



KONICA MINOLTA

# SIMITRI® HD

✍ Konica Minolta's proprietary toner technology

**Simitri® HD (High Definition) polymerised toner is reserved exclusively to Konica Minolta bizhub devices and guarantees excellent print quality at all times. Simitri® HD toner is one of the factors enabling Konica Minolta equipment to deliver outstanding results on an ongoing basis, satisfying even the most stringent customer demands.**

Konica Minolta is proud to be the industry leader in the production of polymerised toners. In addition to the outstanding image quality, Simitri® HD toner is environment-friendly. It helps in saving not only resources, but also cutting expenditure and reflecting the goals of corporate social responsibility policies. Due to the toner's characteristics, a broader range of media flexibility combined with a more resistant, higher durability output is achieved.

With these enhanced capabilities, Konica Minolta printer systems effectively reduce dependence on external printing services, adding up to cost savings without quality compromises. The capability to produce print products to a professional standard in-house has follow-on effects in terms of time saving, ease of use and enhanced productivity.





# BEST IMAGE QUALITY

The polymerisation process developed in-house at Konica Minolta is unique. It produces resin-based toner particles which are substantially smaller in size and with greater uniformity in both size and shape (higher sphericity) especially compared with conventional toner.

The tiny uniformly shaped toner particles ensure the excellent image output quality. Images produced have razor sharp edges and lines, have a smooth surface finish and are highly durable, offering unparalleled colour fastness. The colour spectrum of printers is extended thanks to the smoother dispersion of pigments.

The ability to produce professional, dependable, durable print products on a fast and daily basis is guaranteed to attract customers' attention over the short, medium and long term.

## Quality comparison

CONVENTIONAL TONER	Simitri® HD POLYMERISED TONER
	CLEAR DOTS
	SHARP LINES
	SHARP TEXT

# ENVIRONMENT-FRIENDLY

The entire production process is configured to be environment-compatible. The impact on the environment is reduced, for example, by the raw materials used in Simitri® HD production, including biomass as one of the ingredients.

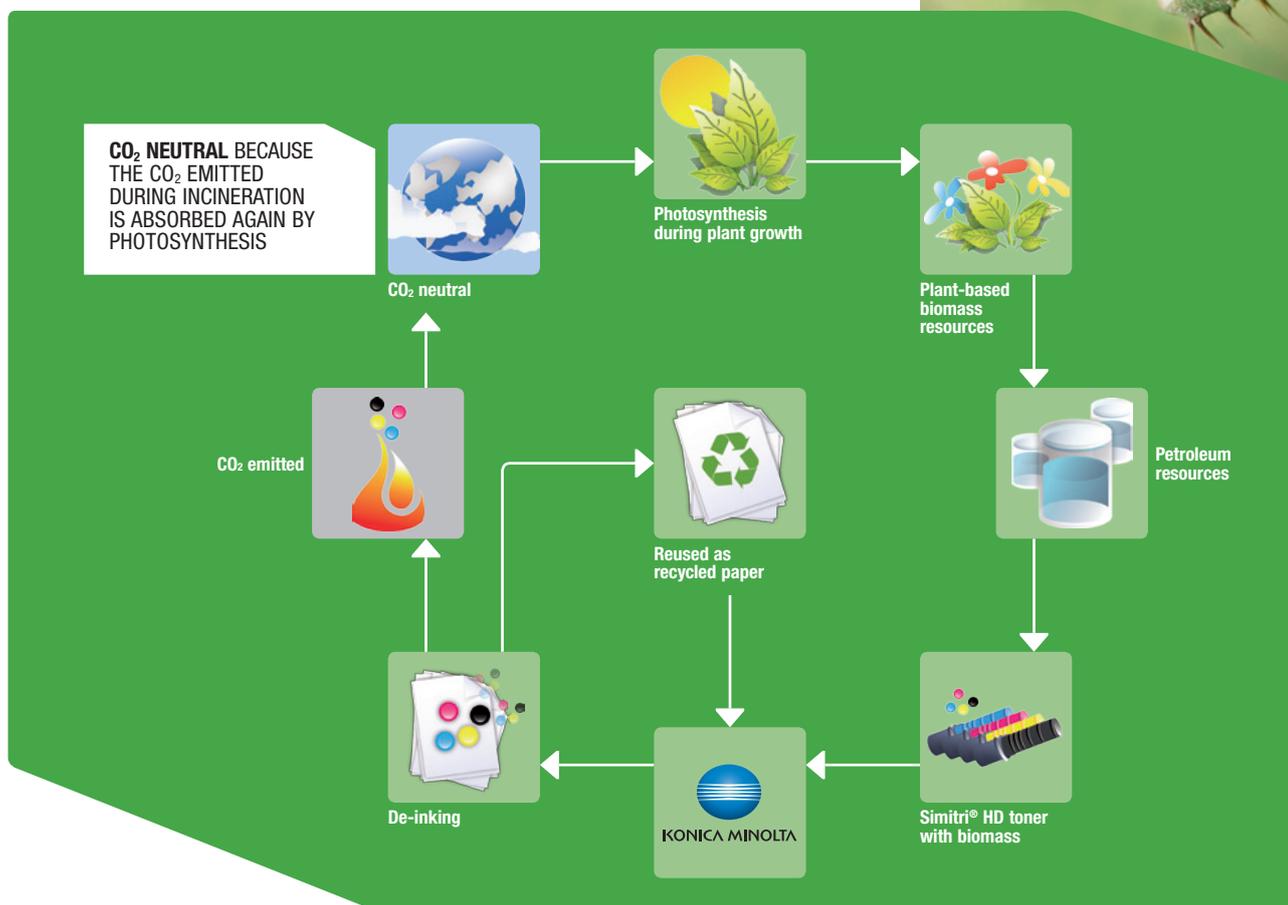
Biomass is a plant-based renewable organic resource, made up of various biological materials and exclusive of fossil fuels. This is nothing less than a key forward-looking development in a society increasingly aware of the carbon problem: the use of biomass not only helps reduce the carbon footprint, emissions of SO<sub>x</sub> and NO<sub>x</sub> are also down. The energy consumption is reduced during the production phase and represents a cumulative (approximate) 40% reduction in CO<sub>2</sub> emissions compared with standard pulverised toner production processes.

Another physical characteristic of the particles which make up Simitri® HD toner is the lower fusing temperature which is needed, and consequently reduced energy consumption of the device.

The aspect of de-inking is a further plus point: according to the International Association of the De-inking Industry (INGEDE) the de-inking process as practised during paper recycling is especially effective in the case of Simitri® HD polymerised toner.



## Green toner life cycle



# MEDIA FLEXIBILITY, HIGHER COLOUR FASTNESS AND DURABILITY

The lower temperature at which Simitri® HD toner fuses not only helps save energy, it also increases the range of materials which can be handled by the printer engine. It allows the printing of labels, envelopes, glossy papers and heavyweight papers.



The printed output is more durable and does not peel from the paper surface: paper can be folded without degrading print quality (not to be underestimated when printing corporate brochures which usually feature folded edges).

Simitri® HD polymerised toner is one of the few toners which does not contain oil. As a consequence, the output can be written on using various writing implements (ballpoint pens, felt tips etc.). This increases the flexibility because it means that the MFPs and printers can be used for printing all kinds of documents, even for example contracts and training materials which can then be signed or marked.

