

How to use the Swedcut Blade Calculator

The Web calculator is a value based selling tool exclusively available to Swedcut distributors here in the distributor log-in section on the Swedev website.

The Web calculator will show an approximate annual saving potential which can be obtained by using a more durable Swedcut blade. It is partly based on average values.

The preset is that a **doubled blade life** compared to the presently used doctor blade will be obtained. The prioritized color stations where we find the best potential for productivity improvement are the most abrasive inks, i.e. **white inks, metallic inks, lacquers** and **varnishes**.

The following customer specific inputs should be added in the Web calculator to obtain the **annual** approximate saving:

- 1) The blade specification of the presently used blade; **Blade brand, Blade size and Edge type**.
- 2) The blade price in **EUR/m** of the blade that is used at present since the web-calculator is set up in the EURO currency.
- 3) The maximum performance of this blade in total **meters** produced until it is worn out.
- 4) The speed of the printing press, **meters per minute**.
- 5) The efficient total number of **production hours** per day.

The Web calculator result is presented to the printer together with a free Swedcut test coil. Depending on what type of blade is currently being used, the substituting Swedcut blade could be a specification of MFP, MKG H7, H9 Plus or H40 Plus.

You can always contact Swedev for advice on test blade product specifications, availability and delivery time before you present a proposal to the printer.

EXAMPLE

A printer gave the following information about the white ink deck in one of its flexographic CI presses:

- 1) Blade specification: **MFlex I 40x0,15mm Lamella**
- 2) End user blade price: **2,60 EUR/m**
- 3) Maximum number of produced meters: **90 000m**
- 4) The printing press speed: **300m/min**.
- 5) Production hours per day: **15**

(In 3 shifts production the efficient production hours usually range between 14 and 18 hours)

CUSTOMER DATA	FLEXPRESS RESULTS
Customer Flexo XXX Ltd	FLEXPRESS LTD
Type of doctor blade used today MFlex I 40x0,15mm Lamella	Type of doctor blade used today: MFlex I 40x0,15mm Lamella Doctor blade price per meter: 2.6 €/m Printing press production speed: 300 m/min
Doctor blade price per meter 2,6 €/m	Maximum meters per blade (before change): 90000 meters Efficient production hours per day: 15 hours
Maximum meters per blade (before change) 90000 meters	ESTIMATED SAVINGS PER YEAR
Printing press production speed 300 m/min	28.000 €
Efficient production hours per day 15 hours	*Assuming doubled blade life with Swedcut® in abrasive color decks.
	Download PDF
	+90,000 m* Extra meters per blade
	50%* Fewer blade changes / less downtime
	* Estimated values

The Web calculator will in this case show a potential annual saving of 28 000 EURO based on less downtime and less scrap resulting from fewer blade changes exclusively in the white ink station. The printer would in this example be offered a test with MFlex Plus 40x0,25 mm Radius.

The Calculator can be applied to forecast potential savings in all color decks. A Swedcut blade upgrade in process colors should be combined with a matching Swedcut blade upgrade in the abrasive decks. Reaching a similar blade life performance in all decks will optimize productivity in the printing press.

Do not hesitate to contact Swedev if you would like to have more information.