

PrimeBlade

 SWEDEN

**THE SWEDISH
DOCTOR BLADE**



Our mission is to empower your printing process.

Facing today's high-speed, detail-rich printing demands is a great challenge, and we're here to ensure your success. Our focus?

The crucial doctor blades where printing excellence is forged, and brand expectations are met or exceeded.

Our R&D team, true industry champions, persistently pursue innovative materials and production methods, staying ahead of future trends.

This commitment to excellence, fueled by insights from industry interactions, pushes us to transform the printing process with comprehensive, top-tier solutions.

Our aim is clear: to facilitate a seamless, efficient production process, minimizing waste and maximizing team satisfaction, all while ensuring optimal profitability through strategic product selection.

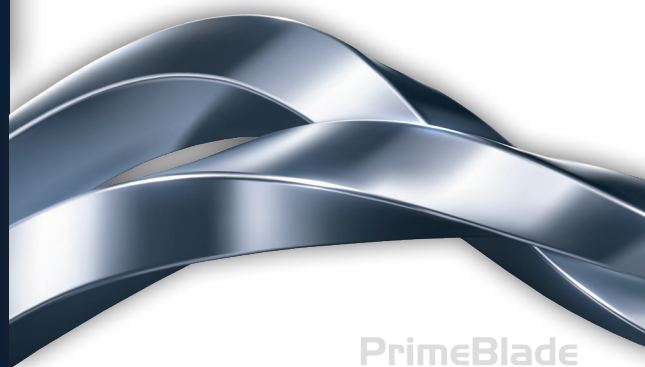
At PrimeBlade, it's not just about price; it's about cost-effective, enduring value. With unwavering dedication, we're ready to rise to your challenges, ensuring you're equipped to conquer yours. Together, let's redefine printing success.



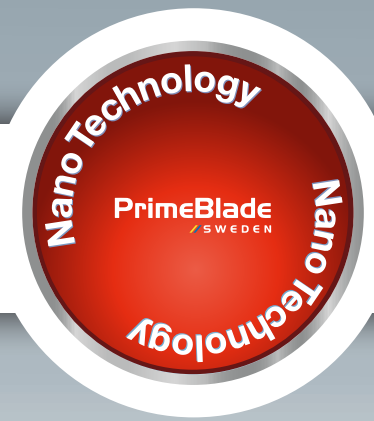
About PrimeBlade

PrimeBlade Sweden AB is a global manufacturer and supplier of Doctor Blades for flexo, gravure, offset printers, and coating applications.

Together with our Swedish raw material supplier and end users the doctor blade is produced to improve production quality, blade life, and to increase machine speeds.



Nano | Series



PrimeBlade Nano I

UNIQUELY TREATED
REFINED CARBON STEEL



PrimeBlade Nano II

UNIQUELY TREATED
STAINLESS STEEL



PrimeBlade Nano III

UNIQUELY TREATED
MICRO ALLOYED TOOL STEEL



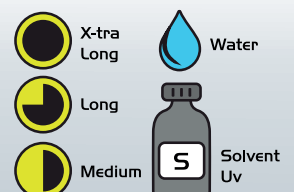
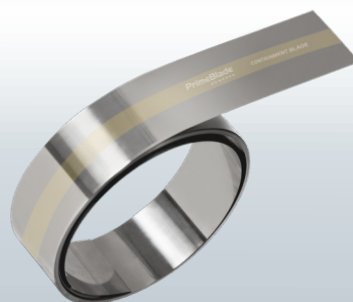
Innovation is key to development and growth. At PrimeBlade we take such truths to heart and proudly offer our world-class Nano series products. The Nano series is a unique range of doctor blades with enhanced properties, produced using our patented Nano treatment. The process induces changes in the steel that provide reduced wear and thus longer lifetime, as well as improved surface quality.

This is achieved in an environmentally friendly and safe process, free from the hazardous chemicals typically used for producing, e.g., coated blades. The Nano blade types have been tailored to meet the demands from our customers with regards to blade lifetime, print quality and ease of use. All this has been performed out of a printers perspective where productivity, satisfied partners, a worry-free working day, and profitability are in focus.

Mi-Rakel | Series

PrimeBlade Mi-Rakel

UNIQUELY TREATED
CONTIANTMENT BLADE



Want to know more about our X-tended concept: sales@primeblade.se

Original | Series

A series of doctor blades are precision engineered from advanced polymer materials. Mainly used as containment blades in chamber systems for flexographic printing and within the tissue and corrugated industry.

PrimeBlade

100

(Polymers)



Our basic high quality carbon steel blade, used at printing houses worldwide. Consists of genuine Swedish steel optimized for print quality and high press speed. Developed together with our raw material suppliers and end users.

PrimeBlade

300

(Carbon)



If blade corrosion is your main issue, then 400 is our answer, our most corrosion resistant doctor blade. The moderate carbon content, while high enough to allow for an appropriate hardening, allows for retention of chromium where it is most needed, i.e. for corrosion protection.

PrimeBlade

400

(Stainless)



Our standard martensitic stainless steel, with a medium-high carbon content and an optimized trade-off between hardness, abrasive wear resistance and corrosion resistance. Excellent performance for water-based inks. Very good corrosion resistance.

PrimeBlade

500

(Refined stainless)



Our finest Swedish carbon steel, with a high carbon content and excellent carbide particle microstructure. The microstructure has been refined by a small addition of chromium and by consecutively optimizing the heat treatment.

PrimeBlade

600

(Refined carbon)



When it comes to low- to medium-alloyed tool steels, 800 is as good as it gets. The microstructure of the steel consists of evenly distributed and very small carbide particles, originating from the molybdenum and vanadium additions, giving it an exceptional wear resistance and performance better than many alternatives.

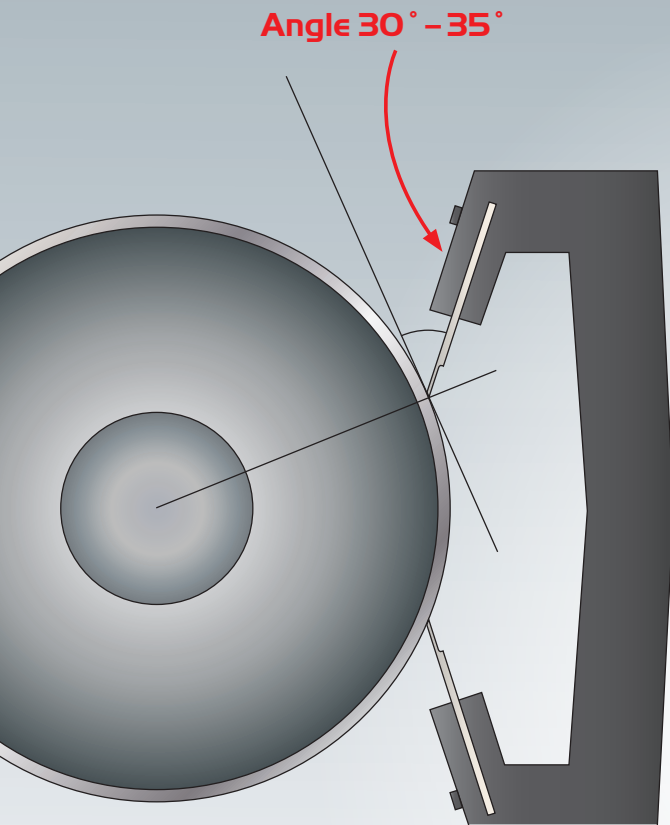
PrimeBlade

800

(Micro alloyed tool steel)



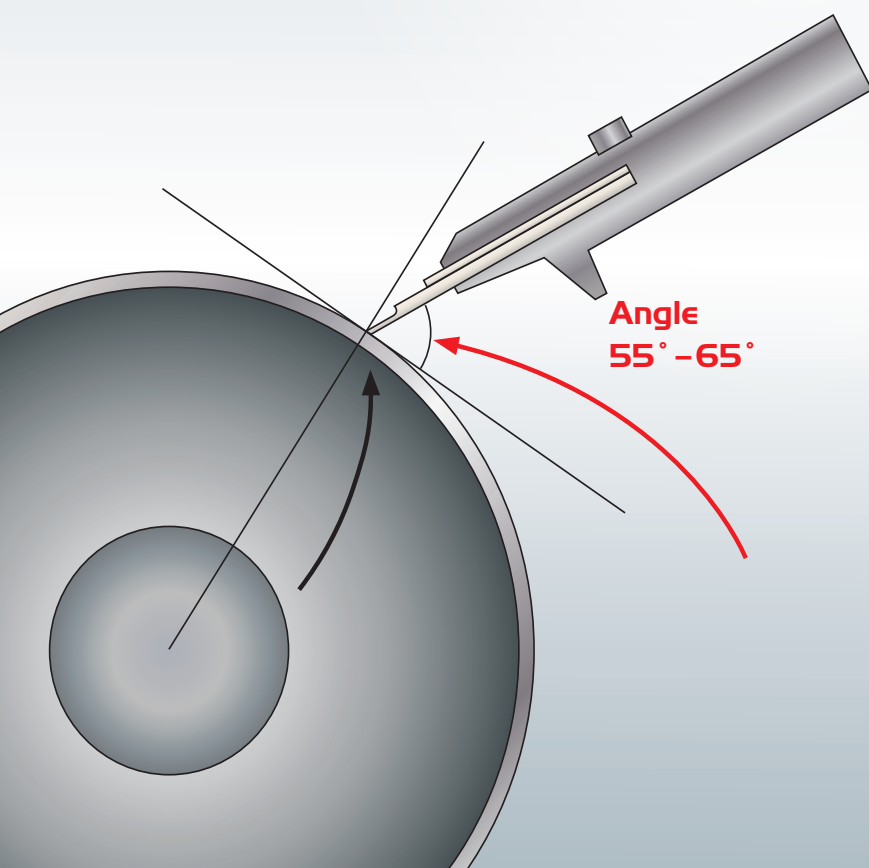
PrimeBlade | Settings



FLEXTOP CHAMBER SETTING

Make sure the doctor blade is mounted straight and that no waviness in the blade is observed.

Apply lowest chamber/holder pressure needed (less doctor blade flex and blade/anilox wear). Only press so chamber doesn't leak and doctor blade wipe correctly at production speed.



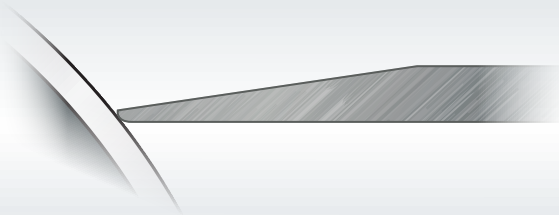
GRAVURE SETTINGS

Try to achieve a 55°-65° contact angle between doctor blade and cylinder (less doctor blade pressure is needed).

Use a blade pressure of 0,5-1,0 bar, increase more if there is no clean wipe, but try to use as low blade pressure as possible. (Less blade flex and blade/cylinder wear.)

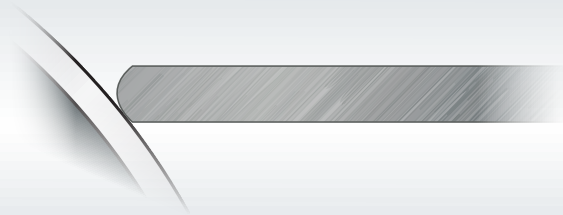
PrimeBlade | Profiles

PROFILE BEVEL



- Used in coating, gravure and flexo printing
- Wipes well up to the point that the contact zone becomes too large

PROFILE ROUND



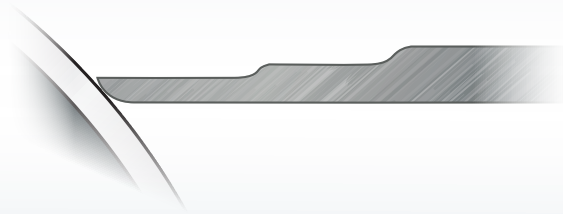
- Used in coating, gravure and flexo segments
- Polished radius ends for instant run
- Excellent seal against roller
- Double sided radius edge

PROFILE LAMELLA



- Most frequently used edge in coating, gravure, flexo and offset industry
- Constant contact area during wear
- Lower friction and wear against roller
- Standard dimension 1,3/0,07mm for gravure and 1,3/0,10mm For flexo 1,3/0,10mm, but trend is toward longer and thicker lamellas as 1,7/0,125mm.

PROFILE DUAL



- An alternative to the standard lamella or bevel edge, where the usage of a fine lamella edge in combination with stability of the dual profile can solve printing issues in the label printing process.
- Is available from thickness 0,25mm.

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Scan the QR-code to visit our
website for more information

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