



KONICA MINOLTA

The essentials of imaging

# It's Nice to Be Recognised: bizhub C650/C550 Win Japan's 2007 Energy Conservation Grand Prize.



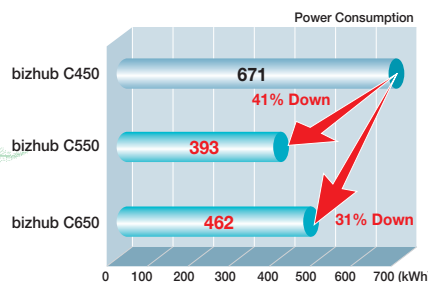
Konica Minolta has been granted the *Agency for Natural Resources and Energy Director-General's Award* by Japan's Ministry of Economy, Trade and Industry. This award highlights our products' outstanding energy efficiency and innovative environmental technologies.

The Energy Conservation Grand Prize is awarded to companies producing consumer machines and systems that exhibit superior performance in saving energy and natural resources. The Grand Prize is intended to promote the development and widespread use of such energy-saving machines and systems, with the goal of contributing to reduce emissions of CO<sub>2</sub> and other gases responsible for global warming and creating an energy-conserving society.



## Faster Copying – With 1/3 Less Power Consumption

The award-winning C650 and C550 copy 20% to 40% faster than the bizhub C450 released two years ago, yet consume roughly 30% to 40% less power.



	B/W Print Speed	Colour Print Speed	Power Consumption
bizhub C450	45 ppm	35 ppm	671kWh
bizhub C550	55 ppm	45 ppm	393kWh
bizhub C650	65 ppm	50 ppm	462kWh

\* Figures shown are typical electricity consumption values measured using methods stipulated by the international Energy Star Program, and converted to 52 weeks (1 year).

## Copying Starts in Just 30 Seconds

The bizhub C650 is ready to copy in just 30 seconds or less (C550: 60 seconds or less) after you switch on the auxiliary power supply\*, or 85 seconds or less after you switch on the main power supply\* (C550: 115 seconds or less).

The quick warm-up time is a result of Konica Minolta's advanced temperature-raising technologies. These innovations improve business efficiency while saving energy.

\* Auxiliary power supply: This is the power supply used to operate the functions. In everyday use, the switch for this supply serves as the general power switch. Main power supply: The power supply for the entire machine. This is usually left on even at night for fax reception.

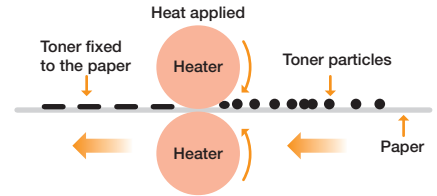


## Saving Energy: New Toner-Fixing Technologies

A heat-application process, called fixing, is used to affix the text and graphics onto the paper. This process typically accounts for 60% or more of an MFP's total power consumption.\*

Konica Minolta devoted extensive R&D to saving energy in the fixing process.

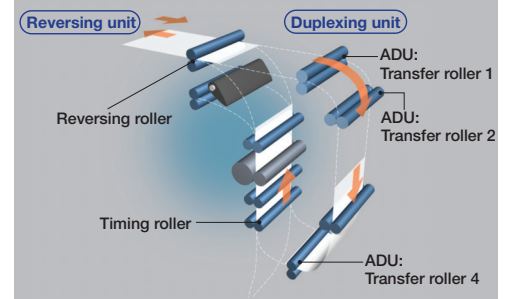
\* In a Konica Minolta 65-ppm MFP operating in energy consumption efficiency measurement mode.



## 100% Productivity in Duplex Printing, Even in Colour

The C650/C550 print in duplex mode just as quickly as they do in single-sided mode, even when printing in colour. Now you can make duplex copies in black and white or colour without missing a beat.

This high-speed duplex printing is made possible by a reversing roller system with an isolated reverse path, plus triple paper-crossing control.

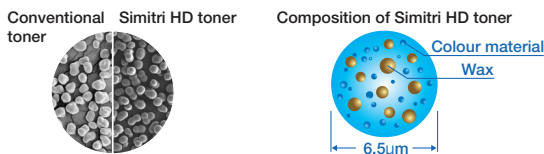


## Key Energy-Saving Technologies

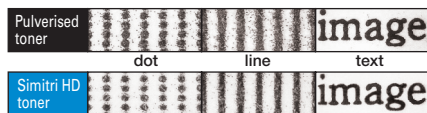
### 1. Simitri HD Toner

The small and uniform particle size of Simitri HD polymerised toner allows for a reduction in toner consumption by more than 30%, and its low-temperature fixing helps reduce power consumption. Compared to conventional pulverised toner, Simitri's production process reduces CO<sub>2</sub>, which contributes to global warming, by nearly 40%. As a result, Simitri toner offers higher environmental performance, saves energy, and reduces its environmental impact, from production to use.

**Simitri HD**  
High Definition Polymerized Toner

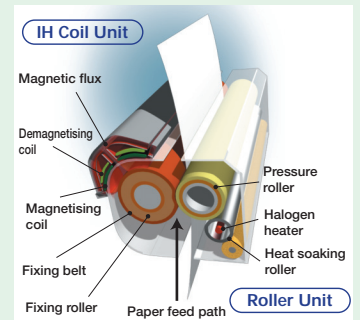


Comparison of pulverised toner and Simitri HD toner (internal test)



### 2. IH Fixing

The C650/C550 use new IH (induction heating) fixing technology in its belt-driven fixing unit. This technology heats the roller's surface only, rather than the entire roller, thus reducing energy consumption. Together with the low-temperature fixing, Simitri HD toner, this technology works to significantly reduce warm-up time.



### 3. Optimal Power Control

The power is optimised for each operating mode, eliminating wasted power. For example, when the C650/C550 are printing from a PC or receiving a fax, the power supply is adjusted so that no electricity is sent to the scanner or other idle sections.



## Other Features

### Designed with recycling in mind

- Plastic parts are made of recycled materials where possible.
- All plastic parts are marked to indicate the type of resin used.
- Labels that leave no adhesive residue are used. To simplify recycling, parts are designed so that they can be disassembled by a single person without special tools.

### Chemical Substance Control

The bizhub C650/C550 contain none of the hazardous substances listed in the European Union's RoHS Directive. (These include lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls [PBBs], and polybrominated diphenyl ethers [PBDEs].)

### Low Noise, Low Emissions

The C650/C550 offer low-noise, low-gas-emission performance. These models meet the RAL UZ-122 standards of the Blue Angel Mark, a German environmental rating, which specify noise levels less than 75 dB and TVOC\* emissions less than 18 mg/h.

\* Total volatile organic compounds

### Universal Design

In addition to incorporating conventional Universal Design principles, the C650/C550 have received Colour Universal Design certification in Japan.



## Energy Certifications

Eco Mark (Japan)

Energy Star

Blue Angel Mark (BAM)

