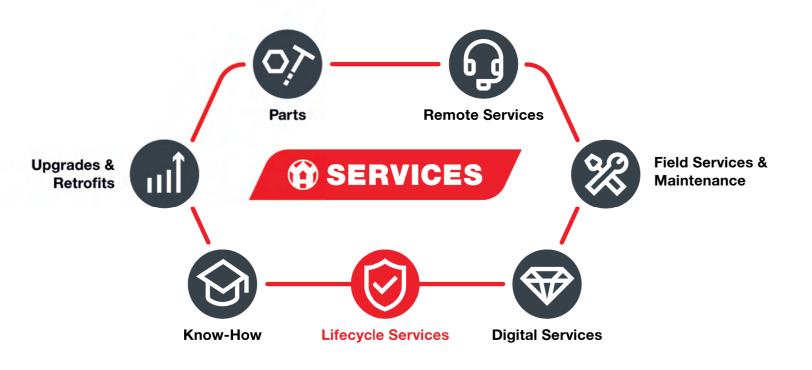
# **CONSUMABLES FOR FLEXO PRINTING PRESSES**







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# **CONSUMABLES FOR** FLEXO PRINTING PRESSES



## Why Consumables?

Despite their often small sizes and costs, consumables have a big impact on production performance and product quality. There are major interdependencies between printing press, substrate and consumables such as ink, printing plates, doctor blades or doctor blade chamber seals. Choosing the right consumables therefore is crucial to get the most out of your printing machine.

W&H therefore offers a wide range of high-quality consumables for printing presses – originals as well as others especially adapted to W&H machines and the high demands of the printing process. In particular our portfolio includes consumables such as doctor blades and doctor blade chamber seals.

#### Your advantages

- High-quality consumables especially developed for W&H printing presses
- Individual expert advice for your optimal consumables package
- Technical support for your production and printing related challenges
- Increased productivity and product quality
- Reduction of downtimes and set-up times

# Individual advice

To ensure that you use the most efficient consumables for your needs, we support you with individual expert advice. Our experts will be happy to help you choose the right setup and settings for your printing press to optimize uptime and production results.

#### Our advice includes



1. In-depth expert analysis regarding your machine, orders, quality, and productivity to identify improvement potential.



3. Optimization of machine settings and the printing process.

Are you interested in finding out what you can optimize and get out of your machine? Contact your local sales manager or get in touch with our experts directly by email.



#### **Original W&H Consumables**



#### W&H Doctor Blade Chamber Seals

- · Especially for W&H machines
- Highest quality
- · For various requirements and applications



#### W&H Doctor Blades

- · Suitable for all machines
- · Highest quality standards
- · For various requirements and applications

In particular, the individual advice at our plant was helpful and qualified. We will continue to use the high-quality W&H Doctor Blade Chamber Seals in the future and can recommend them without reservation.



2. Development of an optimally harmonized consumables package to improve productivity and print quality.



4. Tips for professional machine operation and support with production-related questions.

Andy Spengel Project Manager, Fibertex Personal Care AG

# **W&H DOCTOR BLADES**

High-quality doctor blades for optimum printing quality



#### Why W&H Doctor Blades?

For optimum printing results, it is important to adapt the consumables to the requirements of the printing process and the machine.

While the doctor blade ensures clean ink application on the print substrate, it also has a sealing function. Only with the right specifications for each color deck you can avoid leaks and ensure first-class printing quality even at high speeds and long runtimes. This requires not only the selection of the right materials and dimensions, but also the correct grinding of a doctor blade.

W&H doctor blades meet the highest quality standards and are suitable for flexographic printing presses from various manufacturers. Our portfolio includes doctor blades for a wide range of applications. They are available in different materials and specifications - either as rolls for

#### Your advantages

- High-quality doctor blades for different requirements
- Reduction of leaks
- Increased lifetime and productivity
- Clean ink application and consistent printing quality
- Individual consulting
- Pre-cut doctor blades

manual cutting or pre-cut to fit the most common working widths. This way you are optimally equipped for the challenges in your daily production.

#### Advantages of pre-cut doctor blades

With the perfectly pre-cut doctor blades, you save the work process for manual cutting and can install the doctor blade directly into your machine. In this way, you ensure optimum interaction between the doctor blade, chamber end seals and anilox roller, and avoid problems such as leackage caused by incorrect cutting.

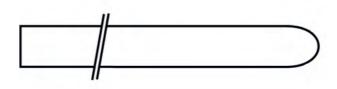
## **Product overview**



	Q	Q	Q
	PREMIUM CARBON STEEL	CERAMIC COATED	STAINLESS STEEL
Inking system	Solvent based inks	Abrasive inks Solvent based inks Water based inks	Water based inks Aggressive inks
Lifetime	$\bullet \bullet \bullet \circ \circ$	••••	$\bullet \bullet \bullet \circ \circ$
Printing quality	$\bullet \bullet \bullet \bullet \circ$		$\bullet \bullet \bullet \bullet \bigcirc$
Corrosion resistance	••000		
Available dimensions	35 x 0.15 mm 35 x 0.20 mm 35 x 0.25 mm 35 x 0.30 mm	35 x 0.15 mm 35 x 0.20 mm 35 x 0.25 mm 35 x 0.30 mm	35 x 0.15 mm 35 x 0.20 mm 35 x 0.25 mm 35 x 0.30 mm
Available grindings	Rounded Lamella	Rounded Lamella	Rounded Lamella

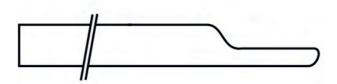
#### Available grindings

In addition to the selection of the right material, the correct grinding of the doctor blade is also important. The grinding of the working edge controls the ink application and has a significant influence on the printing quality.



#### Rounded

The rounded grinding on the working edge ensures an optimal angle to the anilox roll and prevents problems such as back-doctoring and scoring lines. The increased lifetime offers cost advantages at high doctor blade consumption.



#### Lamella

The lamella doctor blade is the most commonly used doctor blade in flexo printing. The fine step ensures an optimal contact zone of the working edge with the anilox roller and guarantees highest printing quality.

# **W&H DOCTOR BLADES** MADE OF PREMIUM CARBON STEEL

The solution for solvent based inks



## Why a premium carbon steel doctor blade?

The multi-purpose doctor blades made of high-quality carbon steel are the optimum solution for the use of solvent based inks. They are gentle on the anilox roller and have a longer lifetime than conventional standard doctor blades. Thanks to their fine material structure, they protect the ink system from contamination and ensure consistently high printing quality.

## Your advantages



Reduced waste

# **Product overview**

#### 35 x 0.15 mm

Dimensions	Quantity	Material number	
	Quantity	Rounded	Lamella
35 x 0.15 mm	100 meters	35083704	35083996
880 x 35 x 0.15 mm	60 pieces	35083984	35083997
1060 x 35 x 0.15 mm	60 pieces	35083985	35083998
1330 x 35 x 0.15 mm	60 pieces	35083986	35084012

#### 35 x 0.20 mm

Dimensions	Quantity	Material number	
	Quantity	Rounded	Lamella
35 x 0.20 mm	100 meters	35083705	35084022
1330 x 35 x 0.20 mm	60 pieces	35091849	35091858
1510 x 35 x 0.20 mm	50 pieces	35091851	35091860
1530 x 35 x 0.20 mm	50 pieces	35091852	35091861
1710 x 35 x 0.20 mm	40 pieces	35105004	35105010
1730 x 35 x 0.20 mm	40 pieces	35091853	35091862

#### 35 x 0.25 mm

Quantity	Material number			
Quantity	Rounded	Lamella		
100 meters	35091612	35091613		
60 pieces	35091854	35091863		
50 pieces	35091855	35091864		
50 pieces	35091856	35091865		
40 pieces	35105009	35105011		
40 pieces	35091857	35091866		
	60 pieces 50 pieces 50 pieces 40 pieces	Quantity Rounded   100 meters 35091612   60 pieces 35091854   50 pieces 35091855   50 pieces 35091856   40 pieces 35105009		

## 35 x 0.30 mm

Dimensions	Quantity	Material number	
	Quantity	Rounded Lamella	
35 x 0.30 mm	50 meters	35083707	35084023

# **W&H DOCTOR BLADES** WITH CERAMIC COATING

The solution for long runtimes and abrasive inks



#### Why a ceramic coated doctor blade?

The ceramic coated doctor blades are characterized by a very high wear resistance. They are therefore particularly suitable for the use of abrasive inks such as white, silver or gold. They can also be used for both solvent based and water based ink systems. With their homogeneous surface, they ensure consistently high printing quality.

## Your advantages

- Very long lifetime
- For abrasive inks
- For solvent based and water based inks
- Reduced downtime
- High printing quality
- Reduced waste

# **Product overview**

#### 35 x 0.15 mm

Dimensions	Quantity	Material number	
	Quantity	Rounded Lamella	
35 x 0.15 mm	100 meters	35084024	35084040

#### 35 x 0.20 mm

Dimensions	Quantity	Material	number
	Quantity	Rounded	Lamella
35 x 0.20 mm	100 meters	35084037	35084053
1330 x 35 x 0.20 mm	60 pieces	35091867	35091877
1510 x 35 x 0.20 mm	50 pieces	35091869	35091880
1530 x 35 x 0.20 mm	50 pieces	35091870	35091881
1710 x 35 x 0.20 mm	40 pieces	35105012	35105014
1730 x 35 x 0.20 mm	40 pieces	35091871	35091891

#### 35 x 0.25 mm

Dimensions	Quantity	Material number	
	Quantity	Rounded	Lamella
35 x 0.25 mm	100 meters	35091616	35091617
1330 x 35 x 0.25 mm	60 pieces	35091873	35091893
1510 x 35 x 0.25 mm	50 pieces	35091874	35091894
1530 x 35 x 0.25 mm	50 pieces	35091875	35091896
1710 x 35 x 0.25 mm	40 pieces	35105013	35105015
1730 x 35 x 0.25 mm	40 pieces	35091876	35091897

## 35 x 0.30 mm

Dimensions Q	Quantity	Material number	
	Quantity	Rounded Lamella	
35 x 0.30 mm	50 meters	35084038	35084054

## Abrasive inks

Abrasive inks have a high proportion of insoluble particles. They therefore cause particularly high wear on the doctor blade. In addition, coarse anilox rollers are often used for abrasive inks, which further increase wear. Therefore, we recommend the use of durable ceramic-coated doctor blades for abrasive inks.

# **W&H DOCTOR BLADES** MADE OF STAINLESS STEEL

The solution for water based inks



# **Product overview**

#### 35 x 0.15 mm

Dimensions	Quantity	Material number		
	Quantity	Rounded	Lamella	
35 x 0.15 mm	100 meters	35084055	35083810	

## 35 x 0.20 mm

Dimensions	Quantity	Material	number
Dimensions	Quantity	Rounded	Lamella
35 x 0.20 mm	100 meters	35084068	35083807
1330 x 35 x 0.20 mm	60 pieces	35091898	35091909
1510 x 35 x 0.20 mm	50 pieces	35091899	35091910
1530 x 35 x 0.20 mm	50 pieces	35091901	35091911
1710 x 35 x 0.20 mm	40 pieces	35105016	35105018
1730 x 35 x 0.20 mm	40 pieces	35091902	35091912

#### 35 x 0.25 mm

Dimensions	Quantity	Material	number
Dimensions	Quantity	Rounded	Lamella
35 x 0.25 mm	100 meters	35091618	35091620
1330 x 35 x 0.25 mm	60 pieces	35091904	35091913
1510 x 35 x 0.25 mm	50 pieces	35091905	35091914
1530 x 35 x 0.25 mm	50 pieces	35091907	35091915
1710 x 35 x 0.25 mm	40 pieces	35105017	35105019
1730 x 35 x 0.25 mm	40 pieces	35091908	35091917

## 35 x 0.30 mm

Dimensions	Quantity	Material	number
	Quantity	Rounded	Lamella
35 x 0.30 mm	50 meters	35084069	35083808

## Why a stainless steel doctor blade?

The stainless steel doctor blades are the optimal solution for the use of water based inks. With their special steel quality, they prevent corrosion and ensure consistently high printing quality even over long runtimes. In addition, they are also suitable for the use of aggressive inks with extreme pH values and guarantee clean ink application.

## Your advantages



# W&H Doctor Blade Chamber Seals for MIRAFLEX, MIRAFLEX", VISTAFLEX CL and VISTAFLEX" L

# **W&H DOCTOR BLADE CHAMBER SEALS**

High-quality doctor blade chamber seals specially developed for W&H machines



# For anilox rollers with 159 mm and 200 mm diameter

		•	•		•	
	CSL 350	CSS 600	CSC 800	CSE 1000 S	CSE 1000 H	CSF 600
Material number	30103442	30108856	30302468	30357151	30304040	30108130
Inking system	Solvent based	Solvent based	Solvent based	Solvent based Water based	Solvent based Water based	Water based
Maximum speed	350 m/min	600 m/min	800 m/min	1000 m/min	1000 m/min	600 m/min
Sliding property	•0000	•••00	$\bullet \bullet \bullet \bullet \bullet \circ$	•••••	•••••	$\bullet \bullet \bullet \circ \circ$
Lifetime	••000	$\bullet \bullet \bullet \circ \circ \circ$	$\bullet \bullet \bullet \bullet \circ$	••••	••••	•••00
Elasticity	••••	••••	•••00	$\bullet \bullet \bullet \bullet \circ$	•0000	•0000

## Why W&H Doctor Blade Chamber Seals?

For optimum printing results it is essential to adapt the consumables to the printing press and the requirements of the printing process. The doctor blade chamber seals in particular have a significant impact on the efficient operation of the color decks.

Original doctor blade chamber seals from Windmöller & Hölscher are manufactured with the highest precision and are specially developed for use on our high-quality flexo printing presses. We use only qualified and high-performance materials, which also ensure the high requirements for mechanical explosion protection. This ensures safe operation of your printing press and, at the same time, optimum ink application without leakage. And that even at high printing speeds and long runtimes.

Our consumables portfolio includes a wide range of end seals for various applications. This way, you are optimally equipped for all challenges in your daily production. Our product range includes not only seals for the current W&H machine portfolio, but also for older printing presses.

## Your advantages

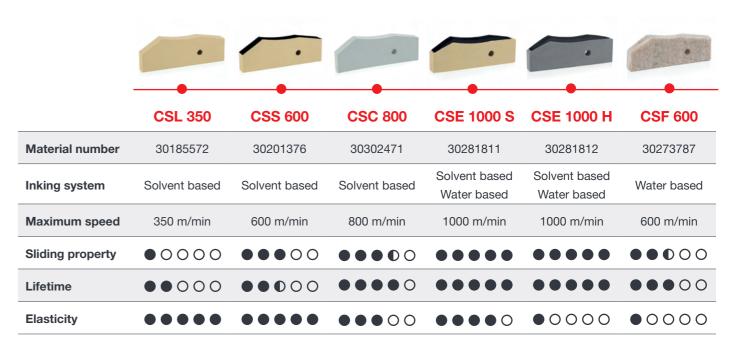
- Preventive explosion protection
- Optimally matched to W&H printing presses
- Increased stability of the doctor blade chambers
- Prevention of leakages
- High-quality seals for various applications
- Increased uptime and productivity
- Individual advice

The seals provided by W&H are of high quality. They ensure high performance with remarkable sealing capability. We also appreciate the qualified technical support and continuous help of the W&H team.

> Mohamed Taghian **Electrical Maintenance Engineer** Coveris Flexibles Egypt Limited

# W&H Doctor Blade Chamber Seals for VISTAFLEX CX and VISTAFLEX" X

For anilox rollers with 250 mm diameter



# W&H Doctor Blade Chamber Seals for ALPHAFLEX and NOVOFLEX"

For anilox rollers with 159 mm and 200 mm diameter for printing with air supply

_		e	e	
	TURBOSEAL CSL 600	TURBOSEAL CSC 800	TURBOSEAL CSE 1000 S	TURBOSEAL CSF 600
Material number	30270211	30326380	30294174	30292046
Inking system	Solvent based Water based	Solvent based Water based	Solvent based Water based	Water based
Maximum speed	600 m/min	800 m/min	1000 m/min	600 m/min
Sliding property			••••	
Lifetime				$\bullet \bullet \bullet \bullet \circ \circ$
Elasticity	••••			•0000

# W&H Doctor Blade Chamber Seals for ALPHAFLEX and NOVOFLEX"

For anilox rollers with 159 mm and 200 mm diameter for printing without air supply

	a l	e	e	e
_	CSL 350	CSC 800	CSE 1000 S	CSF 600
Material number	30341386	30354312	30354311	30354310
Inking system	Solvent based	Solvent based	Solvent based Water based	Water based
Maximum speed	350 m/min	800 m/min	1000 m/min	600 m/min
Sliding property	•0000	$\bullet \bullet \bullet \bullet \circ \circ$	••••	$\bullet \bullet \bullet \circ \circ$
Lifetime	••000		••••	
Elasticity	••••			•0000

# W&H Doctor Blade Chamber Seals for NOVOFLEX C

For anilox rollers with 178 mm and 200 mm diameter and asymmetrical chamber profiles\*

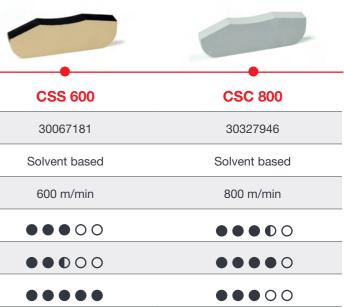
CSL 350
30008282
Solvent based
350 m/min
•0000
••000
••••

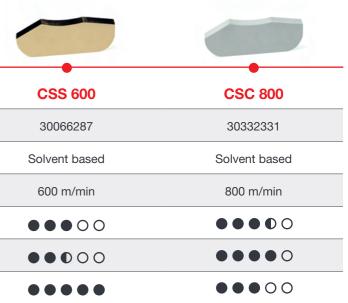
for NOVOFLEX C series presses with new doctor blade chamber, the MIRAFLEX and VISTAFLEX CL series chamber seals can be used.

# W&H Doctor Blade Chamber Seals for ASTRAFLEX, **NOVOFLEX X and PRIMAFLEX**

For anilox rollers with 178 mm and 200 mm diameter and asymmetrical chamber profiles

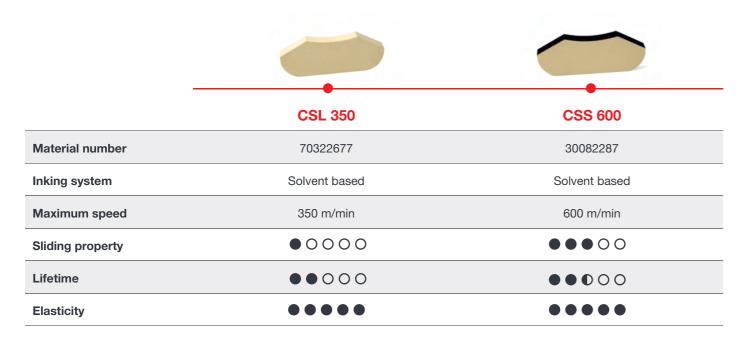
	CSL 350	
Material number	70322679	
Inking system	Solvent based	
Maximum speed	350 m/min	
Sliding property	•••••	
Lifetime	$\bullet \bullet \circ \circ \circ$	
Elasticity	••••	





# W&H Doctor Blade Chamber Seals for ASTRAFLEX

For anilox rollers with 178 mm diameter and symmetrical chamber profiles



# **CONSUMABLES RECOMMENDATIONS**

# MIRAFLEX, MIRAFLEX", VISTAFLEX CL, VISTAFLEX" L



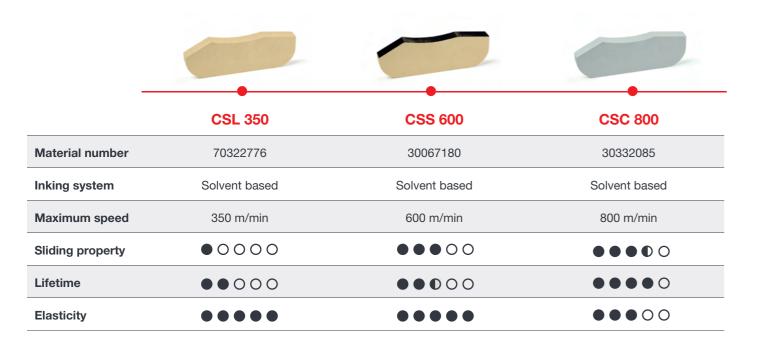
# VISTAFLEX CX and VISTAFLEX" X



**Doctor Blade Chamber Seals** 

# W&H Doctor Blade Chamber Seals for ASTRAFLEX

For anilox rollers with 220 mm diameter and asymmetrical chamber profiles



# NOVOFLEX"



# **ALPHAFLEX**



\*Note the information on page 13 regarding the choice of seals for production with or without air supply

Solvent based inks

Water based inks

CSF 600

Abrasive inks

CSE 1000 S

CSC 800

Premium carbon steel 35 x 0.25 mm rounded

Stainless steel 35 x 0.25 mm rounded

Ceramic 35 x 0.25 mm rounded

Solvent based inks	Water based inks	Abrasive inks
CSE 1000 H	CSF 600	CSE 1000 H
Premium carbon steel 35 x 0.25 mm rounded	Stainless steel 35 x 0.25 mm rounded	Ceramic 35 x 0.25 mm rounded

Solvent based inks	Water based inks	Abrasive inks
TURBOSEAL CSC 800	TURBOSEAL CSF 600	TURBOSEAL CSE 1000 S
Premium carbon steel 35 x 0.20 mm rounded	Stainless steel 35 x 0.25 mm rounded	Ceramic 35 x 0.25 mm rounded

Solvent based inks	Water based inks	Abrasive inks
CSC 800	CSF 600	CSE 1000 S
Premium carbon steel 35 x 0.20 mm rounded	Stainless steel 35 x 0.25 mm rounded	Ceramic 35 x 0.25 mm rounded
without air supply.		



a free test package for your W&H flexo printing press.

We will be happy to advise you individually on selecting the optimum solution.

( cons

consumables@wuh-group.com

WINDMÖLLER & HÖLSCHER

