

THE NEW GOLDSTAR DOCTOR BLADE EXCLUSIVELY MADE FOR FLEXO PRINTING APPLICATIONS

MDC® Doctor Blades

Daetwyler SwissTec continuously strives to develop specialized doctor blades for both the rotogravure and flexographic printing industry. Through extensive lab and field research, we are able to put the best tools in the pressman's hands to address specific printing problems. | Increasing operational costs require printers to limit downtime and reduce the need for doctor blade changes. These needed blade changes may be a result of abrasive inks and coatings, longer press runs or limited changes associated with six-color process inks. | The **GOLDSTAR** doctor blade addresses these needs by combining extraordinary durability with a smooth and rounded, coated edge. It has a low co-efficient of friction and the corrosion resistant coating has a self-lubricating effect which adds to its long lasting properties.



GOLDSTAR



Rounded Edge

Blade Thickness

0.20 mm (0.008")

0.25 mm (0.010")

0.30 mm (0.012")

DOCTOR BLADES

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The **GOLDSTAR** doctor blade is manufactured using a specialized coating designed to reduce wear and friction at its contact point. This reduction in friction has proven to lower the amount of drag on the anilox roller reducing wear as well as providing an energy savings when compared to drag created by other coated and non-coated doctor blades. This slow wearing coating also maintains a sharp wiping edge which is needed to provide the cleanest wipe for the highest quality process printing. **This design results in:** Higher durability and substantially longer blade life | Consistent high print quality | Longer anilox life | Corrosion resistance | Lower power consumption and energy savings.



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THE NEW BLUESTAR DOCTOR BLADE FOR GRAVURE PACKAGING AND ILLUSTRATION PRINTING APPLICATIONS.



MDC® Doctor Blades Since the successful launch of the standard lamella blade in 1974, Daetwyler SwissTec has been driven to develop a variety of specialized coated and uncoated doctor blades for the Rotogravure and the Flexography printing industry, such as the coated Longlife blade. | Increasing operational costs requires printers to address cylinder issues such as inferior ends and inaccurate finishes during press runs. Downtime must be limited and the pressman can no longer afford the luxury of returning the cylinder to the manufacturer for changes. | Daetwyler SwissTec now has developed the new **BLUESTAR** doctor blade specifically created to compensate for cylinder inaccuracies, which can create printability issues such as dragouts, hazing and broken doctor blades from bad cylinder ends.

BLUESTAR



Edge 60 µm, Bevel Angle 3°

Bevel Width	Blade Thickness
1.7 mm	0.15 mm (0.006")
2.7 mm	0.20 mm (0.008")
3.6 mm	0.25 mm (0.010")

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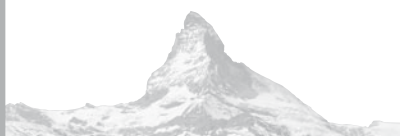
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The blade tip is manufactured using a specialized process designed to promote stability and reduce wear at the contact point. This thin 60-micron tip increases only slowly and proportionally to the 3° angle. This flat beveled edge increases stability and reduces tip deflection caused by high blade pressure and fast press speeds. | **This results in:** Lower blade pressure and blade wear | Eliminating blade breakage due to high cylinder ends | Eliminating dragouts | Longer blade life | Sharp blade edge to eliminate hazing | Less waste and reduced downtime.



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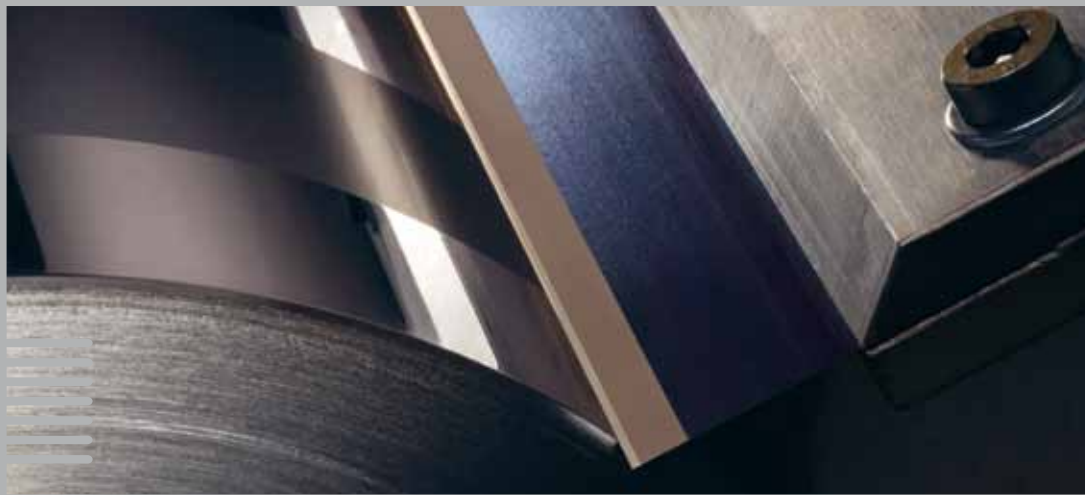


THE LONGLIFE DOCTOR BLADE – THE FIRST CHOICE FOR FIGHTING PRINT DEFECTS!



MDC® Doctor Blades Today many different factors contribute to various quality issues printers face. This causes printers to deviate from standard doctor blades settings in order to achieve acceptable results. This deviation makes desired results harder to maintain and even harder to reproduce. | Daetwyler SwissTec manufactures a wide variety of doctor blades to accommodate the different press, substrate and ink types used, which allow printers to stay within standard settings in order to achieve desired results. When Daetwyler introduced the **LONGLIFE** doctor blade many years ago, a new standard was set for ink metering in Gravure printing and coating. These standards are still used today to measure and compare the performance of other coated blades industry wide.

LONGLIFE



Rounded Edge Available

Bevel Angle	10°/20°/30°
Blade Thickness	0.15–0.30 mm (0.006"–0.012")
Tip Thickness	0.070–0.250 mm
Tip Width	0.8/1.0/1.3/1.7 mm



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The **LONGLIFE** doctor blade has a hardened coating that reduces friction coefficients and extends blade life. This coating plays a key role in preventing printing defects such as toning (hazing), streaking, drag-outs, bleeding, cylinder banding and chrome wear. It provides clean doctoring, increases blade and cylinder life and is corrosion-resistant. Because of its excellent performance, our customers see significant reductions in press delays and waste and in turn provide their customers with a higher quality product. | **This design results in:** Reduced drag-outs | Increased blade life | Increased cylinder life | Reduced downtime | Reduced print waste.



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THE ULTRALIFE DOCTOR BLADE – ADVANCED TECHNOLOGY FOR GRAVURE PRINTING APPLICATIONS

MDC® Doctor Blades

The PLGA award winning **ULTRALIFE** doctor blade was developed by Daetwyler for Gravure printing applications to reduce printing defects such as streaking and hazing, which are common occurrences in the pressroom. The special design and coating process of this new blade makes this an outstanding tool to eliminate printing faults. The coating on this doctor blade has been proven to be especially successful for use in Gravure flexible packaging applications, including printing on film and foil. This blade is also recommended for printing cigarette packaging on paper or carton stock and can be used for any type of inks and coatings.



ULTRALIFE



Rounded Edge Available

Bevel Angle	10°/20°/30°
Blade Thickness	0.15–0.30 mm (0.006"–0.012")
Tip Thickness	0.070–0.250 mm
Tip Width	0.8 / 1.0 / 1.3 / 1.7 mm



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This **ULTRALIFE** is specially made to help to eliminate drag-outs, streaking, including start-up streaks and any streaks that may appear during a continuous run. Hazing is reduced or virtually eliminated. Suited for runs of any length, but especially for short to mid-range runs, this unique doctor blade enhances cylinder life due to smooth and consistent wearing characteristics. Less press downtime and fewer blade changes are additional benefits when using this doctor blade. | **This design results in:** Reduced hazing | Virtual elimination of drag-outs | Less streaking of any kind | Longer blade life | Less press downtime | Reduced chrome wear



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THE STANDARD DOCTOR BLADE – THE BENCHMARK FOR THE PRINTING INDUSTRY

MDC® Doctor Blades Beginning of the seventies, Daetwyler developed a completely unique doctor blade with a consistent blade tip, the **STANDARD** blade. This revolutionary doctor blade has set new worldwide standards in the printing industry that are still the benchmark in doctor blade technology today. | The entire Daetwyler SwissTec doctor blade product line has been built on this success and it has been steadily refined to meet the customer's changing needs. This award winning doctor blade, which is made of superior carbon steel, has a specially designed tip configuration (lamella) with a uniform thickness. As the consistent tip wears during the printing process, the contact area remains unchanged throughout the entire life of the blade. Therefore no changes in tonal value or gradation occur due to wear.



STANDARD



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The Lamella tip of the **STANDARD** doctor blade is used in a variety of Gravure and Flexo printing processes, and related doctor blade applications. The special finished contact zones of these doctor blades guarantee a quick start-up without any streaks. With the reduced blade tip the doctor blade pressure can be greatly lowered. This enhances blade life and has a direct and positive impact on cylinder or Anilox roller life. | **This unique design results in:** Even and sharp doctoring due to consistent tip thickness. | Consistent tonal values as blade wears. | Quick start-up without print lines due to special polished blade edge. | Less Doctor Blade changes | Less press down time



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SwissTec AG



THE SOFT DOCTOR BLADE – THE PERFECT SOLUTION TO ELIMINATE SCORE LINES



MDC® Doctor Blades For decades Daetwyler has been the leader in innovation for doctor blades. During this time many of the Daetwyler products have set new standards in the printing industry. One of these unique and well-established products is the innovative **SOFT** Doctor Blade. This blade is made of carbon doctor blade steel with a corrosion-resistant coating. Today the **SOFT** Doctor Blade is being used successfully in many different applications and is well established in Flexo and Gravure printing. For many years this blade has been used with high-corrosive inks for the gravure industry. Daetwyler felt that it also made sense to introduce this coated blade into Flexo to help improving this printing process as well.

SOFT



Rounded Edge Available

Bevel Angle	10°/20°/30°/60°
Blade Thickness	0.15–0.40 mm (0.006"–0.016")
Tip Thickness	0.065–0.300 mm
Tip Width	0.8/1.0/1.3/1.7 mm

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The softer, gentler point of contact has resulted in a significant reduction of score lines for Flexo printers. In Gravure printing this blade with its self-repairing feature has greatly reduced streaks and hazing. The corrosion-resistant properties of this blade are beneficial to use with high pH water-based inks, coatings and lacquers and protect the contact zone from oxidation. During operation, the coating flows into the contact zone and can cover small damages to the blade edge caused by contamination in the ink. | **This design results in:** Greatly reduced score lines | Smooth blade edge | Reduced hazing | Decreased streaking | Corrosion resistance.



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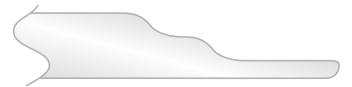
THE ONE-STEP DOCTOR BLADE – A UNIQUE DESIGN FOR CHALLENGING PROBLEM SOLVING

MDC® Doctor Blades

Over decades Daetwyler SwissTec has strived to meet printers need in both Gravure and Flexography printing. As most of our products are made for specific applications and eliminating specific print faults, the **ONE-STEP** blade is a doctor blade introduced for multiple purposes. With its integrated back-up blade this doctor blade helps the printer to reduce expensive set-up time and allows for straight mounting into the blade holder without deviations while maintaining the same quality and characteristics of the MDC lamella edge. The design of this product provides additional blade thicknesses for strength to minimize deflection. As a result perfect metering is achieved in both Gravure and Flexo even with high viscous inks.



ONE-STEP



Other dimensions available upon request

Blade Thickness	0.25/0.30 mm (0.010"/0.012")
Tip Thickness	0.200/0.075/0.095/0.125 mm (0.008"/0.003"/0.004"/0.005")
Tip Width	4.0 / 1.3 / 1.7 mm 0.158"/0.051"/0.067"

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The one piece construction eliminates the need for a backup blade and allows for straight mounting without deviation. The rigid design allows thicker ink to meter normally while maintain a clean, sharp wipe. The strengthened blade decreases blade flex, creating consistent ink film metering without an ink hydroplaning effect behind the blade. In gravure this helps to maintain a consistent angle which controls hazing and in flexo, this eliminates or substantially lessens UV ink spitting. | **This design results in:** Greatly reduced UV ink spitting | Easier and faster setup time | Straight mounting without deviations | Perfect ink metering with high viscous inks.



Daetwyler
SwissTec AG



THE FLEXOLIFE DOCTOR BLADE – THE PERFECT CHOICE FOR FLEXO APPLICATIONS

MDC® Doctor Blades Since the successful launch of the standard lamella blade Daetwyler has been driven to develop a variety of special coated and uncoated doctor blades for the Rotogravure and the Flexography printing industry, such as the coated Longlife blade. The demands for printing products have been increasing steadily for the last few years. With the ongoing research and development efforts Daetwyler SwissTec is now able to provide a new High End solution to the Flexo printing industry. | The **FLEXOLIFE** doctor blade is specifically designed for high speed printing for best ink release. | Use the advantage of the **FLEXOLIFE** on solvent based, UV-based, as well as water based ink systems. | Made of high quality steel this blade is suitable to be used on all anilox rollers.



FLEXOLIFE



Rounded Edge

Blade Thickness

0.15 mm (0.006")

0.20 mm (0.008")

0.25 mm (0.010")

0.30 mm (0.012")



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The **FLEXOLIFE** is made of high-grade carbon steel and this product is manufactured in Switzerland under strict ISO 9001 Certification standards. The blade's radius edge is designed and tailored for particular printing requirements in all kind of Flexo applications such as Flexible Packaging, coating and corrugated printing. This new product will perform well with old and new printing press technology. | **This design results in:** Lower blade wear | Less waste and reduced downtime | Clear and sharp printing results | Optimized ink release | Reduced anilox roll wear.



Daetwyler
SwissTec AG



THE STAINLESS STEEL DOCTOR BLADE – THE PERFECT SOLUTION FOR CORROSIVE INKS AND COATINGS



MDC® Doctor Blades Based on the success of the award-winning high quality, carbon steel Lamella doctor blade, Daetwyler has extended its product range with the **STAINLESS** doctor blade. This blade has the same benefits as the carbon-based Lamella blade, like specially designed tip configurations engineered to provide even doctoring and optimum control of tonal values and ink film thicknesses. The **STAINLESS** doctor blade is used for corrosive inks and coatings in a variety of printing processes and related doctor blade applications. This product is well suited for water based inks, coatings and lacquers to prevent excessive blade wear due to corrosion.

STAINLESS



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The **STAINLESS** doctor blade is typically used in water base printing and coating applications with high pH levels. The corrosion resistant make-up and the special finished contact zones of these doctor blades guarantee a trouble free print run. No corrosion and therefore no defects occur on the blade edges. As a result streaks and/or score lines are reduced or even eliminated. The increased blade life results in less blade changes and a noticeable decrease in down time. | **This design results in:** Corrosion resistance | Greatly reduced score lines | Smooth blade edge | Decreased streaking | Reduced downtime | Extended Doctor Blade life

Bevel Angle	10°/20°/30°/60°
Blade Thickness	0.15–0.30 mm (0.006"–0.012")
Tip Thickness	0.055–0.250 mm
Tip Width	0.8/1.0/1.3/1.7 mm



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MDC STABLEFLEX FOCUSES ON CHATTER PROBLEMS

MDC® Doctor Blades Chatter marks visible in the final print are a common problem for Flexo printers, especially when operating older, geared presses or newer sleeved presses running at higher speeds. This typically results in slower press speeds, increased waste, and excessive use of doctor blades and end seals. | Printers have manipulated inks, plates, sticky backs, as well as the anilox engravings in attempts to solve this problem. Through research and development, Daetwyler has developed the **STABLEFLEX**, a precision doctor blade that substantially reduces or eliminates chatter, allowing the press to run at maximum speeds. Today the positive results from using the **STABLEFLEX** doctor blade are making an impact in the Flexo printing industry.



STABLEFLEX





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The **STABLEFLEX** has a long and flexible lamella with a highly polished edge. This tip configuration allows the blade to absorb the vibrations or the bounce of the anilox roll when running at higher speeds giving a more precise ink metering. Doctor blade chatter marks are virtually eliminated and the ink film is transferred smoothly from the Anilox roller to the printing plate, resulting in a better print quality and less waste. | **This design results in:** Eliminated chatter marks | Allow deflection to compensate for the occurring vibration | More blade stability | Maintain a small contact point | Provide a cleaner wipe

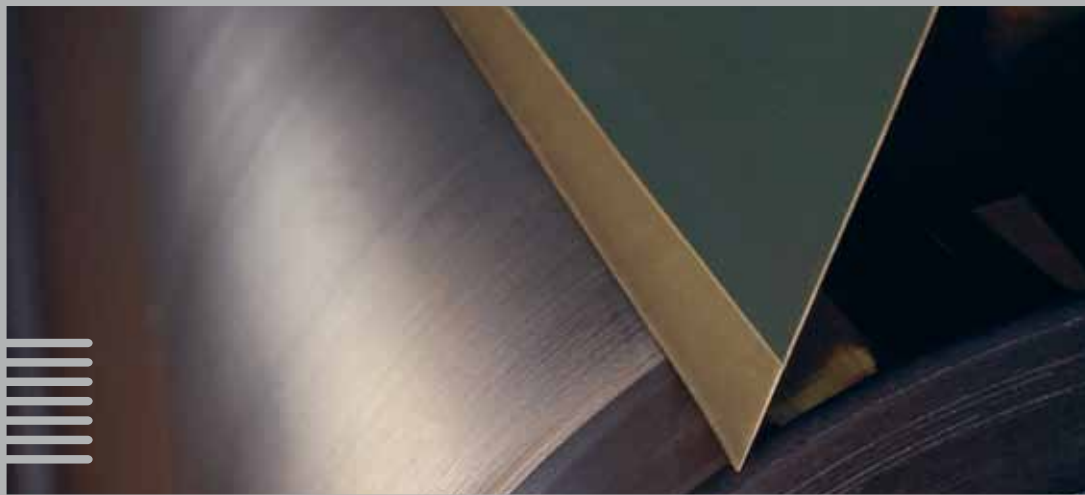
Blade Thickness	0.25 mm (0.010")
Tip Thickness	0.177 mm
Tip Width	3.0 mm

THE STARLIFE DOCTOR BLADE – THE RIGHT CHOICE FOR FLEXO APPLICATIONS.



MDC® Doctor Blades The coated **STARLIFE** doctor blade was especially developed to extend blade life in Flexo applications. The **STARLIFE** allows reducing downtime on long runs, especially when used in coating applications with high, abrasive pigment loads. Coatings and inks used for barrier coatings and/or high opacity are most often used through repeated press runs. With shorter runs being predominant, make-readies must be quick and efficient. In order to achieve this, the necessity for doctor blade changes must be minimized. The longevity of the **STARLIFE** doctor blade is therefore the blade of choice for this printing application.

STARLIFE



Rounded Edge

Blade Thickness

0.20 mm (0.008")

0.25 mm (0.010")

0.30 mm (0.012")



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The rounded and smooth edge of the **STARLIFE** doctor blade provides a long lasting and clean wipe through-out multiple print runs. Downtime is reduced greatly while maintaining a consistent print quality. Costly anilox wear on wide web presses is virtually eliminated. This blade's unique coating decreases friction coefficient and therefore enhances blade life and lowers anilox roller wear. | **This design results in:** Resistance to wear when wiping abrasive inks, such as Titanium Dioxide white inks | Decreased friction coefficients | Lowering blade and anilox wear | Maintaining a smooth edge and providing a long-lasting, clean sharp wipe | Reduced costly downtime.



Daetwyler
SwissTec AG



DURALIFE – EXCLUSIVELY DEVELOPED FOR FLEXOGRAPHIC PRINTING

MDC® Doctor Blades

The **DURALIFE** coated doctor blade was developed for Flexographic printing applications to reduce score lines and to enhance blade and Anilox roller life. The special design and coating process of this new blade was developed specifically to use with ceramic Anilox surfaces. With this hardened coated blade, which has a thin, reduced tip, it's now possible to get longer blade life without sacrificing printing quality. The coating on this blade has been successfully tested in Flexo applications, including printing with pearlescent and other abrasive inks, such as TiO₂ (titanium dioxide). These coated doctor blades have been proven to last longer than other coated blades used in the Flexo industry.



DURALIFE



Rounded Edge Available

Bevel Angle	10°/30°
Blade Thickness	0.15–0.30 mm (0.006"–0.012")
Tip Thickness	0.075–0.150 mm
Tip Width	1.3/1.7 mm

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The **DURALIFE** doctor blade tip wears more slowly and consistent, which makes this blade well suited for long runs. It was specifically designed for Flexo printing requirements to reduce score lines, to protect the anilox roller and to give longer roller and blade life resulting in less press downtime and fewer blade changes. This doctor blade is very suitable for use with abrasive inks like Titanium Dioxide white, metallic or pearlescent inks. | **This design results in:** Constant print quality | Maintaining a sharp and clean wipe | Reduced score lines | Less waste and reduced downtime | Substantially longer blade life | Extended Anilox roller life



Daetwyler
SwissTec AG



THIS BLADE OFFERS STABLE SUPPORT FOR A FLAWLESS DOCTOR BLADE APPLICATION



MDC® Doctor Blades The quality of the steel and the precision in the manufacturing process greatly influence the print quality. A **SUPPORTING BLADE** is being used if the pressure on the working Doctor Blade is too high or the clamping of the Doctor Blade is not ideal. Key is to avoid any deflection in the Doctor Blade to achieve an even and consistent contact area. The **SUPPORTING BLADE** should give the Doctor Blade the needed stability. This will also aid in eliminating waviness in the wiping Doctor Blade. This Doctor Blade is putting high standards on the steel preparation in order to guarantee precise ink metering.

SUPPORTING BLADE



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Material thickness

Standard steel	0.15–0.50 mm (0.006"–0.020")
Stainless steel	0.15–0.30 mm (0.006"–0.012")

other thicknesses upon request

This design results in the following advantages: Perfect straightness and stiffness assure consistent support of the wiping doctor blade | A base material of twice the thickness of the wiping blade guarantees the proper functionality of the **SUPPORTING BLADE** | For water-based applications **SUPPORTING BLADES** are available in stainless steel



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