LET'S ROLL!

ROLL COVERS AND SERVICES FOR THE PAPER INDUSTRY



At Hannecard Group, you are guaranteed a top-notch service thanks to:

120 YEARS OF EXPERIENCE

TOP-QUALITY, HIGH-TECH PRODUCTS AND SERVICES

Hannecard boasts 120 years of experience and has become one of Europe's leading suppliers of rubber, polyurethane, composite and carbide coverings for rolls used in various industries, from paper to steel, plastic, wood, board, textile and food & beverage production. We also develop elastomer specialties (surface protection, moulded parts & extruded profiles) for a range of industrial applications.

SOLID EXPERT KNOW-HOW

AN EXPERIENCED TEAM Our highly skilled and experienced team relies on extensive expertise and know-how, and is driven to get the most out of all our customers' requests, not only in Europe, but worldwide. Through excellent resources, modern equipment and an open-minded approach, our teams at our three laboratories develop new rubber, polyurethane, composite and carbide compounds to meet the fast-changing needs of our customers. A specialised team looks into the broader functioning of rolls, resulting in total-concept solutions that create value. We can produce any type of roll cover for all industries.

A RELIABLE PARTNER FROM A TO Z

AN EXTENSIVE NETWORK

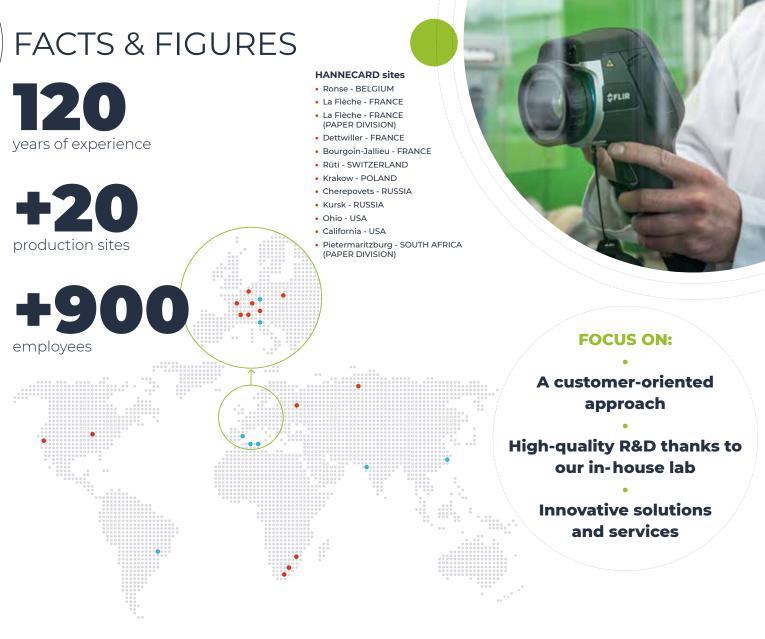
Hannecard has multiple production units across Europe, as well as various joint ventures and licensees worldwide. All of our sites meet the same strict quality standards, ensuring a reliable partner is never far away.







HANNECARD GROUP



100.000 roll coverings a year



HANNECARD Joint Ventures

- GOMPLAST SPAIN
- GOMPLAST CHINA
- MHP GERMANY
- HMSU Rollers INDIA
 TECNORULLI ITALY
- HANNECARD TUNISIA
- HANNECARD TUNISIA
 HANNECARD ALGERIA
- HAMICO BRASIL
- PRODUCTION SITES FOR THE PAPER INDUSTRY
- Hannecard France: production of up to 32 tonnes/12 metres (length) by 2.4 metres (diameter)
- Hannecard Russia: production of up to 25 tonnes/12 meter (length) by 1.6 metres (diameter)

HANNECARD PAPER

A COMPLETE, CUSTOM SERVICE, FROM A TO Z

As a division of the Hannecard Group, we offer a complete service, from pulp production to converting, from **new rolls and roll repairs** to **roll coverings** and **technical support**. All backed by a strong global network and highly experienced teams.

You can count on us for **the sale and engineering of new rolls and repairs**, but also for the **development of custom cost-reduction oriented solutions**. A few examples? Nip profile optimisation, low-energy absorption covers and efficient dewatering solutions, such as the Surface Manager software, which allows you to optimize the cover surface design in order to lower the nip draining time. We can also perform a roll audit, both during operation and machine shutdown, provide any type of roll body and covers, and even assist you with your start-up. In a nutshell, Hannecard Paper is your trusted partner, from A to Z, for **TCO** (Total Cost of Ownership) solutions.

A CUSTOMER-ORIENTED APPROACH, INNOVATION AND QUALITY

Hannecard Paper can count on a highly specialised team of technical experts and collaborations with leading paper institutes. That allows us to offer a wide range of custom solutions and services, including the development of specific covers.

Innovation and quality lie at the heart of our activities. We constantly monitor technological developments to **improve the efficiency** of paper machines and to push the limits of our covers. Our in-house R&D laboratory is equipped to take charge of quality control during the production process. We also have the equipment and expertise required for the measurement of the dynamical, mechanical, thermal, tribological, chemical and surface properties of our covers. We can optimise cover bonding resistance in the nip vs. nip load, speed, temperature and chemicals, in both wet and dry environments. Last but not least, we comply with strict industry standards and regulations. We have ISO 9001 Quality certification, our compound measurement tolerances are in line with ISO 6123 standards and we respect the 'REACH' standards, i.e. the European Union Regulation on the Registration, Evaluation, Authorisation and Restriction of Chemicals.



NEW ROLLS AND ROLL REPAIRS

ROLL COVERINGS

TECHNICAL SUPPORT

HANNECARD PAPER OUR SERVICES

ANNECARD

We offer a wide range of services for the paper industry, from the repair of used rolls to the replacement or delivery of new rolls, and the development of roll covers and coatings for all types of paper production.

Our priorities? Listening to our clients to find the solutions that best meet their needs and optimise: maintenance costs, machine efficiency and paper quality.

ROLL COVERING

- New covering or recovering, in any position of the paper mill, from pulp preparation to converting:
- at our workshop: polyurethanes, composites, rubbers and carbides
- on site: carbides
- Grinding (drilling and/or grooving)
- at our workshop: all types of covers
- on site: cylindrical grinding on metallic or carbide-covered rolls
- Inspection & expertise
- Repair & cleaning
- Optimisation

2 mechanical Roll services

- Complete overhaul (including cleaning, washing and spare parts replacement according to the needs identified during disassembly & inspection) of:
 - suction press rolls, suction couch rolls
- crown-controlled rolls such as Kusters, CCRolls and Nipco, including a test run with a hydraulic bench
- Spreader rolls overhaul, all brands (Mount Hope, Wittler, Plastex, Robec, Irga, Finbow, Tuvasa, Gorostidi, Kickert, Technomec, Hansen, Tevo, ...)
- Journal replacement
- Bearing seat repairs
- Non-destructive tests (crack tests): upon request, we can conduct ultrasonic, magnetic particle and colour tests in order to check for cracks on rolls and journals, so as to limit the risk of major mechanical failures
- Dynamical balancing at machine speed
- Cleaning and Painting

- 3 roll bodies
- New rolls (cores, shells and spreader rolls)
- Inspection & expertise
- Repair & cleaning
- Optimisation

4 VARIOUS SERVICES

- Paper machine audit
- Rolls & doctoring inspections during machine shutdown
- Profile measurements
- Thermographic analysis
- Creation of roll drawings from 3D geometrical controls
- Chemical resistance
 optimisation
- Start-up assistance
- NIP optimisation: to verify the performance of the grinding profile, we can make nip impressions (static and dynamic) in machines and conduct a wear-profile analysis
- New transport boxes

optimise: maintenance costs machine efficiency paper quality

HANNEGARD PAPER OUR PRODUCTS

Hannecard has over a century of experience in a range of demanding industries & applications. We always strive to boost the eco-efficiency of our cover solutions and we are proud to say our products guarantee the lowest heat build-up and energy absorption in the nip.

HARD & SOFT POLYURETHANE COVERS 2 HARD & SOFT RUBBER COVERS



THE INDESTRUCTIBLE DAMPER

- Optimal resistance to hydrolysis, temperature and abrasion
- The ideal solution for the most demanding press-roll applications
- Fine-tuned surface design with possible combination of suction drilling, blind drilling and grooving
- Multilayer bonding system, with proven safety recorded in more than 200 applications
- Lowest energy and highest vibration absorption



THE ALL-TERRAIN SPECIALIST

- We develop and mix our own formulations
- Internal rubber mixing unit set up and sized in order to ensure:
- the best homogeneity for all our covers
- a constant repeatability of our production
- a controlled rubber quality dispatch to all our production sites worldwide
- Statistical analysis of all batches produced
- Predictive simulation software to ensure an optimal vulcanisation of the most complex rolls



3 COMPOSITE



THE AVANT-GARDIST

- Optimal surface release
 behaviour
- Highest shock absorption and energy dissipation
- Best abrasion and barring resistance
- Outmost profile stability and surface doctorability
- Excellent geometrical stability in high-temperature environments

4 TUNGSTEN & CHROMIUM CARBIDE COVERS – clupak D blankets SPREADER ROLLS (PIKOASUR BRAND)



THE SURFACE MASTER

- Outstanding level of quality and reliability based on technology from the aeronautic industry
- Best resistance against corrosion in aqueous & acid environments
- Optimum resistance against oxidation at high temperatures
- Resistance against abrasion, erosion, cavitation and fretting
- Depending on the requested coating characteristics, we provide different thermal spray coating technologies, including HVAF M3, HVOF and electric arc for the production of tungsten and chromium carbides, nickel chromium and different metal coatings
- The latest technology available on the market: HVAF M3 gun for carbide covers providing the highest performance & homogeneity, the lowest porosity level (<0.5 %) and the best adhesive strength on the metal core (> 70 MPa)
- Coatings can be applied on site or at our workshop

The '8000 series' rubber blankets, used in Clupak machine sections, allow for paper extensibility through elongation in the nip.

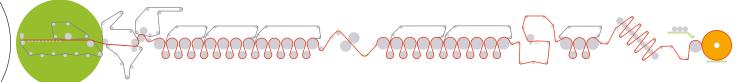
Characteristics:

- Superior crack resistance
- Excellent flexing & elongation characteristics
- Extended lifetime
- Optimal on-site grindability

- Production of new spreader rolls since 2000
- Overhaul of existing spreader rolls (> 100 pcs / year)
- Offering solutions with rubber sleeves or metallic surface (steel, hard chromium, CarburFlon, PikoSpread)
- Optimization of unefficient design
- Experience on wide (> 9 m) and fast (> 2000 m/min) paper machines (StoraEnso, UPM, SmurfitKappa, Burgo, DS Smith, ArjoWiggins, Ahlstrom-Munksjö, Lecta; ...)

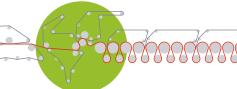
covers top-notch quality guaranteed

FORMING SECTION



BREAST ROLL, FO	ORMING ROLL				
Quality	Compound	Abrasion resistance	Anti-adhesive surface	Doctorability	Eco efficiency
Neostone Titan Centaur HanneSpray-Cr Plus	Rubber Composite Composite Chromium Carbide				
WIRE ROLL, TAB	LE ROLL				
Quality	Compound	Abrasion resistance	Anti-adhesive surface	Doctorability	Eco efficiency
Neostone Titan Centaur HanneSpray-Cr Plus Carburflon NG	Rubber Composite Composite Chromium Carbide Tungsten carbide				
SUCTION COUCH	CYLINDER, MILLSPAUGH				
Quality	Compound	Abrasion resistance	Anti-adhesive surface	Doctorability	Eco efficiency
HanneDrive FlexoDrive HanneSpray-W	Rubber Polyurethane Tungsten carbide				
LUMPBREAKER					
Quality	Compound	Abrasion resistance	Anti-adhesive surface	Doctorability	Eco efficiency
HanneLump HanneLump HT	Rubber Rubber				
HELPER, WIRE D	RIVING ROLL				
Quality	Compound	Abrasion resistance	Anti-adhesive surface	Doctorability	Eco efficiency
Hanne Drive Flexo Drive	Rubber Polyurethane				

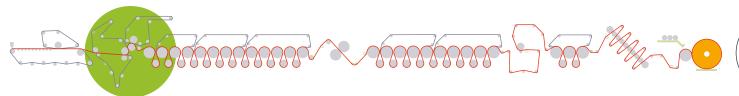
PRESS SECTION - 1 - in contact with paper



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HARD PRESS ROLL, CENTER PRESS ROLL, HARD SMOOTHING PRESS								
Quality	Compound	Abrasion resistance	Doctorability	Sheet release	Eco efficiency			
HanneRock Sirius Vega	Rubber Composite Composite							
SOFT PRESS RC)LL							
Quality	Compound	Abrasion resistance	Doctorability	Sheet release	Eco efficiency			
HannePress Plus	Rubber	$\bullet \bullet \bullet \circ$	$\bullet \bullet \bullet \bigcirc$	$\bullet \bullet \bullet \circ$	$\bullet \bullet \bullet \bigcirc$			
SOFT SMOOTHI	NG PRESS							
Quality	Compound	Abrasion resistance	Doctorability	Sheet release	Eco efficiency			
HannePress Visiomat II	Rubber Composite	$\bullet \bullet \bullet \circ$		••••				
PAPER-TOUCH	ED ROLL, PAPER GUIDE	EROLL						
Quality	Compound	Abrasion resistance	Doctorability	Sheet release	Eco efficiency			
Titan Centaur Carburflon NG	Composite Composite Tungsten carbide							

PRESS SECTION - 2 - in contact with felts



SUCTION PRESS ROLL, PICK UP PRESS ROLL								
Quality	Compound	Abrasion resistance	Hardness stability	Dewatering efficiency	Vibration absorption	Eco efficiency		
Alveomat Flexolys NeoFlex	Rubber Polyurethane Polyurethane							
PRESS ROLL (P	LAIN, BLIND DRILLED	AND/OR G	ROOVED)					
Quality	Compound	Abrasion resistance	Hardness stability	Dewatering efficiency	Vibration absorption	Eco efficiency		
HannePress Flexolys NeoFlex	Rubber Polyurethane Polyurethane		$\begin{array}{c}\bullet\bullet\bullet\circ\\\bullet\bullet\bullet\bullet\\\bullet\bullet\bullet\bullet\end{array}$					

Neostone G

HanneSpread G

JUMBO PRESS	ROLL (HLP, ENP)					
Quality	Compound	Abrasion resistance	Hardness stability	Dewatering efficiency	Eco efficiency	
HannePress HP	Rubber	$\bullet \bullet \bullet \bigcirc$	$\bullet \bullet \bullet \bigcirc$	$\bullet \bullet \bullet \circ$	$\bullet \bullet \bullet \bigcirc$	
FELT ROLL, FEI	LT GUIDE ROLL					
Quality	Compound	Abrasion resistance	Ageing resistance	Eco efficiency		
Neostone	Rubber	$\bullet \bullet \circ \circ$	$\bullet \bullet \circ \circ$	$\bullet \bullet \circ \circ$		
Titan	Composite	$\bullet \bullet \bullet \circ$	$\bullet \bullet \circ \circ$	$\bullet \bullet \bullet \circ$		
Centaur	Composite	$\bullet \bullet \bullet \circ$	$\bullet \bullet \bullet \bigcirc$	$\bullet \bullet \bullet \circ$		
Carburflon NG	Tungsten carbide	••••	••••	••••		
SPREADING FE	ELT ROLL					
Quality	Compound	Abrasion resistance	Spreading effect	Eco efficiency		

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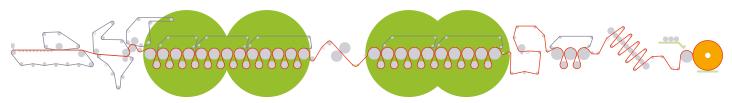
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DRYING SECTION

Rubber

Rubber



DRYER CYLIND	ER, CAN DRYER					
Quality	Compound	Abrasion resistance	Anti-adhesive surface	Doctorability	Eco efficiency	
CarburFlon NG	Tungsten carbide	••••	••••	••••	••••	
DRYING FELT R	OLL, DRYING WIRE I	ROLL				
Quality	Compound	Abrasion resistance	Anti-adhesive surface	Eco efficiency		
Titan Centaur Carburflon NG	Composite Composite Tungsten carbide					
PAPER-TOUCH	ED ROLL, PAPER GU	IDE ROLL				
Quality	Compound	Abrasion resistance	Anti-adhesive surface	Friction coefficient	Antistatic properties	Eco efficiency
Titan Titan AS II Centaur Carburflon NG	Composite Composite Composite Tungsten carbide					
VACROLL, DRY	ING FELT / WIRE SUC	CTION CYLIN	DER			
Quality	Compound	Abrasion resistance	Anti-adhesive surface	Corrosion resistance	Eco efficiency	
HanneSpray-W	Tungsten carbide	$\bullet \bullet \bullet \bullet$	$\bullet \bullet \bullet \bullet$	••••	••••	



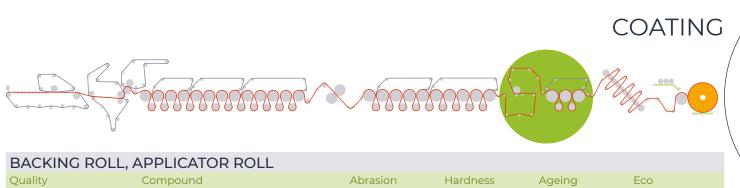
SIZING

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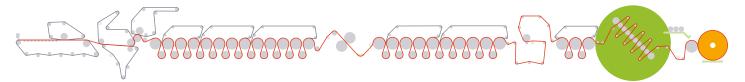
HARD SIZE PR	ESS					
Quality	Compound	Abrasion resistance	Hardness stability vs T°	Eco efficiency		
HelioRock	Rubber	$\bullet \bullet \circ \circ$	$\bullet \bullet \bullet \circ$	$\bullet \bullet \bullet \circ$		
Sirius SP	Composite	$\bullet \bullet \bullet \bullet$	••••	••••		
SOFT SIZE PRE	ESS					
Quality	Compound	Abrasion resistance	Hardness stability vs T°	Eco efficiency		
TactilSize	Rubber	$\bullet \bullet \circ \circ$	$\bullet \bullet \circ \circ$	$\bullet \bullet \bullet \bigcirc$		
TactilSize Plus	Rubber	$\bullet \bullet \bullet \bigcirc$	$\bullet \bullet \bullet \bigcirc$	$\bullet \bullet \bullet \bigcirc$		
XperSize	Rubber	$\bullet \bullet \bullet \bullet$	$\bullet \bullet \bullet \circ$	••••		
FILM PRESS, S	IZER PRESS ROLL					
Quality	Compound	Abrasion resistance	Ageing resistance	Vibration absorpion	Film transfer	Eco efficiency
TactilSize Plus	Rubber	$\bullet \bullet \circ \circ$	$\bullet \bullet \bullet \bigcirc$	$\bullet \bullet \bullet \bigcirc$	$\bullet \bullet \bullet \circ$	$\bullet \bullet \bullet \bigcirc$
Xpersize	Rubber	$\bullet \bullet \bullet \circ$	$\bullet \bullet \bullet \circ$	$\bullet \bullet \bullet \circ$	$\bullet \bullet \bullet \bullet$	••••
ExoSize	Polyurethane	••••	••••	••••	••••	••••
PAPER-TOUCH	HED ROLL, PAPER	GUIDE ROLL				
Quality	Compound	Abrasion resistance	Anti-adhesive surface	Friction coefficient	Eco efficiency	
Titan R	Composite	$\bullet \bullet \circ \circ$	$\bullet \bullet \circ \circ$	$\bullet \bullet \bullet \bullet$	$\bullet \bullet \circ \circ$	
Centaur	Composite	$\bullet \bullet \bullet \circ$	$\bullet \bullet \bullet \bigcirc$	$\bullet \bullet \bullet \circ$	$\bullet \bullet \bullet \bigcirc$	

CentaurComposite••••Carburflon NGTungsten carbide••••



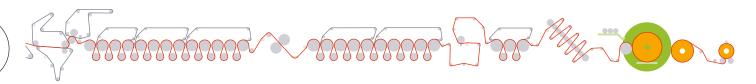
Quality	Compound	Abrasion resistance	Hardness stability	Ageing resistance	Eco efficiency	
TactilCoat StarCoat	Rubber Rubber		$\begin{array}{c}\bullet\bullet\bullet\bullet\\\bullet\bullet\bullet\end{array}$			
SPLICING ROL	L					
Quality	Compound	Abrasion resistance	Hardness stability	Ageing resistance	Eco efficiency	
HanneDrum SR	Rubber	$\bullet \bullet \bullet \bigcirc$	$\bullet \bullet \bullet \circ$	$\bullet \bullet \bullet \bigcirc$	$\bullet \bullet \bullet \bigcirc$	

CALENDERING



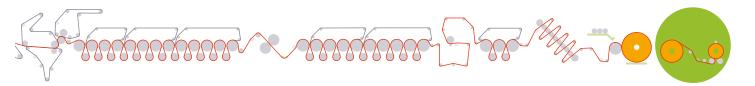
SOFT CALENDER	SOFT CALENDER ROLL								
Quality	Compound	Abrasion resistance	Anti-adhesive surface	Doctorability	Impact resistance	Temperature resistance	Eco efficiency		
Visiomat II Diamantal Diamantal NG Diamantal HT	Rubber Composite Composite Composite								
HARD CALENDE	R ROLL								
Quality	Compound	Abrasion resistance	Anti-adhesive surface	Doctorability	Impact resistance	Temperature resistance	Eco efficiency		
HanneSpray-W	Tungsten carbide	$\bullet \bullet \bullet \bigcirc$	$\bullet \bullet \bullet \bullet$	$\bullet \bullet \bullet \circ$	$\bullet \bullet \bullet \circ$	••••	••••		
HanneSpray-W Plus	Tungsten carbide	••••	••••	••••	••••	••••	••••		
MARKING PRESS	GIGARETTE P	APER)							
Quality	Compound	Abrasion resistance	Anti-adhesive surface	Impact resistance	Temperature resistance	Eco efficiency			
FlexoPrint	Polyurethane	••••	$\bullet \bullet \bullet \bigcirc$	••••	$\bullet \bullet \bullet \bigcirc$	$\bullet \bullet \bullet \bigcirc$			

REELING



REEL SPOOL						
Quality	Compound	Abrasion resistance	Impact resistance	Temperature resistance	Antistatic properties	Eco efficiency
Protecthane Plus	Polyurethane	$\bullet \bullet \bullet \circ$	$\bullet \bullet \bullet \bullet$	$\bullet \bullet \bullet \bigcirc$	$\bullet \bullet \circ \circ$	$\bullet \bullet \bullet \circ$
Protecthane Plus AS	Polyurethane	$\bullet \bullet \bullet \bigcirc$	••••	$\bullet \bullet \bullet \circ$	••••	$\bullet \bullet \bullet \bigcirc$
REEL DRUM, POP	PE REEL					
Quality	Compound	Abrasion resistance	Impact resistance	Temperature resistance	Eco efficiency	
HanneDrum SR	Rubber	$\bullet \bullet \bullet \bigcirc$	$\bullet \bullet \circ \circ$	$\bullet \bullet \bullet \bigcirc$	$\bullet \bullet \bullet \circ$	
HanneSpray-W	Tungsten carbide	••••	••••	••••	••••	

WINDING



DRUM ROLL							
Quality	Compound	Abrasion resistance	Impact resistance	Dampening efficiency	Friction coefficient	Friction coeff. stability	Eco efficiency
HannePrene AS Flexolys Foam HanneSpray-W	Rubber Polyurethane Tungsten carbide						
RIDER ROLL							
Quality	Compound	Abrasion resistance	Impact resistance	Dampening efficiency	Friction coefficient	Friction coeff. stability	Eco efficiency
HanneRide Flexolys Foam HanneSpray-W	Rubber Polyurethane Tungsten carbide						

TISSUE



SUCTION PRESSU	JRE ROLL					
Quality	Compound	Abrasion resistance	Hardness stability	Dewatering efficiency	Vibration absorption	Eco efficiency
TissuPress	Rubber	$\bullet \bullet \circ \circ$	$\bullet \circ \circ \circ$	$\bullet \bullet \circ \circ$	$\bullet \bullet \circ \circ$	$\bullet \bullet \circ \circ$
TissuStar	Rubber	$\bullet \bullet \bullet \circ$				
NeoFlex T	Polyurethane	••••	••••	••••	••••	$\bullet \bullet \bullet \bullet$
PRESSURE ROLL	(PLAIN, BLIND DRIL	LED AND/C))		
Quality	Compound	Abrasion resistance	Hardness stability	Dewatering efficiency	Vibration absorption	Eco efficiency
TissuPress	Rubber	$\bullet \bullet \circ \circ$	$\bullet \circ \circ \circ$	$\bullet \bullet \circ \circ$	$\bullet \bullet \circ \circ$	$\bullet \bullet \circ \circ$
TissuStar	Rubber	$\bullet \bullet \bullet \bigcirc$	$\bullet \bullet \bullet \circ$	$\bullet \bullet \bullet \circ$	$\bullet \bullet \bullet \bigcirc$	$\bullet \bullet \bullet \circ$
StarPress II	Rubber	$\bullet \bullet \bullet \bullet$	$\bullet \bullet \bullet \circ$	$\bullet \bullet \bullet \circ$	$\bullet \bullet \bullet \bigcirc$	$\bullet \bullet \bullet \circ$
NeoFlex T	Polyurethane	••••	••••	••••	••••	$\bullet \bullet \bullet \bullet$
YANKEE CYLINDE	ER WITH CYLINDRIC		Ξ			
Quality	Compound	Abrasion resistance	Doctorability	Heat Transfer	Creping process	Eco efficiency
HanneSpray-Cr HanneSpray-Cr Plus	Chromium Carbide Chromium Carbide	$\bullet \bullet \bullet \bigcirc$				

HANN ECARD PRODUCTION SITES

HANNECARD

Group Head Office Ninoofsesteenweg 589 9600 Ronse - BELGIUM

T:+32 55 23 76 30

info@hannecard.com

PAPER DIVISION Les Pelouses - Route du Lude 72200 La Flèche - FRANCE T : +33 243 48 66 35 hannecardpaper@hannecard.com

HANNECARD FRANCE

Les Pelouses - Route du Lude 72200 La Flèche - FRANCE T : +33 243 48 11 11 france@hannecard.com

HANNECARD FRANCE

51, Rue Strasbourg 67490 Detwiller - FRANCE T : +33 388 91 40 25 alsace@hannecard.com

HANNECARD FRANCE

13, Avenue de Chantereine 38300 Bourgoin-Jallieu - FRANCE T : +33 474 19 02 70 france.ra@hannecard.com

HANNECARD FRANCE

Z.I. de l'Aiguille 46100 Figeac - FRANCE T : +33 565 34 46 29 info@pikoasur.com

HANNECARD POLAND

Ul. Ujastek 1 31-752 Krakow - POLAND T : +48 12 644 12 76 polska@hannecard.com

HANNECARD RUSSIA

Ul. Stroyindustrii d.4 str.2 - office. 312 162600 Cherepovets - RUSSIA T : +7 8202 57 27 12 north-west@hannecard.com

HANNECARD RUSSIA PAPER DIVISION

Pr. Leninskogo Komsomola 2, Office 41 4305018 Kursk - RUSSIA T: +7 4712 77 00 41/42/43 russia@hannecard.com

HANNECARD USA

1031 Lambert St, Barberton 44203 Ohio - USA T: +1 330-753-8458 ohio@hannecard.com

HANNECARD USA

5691 Gates Street, Chino 91710 California - USA T : +1 909-393-0528 info@hannecard.com

HANNECARD SOUTH AFRICA PAPER DIVISION

55 Portland Rd, Mkondeni Pietermaritzburg, 32 01 - SOUTH AFRICA Tel:+27 (0) 33 386 9341 info@hmrollers.co.za

HANNECARD SOUTH AFRICA

4 King St, Duncanville Vereeniging, 1939 - SOUTH AFRICA

HANNECARD SOUTH AFRICA

5 Selsden Road, Beaconvale Cape Town, 7500 - SOUTH AFRICA