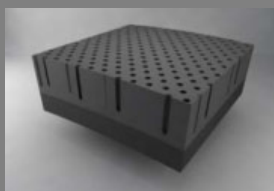
**RoliSize HP** is Hypalon rubber produced with special art of state. It has eliminated the winding line due from extruding machine. Thanks to the higher wearing resistance and mechanical strength of Hypalon, it is the best fit for coater backing roll cover.

**RoliCoat X** 丁晴橡膠裡加入了特殊處理的纖維，增加了耐磨性和抗撕裂性，適用於高速塗布機，表面光滑度高，彈性好，不容易產生印痕。

**RoliSize X** is suitable for high speed coater machine. It has enhanced wearing and tear resistance due to the special fiber mixed in the rubber. Good smoothness and elasticity as well as marking resistance.

## RoliPress R 系列 – 壓榨輥橡膠包膠

## RoliPress R series – Rubber cover Press roll



品名 Name	材質 Material	硬度 Hardness	應用位置 Position	特性 Features
RoliPress RS	丁晴橡膠 NBR	15-40 P&J	盲孔壓榨，大輥 徑壓榨，真空壓榨 BD press, LNP press, suction press roll	多層設計，優良的粘接技術，運行安全性高，耐磨性好，可承受高線壓 300KN/m Multi-layer design with excellent bonding tech. good wearing resistance. Safe under high line load up to 300KN/m.
RoliPress RT	氫化丁晴橡膠 HNBR	15-50P&J	烘缸托輥，大輥 徑壓榨 ENP press, LNP press roll	耐磨和耐溫性極高120℃，適用於高溫高壓的苛刻條件，抗老化性能優異。 Superior wearing resistance, standing high temperature up to 120℃ , good anti-ageing
RoliPress RH	合成橡膠 Synthetic rubber	0-3 P&J	中心壓榨輥，光 壓石輥 Center press, smooth press roll	硬質橡膠，替代石輥，混煉特別的礦物填料，達到良好的剝離性和刮刀適應性。 Bone hard rubber cover mixed with selected filler. Good sheet release and doctoring.
RoliPress RR	合成橡膠 Synthetic rubber		光壓軟輥 Smooth press roll	添加特殊填料，保證耐磨性的同時，還提高了紙頁剝離性，可使用HDPE刮刀。 Special filler mixed, giving the good sheet release while maintain the good wearing resistance. Suitable to HDPE doctor blade.
RoliPress RG	合成橡膠 Synthetic rubber	0-8 P&J	溝紋壓榨輥 Groove press roll	硬質橡膠，添加了特殊填料和纖維保證耐磨性，同時保證溝紋穩定性。 Hard rubber with special filler and fiber. Keep wearable and stable groove.



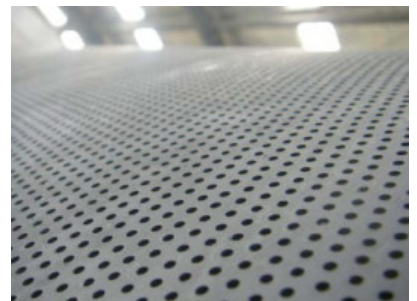
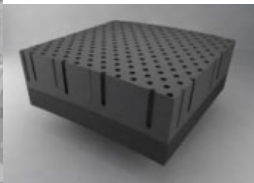
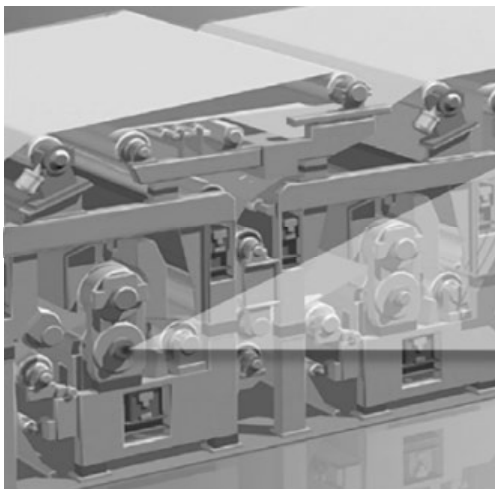
## 典型應用案例 – 大輥徑壓榨

### Typical application – LNP Press



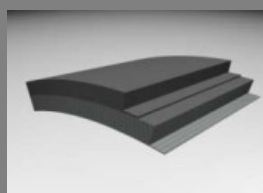
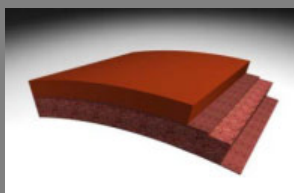
**RoliPress RSX** 用於非常苛刻的環境，高車速，高線壓（350KN/m）的大輥徑壓榨輥，運行安全性是首要的目標。因此，處了橡膠材料的耐磨性，包膠的粘接技術也是關鍵。我們為眾多包裝紙機提供了優質的大輥徑包膠，使用安全，研磨週期長，贏得良好口碑。

**RoliPress RSX** is for jumbo press roll cover under high line load and speed. The running safety is the key except the wearing resistance. Our cover is running under this extreme condition for long time.



## 網壓部/完成部 包膠產品

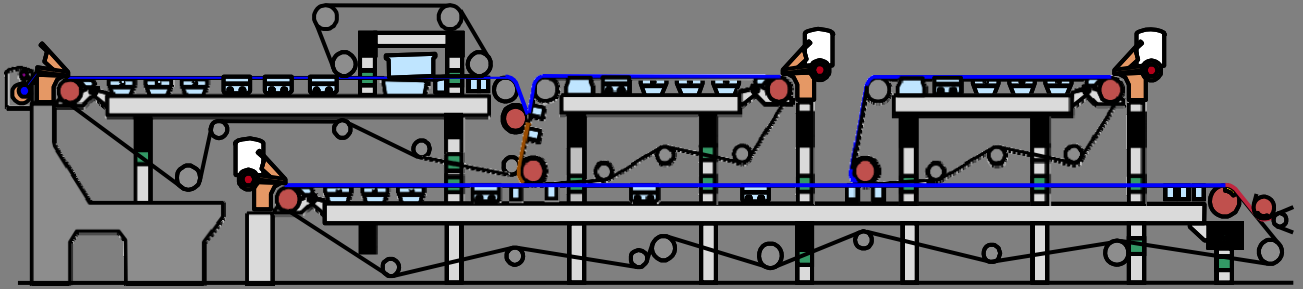
### Roll cover for wire and finishing



品名 Name	材質 Material	硬度 Hardness	應用位置 Position	特性 Features
<b>RoliGuide R</b>	硬質橡膠 Hard rubber	0-3 P&J	網壓導輥，胸輥 Wire and felt roll, breast roll	硬度，高密度，表面光澤度和平滑度高，鏡面效果，刮刀適應性強。  Bone hard rubber, wear resistance, easy doctoring.
<b>RoliGuide RD</b>	合成橡膠 Synthetic rubber	10-30 P&J	驅網輥，卷紙輥，壓紙輥 Wire drive roll, reel spool	硬度適中，牽引性好，耐磨，用HDPE刮刀。 Good traction properties and wear resistance, HDPE doctor blade.
<b>RoliGuide P</b>	聚氨酯 Polyurethane	5-20 P&J	驅網輥，卷紙輥，壓紙輥 Wire drive roll, reel spool, ride roll	牽引性和耐磨性非常好，強度高抗老化。 Excellent traction and wear resistance, tough and anti-ageing.
<b>RoliWind</b>	海珀龍橡膠 Hypalon	90-150 P&J	複卷機底鼓，卷紙缸 Winder drum, reel drum,	非常軟，同時保持好的耐磨性，抗幹磨擦。 Very soft but maintain good wear resistance, against dry friction.

## 典型應用案例 – 驅網輥聚氨酯包膠

### Typical application – Wire drive roll PU cover



由於包裝紙機的漿料磨損性很強，對網部導輥的磨損也非常大，因此需要更強的包膠材料去適應 這樣的苛刻環境。

特別是網部驅動輥，為避免打滑，需要一定的柔軟性，因此比硬橡膠更容易磨損。**RoliGuide P** 就是針對這一需求而開發出來的產品。它是採用複合材料基層，聚氨酯面層。具有耐磨和牽引性都最佳的特點，比橡膠包膠提高了幾倍壽命。

Since the raw material of package paper is very abrasive, the wire guide roll get serious wearing especially in the high speed machine. Therefore a better roll cover is required to adapt this hard situation.

**RoliGuide P** is just designed for wire drive roll, which is polyurethane cover with composite base layer. It combines the wear resistance with traction properties perfectly for the requirement of drive roll cover. In a performance several times better than rubber cover.



## 熱噴塗系列產品

### Thermal spray coating



品名 Name	材質 Material	硬度 Hardness	厚度 Thickness	應用位置 Position	特性 Features
RoliGloss	硬金屬碳化物	1200-1400 HV	150-180 μm	壓光硬輥，熱輥 Calender, super-calender steel roll	HVOF噴塗，超高硬度，高密度，表面光澤度和平滑度高，鏡面效果，刮刀適應性強。 HVOF, superior hard, high density, glossy and smoothness, good doctoring adaptability. .
RoliFric	碳化鎢 HNBR	900-1200 HV	80-120 μm	複卷，卷紙鼓 Winder, reel drum	HVOF，硬度高，耐磨，可控的粗糙度，防滑性能好。 HVOF, High hardness, abrasion resistance, controlled roughness for good anti-slip. .
RoliClean	碳化鎢+特氟龍 Tungsten carbide + PTFE	700-1000 HV	100-150 μm	烘缸，引導輥 Dryer can, guide roll	防腐蝕耐磨基層，表面特氟龍防粘，剝離性好，刮刀適應性好。 Anti-corrosion and wearable base layer, PTFE layer for anti-adhesion and good release properties, easy doctoring.
RoliAlloy	硬質合金 Alloy	700-800HV	600-800 μm	洋基烘缸，光澤烘缸 Yankee, MG cylinder	塗層厚度大，緻密，防銹性能強，表面光滑耐磨，防止刮刀震痕。 High thickness and density, anti-corrosion, smoother surface and wearing resistance, prevent chattering mark.

## 典型應用案例 – 熱噴塗

### Typical application – Thermal spray coating



**RoliGloss** 用於裝飾原紙和箱板紙的壓光機。由于原紙灰分含量很高，對輥面磨損很強。採用 RoliGloss 可以大大延長研磨週期，同時高光澤和平滑的輥面 ( $RA < 0.04 \mu m$ )，給予紙張更好的品質。

RoliGloss used on the calender of deco paper and testliner. The paper are very abrasive due to high ash content. It can dramatically prolong the grinding interval of calender roll by using RoliGloss. At same time, the smooth and glossy surface give paper better quality.



**RoliFric** 複卷機底鼓噴塗，現場作業，根據紙種需求提供不同粗糙度產品。

RoliFric is for winder drum coating, onsite work, provide different roughness according to the paper grade.



## 專業輥子維修服務

### Professional overhaul service



專業的輥子維修技術人員，擁有多年的維修經驗，為紙廠提供專業的輥子維修服務，包括長度9米的SYM-CD 可控中高壓光輥，速度2500米/分的高速弧形輥維修和新制，真空輥內部高壓清洗裝置等高端維修服務。

Professional roll overhaul service specialist with long time experience, providing the high end roll repairing service such as 9 meter SYM-CD roll, spreader roll for 2500 mpm winder machine, internal HP shower installation for suction press roll.



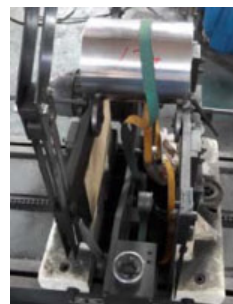


## 一站式維修

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可維修：游泳輥，分區可控中高輥，弧形輥，真空輥，靴板，複卷機多節輥，軸頭噴塗維修，更換新軸頭，內壁珩磨，動態油壓測試，中心動平衡，現場研磨和噴塗等。

Overhaul for Swimming roll, CC roll, spreader roll, suction roll, shoe press, winder sectional roll, spray coating for bearing seat, replace new journal, honing, dynamic hydraulic test, central balancing, onsite regrounding and thermal spray coating.



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