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Lantier Technology

# Solutions in Doctor Blades



# Solutions since 1987

Since our **foundation in 1987**, in Lantier we have always dedicated to offering our papermaking customers solutions in all sorts of applications related to Doctoring in pulp, paper, board and tissue machines.

In these more than 25 years we have successfully solved numerous situations for our **customers located all over the world**.

Our products provide **efficiency, productivity and resource savings** in the paper machine.

In Lantier **we are specialists** and as specialists **we offer the best product and the best service**.



## Lantier Doctor Blade service – fast and close

The location of our **factories in Europe, Asia and America** allow us to provide **fast and close service** to our customers.

Taking advantage of these operational bases, we also offer **local technical assistance service** not only for Lantier equipment but for equipment from any other manufacturer.

Our **experience** ensures providing you with **the best solution** for any situation related to Doctoring.



## Lantier around the world

Lantier has **sales representatives in 50 countries** who will be glad to take care of you directly from your own country.

We have **production sites and raw material warehouses in all 5 continents**, this way our **service is local, fast and close to our customers in the whole world**.

Those who trust Lantier can count on the security of high quality support and excellent service that will lead them to improving the efficiency of their paper machine.

Our customers are our best warranty.



## Quality

The **best material quality choice**, together with a **precise, careful and controlled manufacturing process** give as a result Doctor Blades of excellent quality.

The high quality of Lantier Doctor Blades assures the **most effective performance** that helps optimize Doctor operation.

We recommend using the best Blade Holders and Doctors specifically designed and adapted to each position in the paper machine in order to obtain the best efficiency in the Doctor Blades.

Lantier, being a **market leading specialist**, has a **complete range of Doctors and Blade Holders** as well as the experience to advice about their application, installation, adjustment and maintenance.

# Types of Doctor Blades

<b>Doctor blade</b>	Special Tempered Steel
<b>References</b>	L100 (1 x 50 mm) L101 (1 x 75 mm)
<b>Material</b>	Special tempered carbon steel
<b>Features</b>	Hardness 46-48 HRC
<b>Position</b>	Dryer section, Calander, Supercalander, Reel, MG Cylinder
<b>Bevel</b>	30°

<b>Doctor blade</b>	Creping Steel
<b>References</b>	Lo89 (0,89 x 101,6 mm) L103 (1,25 x 100 mm) L104 (1,25 x 114 mm) L105 (1,25 x 120 mm) L106 (1,25 x 127 mm)
<b>Material</b>	Special tempered carbon steel
<b>Features</b>	Hardness 46-48 HRC
<b>Position</b>	Yankee
<b>Bevel</b>	90° / 85° / 80° / 75°

<b>Doctor blade</b>	Stainless Steel
<b>References</b>	L144 (0,3 x 75 mm) L147 (0,4 x 75 mm) L148 (0,5 x 75 mm)
<b>Material</b>	Stainless steel
<b>Features</b>	Hardness 45-47 HRC
<b>Position</b>	Coater
<b>Bevel</b>	90°

<b>Doctor blade</b>	Stainless Steel 13% Cr
<b>References</b>	L130 (1,25 x 50 mm) L131 (1,25 x 75 mm)
<b>Material</b>	Tempered stainless steel 13% Cr
<b>Features</b>	Hardness 45-47 HRC
<b>Position</b>	Press section
<b>Bevel</b>	30°

<b>Doctor blade</b>	Phosphor Bronze
<b>References</b>	L160 (1,25 x 50 mm) L161 (1,25 x 75 mm) L162 (1,25 x 100 mm) L163 (1,25 x 120 mm)
<b>Material</b>	Hardened phosphorous bronze
<b>Features</b>	Hardness 200-260 HV
<b>Position</b>	Dryer section, Calander, Supercalander, Reel, MG Cylinder, Yankee
<b>Bevel</b>	90° / 85° / 80° / 75° / 30°

<b>Doctor blade</b>	Monel
<b>References</b>	L171 (1 x 75 mm)
<b>Material</b>	Copper nickel alloy
<b>Features</b>	Hardness 38-42 HRC
<b>Position</b>	Press section, Calander
<b>Bevel</b>	30°

# Types of Doctor Blades

<b>Doctor blade</b>	Polilan
<b>References</b>	L231 (5 x 75 mm)
<b>Material</b>	High density polyethylene with ultra high molecular weight UHMW
<b>Features</b>	-Temperature resistance: 80°C -Water absorption: NO -Chemical resistance: Very good
<b>Position</b>	Wire section, Press section
<b>Bevel</b>	45°

<b>Doctor blade</b>	Polilan Red
<b>References</b>	L232 (5 x 90 mm) L233 (5 x 100 mm) L234 (5 x 120 mm) L235 (6 x 150 mm)
<b>Material</b>	High density polyethylene with high molecular weight HMW
<b>Features</b>	-Temperature resistance: 80°C -Water absorption: NO -Chemical resistance: Very good
<b>Position</b>	Wire section, Press section
<b>Bevel</b>	Tailor made

<b>Doctor blade</b>	Celolan
<b>References</b>	L210 (2,8 x 50 mm) L211 (2,8 x 75 mm)
<b>Material</b>	Cotton fiber with phenol resin and molybdenum disulphide
<b>Features</b>	-Temperature resistance: 135°C -Water absorption: NO -Chemical resistance: Very good -Bending strength: 175 N/mm <sup>2</sup>
<b>Position</b>	Dryer section, Calender, Reel
<b>Bevel</b>	45°



<b>Doctor blade</b>	Ederlan
<b>References</b>	L220 (1,5 x 50 mm) L221 (1,5 x 75 mm) L222 (1,9 x 75 mm) L223 (1,9 x 50 mm)
<b>Material</b>	Glass fiber with epoxy resin
<b>Features</b>	-Temperature resistance: 190°C -Water absorption: NO -Chemical resistance: Very good -Bending strength: 400 N/mm <sup>2</sup>
<b>Position</b>	The entire paper machine
<b>Bevel</b>	30°

<b>Doctor blade</b>	Ederlan Plus
<b>References</b>	L240 (1,5 x 50 mm) L241 (1,5 x 75 mm) L242 (1,9 x 75 mm) L243 (1,9 x 50 mm)
<b>Material</b>	Glass fiber with special high temperature resisting epoxy resin
<b>Features</b>	-Temperature resistance: 240°C -Water absorption: NO -Chemical resistance: Very good -Bending strength: 450 N/mm <sup>2</sup>
<b>Position</b>	The entire paper machine
<b>Bevel</b>	30°

<b>Doctor blade</b>	Ederlan Ultra
<b>References</b>	L245 (1,5 x 75 mm)
<b>Material</b>	Glass fiber with special high temperature resisting epoxy resin
<b>Features</b>	-Temperature resistance: 270°C -Water absorption: NO -Chemical resistance: Very good -Bending strength: 450 N/mm <sup>2</sup>
<b>Position</b>	The entire paper machine
<b>Bevel</b>	30°

# Types of Doctor Blades

<b>Doctor blade</b>	Carbolan 1
<b>References</b>	L260 (1,5 x 50 mm) L261 (1,5 x 75 mm) L262 (1,9 x 75 mm) L263 (1,9 x 50 mm)
<b>Material</b>	2 carbon fiber layers and glass fiber with epoxy resin
<b>Features</b>	-Temperature resistance: 190°C -Water absorption: NO -Chemical resistance: Very good -Bending strength: 700 N/mm <sup>2</sup>
<b>Position</b>	The entire paper machine
<b>Bevel</b>	30°

<b>Doctor blade</b>	Carbolan 2
<b>References</b>	L265 (1,5 x 75 mm) L266 (1,9 x 75 mm)
<b>Material</b>	4 carbon fiber layers and glass fiber with epoxy resin
<b>Features</b>	-Temperature resistance: 190°C -Water absorption: NO -Chemical resistance: Very good -Bending strength: 800 N/mm <sup>2</sup>
<b>Position</b>	The entire paper machine
<b>Bevel</b>	30°

<b>Doctor blade</b>	Carbolan 100
<b>References</b>	L280 (1,5 x 75 mm) L282 (1,9 x 75 mm)
<b>Material</b>	100% Carbon fiber with epoxy resin
<b>Features</b>	-Temperature resistance: 190°C -Water absorption: NO -Chemical resistance: Very good -Bending strength: 1000 N/mm <sup>2</sup>
<b>Position</b>	The entire paper machine
<b>Bevel</b>	30°



<b>Doctor blade</b>	Ederlan Abrasive
<b>References</b>	L270 (1,5 x 50 mm) L271 (2 x 75 mm) L272 (1,5 x 75 mm)
<b>Material</b>	Glass fiber and abrasive weave with epoxy resin
<b>Features</b>	-Temperature resistance: 190°C -Water absorption: NO -Chemical resistance: Very good -Bending strength: 400 N/mm <sup>2</sup> -Abrasive weave with grid 120, 150, 180, 240, 280, 320
<b>Position</b>	Press section, Dryer section, MG cylinder, Yankee
<b>Bevel</b>	30°

<b>Doctor blade</b>	Carbolan 1 Abrasive
<b>References</b>	L290 (1,5 x 50 mm) L291 (1,5 x 75 mm)
<b>Material</b>	2 carbon fiber layers, glass fiber and abrasive weave with epoxy resin
<b>Features</b>	-Temperature resistance: 190°C -Water absorption: NO -Chemical resistance: Very good -Bending strength: 700 N/mm <sup>2</sup> -Abrasive weave with grid 120, 150, 180, 240, 280, 320
<b>Position</b>	The entire paper machine
<b>Bevel</b>	30°

<b>Doctor blade</b>	Carbolan 100 Abrasive
<b>References</b>	L295 (1,5 x 75 mm)
<b>Material</b>	100% Carbon fiber and abrasive weave with epoxy resin
<b>Features</b>	-Temperature resistance: 190°C -Water absorption: NO -Chemical resistance: Very good -Bending strength: 1000 N/mm <sup>2</sup> -Abrasive weave with grid 120, 150, 180, 240, 280, 320
<b>Position</b>	The entire paper machine
<b>Bevel</b>	30°

# Use of Doctor Blades

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Section of the Machine	Position	Type of Roll Cover	Hardness Range	Special Tempered Steel	Creeping Steel	Stainless Steel	Stainless Steel 13% Cr	Phosphor Bronze	Monel	Polilan	Celcon
FORMING SECTION	Wire Rolls	Ceramic	800-1300 HV 0.3								
		Soft Rubber	12-20 P&J								
		Hard Rubber	0-3 P&J								
		Composite	86 ShD								
		Hard Metal	900-1100 HV								
	Suction Rolls	Soft Rubber	12-20 P&J								
		Hard Metal	900-1100 HV								
PRESS SECTION	Presses	Ceramic	800-1300 HV 0.3								
		Soft Rubber	10-60 P&J								
		Hard Rubber	0-2 P&J								
		Hard Rubber + Grooves	0-2 P&J								
		Granite	0-2 P&J								
		Teflon / Fluoropolymer	800-1300 HV 0.3								
	Drilled or Grooved Presses	Composite + Grooves	87 ShD								
		Soft Rubber + Drills	5-65 P&J								
		PU + Drills	4-25 P&J								
		PU + Grooves	4-25 P&J								
	Felt Rolls	Composite	86-91 ShD								
		Hard Metal	1100-1250 HV 0.3								
DRYER SECTION	Wire Rolls	Composite	86 ShD								
		Chromed	900-1000 HV 0.1								
		Cast Iron	200-220 HB								
	Drying Cylinders	Chromed	900-1000 HV 0.1								
		Cast Iron	200-220 HB								
		Tungsten Carbide	0-2 P&J								
		Teflon	800-1300 HV 0.3								
MG CYLINDERS		Cast Iron	200-220 HB								
COATER SIZE PRESS	Backing Roll / Size Press	Ceramic - Blade Coater	1200 HV 0.3								
		Composite	86 ShD								
		Rubber - Blade Coater	10-130 P&J								
		Rubber - Blade Coater	10-40 P&J								
		Rubber - Blade Coater	0-2 P&J								
CALENDER		Composite	86 ShD								
		Chromed	900-1000 HV 0.1								
		Cast Iron	200-220 HB								
		PU	4-25 P&J								
REEL DRUM		Cast Iron	200-220 HB								
YANKEE		Cast Iron	220-260 HB								
		Hard Metal Coated	400-1200 HV 0.1								

Recommended (1st option)

Optional (2nd Option)

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## Types of Doctor Blades

## Lantier Blade Holder

lan	Ederlan	Ederlan Plus/Ultra	Carbolan 1, 2, 100	Ederlan Abrasivo	Carbolan 1, 100 Abrasivo	Recommended	Other Options	Loading Angle	Loading Linear Pressure (N/m)	Remarks
						FL-4	FL-5	25° - 27°	200 - 250	
						FL-8	FL-5 / FL-6	15° - 23°	30 - 50	Usually without oscillation
						FL-5	FL-4 / FL-6 / L-75N	15° - 25°	90 - 140	
						FL-5	FL-4 / FL-6 / L-75N	25° - 27°	90 - 140	
						FL-5	FL-4 / FL-6 / L-75N	18° - 25°	50 - 120	
						FL-5	FL-8	18° - 23°	50 - 90	Usually without oscillation
						FL-5	FL-8	18° - 25°	50 - 90	
						FL-4		25° - 27°	350 - 500	Always Double Doctor
						FL-8	FL-5 / FL-6	18° - 23°	90 - 140	Do not Doctoring over 40 P&J - Always with lubrication - Usually without oscillation
						FL-4		25° - 30°	200 - 300	Recommended Double Doctor
						FL-4		25° - 30°	200 - 300	Recommended Double Doctor
						FL-4		25° - 30°	200 - 300	Recommended Double Doctor
						FL-4	FL-5 / FL-6	18° - 25°	90 - 200	
						FL-5	FL-4 / FL-6 / L-75N	25° - 27°	90 - 140	
						FL-8	FL-5 / FL-6	18° - 23°	90 - 140	Do not Doctoring over 40 P&J - Always with lubrication - Usually without oscillation
						FL-4 / FL-5	FL-8	18° - 23°	90 - 140	
						FL-4 / FL-5	FL-8	18° - 23°	90 - 140	
						L-75N / FL-5	FL-4 / FL-6	25° - 27°	90 - 140	
						L-75N / FL-5	FL-4 / FL-6	18° - 25°	90 - 140	
						FL-4	L-75N	25° - 27°	90 - 140	
						FL-4	L-75N	25° - 27°	90 - 200	
						FL-4	L-75N	25° - 27°	90 - 200	
						FL-4	L-75N	25° - 30°	200 - 300	
						FL-4	L-75N	27° - 30°	200 - 300	
						FL-4	L-75N	23° - 25°	200 - 300	
						FL-4	L-75N	23° - 25°	90 - 200	
						FL-4	L-75	25° - 27°	300 - 500	
						FL-4		25° - 28°	200 - 400	
						FL-4 / FL-5	FL-8	25° - 28°	90 - 140	
						Hydrolan		38° - 42°	220 - 270	Warning: "Hydrolan" Water Doctor
						FL-4 / FL-5	FL-8	18° - 23°	90 - 140	Always with oscillation
						FL-4		20° - 25°	200 - 300	Always with oscillation
						FL-4 / FL-5	L-75N	25° - 27°	90 - 140	
						FL-4	L-75N	25° - 30°	200 - 300	
						FL-4	L-75N	25° - 30°	200 - 300	
						FL-8	FL-5	18° - 23°	30 - 50	
						FL-4	L-75N	25° - 27°	200 - 300	
						Crepilan-C	LC-114	15° - 25°	250 - 450	Always with oscillation
						Crepilan-C	LC-114	15° - 25°	250 - 450	Always with oscillation

Recommended Start-Up

Recommended maintenance

# Blade Holders

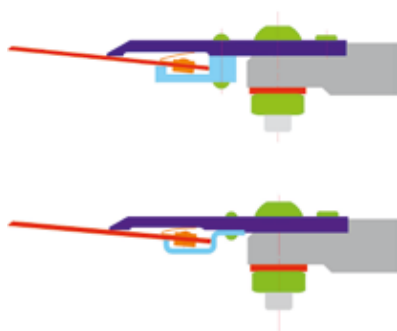
The Blade Holder is **the most critical component in a Doctor**.

We have several different types adapted to cater for the hardest tasks.

**All our Blade Holders can be adapted and customized** to meet the special needs of every papermaker.

Only the **unique flexibility of Lantier** guarantees you will obtain **the optimum performance in Doctoring** in your paper machine.

## L-75 + L-75N



Profiling	Manual micrometric screws
Position	Entire paper machine
Material	Stainless steel Carbon steel (painted) Glass fiber Carbon fiber
Blade height	75 mm
Loading angle	15° - 35°
Loading pressure	100 – 1500 N/m
Blade removal	Side or front
Maintenance	Usual cleaning

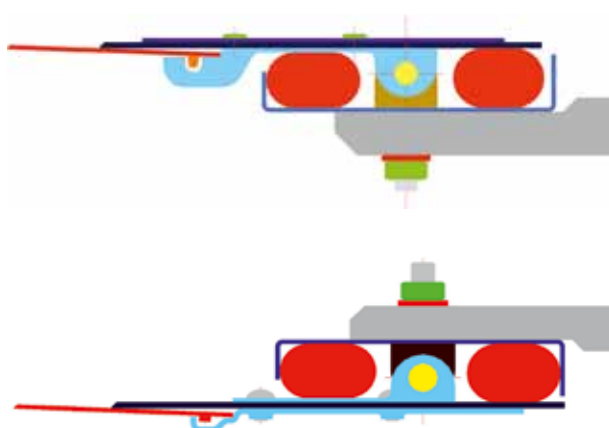
## Flexilan FL-4



Profiling	Pneumatic self-profiling
Position	Entire paper machine
Material	Stainless steel Glass fiber Carbon fiber
Blade height	75 mm
Loading angle	18° - 35°
Loading pressure	50 - 500 N/m
Blade removal	Side or front
Maintenance	Usual cleaning. Change pressure hoses
Options	Front and back Apron in silicone



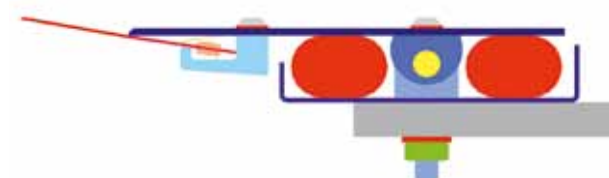
## Flexilan FL-5 + FL-6



<b>Profiling</b>	Pneumatic self-profiling
<b>Position</b>	Wire section, Press section, Suction rolls, Grooved or drilled rolls
<b>Material</b>	Stainless steel Glass fiber Carbon fiber
<b>Blade height</b>	75 mm
<b>Loading angle</b>	8° - 25°
<b>Loading pressure</b>	30 - 200 N/m
<b>Blade removal</b>	Side or front
<b>Maintenance</b>	Usual cleaning. Change pressure hoses
<b>Options</b>	Front Apron in silicone

## Flexilan FL-8

Special design for very low loading pressures in very soft rolls.



<b>Profiling</b>	Pneumatic self-profiling
<b>Position</b>	Soft calender rolls
<b>Material</b>	Carbon fiber
<b>Blade height</b>	75 mm
<b>Loading angle</b>	15° - 25°
<b>Loading pressure</b>	30 - 200 N/m
<b>Blade removal</b>	Side or front
<b>Maintenance</b>	Usual cleaning. Change pressure hoses

## ExtraFlex



**Fast Blade Holder removal system** for Flexilan Blade Holders.

**Keeping the Blade Holders clean** is a very important task for papermakers; this is constantly underlined by Lantier in all our visits to paper mills all around the world. This is the reason why we have developed specific designs of Blade Holders with a removable guiding system which allow perfect cleaning and excellent maintenance.

**The ExtraFlex design** feature allows removing and re-assembling the Blade Holder very fastly without the need of long and expensive machine shutdowns. The ExtraFlex's **unique patented design** features a **special fixing system** with instant blocking of the Blade Holder which **eliminates any possible vibration source** created by the guiding system.

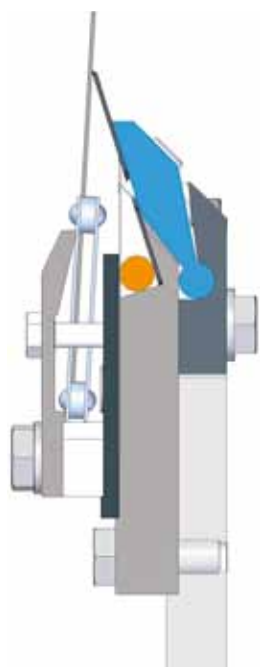
# Blade Holders

## Creping

Our special Creping Blade Holders for tissue Creping, Cutting and Cleaning Doctors are specially designed to cover the needs of all tissue machines, ranging from the most simple to the fastest and widest in the world.

Combining our Creping Blade Holder with all specific components and systems that Lantier has developed, we can ensure **vibration free operation in any circumstances**. This helps optimize tissue machine performance and obtain **excellent paper quality**.

### Creplan-C + Edge Fingers

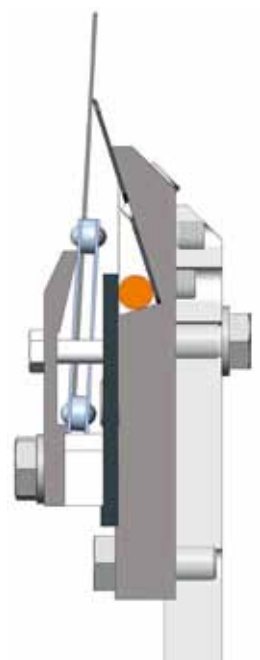


Most advanced Semi-flexible heavy duty Creping Blade Holder.

Featuring cartridges for Blade change and custom design for Yankees with extreme crown.

<b>Profiling</b>	Self-profiling by counterblade and flexible cushion-membrane Fine adjustment by manual micrometric profiling screws Edge fingers for extra crown adjustment
<b>Position</b>	Creping Doctor Cutting Doctor Cleaning Doctor
<b>Material</b>	Stainless steel
<b>Blade height</b>	75 - 127 mm
<b>Re-sharpening</b>	Multiple
<b>Loading angle</b>	12° - 30°
<b>Loading pressure</b>	100 - 750 N/m
<b>Blade removal</b>	Side; cartridges
<b>Maintenance</b>	Usual cleaning Change counter-blade Change cartridges Change cushion-membrane

### Creplan-C



Semi-flexible heavy duty Creping Blade Holder.

Featuring cartridges for Blade change and micrometric crown adjustment.

<b>Profiling</b>	Self-profiling by counterblade and flexible cushion-membrane. Fine adjustment by manual micrometric profiling screws
<b>Position</b>	Creping Doctor Cutting Doctor Cleaning Doctor
<b>Material</b>	Stainless steel
<b>Blade height</b>	75 - 127 mm
<b>Re-sharpening</b>	Multiple
<b>Loading angle</b>	12° - 30°
<b>Loading pressure</b>	100 - 750 N/m
<b>Blade removal</b>	Side; cartridges
<b>Maintenance</b>	Usual cleaning Change counter-blade Change cartridges Change cushion-membrane

## LC-114 + Cartridges



Basic Creping Blade Holder capable of coping with the toughest requirements.

Featuring cartridges for Blade change.

<b>Profiling</b>	Fine adjustment by manual micrometric profiling screws in the center and in the edges
<b>Position</b>	Creping Doctor Cutting Doctor Cleaning Doctor
<b>Material</b>	Stainless steel
<b>Blade height</b>	75 - 127 mm
<b>Re-sharpening</b>	Multiple
<b>Loading angle</b>	12° - 30°
<b>Loading pressure</b>	100 - 750 N/m
<b>Blade removal</b>	Side; cartridges
<b>Maintenance</b>	Usual cleaning Change counter-blade Change cartridges

## Water-Doctor for Coater Backing Roll

### Hydrolan



Special Blade Holder for cleaning the coater backing roll by means of a Water-Doctor.

<b>Profiling</b>	Manual micrometric screws
<b>Position</b>	Coater backing roll
<b>Material</b>	Stainless steel
<b>Blade height</b>	75 - 80 mm
<b>Loading angle</b>	38° - 42°
<b>Loading pressure</b>	220 - 270 N/m
<b>Blade removal</b>	Side
<b>Maintenance</b>	Usual cleaning. Change pressure hoses

# Technical assistance



## We bring you overview

The paper machine is a **complex set** of interconnected parts. Any action producing benefit in one part may be producing damage in another part. It is necessary to consider the machine as a whole.

Lantier's **over 25 year experience** helps papermakers optimize their paper machine. It's the advantage of counting on a specialist.



## Technical assistance

Our service personnel offer **local technical assistance** in the countries we are located in, both for Lantier equipment, as well as for equipment made by another manufacturer.

- Doctor Blade audits
- Wear analysis
- Doctoring optimization engineering
- Doctor design audits
- Doctor maintenance audits
- Doctor installation, adjustment and maintenance services
- Repairs, in Lantier as well as on site in paper mills
- Spare parts
- Rebuilds
- Etc.



# Accessories for Doctoring



Hose	Ultra High Temperature Flexilan Hose (Yellow)
Lantier code	53877
Material	Special synthetic rubber with polyester weave
Nominal diameter	25 mm / 1"
Maximum pressure	30 bar
Maximum temperature	250°C

Hose	High Temperature Flexilan Hose (White)
Lantier code	9427
Material	Special synthetic rubber with polyester weave
Nominal diameter	25 mm / 1"
Maximum pressure	21 bar
Maximum temperature	150°C

Hose	Low Temperature Flexilan Hose (White)
Lantier code	12030
Material	Polymer with polyester weave
Nominal diameter	25 mm / 1"
Maximum pressure	15 bar
Maximum temperature	80°C

## Hoses for Flexilan Blade Holders

Lantier Blade Holder hoses can be used in Lantier Blade Holders as well as in Blade Holders of any other supplier.

We ensure **maximum durability** under all circumstances.

The external plastic weave is specially thought to avoid that the dirt sticks to the hose and **turn hose changing an easy operation**.

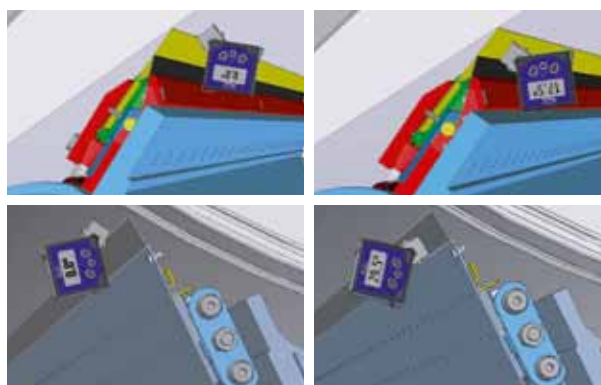
Lantier hoses are extremely **resistant to tearing** and they **slide in the Blade Holder** and do **not stick to the Blade holder**.

Despite our hoses can resist enormous pressures, we recommend limiting Blade holder air input pressure to 6 bar or less in order to optimize Doctoring.

## "Alphaset" Digital Angle Measuring Unit

Measure loading angle, parallelism and angular Doctor Blade position digitally with **0,1° precision**.

Built in stainless steel and aluminium, with **minimum size and maximum comfort**.  
"HOLD" function for easy reading outside the paper machine.



"Extralán" Doctor Blade pulling tools

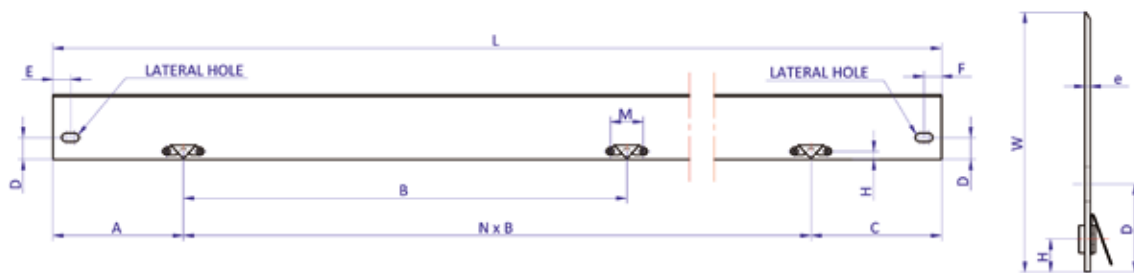
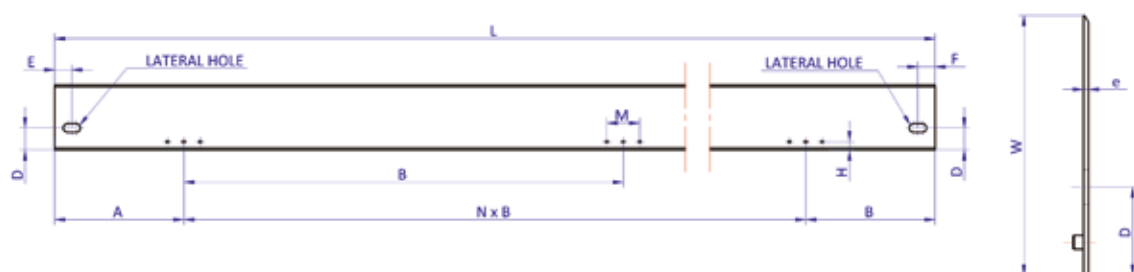


Board Doctor Blade packaging

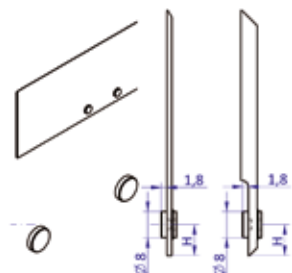
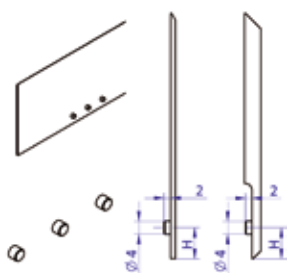
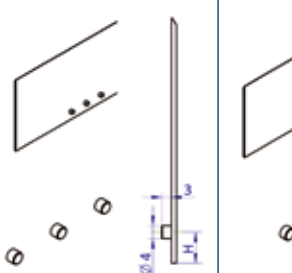
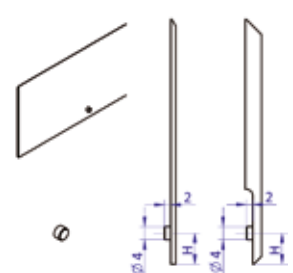
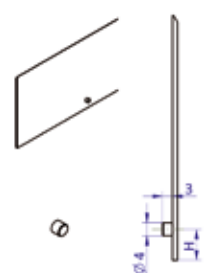
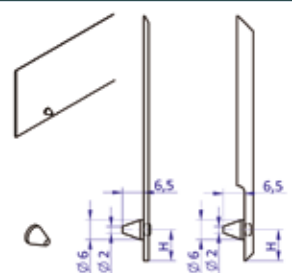
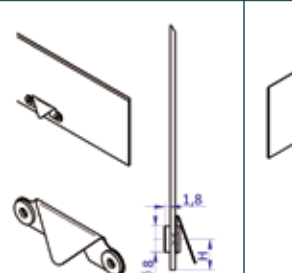
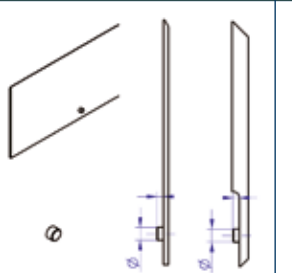
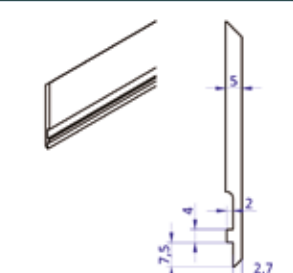


Packaging for sea and air transport

PAPER MILL:		CONTACT PERSON:	
EMAIL:		PHONE:	
PM:	PM SECTION:	ROLL:	ROLL MATERIAL:
BLADE MATERIAL:		BLADE HOLDER TYPE:	

**BLADE FIXATION BY CLIPS**

**BLADE FIXATION BY RIVETS**

**BLADE PARAMETERS**

L =
A =
B =
N =
C =
D =
E =
F =
H =
M =
W =
e =
$\beta$ =
$\varnothing$ CH =
$\varnothing$ SH =
LSH =

**RIVET 1 (4462)**

**RIVET 2 (4470)**

**RIVET 3 (8608)**

**RIVET 4 (4470)**

**RIVET 5 (8608)**

**RIVET 6 (4464)**

**CLIP 1 (8170+4462)**

**ALTERNATIVE RIVET**

**HD POLYETHYLENE (74185)**

**BLADE REMOVAL**

- ☐ SIDE/LATERAL REMOVAL
- ☐ FRONT REMOVAL

**REMARKS**



## Experience, service , technology and quality

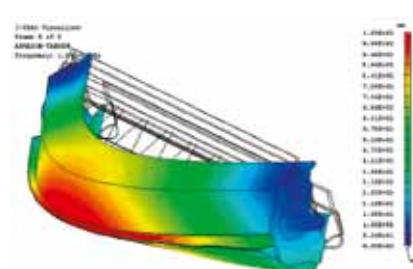
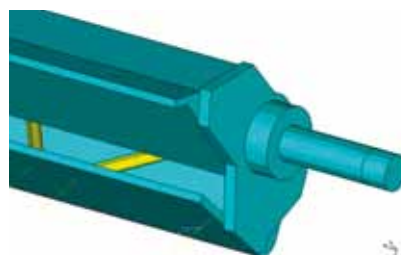
In Lantier we combine **experience, service, technology and quality** to offer the paper industry solutions to all the situations that can happen around our products.

Over 25 years working with paper mills of the entire world. Our products are installed on pulp, paper, board and tissue machines of 65 countries.

We are a global company but we operate locally in each country, collaborating with local companies to offer a close service, that pays attention to the details.

The most advanced technology in calculations, design and production allows us to create solutions accessible to all the paper makers, with paper machines of any type and size.

Our quality policy in all our management and production processes assures the optimum satisfaction degree of our customers.





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