

Konica Minolta bizhub C368/C308/C258

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KONICA MINOLTA

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Konica Minolta bizhub C368/C308/C258 Specification & Installation Guide



01/28/2016

bizhub C368/C308/C258 Specifications

Type	Full Color Printer/Copier/Scanner
Document holder	Stationary (mirror scanning)
Photoconductor	OPC
Luminous source	LED light-source illumination
Copying system	Laser electrostatic copy method
Developing system	Dry-2 component developing method
Fusing system	Belt Fusing
Resolution	Scanning: 600 x 600 dpi Printing: 1200 x 1200 dpi
Document holder	Types: Sheets, books (2-page spreads), three-dimensional objects Size: Maximum 11" x 17" Weight: 4.5 lb.
Paper	Thin Paper (14 lb. to 15.5 lb.)* Plain Paper (16 lb. to 24 lb.) Thick Paper 1 (24.25 lb. to 32 lb.) Thick Paper 1+ (32.25 lb. to 41.75 lb.) Thick Paper 2 (42 lb. to 55.5 lb.) Thick Paper 3 (55.75 lb. to 68 lb.) Thick Paper 4 (68.25 lb. to 79.75 lb.)** Recycled Paper (16 lb. to 24 lb.) Special Paper (16 lb. to 24 lb.) Letterhead (16 lb. to 24 lb.) Color Paper (16 lb. to 24 lb.) 1-Sided Special Paper (16 lb. to 24 lb.) Banner Paper** (34 lb. to 55.5 lb.) OHP Transparencies**, envelopes**, label sheets**, tabs**, postcards** <small>*Cannot be fed through the bypass tray. **Can only be fed through the bypass tray; Monochrome copying/printing on transparencies is supported. Color copying/printing on transparencies is NOT supported.</small>
Copy sizes	1st Tray: 11" x 17" to 8.5" x 11", 5.5" x 8.5", 8" x 13** 2nd Tray: 12.25" x 18" to 8.5" x 11", 5.5" x 8.5", 8" x 13** Bypass Tray: 12" x 18" to 5.5" x 8.5", 12.25" x 18", 4" x 6", 8" x 13**, Banner Paper <small>*There are six Foolscap sizes: 220 x 330mm (☐), 8.5" x 13.5", 8.5" x 13" (☐), 8.25" x 13 (☐), 8.12" x 13.25" (☐) and 8" x 13" (☐). Any one of these sizes can be selected. For details, please consult with your authorized Konica Minolta Service representative.</small>
Paper tray capacity	1st Tray and 2nd Tray: Thin Paper/Plain Paper/Recycled Paper/Special Paper/Letterhead/Color Paper/ 1-Sided Special Paper: 500 sheets; Thick Paper 1/1+/2/3: 150 sheets Bypass Tray: Plain Paper/Recycled Paper/Special Paper/Letterhead/Color Paper/1-Sided Special Paper: 150 sheets; Thick Paper 1/1+/2/3/4/OHP Transparencies/Postcards/Tabs: 20 sheets; Envelopes: 10; Banner Paper/Label Sheets: 10 sheets

Copy exit tray capacity	Thin Paper: 100 sheets Plain Paper: 250 sheets Thick Paper: 10 sheets Overhead Projection Transparencies*: 1 sheet <small>*Can only be fed through the bypass tray; Monochrome copying/printing on transparencies is supported. Color copying printing on transparencies is NOT supported.</small>
Warm-up time	Color and BW less than 20 seconds (at room temperature/73.4° F)
Image loss width	Leading edge: 0.1875" Trailing edge: 0.125" Rear edge: 0.125" Front edge: 0.125"
First copy	C368: Color: 6.9 sec. or less B/W: 5.3 sec. or less C308: Color: 7.3 sec. or less B/W: 5.6 sec or less C258: Color: 7.5 sec. or less B/W: 6.1 sec or less
Print speed*: (Full Color/B&W) (Simplex/Duplex)	bizhub C368: Plain paper: 36 sheets/min. Thick 1/Thick 1+/Thick 2/Thick 3/Thick 4: 18 sheets/min. bizhub C308: Plain paper: 30 sheets/min. Thick 1/Thick 1+/Thick 2/Thick 3/Thick 4: 18 sheets/min. bizhub C258: Plain paper: 25 sheets/min. Thick 1/Thick 1+/Thick 2/Thick 3/Thick 4: 18 sheets/min.

Print speed (ppm)*:	Color/B&W (single sided/plain paper):
	Size C368 C308 C258
	11" x 17" 18 15 15
	8.5" x 14" 20 17 17
	8.5" x 11" ☐ 36 30 25
	8.5" x 11" ☐ 26 21 21
	5.5" x 8.5" ☐ 36 30 25
	8" x 13" ☐ 20 17 17
	<small>*Using 1st Tray</small>

	Color/B&W (double sided/plain paper):
	Size C368 C308 C258
	11" x 17" 18 15 15
	8.5" x 14" 20 17 17
	8.5" x 11" ☐ 36 30 25
	8.5" x 11" ☐ 25 21 21
	5.5" x 8.5" ☐ 36 30 25
	8" x 13" ☐ 20 17 17
	<small>*Using 1st Tray</small>

continued

Konica Minolta bizhub C368/C308/C258

Specification & Installation Guide



bizhub C368/C308/C258 Specifications continued

Magnification ratios	1.0 (full size: 1.00 ±0.5% or less) Enlarge: 121.4%, 129.4%, 154.5%, 200% Reduce: 78.5%, 73.3%, 64.7%, 50.0% Minimal: 93% Stored Zoom Ratios: 3 "Minimal" zoom ratio (90% to 99.9%)
Multiple copies	1 to 9,999 sheets
Density control	Copy Density: Manual Density Adjustment (9 Levels); Background Density: Automatic and Manual Density Adjustments (9 levels)
Power requirements	120V, 12 A, 60 Hz
Power consumption	1.5 kW or less
TEC Value	C368: 1.8 kWh C308: 1.5 kWh C258: 1.2 kWh
Dimensions (with control panel)	24.2" (W) x 27" (D) x 31" (H)
Space requirements*	36.9" (W) x 47.8" (D) x 30.7" (H)
Memory	4 GB (when UK-211 is installed)
Hard Disk	250 GB (Std.)
Weight	Approx. 187.39 lb.

* The indicated space requirements represent the space required to pull out the paper tray and the tray extension of the bypass tray and with the ADF open.

Duty Cycle

Up to **C368:** 125,000, **C308:** 100,000, **C258:** 80,000.
Maximum monthly copy/print volume supported under standard vendor supplied service. Defines the upper end of the expected customer volume for the device. Customers should consider multiple machines if average monthly volume approaches duty cycle on continual basis.

Environmental Requirements

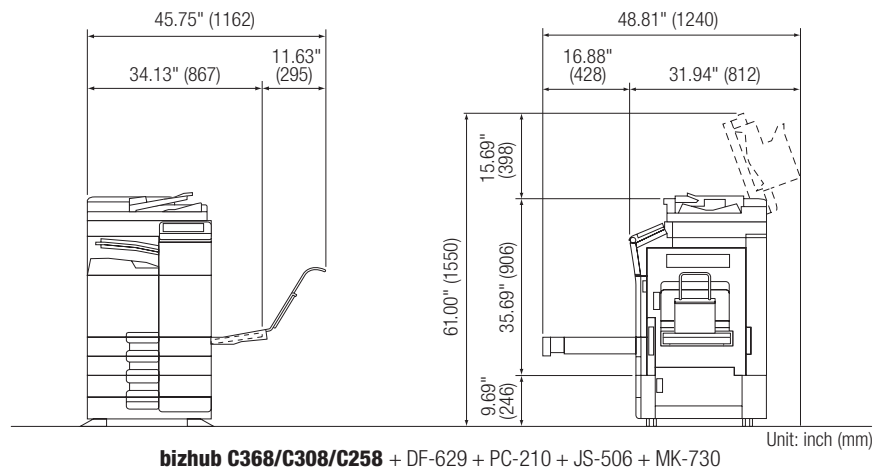
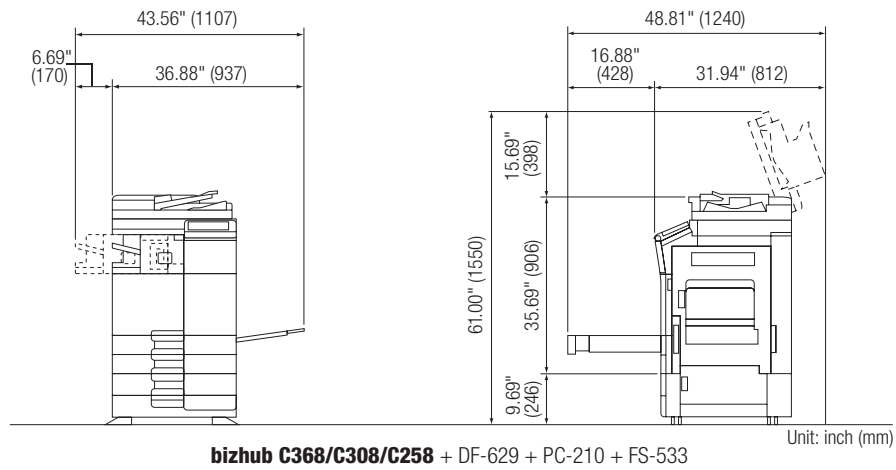
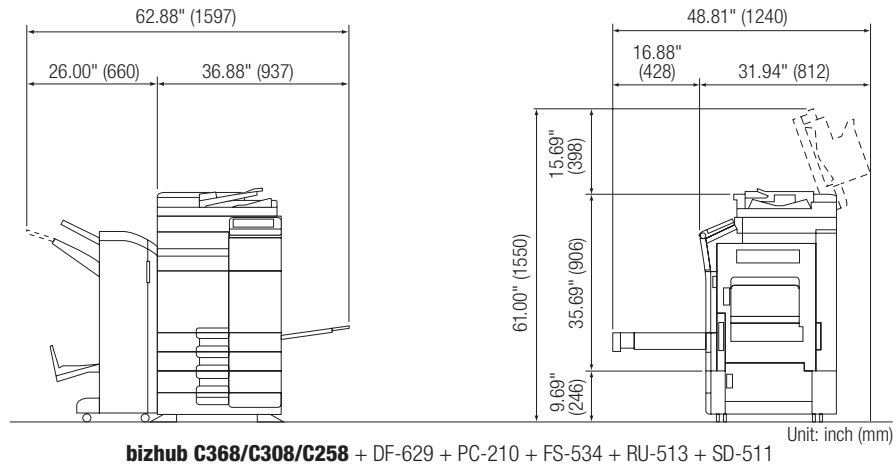
Temperature	50° F to 86° F
Humidity	15% to 85%
Noise during operation (BW/Color)	C368: 71.6 dB/71.8 dB C308: 69.5 dB/70.0 dB C258: 67.8 dB/75.0 dB
Noise during feeder operation (FS-534/FS-533)	C368: 69.2 dB or less C308: 68.8 dB or less C258: 68.0 dB or less
Noise during standby	40.5 dB or less
Ozone emission	Color: 3.0 mg/h B/W: 1.5 mg/h

Electrical Requirements

Line Options	Dedicated	NEMA Diagram for 5-15R
Voltage:	110 V/120 to 127 V/220 to 240 V AC	
Amperage	12 A	
Cycles	60 Hz	
NEMA Part No:	5-15R	
Cord Length	6.6 ft.	

Note: The main electrical outlet must be located within 6.6 feet from the right rear corner of the bizhub C368/C308/C258 main unit.

Space Requirements



NOTICE: Be sure to allow a clearance of 8 inches (200 mm) or more at the back of this machine for the ventilation duct.

Component Considerations

Automatic Duplex Unit (Standard)



Support Paper Type	Thin Paper (14 lb. to 15.5 lb.) Plain Paper (16 lb. to 24 lb.) Thick Paper 1 (24.25 lb. to 32 lb.) Thick Paper 1+ (32.25 to 41.75 lb.) Thick Paper 2 (42 lb. to 55.5 lb.) Thick Paper 3 (55.75 lb. to 68 lb.) Recycled Paper (16 lb. to 24 lb.) Special Paper (16 lb. to 24 lb.) Letterhead (16 lb. to 24 lb.) Color Paper (16 lb. to 24 lb.)
Support Paper Size	12.25" x 18" to 5.5" x 8.5"; 4" x 6"; SRA3; 8" x 13"; Custom: (W) 3.9" to 12.625" x (L) 5.8" to 18"
Power Requirements	Supplied from main unit

*There are six Foolscap sizes: 220 x 330mm (☐), 8.5" x 13.5", 8.5" x 13" (☐), 8.25" x 13" (☐), 8.12" x 13.25" (☐) and 8" x 13" (☐). Any one of these sizes can be selected. For details, please consult with your authorized Konica Minolta Service representative.

OC-511 Original Cover



Type	Original Cover/Platen Cover
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DF-704 Dual Scanner Document Feeder





Type	Single Pass Duplex Document Feeder
Support Paper Size	1-Sided/2-Sided Originals/Mixed Originals: 11" x 17"☐ to 5.5" x 8.5"☐
Support Paper Weight	Single-Sided/Double-Sided: 9.25 lb. bond to 44 lb. bond Mixed Original: 13.5 lb. bond to 34 lb. bond 1-Sided Thin Paper (9.25 lb. to 13.063 lb.) 1-Sided Plain Paper (13.25 lb. to 44 lb.) 2-Sided Plain Paper (13.25 lb. to 44 lb.) Mixed Original Plain Paper (13.25 lb. to 34 lb.)
Paper Capacity	Max. 100 sheets (21.25 lb.)(Single-Sided/Double-Sided Originals)
Paper Transfer Speed	80 image/min (one-sided @ 300 dpi) (B&W/Color) 160 image/min (two-sided @ 300 dpi) (B&W/Color)
Power Requirements	Supplied from main unit.
Max. Power Consumption	74.5 W or less
Dimensions WxDxH	24.1" x 19.8" x 5.6"
Weight	Approximately 26.5 lb.

Component Considerations

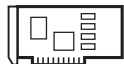
DF-629 Reversing Automatic Document Feeder



Type	Reversing Automatic Document Feeder
Support Paper Size	1-Sided/2-Sided Originals/Mixed Originals: 11" x 17"  to 5.5" x 8.5" 
Support Paper Weight	Single-Sided/Double-Sided: 9.25 lb. bond to 34 lb. bond Mixed Original: 13.5 lb. bond to 34 lb. bond 1-Sided Thin Paper (9.25 lb. to 13.063 lb.) 1-Sided Plain Paper (13.25 lb. to 34 lb.) 2-Sided Plain Paper (13.25 lb. to 34 lb.) Mixed Original Plain Paper (13.25 lb. to 34 lb.)
Paper Capacity	Max. 100 sheets (21.25 lb.)(Single-Sided/Double-Sided Originals)
Paper Transfer Speed	80 image/min (one-sided @ 300 dpi) (B&W/Color) 37 image/min (two-sided @ 300 dpi) (B&W/Color)
Power Requirements	Supplied from main unit.
Max. Power Consumption	60.0 W or less
Dimensions WxDxH	24.1" x 19.8" x 5.6"
Weight	Approximately 19.84 lb.

Component Considerations

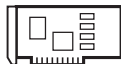
FK-514 Fax Kit



Memory Size	128 GB (Std) (128 GB of the 250GB HDD of the main engine is used for fax memory)
Number of Stored Pages	10,000 Pages (approx. 700 characters per page when 8.5" x 11" document is stored using fine resolution)
Number of Fax Lines	1 Fax Line (Standard); Add second FK-514 Fax Kit for dual line fax capabilities.
Communication	ECM/Super G3
Compatible Lines	PSTN, PBX
Scanning Line Density	Ultra Fine: 600 x 600 dpi Super Fine: 16 dot/mm x 15.4 line/mm, 400 x 400 dpi Fine: 8 dot/mm x 7.7 line/mm, 200 x 200 dpi Normal: 8 dot/mm x 3.85 line/mm
Modem Speed	2.4 kbps-33.6 kbps
Compression	MH/MR/MMR/JBIG
Scanning/(Sending) Paper Size	Original Glass: Max. 11" x 17" ADF: 11" x 39" (Normal, Fine, Super Fine) 11" x 17" (Ultra Fine, Manual TX)
Recording Paper Size	11" x 17" to 5.5" x 8.5"
Transmission Speed	Less than 2 sec. (A4, V.34, 33.6 Kbps, JBIG)
Scan Speed	2 sec. (Letter/Fine Mode)
Number of Abbr. Dial	2000
Number of Program Dial	400
Number of Group Dial	100 (Up to 500 destinations per group)
Sequential Multiple Station Transmission	Max. 600
Transmitting Functions	2-in-1 TX, Mixed Original, F-Code Transmission, Frame Erase Transmission, Sharpness, Header/Footer, Memory Transmission, Quick Memory Transmission, Timer Transmission, Incomplete Transmission Hold, Manual Transmission, Confidential Transmission, Password Transmission, Polling Transmission, Bulletin Function, Relay Transmission, Fax Forwarding Function, Overseas TX, V.34 OFF, ECM OFF
Receiving Functions	Duplex Print (RX), Manual Reception, Confidential Reception, Memory Reception, Polling Reception, Bulletin Function, Fax Forwarding (to any destination stored in the Address Book), TSI Routing (to any destination stored in the Address Book).

Component Considerations

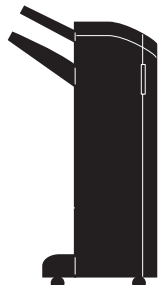
FK-515 Fax Kit



Memory Size	128 GB (Std) (128 GB of the 250GB HDD of the main engine is used for fax memory)
Number of Stored Pages	10,000 Pages (including all Scan/Box/Printer/Fax Documents)
Number of Fax Lines	Add 1st FK-515 for 3rd Fax Line (Optional); Add 2nd FK-515 for 4th Fax Line (Optional); Must add two FK-514 Fax Kits first for single and dual line capabilities before you can add lines 3 and 4. FK-515 requires MK-742 Mount Kit (only one MK-742 Mount Kit required).
Communication	ECM/Super G3
Compatible Lines	PSTN, PBX
Scanning Line Density	Ultra Fine: 600 x 600 dpi Super Fine: 16 dot/mm x 15.4 lines/mm, 400 x 400 dpi Fine: 8 dot/mm x 7.7 lines/mm, 200 x 200 dpi Normal: 8 dot mm x 3.85 lines, 100 x 100 dpi
Modem Speed	2.4kbps-33.6kbps
Compression	MH/MR/MMR/JBIG
Scanning (Sending) Paper Size	Original Glass: Max. 11" x 17" ADF: 11" x 39" (Standard, Fine, Super Fine) 11" x 17" (Standard, Fine, Super Fine)
Recording Paper Size	11" x 17"
Transmission Speed	Less than 2 sec (V.34, JBIG)
Scan Speed	1 sec. (Letter/Fine Mode)
Number of Abbr. Dial	2,000
Number of Program Dial	400
Number of Group Dial	100 (Up to 500 destinations per group)
Sequential Multiple Station Transmission	Max. 600 605 (500 Abbreviated Dials + 100 Manual Dials + 5 Manual Email Addresses)
Transmitting Functions	Mixed Original, F-Code Transmission, Frame Erase Transmission, Sharpness, Header/Footer, Memory Transmission, Quick Memory Transmission, Timer Transmission, Incomplete Transmission Hold, Manual Transmission, Confidential Transmission, Password Transmission, Polling Transmission, Bulletin Transmission, Fax Forwarding Function, Overseas TX, V.34 OFF, ECM OFF
Receiving Functions	Duplex Print (RX), Manual Reception, Confidential Reception, Memory Reception, Polling RX, TSI Routing (to any destination stored in the Address Book), Fax Forwarding

Component Considerations

FS-534 Floor Finisher* (50 sheets)



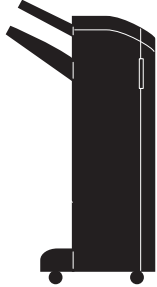
Type	Floor Finisher
Output Trays	Output Tray 1, Output Tray 2, Folding Output Tray (Top of RU unit)
Support Paper Type	<p>Output Tray 1 & Output Tray 2: Thin Paper (14 lb. to 15 lb.), Plain Paper (16 lb. bond to 24 lb. bond), Recycled Paper (16 lb. to 24 lb.), Thick Paper 1/1+/2/3 (24.25 lb. bond to 79.75 lb. bond), OHP Transparencies, Postcards*, Envelopes*, Label Sheets*, Letterhead*, Tabs*, Banner Paper*. Staple Settings: Thin Paper (14 lb. to 15 lb.), Plain Paper (16 lb. bond to 23.94 lb. bond), Recycled Paper (16 lb. to 24 lb.), Thick Paper 1 (24.25 lb. bond to 32 lb. bond), Thick Paper 1+ (32.25 lb. to 41.75 lb.), Thick Paper 2 (42 lb. to 55.5 lb.) * Fed into Output Tray 1</p>
Support Paper Size	<p>Output Tray 1: 12.25" x 18", 11" x 17" to 5.5" x 8.5" □/□ Output Tray 2: Group/Sort: 12.25" x 18", 11" x 17", 5.5" to 8.5" □/□ Offset Group/Offset Sort: 12.25" x 18", 11" x 17" to 5.5" to 8.5", SRA3 Width: 7.188" to 12.625"; Length 5.875" to 18" Staple: 11" x 17" to 7.25" x 10.5" □/□ Width: 7.188" to 11.688"; Length 5.875" to 17" Folding Output Tray: 12.25" x 18", 11" x 17" to 5.5" x 8.5" □/□ Width: 3.5" to 12.5"; Length 5.5" to 18"</p>
Mode	Non-Sort, Sort, Group, Sort/Offset, Group/Offset, Sort and Staple
Stacking Capacity	<p>Output Tray 1: Thin Paper (14 lb. to 15.5 lb.), Plain Paper (16 lb. to 24 lb.): 200 sheets. Thick Paper (24.25 to 79.75 lb.), OHP Transparencies, Postcards, Envelopes or Label Sheets, Letterheads, Tabs: 20 sheets Output Tray 2 – Group/Sort Mode: Plain Paper (16 lb. to 24 lb.): 3,000 sheets of 8.5" x 11" or smaller, or 1,500 sheets of 8.5" x 14" or larger; or 500 sheets of 5.5" x 8.5" or smaller. Thick Paper (24.25 to 79.75 lb.), OHP Transparencies, Postcards, Envelopes, Labels, Letterheads, Tabs: 20 sheets 2nd Tray – Offset Group/Offset Sort: 3,000 sheets (8.5" x 11" or smaller); 1,500 sheets (8.5" x 14" or larger); 500 sheets (5.5" x 8.5" or larger) Thin Paper (14 lb. to 15 lb.) Plain Paper (16 lb. to 24 lb.) Recycled Paper (16 lb. to 24 lb.) Thick Paper (24.25 lb. to 79.75 lb.), OHP Transparencies, Postcard, Envelope, Label sheets, Letterhead, Tabs: 20 sheets Staple Thin Paper (14 lb. to 15 lb.): 50 sheets Plain Paper (16 lb. to 24 lb.): 50 sheets Recycled Paper (16 lb. to 24 lb.): 50 sheets Thick Paper (24.25 lb. to 32 lb.): 30 sheets Thick Paper 1+ (32.25 lb. to 41.75 lb.): 30 sheets Thick Paper 2 (42 lb. to 55.5 lb.): 20 sheets 2–9 Sheets: 100 Sets 10–20 Sheets: 50 Sets 21–30 Sheets: 30 Sets 31–40 Sheets: 25 Sets 41–50 Sheets: 20 Sets Folding Output Tray: 100 sheets Thin Paper (14 lb. to 15.5 lb.) Plain Paper (16 lb. to 24 lb.) Recycled Paper (16 lb. to 24 lb.) Thick Paper (24.25 lb. to 79.75 lb.): 20 sheets</p>

* NOTE: Please refer to engine specifications for additional paper size and weight limitations. Installation of the FS-534 requires the relay unit that is appropriate for the engine.

continued

Component Considerations

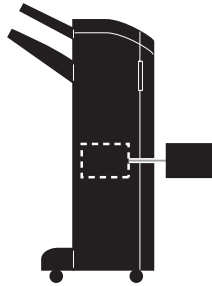
FS-534 Floor Finisher continued



Staple Mode	Paper Sizes: 8.5" x 11" to 11" x 17"; Corner, 2 Position (Side, Top)
Available Options	PK-520 Punch Kit (2/3-hole Punch)
Power Requirements	Supplied from Main Unit
Max. Power Consumption	Less than 56 W
Dimensions (W x D x H)	11.41" x 25.25" x 40.25" (When tray is pulled out 25.88" (W))
Weight Approx.	79.4 lb.
Consumables	SK-602 Staples (5,000 Staples x 3)

NOTE: FS-534 supports banner printing when installed on C754e/C654e/C554e/C454e/C368/C308/C258.

FS-534 Floor Finisher + SD-511 Saddle Stitcher* A combination of FS-534 (see specs listed above) and SD-511 (specs listed below)



Applicable	FS-534
Number of bins	1 Tray
Paper types	Thin Paper (14 lb. to 15 lb.), Plain Paper (15 to 24 lb), Thick Paper 1/1+2 (24.25 to 55.5 lb.)* <small>*Can only be used as a cover page.</small>
Paper sizes	12.25" x 18" □, 11" x 17", 8.5" x 14" □, 8.5" x 11",
Number of Center Stapled or Half-Folded Sheets	Plain Paper (15 to 24 lb.) 1–3 Sheets: 20 Sets 4–10 Sheets: 10 Sets 11–20 Sheets: 5 Sets
Number of Tri-Folded Sheets (Letter Only)	1 Sheet: 30 Sets 2–3 Sheets: 10 Sets
Staple mode	Booklet, 2-point staple
Maximum staple sheet	20 sheets: (19 sheets/14 to 24 lb.) + (1 sheet/13 to 55.5 lb.)
Dimensions (W x D x H)	8.25" x 21.875" x 21.563"
Weight	52.94 lb.
Consumables	SK-602 (5,000 x 3 pkg/case)
Power requirements	Supplied from finisher

*NOTE: The SD-511 Saddle Stitcher is not available as a separate accessory. Please refer to engine specifications for additional paper size and weight limitations. Installation of the FS-534 requires the relay unit that is appropriate for the engine.

RU-513 Relay Unit (Required for FS-534)



Type	Installed into the Main Body
Powered Requirements	Supplied by Main Engine
Dimensions (W x D x H)	18.0" x 21.9" x 6.0"
Weight	Approx. 8.8 lbs.

Component Considerations

FS-533 Inner Finisher (50 sheets)



Type	Inner Staple Finisher
Output Trays	Output Tray 1
Support Paper Types	<p>Group/Sort: Thin Paper (14 lb. to 15 lb.), Plain Paper (16 lb. bond to 24 lb. bond), Recycled Paper (16 lb. to 24 lb.), Thick Paper (24.25 lb. bond to 79.75 lb. bond), OHP Transparencies, Postcards, Envelopes, Label Sheets, Letterhead, Tabs, Banner Paper.</p> <p>Offset Group, Offset Sort: Thin Paper (14 lb. to 15 lb.), Plain Paper (16 lb. bond to 24 lb. bond), Recycled Paper (16 lb. to 24 lb.), Thick Paper (24.25 lb. bond to 79.75 lb. bond)</p> <p>Staple Settings: Thin Paper (14 lb. to 15 lb.), Plain Paper (16 lb. bond to 23.94 lb. bond), Recycled Paper (16 lb. to 24 lb.), Thick Paper (24.25 lb. bond to 55.25 lb. bond)</p>
Mode	Group, Sort, Offset Group, Offset Sort, Staple
Support Paper Size	<p>Group/Sort: 12.25" x 18"□, 11" x 17"□ to 5.5" x 8.5"□/□, 4" x 6"□, SRA3□ Width: 3.56" to 12.625"; Length: 5.5" to 47.25"</p> <p>Offset Group/Offset Sort: 12.25" x 18"□, 11" x 17"□, 8.5" x 11"□/□, 7.25" x 10.5"□ Width: 8.25" to 11.69"; Length: 7.17" x 17"</p> <p>Staple: 11" x 17"□, 8.5" x 14"□, 8.5" x 11"□/□, 7.25" x 10.5"□ Width: 8.25" to 11.69"; Length: 7.17" x 17"</p>
Stacking Capacity	<p>Group, Sort, Offset Group, Offset Sort: Thin Paper (14 lb. to 15 lb.), Plain Paper (16 lb. bond to 24 lb. bond), Recycled Paper (16 lb. to 24 lb.); 500 sheets of 8.5" x 11" or smaller; or 250 sheets of 8.5" x 14" or larger Thick Paper (24.25 lb. bond to 79.75 lb. bond), OHP Transparencies, Postcards, Envelopes, Label Sheets, Letterhead, Tabs, Banner Paper: 10 sheets</p> <p>Staple: Thin Paper (14 lb. to 15 lb.), Plain Paper (16 lb. bond to 24 lb. bond), Recycled Paper (16 lb. to 24 lb.); 50 sheets of 8.5" x 11" or smaller; or 30 sheets of 8.5" x 14" or larger Thick Paper (24.25 lb. bond to 55.5 lb. bond): 2 sheets</p>
Staple Mode	Corner Front / Back 2-point
Available Options	PK-519 Punch Kit (2-3-hole Punch)
Power Requirements	Supplied from Main Unit
Max. Power Consumption	Less than 40W
Dimensions (W x D x H)	18.6" x 23" x 7.7"
Weight Approx.	26.5 lb.
Consumables	SK-602 Staples (5,000 Staples x 3)

Component Considerations

PK-519 Punch Kit (For FS-533)



Applicable	Finisher FS-533
Number of holes	2 or 3 holes
Support Paper Weight	Thin Paper (14 lb. to 15.5 lb.), Plain Paper (16 lb. to 24 lb.), Thick paper (24.25 lb. bond to 79.75 lb. bond)
Support Paper Size	2-hole Punch Setting: 11" x 17", 8.5" x 14", 8.5" x 11" 3-hole Punch Setting: 11" x 17", 8.5" x 11"
Power Requirements	Supplied from Finisher FS-533
Dimensions (WxDXH)	4.33" x 19.03" x 8"
Weight Approx.	Approx. 7 lb.

PK-520 Punch Kit (For FS-534)



Applicable	FS-534
Number of holes	2 or 3 holes
Support Paper Weight	Thin Paper (14 lb. to 15.5 lb.), Plain Paper (16 lb. bond to 24 lb. bond), Recycled Paper (16 lb. to 24 lb.),
Support Paper Size	2-hole Punch Setting: 11" x 17", 8.5" x 14", 8.5" x 11" 3-hole Punch Setting: 11" x 17", 8.5" x 11"
Power Requirements	Supplied from Finisher FS-534
Dimensions (W x D x H)	2.375"x 19.375" x 5.563"
Weight Approx.	Approx. 3.938 lb.

Component Considerations

JS-506 Job Separator Tray



Output tray	Output Tray 1, Output Tray 2
Mode	Group, Sort, Offset Group*, Offset Sort* * Fed into Output Tray2
Support Paper Types	Group/Sort: Thin Paper (14 lb. to 15.5 lb.), Plain Paper (16 lb. bond to 24 lb. bond), Recycled Paper (16 lb. to 24 lb.), Thick Paper (24.25 lb. bond to 79.75 lb. bond), OHP Transparencies, Postcards*, Envelopes, Label Sheets, Letterhead, Tabs*, Banner Paper*. Offset Group, Offset Sort: Thin Paper (14 lb. to 15.5 lb.), Plain Paper (16 lb. bond to 24 lb. bond), Recycled Paper (16 lb. to 24 lb.), Thick Paper (24.25 lb. bond to 79.75 lb. bond) * Fed into Output Tray 2
Support Paper Size	Output Tray 1: 12.25" x 18" □, 11" x 17" L to 5.5" x 8.5" □/□, SRA3 □ Width: 3.56" to 12.625"; Length: 5.5" to 18" Output Tray 2: Group/Sort: 12.25" x 18" □, 11" x 17" □ to 5.5" x 8.5" □/□, 4" x 6" □, SRA3 □ Width: 3.56" to 12.625"; Length: 5.5" to 47.25" Offset Group/Offset Sort: 11" x 17" □, to 7.25" x 10.5" □/□ Width: 7.17" to 12.25"; Length: 5.8" to 18"
Stacking Capacity	Output Tray 1: Thin Paper (14 lb. to 15.5 lb.), Plain Paper (16 lb. bond to 24 lb. bond), Recycled Paper (16 lb. to 24 lb.): 100 sheets Output Tray 2: Group/Sort: Thin Paper (14 lb. to 15.5 lb.), Plain Paper (16 lb. bond to 24 lb. bond), Recycled Paper (16 lb. to 24 lb.): 150 sheets; Thick Paper (24.25 lb. bond to 79.75 lb. bond), Transparency, Postcard, Label sheets: 20 Sheets; Envelope: 10 Sheets; Banner Paper: 1 Sheet Offset Group/Offset Sort: Thin Paper (14 lb. to 15.5 lb.), Plain Paper (16 lb. bond to 24 lb. bond), Recycled Paper (16 lb. to 24 lb.): 150 sheets; Thick Paper (24.25 lb. bond to 79.75 lb. bond): Not specified
Power Requirements	Supplied from Main Unit
Max. Power Consumption	Less than 24W
Dimensions (W x D x H)	19.4" x 18.5" x 8.9"
Weight Approx.	3.3 lb.

Component Considerations

PC-110 Paper Feed Cabinet



Type	1 x 500 sheet universal drawer + storage
Support Paper Types	Thin Paper (14 lb. to 15.5 lb.), Plain Paper (16 lb. bond to 24 lb. bond), Recycled Paper (16 lb. to 24 lb.), Single Side Only Paper (16 lb. bond to 24 lb. bond), Special Paper (16 lb. bond to 24 lb. bond), Letterhead (16 lb. bond to 24 lb. bond), Colored Paper (16 lb. bond to 24 lb. bond), Thick Paper 1 (24.25 lb. bond to 32 lb. bond), Thick Paper 1+ (32.25 lb. bond to 41.75 lb. bond), Thick Paper 2 (42 lb. bond to 55.5 lb. bond), Thick Paper 3 (55.75 lb. bond to 68 lb. bond)
Support Paper Size	11" x 17" (L) to 8.5" x 11" (L/P), 5.5" x 8.5" (L), 8" x 13" (L)* * There are six Foolscap sizes: 220 x 330mm, 8.5" x 13.5", 8.5" x 13", 8.25" x 13, 8.12" x 13.25" and 8" x 13". Only one of these sizes can be selected. For details, please consult with your authorized Konica Minolta Service representative.
Paper Capacity	Tray 3: Thin paper, Plain paper, Recycled paper, 1-sided special paper, Special paper, Letterhead, Colored paper: 500 sheets, Thick 1, Thick 1+, Thick 2, Thick 3: 150 sheets
Power Requirements	Supplied from Main Unit
Max. Power Consumption	Less than 15W
Dimensions (W x D x H)	24.2" x 25.7" x 11.6"
Weight Approx.	48.5 lb.

PC-210 Paper Feed Cabinet




Type	2 x 500 sheet universal drawers
Support Paper Types	Thin Paper (14 lb. to 15.5 lb.), Plain Paper (16 lb. bond to 24 lb. bond), Recycled Paper (16 lb. to 24 lb.), Single Side Only Paper (16 lb. bond to 24 lb. bond), Special Paper (16 lb. bond to 24 lb. bond), Letterhead (16 lb. bond to 24 lb. bond), Colored Paper (16 lb. bond to 24 lb. bond), Thick Paper 1 (24.25 lb. bond to 32 lb. bond), Thick Paper 1+ (32.25 lb. bond to 41.75 lb. bond), Thick Paper 2 (42 lb. bond to 55.5 lb. bond), Thick Paper 3 (55.75 lb. bond to 68 lb. bond)
Support Paper Size	11" x 17" (L) to 8.5" x 11" (L/P), 5.5" x 8.5" (L), 8" x 13" (L)* *There are six Foolscap sizes: 220 x 330mm (☐), 8.5" x 13.5", 8.5" x 13" (☐), 8.25" x 13 (☐), 8.12" x 13.25" (☐) and 8" x 13" (☐). Any one of these sizes can be selected. For details, please consult with your authorized Konica Minolta Service representative.
Paper Capacity	Tray 3: Thin paper, Plain paper, Recycled paper, 1-sided special paper, Special paper, Letterhead, Colored paper: 500 sheets, Thick 1, Thick 1+, Thick 2, Thick 3: 150 sheets Tray 4: Thin paper, Plain paper, Recycled paper, 1-sided special paper, Special paper, Letterhead, Colored paper: 500 sheets, Thick 1, Thick 1+, Thick 2, Thick 3: 150 sheets
Power Requirements	Supplied from Main Unit
Max. Power Consumption	Less than 15W
Dimensions (W x D x H)	24.2" x 25.7" x 11.6"
Weight Approx.	53 lb.

Component Considerations

PC-410 Paper Feed Cabinet



Type	Large Capacity Cassette
Support Paper Types	Thin Paper (14 lb. to 15.5 lb.), Plain Paper (16 lb. bond to 24 lb. bond), Recycled Paper (16 lb. to 24 lb.), Single Side Only Paper (16 lb. bond to 24 lb. bond), Special Paper (16 lb. bond to 24 lb. bond), Letterhead (16 lb. bond to 24 lb. bond), Colored Paper (16 lb. bond to 24 lb. bond), Thick Paper 1 (24.25 lb. bond to 32 lb. bond), Thick Paper 1+ (32.25 lb. bond to 41.75 lb. bond), Thick Paper 2 (42 lb. bond to 55.5 lb. bond), Thick Paper 3 (55.75 lb. bond to 68 lb. bond)
Support Paper Size	8.5" x 11" 
Paper Capacity	Thin paper, Plain paper, Recycled paper, 1-sided special paper, Special paper, Letterhead, Colored paper: 2500 sheets, Thick 1, Thick 1+, Thick 2, Thick 3: 1000 sheets
Power Requirements	Supplied from Main Unit
Max. Power Consumption	Less than 45W
Dimensions (W x D x H)	24.2" x 25.7" x 11.6"
Weight Approx.	50.7 lb.

DK-510 Copy Desk



Type	Storage drawer only
Function	Stores printing materials such as paper or toner. Required when additional paper drawers are not installed, to bring the device to operational height
Dimensions (WxDxH)	24.2" x 25.7" x 11.6"
Weight Approx.	46.3 lb.

LU-302 Large Capacity Unit



Type	Large Capacity Cassette
Support Paper Type	Thin Paper (14 lb. to 15.688 lb.) Plain Paper (16 lb. bond to 24 lb. bond) Thick Paper 1 (24.25 lb. bond to 32 lb. bond) Thick Paper 1+ (32.25 lb. bond to 41.75 lb. bond) Thick Paper 2 (42 lb. bond to 55.5 lb. bond) Thick Paper 3 (55.75 lb. bond to 68 lb. bond)
Support Paper Size	8.5" x 11", A4
Paper Capacity	Plain Paper: 3,000 sheets Thick Paper 1: 2,500 sheets (24.25 lb. bond to 32 lb. bond) Thick Paper 1+: 1,750 sheets (32.25 lb. bond to 41.75 lb. bond) Thick Paper 2: 1,550 sheets (42 lb. bond to 55.5 lb. bond) Thick Paper 3: 1,300 sheets (55.75 lb. bond to 68 lb. bond)
Power Requirements	Supplied from main unit
Max. Power Consumption	22 W or less
Dimensions WxDxH	14.44" x 21.88" x 15.94"
Weight Approx.	Approx. 39.63 lb.

Component Considerations

KP-101 10-Key Pad



Type	10-Key Pad
Function	Provides hard keys for entering numerical values and supports Voice Guidance function available with optional LK-104 v3 i-Option License Kit. Meets Section 508 Accessibility requirements.

AU-102 Biometric Authentication Unit



Biometric Sensor System	Transmission-type optical system
Verification Time	Approx. 1 sec. or less
Interface	USB 2.0
Dimensions WxDxH	Approx. 2.32" x 3.25" x 2.94"
Weight	Approx. 3 oz. (excluding USB cable)
Max. Power Consumption	DC 5 V, 500 mA
System Conditions (during operation)	Ambient temperature: 41° to 95° (F) Humidity: 20% to 80% (No dew condensation)
System Conditions (during non-operation)	Ambient temperature: 32° to 122° (F) Humidity: 20% to 80% (No dew condensation)
MFP Compatibility	bizhub C754e, C654e, C554e, C454e, C368, C308, C284, C224e, C224. Please check MyKonicaMinolta.com on a regular basis for compatibility updates.

NOTE: WT-506 Working Table is required for AU-102 Biometric Authentication Unit.

AU-204H Magnetic Stripe Card Reader



Dimensions (WxHxD)	1.28" x 1.23" x 3.94"
Weight	4.5 oz.
Power Supply	Supplied from USB Port
System Conditions (operating mode)	Ambient Temperature: 40° to 158° F Humidity: 10% to 90%
Transmit Frequency	3-60 i.p.s.
Certifications	ISO 7810 and ISO 7811/AAMVA
Card Type Compatibility	All magnetic stripe cards
MFP Compatibility	bizhub C754e, C654e, C554e, C454e, C368, C308, C224e. Please check MyKonicaMinolta.com on a regular basis for compatibility updates.

NOTE: WT-506 Working Table required for AU-204H Magnetic Stripe Card Reader.

Component Considerations

AU-205H IC Card Reader



Dimensions (WxHxD)	2.79" x 3.66" x 0.63"
Weight	0.25 lb.
Power Supply	Supplied from USB Port
System Conditions (operating mode)	Ambient Temperature: 31° to 150° F Humidity: 5% to 95%
Card/Protocols Low Frequency (125 kHz)	HID PROX, HID Indala® Prox, EM Prox
Card/Protocols High Frequency (13.5 MHz)	CCID: MIFARE Classic™ 1K/4K, Ultra Light, Ultra Light C, Plus, MIFARE DESFire™ 0.6, MIFARE DESFire™ EV1, IC Card, iCLASS SE/SR®, MIFARE SE™, DESFire EV1 SE, T=CL, ISO 14443 A with up to 848 kbps transmission rate (depending on card*), ISO 15693 with up to 26 kbps transmission rate (depending on card)

NOTE: WT-506 Working Table or MK-735 Mount Kit (internal mount) required.
*424 kbps default rate, 848 kbps configurable through web interface.

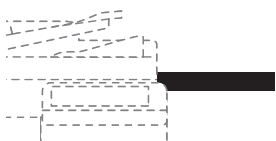
AU-211P CAC/PIV Solution w/Certificate



Dimensions (WxHxD)	2.75" x 2.75" x 0.39"
Weight	0.13 lbs.
Power Supply	Supplied from USB Port
System Conditions (operating mode)	0° to 122° F
Interface	Full Speed USB (12 Mbps)
Connector Shape	USB A Type Connector
Compatible Card	PKI-C-Card (PIV, CAC)
MFP Compatibility	bizhub C754e, C654e, C554e, C454e, C368, C308, C224e. Please check MyKonicaMinolta.com on a regular basis for compatibility updates. Please check MyKonicaMinolta.com on a regular basis for compatibility updates.

NOTE: WT-506 Working Table required. Please contact your local Government Account Manager for additional information.

WT-506 Working Table



Type	External Table
Function	Holds AU-102 Biometric Authentication Unit, AU-201H HID Proximity Card Reader, AU-202H HID iClass Reader, AU-204H Magnetic Stripe Card Reader, AU-205H IC Card Reader or AU-211P CAC/PIV Solution; Can be used as a place holder for originals and/or output.
Dimensions WxDxH	18.30" x 16.33" x 1.5"

Component Considerations

EK-608 USB Host/Local Interface



Type	USB Interface and USB Cable
Function	Required to connect optional External Keyboard (or can use EK-609 when Bluetooth printing is also required) or optional i-Option LK-104 v3 Voice Guidance License kit.

EK-609 USB Host/Local Interface with Bluetooth



Type	USB Interface and USB Cable
Function	Supports Bluetooth Printing. Required to connect optional External Keyboard (or can use EK-608 if Bluetooth printing is not required) or optional i-Option LK-104 v3 Voice Guidance License kit.

MK-742 Mount Kit



Type	Internal Component
Function	Required if you wish to install the FK-515 Fax Kit(s) for Fax Line 3 and Fax Line 4 support. Only one MK-742 Mount Kit required.

MK-735 Mount Kit



Type	Internal Component
Function	Required if you wish to install the AU-205H internally in the device.

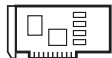
IC-416 Fiery Image Controller



Type	Embedded Type
CPU	Intel® Pentium® Processor G850, 3M Cache, 2.9 GHz, Dual Core
Memory	2 GB
HDD	500 GB SATA
Continuous Print Speed	Same as Continuous Copy (when using the same original)
Resolution	600 dpi, 1200 dpi
Page Description Language	Adobe PostScript 3 version 3019, PCL6, PDF v1.7
Support Protocol	Ethernet (Apple Talk, TCP/IP), HTTP/HTTPS, XPS, SSL/TLS for HTTPS, SNMP, SMP, Port 9100 (Bi-Directional), IPP, LDAP, IPv6 Phase II, SNMP v3
Support OS	Windows 2003 Server, Windows 2003 Server x64, Windows Vista, Windows Vista x64, Windows 7, Windows 7 x64, Windows 2008 Server (utility only), Windows 2008 Server x64 (utility only); Mac OS X 10.4.11, 10.5x, 10.6x or later; UNIX/Linux.
Standard Fonts	Adobe PS 138 Roman fonts; Agfa PCL 80 Roman fonts; 1 bitmap font; Additional PCL 35 fonts; Euro Currency Resident font
Interface	10Base-T/100Base-TX/1000Base-T, USB

Component Considerations

VI-508 Interface Kit



Type	Interface Kit
Function	Required interface kit to connect IC-416 Fiery Image Controller to MFP.

LK-102 v3 i-Option License Kit

Type	License Key
Function	Enhanced PDF Encryption (128-bit AES Encryption), PDF/A (1a/1b) and Linearized PDF file support.

Note: The LK-110 v2 supports the same functions as the LK-102 v3, therefore, both license kits cannot be installed on the same device.

LK-104 v3 i-Option License Kit

Type	License Key
Function	Voice Guidance

LK-105 v4 i-Option License Kit

Type	License key
Function	Provides Searchable PDF function

Note: The LK-110 v2 supports the same functions as the LK-105 v4, therefore, both license kits cannot be installed on the same device.

LK-106 i-Option License Kit

Type	License key
Function	Supports Bar Code Font Printing

LK-107 i-Option License Kit

Type	License key
Function	Supports Unicode Font Printing

LK-108 i-Option License Kit

Type	License key
Function	Supports OCR Font Printing

LK-110 v2 i-Option License Kit

Type	License Key
Function	OOXML format file conversion for docx/xlsx, Fax to searchable PDF, convert box data to compact PDF, direct print e-mail attached file. Combines LK-102 (Encrypted PDF) & LK-105 (Searchable PDF/OCR) functionality.

Note: If you install the LK-110 v2 on a device, you cannot install the LK-102 v3 and/or LK-105 v4 on the same device.

LK-111 i-Option License Kit

Type	License Key
Function	Provides ThinPrint client support.

Component Considerations

UK-211 Memory Expansion

Type	2 GB machine memory expansion.
Function	Required for Registered Overlay. Also required for concurrent use of Web Browser and Stamp Print, Watermark, Date/Time Print, Header/Footer, Image Overlay, or Management Number.

UK-212 Wireless LAN Upgrade Adapter



Type	WLAN Adapter
Function	Provides wireless secure connection for printing, scanning and Authentication. Requires EK-608 or EK-609.

SC-508 Copy Guard Kit

Type	Embedded Type
Function	Prevents printing of Copy Protected documents.

Please note that two SC-508 Copy Guard Kits are required to apply the Copy Guard/password protection to each size of the originals when both sides are scanned in one pass.

Konica Minolta bizhub C368/C308/C258

Specification & Installation Guide



Mixed Original Support

● Possible ✕ Not Possible

Document Size ²	Maximum Document Width ¹					
	11" x 17" landscape	8.5" x 11" portrait	8.5" x 14" landscape	8.5" x 11" landscape	5.5" x 8.5" portrait	5.5" x 8.5" landscape
11" x 17" (☐)	●	●	✕	✕	✕	✕
8.5" x 11" (☐)	●	●	✕	✕	✕	✕
8.5" x 14" (☐)	●	●	●	●	●	✕
8.5" x 11" (☐)	●	●	●	●	●	✕
5.5" x 8.5" (☐)	✕	✕	●	●	●	✕
5.5" x 8.5" (☐)	✕	✕	✕	✕	✕	●

¹ Indicates the width of the widest document size of the mixed originals.

² Indicates the document sizes that can be mixed together based on the maximum document width.

Standard Paper Tray Support

Main Unit – bizhub C368/C308/C258 (Paper Tray 1 and 2)

Component	Capacity	Size	Weight
Tray 1	500 sheets	11" x 17"	14 lb. bond to 68 lb. bond
Tray 2	500 sheets	12" x 18"	14 lb. bond to 68 lb. bond
Bypass	150 sheets	12" x 18"	16 lb. bond to 79.75 lb. bond

Konica Minolta bizhub C368/C308/C258

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KONICA MINOLTA

Print Controller (Standard)

Type	Internal Type
CPU	1.2 GHz (shared with copier)
Memory	4 GB (shared with copier)* 250 GB HDD (shared with copier)
Print Speed	Color/ BW: C368: 36 ppm Letter□ C308: 30 ppm Letter□ C258: 25 ppm Letter□
Print Resolution	600 x 600 dpi (1800 equivalent x 600 dpi), 1200 x 1200 dpi
PDL	PCL 5e/c emulation, PCL6 (XL version 3.0), PS 3 (Version 3016) Emulation, XPS
Protocol	TCP/IP (IPv4/IPv6), BOOTP, ARP, ICMP, DHCP, DHCPv6, AutoIP, SLP, SNMP, FTP, LPR/LPD, RAW Socket, SMB over TCIP/IP, IPP, HTTP, POP, SMTP, LDAP, NTP, SSL, IPX, AppleTalk, Bonjour, NetBEUI, WebDAV, DPWS, S/MIME, IPsec, DNS, Dynamic DNS, LLMNR, LLTD, SSDP, SOAP
Support OS	Windows 2000, Windows XP, Windows XP 64-bit, Windows Vista, Windows Vista 64-bit, Windows 7, Windows 7 64-bit, Windows 8, Windows 8 64-bit, Windows Server 2003 R2, Windows Server 2003 64-Bit, Windows Server 2008, Windows Server 2008 64-bit, Windows Server 2012 Standard, Windows Server 2012 Datacenter. Mac OS X 10.6 (Intel) or later; Linux
Font	PCL Resident Fonts: 80 Roman fonts PS3 Emulation Resident Fonts: 137 Roman Type 1 font
Interface	Standard Ethernet (10Base-T/100Base-TX/ 1000Base T); Hi-Speed USB 2.0, USB 1.1, USB Host

* When UK-211 is installed.

Fiery® IC-416 Embedded Image Controller

Processor	Intel Pentium G850, 3M Cache, 2.9 GHz, Dual Core
Operating System	Windows 2003 Server/2003 Server 64 bit/ Vista/Vista 64 bit/Windows 7 (x32, x64) Windows 8 (x32, x64)(PS3 only)/2008 Server (utility only)/2008 Server 64 bit (utility only)/ 2012 Server 64 bit (utility only); Mac x 10.4.11; UNIX/Linux
RAM	2 GB
Hard Disk Drive	500 GB
Page Description Language	Adobe PostScript 3 Version 3020, PCL6, PDF v1.7
Fonts	Adobe PS 138 Roman fonts, Agfa PDL 80 Roman fonts and 1 Bitmap font, Additional PCL 35 fonts, Euro Currency Resident font
Printer Driver	For PCL and PS: Windows 2000, Windows Server 2003 32/64 bit, Windows Vista 32/64 bit, Windows 7 (x32, x64), Windows 8 (x32, x64), Windows Server 2008 32/64 bit (utilities only), Windows Server 2012 64 bit (utility only); Mac OS X 10.3.9, 10.4 or later, 10.6; UNIX/Linux
Interface	10Base-T/100Base-TX/1000Base-T, USB
Protocols	Ethernet (Apple Talk, TCP/IP), HTTP/HTTPS, SSL/TLS for HTTPS, SNMP, SMB, Port9100 (Bi-Directional), IPP, LDAP, IPV6 Phase II, SNMP v3
Utilities	ColorWise® Pro Tools 3.7 Command Workstation™ 4.5 (for Windows) Command Workstation™ 1.3 (for Mac) Fiery® Remote Scan 5.4 (TWAIN plug-in) Fiery® Web Tools 3.0
Software	Standard: Fiery® Command Workstation ColorWise Tools Fiery® Secure Erase Fiery® Spot-On Fiery® WebTools Remote Fiery® Scan Fiery® VUE Optional: Fiery® Productivity Package Fiery® Hot Folders/Virtual Printers Fiery® Auto Trapping Fiery® SeeSequence Impose Fiery® SeeSequence Compose Fiery® SeeSequence Impose & Compose Suite Fiery® Color Profiler Suite v4.0 ES-2000 ES-2000 Spectrophotometer

Network Functions

Sending Scanned Data in an Email Message

Scanned data can be sent to a specified Email address. The destination is specified from the touch panel of this machine and the scanned data is sent as an Email attachment.

Sending Scanned Data as Files (FTP)

Scanned data is uploaded to a specified FTP server. The FTP server address, login password, and other information are entered from the touch panel of this machine. The data files uploaded to the FTP server can be downloaded from a computer on the network.

Sending Scanned Data to a Computer on the Network (SMB)

Scanned data can be sent to a shared folder on a specified computer. The name of the destination computer, login password, and other information are entered from the touch panel of this machine.

Saving Scanned Data in Boxes

Scanned data is uploaded to a specified web server. The host name, file path, user name, and password are entered on the touch panel of the machine. The data files uploaded to the server can be downloaded from a computer on the network.

Using the Machine as a Scanner

This machine can best used as a scanner. The scanner can be controlled from a PC connected to the network, and the scanned image can be loaded into an application on the PC to be processed.

Web Service (Standard)

This machine can be used to access the Internet. Standard LK-101 v3 and UK-211 required.

Print Drivers

Page Desc. Language	Print Driver	Supported Operating Systems
PCL Driver	Konica Minolta PCL Driver	Windows Server 2003, Standard Edition (Service Pack 1 or later) Windows Server 2003, Enterprise Edition (Service Pack 1 or later) Windows Server 2003 R2, Standard Edition Windows Server 2003 R2, Enterprise Edition Windows XP Professional x64 Edition Windows Server 2003 Standard x64 Edition Windows Server 2003, Enterprise x64 Edition Windows Server 2003 R2, Standard x64 Edition Windows Server 2003 R2, Enterprise x64 Edition Windows Vista Business* Windows Vista Enterprise* Windows Vista Home Basic* Windows Vista Home Premium* Windows Vista Ultimate* Windows Server 2008 Standard* Windows Server 2008 Enterprise* Windows Server 2008 R2 Standard Windows Server 2008 R2 Enterprise Windows 7 Home Basic* Windows 7 Home Premium* Windows 7 Professional* Windows 7 Enterprise* Windows 7 Ultimate* Windows 8* Windows 8 Pro* Windows 8 Enterprise* Windows Server 2012 Datacenter Windows Server 2012 Standard *Supports 32-bit (x86) or 64-bit (x64) Environments

continued

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Print Drivers continued

Page Description Language	Print Driver	Supported Operating Systems
PostScript 3 Emulation	Konica Minolta PostScript 3 Driver	Windows Server 2003, Standard Edition (Service Pack 1 or later) Windows Server 2003, Enterprise Edition (Service Pack 1 or later) Windows Server 2003 R2, Standard Edition Windows Server 2003 R2, Enterprise Edition Windows XP Professional x64 Edition Windows Server 2003 Standard x64 Edition Windows Server 2003, Enterprise x64 Edition Windows Server 2003 R2, Standard x64 Edition Windows Server 2003 R2, Enterprise x64 Edition Windows Vista Business* Windows Vista Enterprise* Windows Vista Home Basic* Windows Vista Home Premium* Windows Vista Ultimate* Windows Server 2008 Standard* Windows Server 2008 Enterprise* Windows Server 2008 R2 Standard Windows Server 2008 R2 Enterprise Windows 7 Home Basic* Windows 7 Home Premium* Windows 7 Professional* Windows 7 Enterprise* Windows 7 Ultimate* Windows 8* Windows 8 Pro* Windows 8 Enterprise* Windows Server 2012 Datacenter Windows Server 2012 Standard *Supports 32-bit (x86) or 64-bit (x64) Environments

Page Description Language	Print Driver	Supported Operating Systems
XPS Driver Emulation	Konica Minolta XPS Driver	Windows Vista Business* Windows Vista Enterprise* Windows Vista Home Basic* Windows Vista Home Premium* Windows Vista Ultimate* Windows Server 2008 Standard* Windows Server 2008 Enterprise* Windows Server 2008 R2 Standard Windows Server 2008 R2 Enterprise Windows 7 Home Basic* Windows 7 Home Premium* Windows 7 Professional* Windows 7 Enterprise* Windows 7 Ultimate Windows 8* Windows 8 Pro* Windows 8 Enterprise* Windows Server 2012 Datacenter Windows Server 2012 Standard *Supports 32-bit (x86) or 64-bit (x64) Environments
PostScript PPD Driver	Konica Minolta PostScript PPD Driver	Mac OSX 10.6, 10.7, 10.8, 10.9, 10.10

continued

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Print Drivers continued

Page Description Language	Print Driver	Supported Operating Systems
Fax Driver	Konica Minolta	Windows Server 2003, Standard Edition (Service Pack 1 or later) Windows Server 2003, Enterprise Edition (Service Pack 1 or later) Windows Server 2003 R2, Standard Edition Windows Server 2003 R2, Enterprise Edition Windows XP Professional x64 Edition Windows Server 2003 Standard x64 Edition Windows Server 2003, Enterprise x64 Edition Windows Server 2003 R2, Standard x64 Edition Windows Server 2003 R2, Enterprise x64 Edition Windows Vista Business* Windows Vista Enterprise* Windows Vista Home Basic* Windows Vista Home Premium* Windows Vista Ultimate* Windows Server 2008 Standard* Windows Server 2008 Enterprise* Windows Server 2008 R2 Standard Windows Server 2008 R2 Enterprise Windows 7 Home Basic* Windows 7 Home Premium* Windows 7 Professional* Windows 7 Enterprise* Windows 7 Ultimate* Windows 8* Windows 8 Pro* Windows 8 Enterprise* Windows Server 2012 Datacenter Windows Server 2012 Standard *Supports 32-bit (x86) or 64-bit (x64) Environments

Print Specifications

Item	Specifications
Model	Built-in print system
Power Supply	Common with the main body
CPU	1.2 GHz (shared with copier)
RAM	4 GB (when UK-211 is installed)
Hard Disk	250 GB (standard)
Interface	Standard Ethernet (10Base-T, 100Base-TX or 1000Base-T) Standard USB 2.0, USB 1.1, USB Host
Frame Type	Ethernet 802.2 Ethernet 802.3 Ethernet II Ethernet SNAP
Supported Protocols	TCP/IP (IPv4/IPv6), BOOTP, ARP, ICMP, DHCP, DHCPv6, AutoIP, SLP, SNMP, FTP, LPR/LPD, RAW Socket, SMB over TCIP/IP, IPP, HTTP, POP, SMTP, LDAP, NTP, SSL, IPX, AppleTalk, Bonjour, NetBEUI, WebDAV, DP-WS, S/MIME, IPsec, DNS, Dynamic DNS, LLMNR, LLTD, SSDP, SOAP
Print Speed Color/BW	C368: 36 ppm (Letter \square /Simplex and Duplex) C308: 30 ppm (Letter \square /Simplex and Duplex) C258: 25 ppm (Letter \square /Simplex and Duplex)
First Print Time	C368: Full Color: 6.9 sec. or less B&W: 5.3 sec. or less C308: Full Color: 7.3 sec. or less B&W: 5.6 sec. or less C258: Full Color: 7.5 sec. or less B&W: 6.1 sec. or less
Operating Environment Conditions	50° to 86° F, 15-85% RH
Resolution	600 x 600 dpi (1800 equivalent x 600 dpi), 1200 x 1200 dpi
Data Processing	600 x 600 dpi (Printing and faxing operations) 400 x 400 dpi (faxing operations) 200 x 200 dpi (faxing operations)
Supported Paper Sizes	Width: 4" to 12.25" Length: 6" to 18"
Printer Fonts	PCL Resident Fonts 80 Roman fonts PS3 Emulation resident Fonts: 137 Roman Type 1 fonts
Compatible Computers	IBM PC or compatible and Macintosh (Power PC or Intel Processor)

continued

Konica Minolta bizhub C368/C308/C258

Specification & Installation Guide



Print Specifications continued

Item	Specifications
Supported Operating Systems	<p>Server Windows Server 2003, Server 2003 R2, Server 2008, Windows Server 2003 x64, Server 2003 R2 x64, Server 2008 x64, Server 2008 R2 x64, Server 2012 x64</p> <p>Client Vista, 7/8, Windows XP x64, Vista x64, 7 x64, 8 x64, Windows Server 2003, Server 2003 R2, Server 2008, Windows Server 2003 x64, Server 2003 R2 x64, Server 2008 x64; Mac OS X 10.6, 10.7, 10.8, 10.9, 10.10 Intel ver.; Red Hat Enterprise Linux</p>
Network	Ethernet (TCP/IP)
Web Browser*	<p>Vista/7/8/Server 2003/Server 2008/Server 2008 R2/Server 2012:</p> <ul style="list-style-type: none"> • Microsoft Internet Explorer 6/7/8/9/10 • Mozilla Firefox 3.5 or later <p>Mac OS 9.x/Mac OS 10.x:</p> <ul style="list-style-type: none"> • Mozilla Firefox 1.0 or later • Mozilla Firefox 3.5 or later <p>Linux:</p> <ul style="list-style-type: none"> • Mozilla Firefox 3.5 or later <p>*JavaScript and cookies must be enabled on your web browser.</p>
Flash Player	<p>Adobe® Flash® Player</p> <ul style="list-style-type: none"> • Plug-in Version 9.0 or later is required to select Flash-based display or use the DATA Management Utility (font/macro's data management)

Scanning

Type	Full-Color Scanner
Scanning Size	11" x 17" to 5.5" x 8.5
Scanning Resolution	<p>Push Scanning: 600/400/300/200 dpi</p> <p>Pull Scanning: 600/400/300/200/100 dpi</p>
Scanning Speed (Color/B&W)	<p>DF-704:† Duplex: 160 opm (300 dpi) 110 opm (600 dpi)</p> <p>Simplex: 80 opm (300 dpi) 55 opm (600 dpi)</p> <p>DF-629:† Duplex: 37 opm (300 dpi) 26 opm (600 dpi)</p> <p>Simplex: 80 opm (300 dpi) 55 opm (600 dpi)</p>
Main Function	Scan-to-Email, Scan-to-User Box (HDD), Scan-to-FTP, Scan-to-USB, Scan-to-SMB (Desktop Folder), Scan-to-Me, Scan-to-Home, Scan-to-Scan Server, Network Twain (via Ethernet TCP/IP), Scan-to-WebDAV, WS-Scan
Interface	10Base-T/100Base-TX/1000Base-T
Protocol	TCP/IP (FTP, SMB, SMTP)
Support OS	Windows XP, Windows Vista, Windows 7, Windows 8, Windows Server 2003, Windows Server 2008, Windows Server 2008 R2, Windows Server 2012
Output Format	Single TIFF, Multi TIFF, JPEG, PDF, Compact PDF, XPS, Compact XPS TIFF (MH, MMR), PDF (MH, MMR, JPEG), JPEG, Outline PDF, PPTX, Searchable PDF, PDF/A, Linearized PDF
Driver	TWAIN (XP/XP 64-bit/Vista/Vista 64-bit/7/7 64-bit/8/8 64-bit), TWAIN Driver, HDD TWAIN Driver
Address Setting	LDAP, Import/Export address from PageScope Web Connection
Authentication	SMTP Authentication, Network User Authentication (Active Directory, Novell, NDS, NTLM ver. 1, NTLM ver. 2, LDAP)

†Text and image scanning speeds vary depending on the type of document.

Software Tools

Network & Device Management

PageScope Data Administrator
Driver Packaging Utility
HDD BackUp Utility
Log Management Utility
PageScope Download Manager
PageScope Net Care Device Manager (Standard)

User Tools

PageScope Direct Print
PageScope Box Operator
PageScope Print Status Notifier
Copy Protection Utility
Print Utility for Unix
PageScope Web Connection

Management Tools

bizhub vCare

Security

Because information assets are critical, a company needs to effectively protect against the many security risks it faces.

- 1) Prevent Leaks of proprietary, confidential or personal information
- 2) Prevent unauthorized use of equipment
- 3) Effective data encryption
- 4) Protect data from being altered, duplicated or deleted
- 5) Prevent unauthorized access to data via the Internet
- 6) Protect against cyber attacks
- 7) Manage log history

Protective Functions:

- HDD Sanitizing — Deletes Graphic Data (when disposing of machine)
- Job Erase — Deletes Graphic Data (after each job)
- Lock Job (when printing confidential documents)
- Protect data by requiring department name and 8-digit password
- Account Track
- HDD Lock
- Prevent Unauthorized Use
- Operation Log with 2,000-event memory
- HDD Encryption
- PDF Scan Encryption
- Protective Functions
- Copy Protection
- Network Authentication
- Single Sign-on Authentication
- SMTP Authentication for Email
- SSL/TSL Compatibility for PS Web Connection, PS Data Administrator and LDAP Server
- Scan Data Encryption (TCP/socket SSL Compatibility)
- LDAP Authentication
- Box Operator Data Encryption
- Verification of Box Data Receipt
- IP Address Filtering
- IP v6
- Encrypted Network Password Printing
- Scan-to-USB Memory with User Authentication
- Print-from-USB Memory with User Authentication
- S/MIME/Encryption
- FIPS 140-2 Compliance
- IEEE 2600.1 Security Ready
- ISO 1540 EAL

Optional Protective Functions:

- HD-524 Hard Disk Mirroring
- SC-508 Copy Guard Kit
- LK-102 v3 Enhanced PDF Scan Encryption
- AU-102 Biometric Authentication Unit
- AU-204H Magnetic Stripe Card Reader
- AU-205H IC Card Reader
- AU-211P CAC/PIV Solution with Certificate

Paper Considerations

Paper Size Conversion Chart

Paper	Letter	Letter R	Legal	Tabloid	Statement	Statement R
Measurement	8.5" x 11"	11" x 8.5"	8.5" x 14"	11" x 17"	5.5" x 8.5"	8.5" x 5.5"

Paper Weight Conversion Chart

gsm	Bond	Offset	Cover	Tag	Index	Point	Bristol	Caliper	
								inches	mm
60.20	16	40	22	37	33	3.2	27.4	0.0032	0.081
67.72	18	45	24	41	37	3.6	30.9	0.0036	0.092
75.20	20	50	28	46	42	3.8	34.3	0.0038	0.097
90.30	24	60	33	56	50	4.8	41.2	0.0048	0.120
105.35	28	70	39	64	58	5.8	48.1	0.0058	0.147
109.11	29	73	40	62	60	6.0	49.8	0.0060	0.152
116.63	31	81	45	73	66	6.1	53.2	0.0061	0.155
131.68	35	90	48	80	74	6.2	60.1	0.0062	0.157
135.45	36	90	50	82	75	6.8	61.8	0.0068	0.173
146.73	39	100	54	90	81	7.2	67.0	0.0072	0.183
150.50	40	100	56	93	83	7.3	68.7	0.0073	0.185
161.78	43	110	60	100	90	7.4	73.8	0.0074	0.188
165.55	44	110	61	102	92	7.6	75.5	0.0076	0.193
176.83	47	120	65	108	97	8.0	80.7	0.0078	0.198
199.41	53	135	74	122	110	9.0	91.0	0.0085	0.216
203.17	54	137	75	125	113	9.0	92.7	0.0090	0.229
218.22	58	146	80	134	120	9.5	99.6	0.0092	0.234
244.56	65	165	90	150	135	10.0	111.6	0.0095	0.241
252.08	67	170	93	156	140	10.5	115.1	0.0100	0.250
270.90	72	183	100	166	150	11.0	123.7	0.0110	0.289
285.95	76	192	105	175	158	13.0	130.5	0.0130	0.330
308.52	82	208	114	189	170	14.0	140.8	0.0140	0.356
312.00	87	220	120	200	180	15.0	142.4	0.0150	0.380
385.06	105	267	146	244	220	18.0	175.8	0.0175	0.445

Paper Type Specifications

Thin Paper

Thin Paper is paper weighing between 14 lb. to 15.5 lb. bond. It can be fed via any paper tray, except the bypass tray.

Normal (Plain Paper)

The Normal paper is used for copying in general and is called "PPC paper." The normal paper is usually not a recycled paper. Specify [Normal] to the tray to which the normal paper or the recycled paper is loaded for copying.

Recycled Paper

Recycled Paper is identified as recycled paper along with a designation as to the percentage of the paper that is actually made from recycled materials. Generally speaking, these devices will support recycled paper weighing between 16 lb. to 24 lb. bond.

Thick Paper 1

Thick Paper 1 is paper weighing between 24.25 to 32 lb. bond. It can be fed via any paper tray.

Thick Paper 1+

Thick Paper 1+ is paper weighing between 32.25 to 41.75 lb. bond. It can be fed via any paper tray.

Thick Paper 2

Thick Paper 2 is paper weighing between 42 to 55.5 lb. bond. It can be fed via any paper tray.

Thick Paper 3

Thick Paper 3 is paper weighing between 55.75 to 68 lb. bond. It can be fed via any paper tray.

Thick Paper 4

Thick Paper 4 is paper weighing between 68.25 to 79.75 lb. bond. It can be fed via the bypass tray.

Special Paper

A thin or other specialty type paper that falls within the paper weight specification and appears on the Recommended Paper Stock List.

OHP

Specify [OHP] to a tray to which transparent films are loaded. It can be fed only via the bypass tray (20 sheets or less). Black and white printing supported only.

Envelopes

Specify [Envelope] for bypass tray.

Postcards

A Postcard is defined as a rectangular piece of the thick paper or thin cardboard. This product series supports 4" x 6" size postcards. Postcards are fed only via the Bypass Tray.

Tab Dividers

A stiff sheet with divider tabs. Tab Divider sheets can only be fed (long edge only) via the Bypass Tray.

Banner Paper

An 11.75" x 47.25" paper that is fed via the Bypass Tray to create banners.

Konica Minolta bizhub C368/C308/C258

Specification & Installation Guide



Recommended Paper Stocks

Plain Paper – Color

Class.	Weight	Brand of Paper	Size
Plain Paper	20 lb. Bond (75 gr)	Domtar Recycled Copy (30% Post Consumer)	8.5" x 11"
Plain Paper	22 lb. Bond (80 gr)	Konica Minolta CF Paper	8.5" X 11"
Plain Paper	22 lb. Bond (80 gr)	Konica Minolta CF Paper	11" X 17"
Plain Paper	22 lb. Bond (80 gr)	Konica Minolta CF Paper	12" X 18"
Plain Paper	24 lb. Bond (89 gr)	SMART Carnival Stellar White	8.5" x 11"
Plain Paper	24 lb. Bond (89 gr)	SMART Carnival White	8.5" x 11"
Plain Paper	24 lb. Bond (90 gr)	SMART Synergy Bond 25% Cotton	8.5" x 11"
Plain Paper	24 lb. Bond (90 gr)	Domtar Microprint Laser	8.5" x 11"
Plain Paper	24 lb. Bond (90 gr)	Mohawk Color Copy 98 Bright White	8.5" x 11"
Thick 1	28 lb. Bond (105 gr)	Konica Minolta CF Paper	8.5" X 11"
Thick 1	28 lb. Bond (105 gr)	Konica Minolta CF Paper	11" X 17"
Thick 1	28 lb. Bond (105 gr)	Konica Minolta CF Paper	12" X 18"
Thick 1	28 lb. Bond (105 gr)	Domtar Microprint Color Copy	8.5" x 11"
Thick 1	32 lb. Bond (120 gr)	Hammermill Color Copy	8.5" X 11"
Thick 1	32 lb. Bond (120 gr)	Hammermill Color Copy Paper – Photo White	8.5" x 11"
Thick 2	60 lb. Cover (163 gr)	Hammermill Color Copy	8.5" X 11"
Thick 3	80 lb. Cover (216 gr)	Hammermill Color Copy	8.5" X 11"
Thick 4	100 lb. Cover (271 gr)	Hammermill Color Copy	8.5" X 11"

Plain Paper – B/W

Plain Paper	20 lb. Bond (75 gr)	Hammermill Tidal MP	8.5" X 11"
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Single-Sided Glossy

Thick 3	10pt Cover (219 gr)	SMART Kromekote Laser High Gloss Coated One Side 10 pt Cover	8.5" x 11"
Thick 3	12pt Cover (247 gr)	SMART Kromekote Laser High Gloss Coated One Side 12 pt Cover	8.5" x 11"

Double-Sided Glossy

Thick 1	32 lb. Bond (120 gr)	Mohawk Color Copy Gloss Pure White	8.5" x 11"
Thick 1	80 lb. Text (118 gr)	Sappi Opus Gloss	8.5" x 11"
Thick 1	90 lb. Text (133 gr)	SMART Kromekote Laser High Gloss Coated Two Sides*	8.5" x 11"
Thick 3	80 lb. Cover (216 gr)	Mohawk Color Copy Gloss Pure White	8.5" x 11"
Thick 3	80 lb. Cover (216 gr)	Sappi Opus Gloss Cover	8.5" x 11"

Double-Sided Glossy continued

Class.	Weight	Brand of Paper	Size
Thick 3	80 lb. Cover (216 gr)	Domtar Microprint Coated Laser Gloss Cover	8.5" x 11"
Thick 3	10 pt Cover (234 gr)	SMART Kromekote Laser High Gloss Coated Two Sides 10 pt Cover	8.5" x 11"
Thick 3	90 lb. Cover (237 gr)	SMART Kromekote® Plus C2S Cover	8.5" x 11"
Thick 4	100 lb. Cover (270 gr)	Mohawk Color Copy Gloss Pure White 100C	8.5" x 11"

Cover Stock

Thick 2	60 lb. Cover (163 gr)	Domtar Microprint Color Copy Cover	8.5" x 11"
Thick 2	65 lb. Cover (176 gr)	Domtar Microprint Color Copy Cover	8.5" x 11"
Thick 3	80 lb. Cover (216 gr)	Domtar Microprint Coated Laser Matte Cover	8.5" x 11"
Thick 3	80 lb. Cover (216 gr)	Domtar Microprint Color Copy Cover	8.5" x 11"
Thick 3	80 lb. Cover (216 gr)	SMART Carnival White Cover	8.5" x 11"
Thick 3	140 lb. Index (255 gr)	Wausau Exact Index	8.5" x 11"
Thick 3	80 lb. Cover (216 gr)	Mohawk Color Copy 98 Bright White	8.5" x 11"
Thick 4	100 lb. Cover (270 gr)	Mohawk Color Copy 98 Bright White	8.5" x 11"

Labels

Avery Dennison 5889 Postcard	8.5" x 11"
Avery Dennison 6870 (30 labels per sheet)	8.5" x 11"
Avery Dennison 6873 (8 labels per sheet)	8.5" x 11"
Avery Dennison 6876 (2 labels per sheet)	8.5" x 11"
Avery 6878 4-UP labels for Color Laser	8.5" x 11"

Envelopes

Envelopes 24 lb.	Preservation Wove 5789 #6 3/4	3.85" x 6.5" (98 x 165 mm)
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Tab Dividers

Avery Dennison 20406 (long edge only)	8.5" x 11"
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Specialty Paper

Thick 2	—	TECHNI-Print 9721PO* T-shirt Transfer Paper**	8.5" x 11"
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Transparency

OHP Sheets	—	3M-PP2500	8.5" x 11"
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Banner Paper

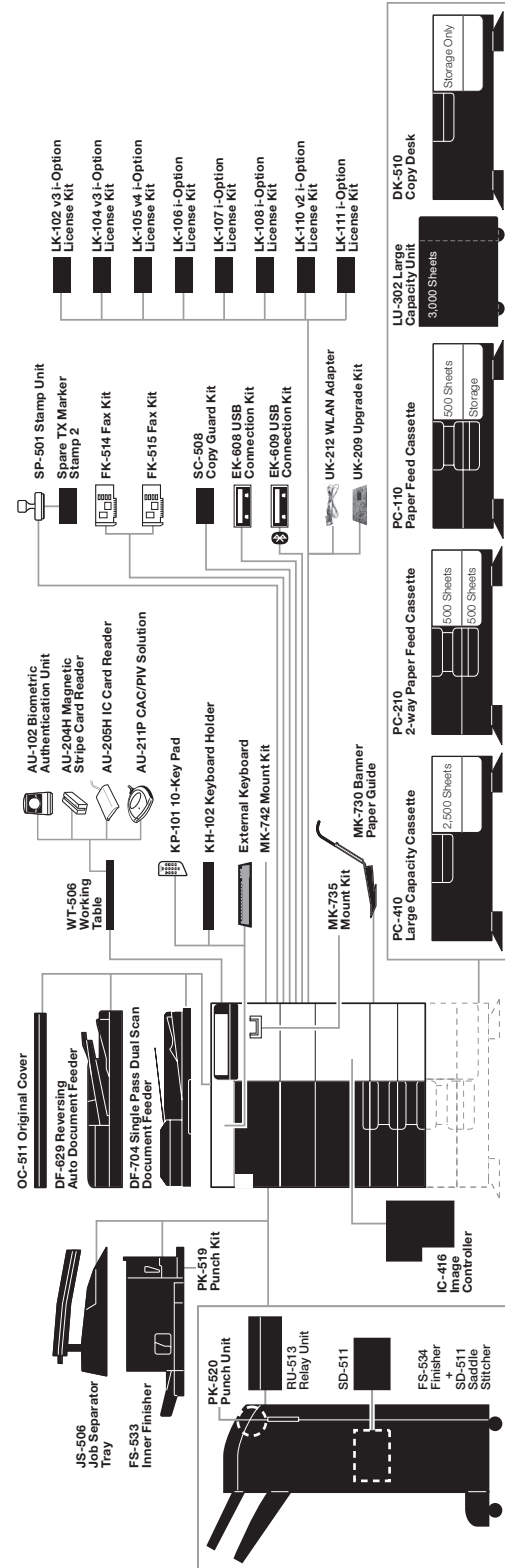
Banner Mode/Thick 1	100 lb. Text (180 gr)	Konica Minolta Banner Paper	11.75" x 47.25"
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* Paper cannot be used in a high humidity environment.

** T-Shirt Transfer Paper: The C368/C308/C258 Series should not be used solely for T-shirt transfer applications. T-Shirt transfer paper should be used on a limited basis, not to exceed a 250-sheet per run maximum. If a misfeed should occur, clear it immediately (due to the odor) and then run 15-25 sheets of regular plain paper (20 lb.) through the device to clean the fusing rollers. T-Shirt Transfer paper cannot be used in high humidity environments.

How to Build a System for the bizhub C368/C308/C258 Digital Printer/Copier/Scanner/Fax (from start to finish)

- Step 1: Base Unit**
- C368/C308/C258 Digital Color Printer/Copier/Scanner
Includes PS, PCL & XPS Controller, Standard Web Browser, 2 GB Standard Memory plus UK-211 2 GB Memory Expansion, Duplex Unit, 250 GB HDD, USB Interfaces for Scan-to-USB Thumb Drive/Print-from-USB Thumb Drive, USB Local Printing, Optional Authentication Device Connection, Service USB Firmware Updates, CMYK Developer Units, Color Drum Units and Black Drum Unit
- Step 2: Document Handling Options (Required)**
Select one of the following:
- OC-511 Original Cover
 - DF-629 Reversing Automatic Document Feeder
 - DF-704 Single Pass Dual Scan Document Feeder
- Step 3: Paper Supply/Cabinet Options (Required)**
Select one of the following:
- PC-410 Large Capacity Cassette (2,500 sheets - Letter crosswise only)
 - PC-210 2-way Paper Feed Cassette (Two 500-sheet Universal Cassettes)
 - PC-110 Paper Feed Cassette (One 500-sheet Universal Cassette; Includes 1 storage drawer)
 - DK-510 Copy Desk (Storage Drawer Only)
 - LU-302 Large Capacity Unit (3,000 Sheets A4/Letter)
- Step 4: Output Options**
- JS-506 Job Separator Tray
 - FS-533 Inner Finisher
 - PK-590 Punch Unit
 - RU-513 Relay Unit
 - SD-511
 - FS-504 Finisher Image
 - SD-511 Saddle Stitcher
- Step 5: Analog Fax Options**
- PK-520 Punch Kit (for FS-534)
 - FS-534 + SD-511 Floor Finisher (50 Sheets) + SD-511 Saddle Stitcher Kit
 - RU-513 Relay Unit (Required to install FS-534)
 - FS-533 Inner Finisher (50-sheet stapling)
 - PK-519 Punch Kit (for FS-533)
 - FK-514 Fax Kit (Lines 1 & 2)
 - FK-515 Fax Kit (Lines 3 & 4) (Requires one MK-742 Mount Kit)
 - MK-742 Mount Kit (Required to add FK-515 Fax Kit(s) for Lines 3 & 4)
 - SP-501 Stamp Unit (Installed in optional Document Feeder)
 - Spare TX Marker Stamp 2
- Step 6: Controller Options**
- Standard Controller (PCL/PS/XPS)
 - IC-416 Fiery Image Controller
 - VI-508 Interface Kit (Required for IC-416)
- Step 7: Additional Options**
- AU-102 Biometric Authentication Unit (Requires WT-506 Working Table)
 - AU-204H Magnetic Stripe Card Reader (Requires WT-506 Working Table)
 - AU-205H IC Card Reader (Requires WT-506 or MK-735)
 - AU-211P CAC/PIV Solution (Requires WT-506 Working Table)
 - EK-608 USB Connection Kit (Adds USB 2.0 for External Keyboard and/or Voice Guidance)
 - SP-501 Stamp Unit Spare TX Marker Stamp 2
 - FK-514 Fax Kit
 - FK-515 Fax Kit
 - SC-508 Copy Guard Kit
 - EK-608 USB Connection Kit
 - EK-609 USB Connection Kit
 - UK-212 WLAN Adapter
 - UK-209 Upgrade Kit
 - LK-102 v3 i-Option License Kit
 - LK-104 v3 i-Option License Kit
 - LK-105 v4 i-Option License Kit
 - LK-106 i-Option License Kit
 - LK-107 i-Option License Kit
 - LK-108 i-Option License Kit
 - LK-110 v2 i-Option License Kit (OOXML file conversion, Enhanced Image Data, Combines LK-102 & LK-105 functionality)
 - LK-111 i-Option License Kit (ThinPrint Client Support)
 - MK-730 Banner Paper Guide
 - MK-735 Mount Kit (for AU-205H)
 - SC-508 Copy Guard Kit (CopyGuard/ Password Copy Protection; 2 Kits required for DF-704)
 - UK-211 Memory Expansion
 - UK-212 WLAN Adapter
 - WT-506 Working Table



Konica Minolta bizhub C368/C308/C258

Specification & Installation Guide



KONICA MINOLTA

Accessory Options for bizhub C368/C308/C258 Digital Color Printer/Copier/Scanner/Fax

ACCESSORIES	ITEM NO.	DESCRIPTION	NOTES
BASE UNIT			
C368*	A7PU011X001	C368 Color Printer/Copier/Scanner	Includes PS, PCL & XPS Controller, Standard Web Browser, 2 GB Standard Memory plus UK-211 2 GB Memory Expansion, Duplex Unit, 250 GB HDD, USB Interfaces for Scan-to-USB Thumb Drive/Print-from-USB Thumb Drive, USB Local Printing, Optional Authentication Device Connection, Service USB Firmware Updates, CMYK Developer Units, Color Drum Units and Black Drum Unit.
C308*	A7PY011X001	C308 Color Printer/Copier/Scanner	Includes PS, PCL & XPS Controller, Standard Web Browser, 2 GB Standard Memory plus UK-211 2 GB Memory Expansion, Duplex Unit, 250 GB HDD, USB Interfaces for Scan-to-USB Thumb Drive/Print-from-USB Thumb Drive, USB Local Printing, Optional Authentication Device Connection, Service USB Firmware Updates, CMYK Developer Units, Color Drum Units and Black Drum Unit.
C258*	A7R0011X001	C258 Color Printer/Copier/Scanner	Includes PS, PCL & XPS Controller, Standard Web Browser, 2 GB Standard Memory plus UK-211 2 GB Memory Expansion, Duplex Unit, 250 GB HDD, USB Interfaces for Scan-to-USB Thumb Drive/Print-from-USB Thumb Drive, USB Local Printing, Optional Authentication Device Connection, Service USB Firmware Updates, CMYK Developer Units, Color Drum Units and Black Drum Unit.
DOCUMENT HANDLING OPTION			
OC-511	A3PMWY1	Original Cover	Required if DF-629 or DF-704 is not installed.
DF-629	A87RWY1	Reversing Automatic Document Feeder	100-Sheet Reversing Automatic Document Feeder.
DF-704	A85GWY1	Single Pass Dual Scan Document Feeder	100-Sheet Single Pass Dual Scan Document Feeder.
PAPER SUPPLY/CABINET OPTIONS			
PC-410	A2XM019	Large Capacity Cassette	2,500 sheets; Letter-Size (Portrait) Paper only.
PC-210	A2XMWY8	2-way Paper Feed Cabinet	Two 500-sheet Universal Paper Cassettes.
PC-110	A2XMWY7	Paper Feed Cabinet	One 500-sheet Universal Paper Cassette and Storage Drawer.
LU-302	A87VW11	Large Capacity Unit (3,000 sheets)	Large Capacity Cassette housing 8.5" x 11" paper.
DK-510	7640018680	Copy Desk	Storage Drawer only.
OUTPUT OPTIONS			
JS-506	A2YVWY2	Job Separator Tray	Separates print, copy and fax jobs; can be installed if finisher is not attached; supports banner printing.
FS-534	A3EPWY3	Floor Finisher	50-sheet floor finisher required to support PK-520 Punch Kit. Supports banner printing. RU-513 required.
FS-534** + RU-513	A3EPWY3X002	Floor Finisher + Relay Unit	50-sheet floor finisher plus relay unit required for installation. Bundle not sold in Canada.
FS-534 + SD-511	A3EPWYE	Floor Finisher (50 Sheets) + SD-511 Saddle Stitcher	50-sheet floor finisher equipped with SD-511 Saddle Stitcher that provides center-stapled and folded booklets (up to 20-page booklets), half-fold and tri-fold (for letter-size paper only); Supports banner paper.
FS-534** + SD-511 + RU-513	A3EPWYEX002	Floor Finisher + Saddle Stitcher + Relay Unit	50-sheet floor finisher plus saddle stitcher plus relay unit required for installation. Bundle not sold in Canada.
RU-513	A87JWY1	Relay Unit	Required for FS-534. Relay Unit for FS-534 and FS-534+SD-511. Required to install FS-534 or FS-534+SD-511 on bizhub C368, C308 or C258.
FS-533	A2YUWY2	Inner Finisher	50-sheet Inner Staple Finisher required to support PK-519 Punch Kit. Supports banner printing.
PK-519	A3EUW12	2/3-Hole Punch Kit for FS-533	2/3-Hole Punch Kit for FS-533 Inner Finisher.
PK-520	A3ETW11	2/3-Hole Punch Kit for FS-534	2/3-Hole Punch Kit for FS-534.
ANALOG FAX OPTIONS			
FK-514	A883011	Fax Kit for Lines 1 & 2	Supports single line fax capabilities; Add second FK-514 Fax Kit for dual line fax capabilities.
FK-515	A884W11	Fax Kit for Lines 3 & 4	Supports third and fourth fax line capabilities; Must have two (2) FK-514 Fax Kits for 1st and 2nd Fax Lines; Add one FK-515 for Line 3 and a second FK-515 for line 4. One MK-742 Mount Kit required.
MK-742	A886WY1	FK-515 Fax Mount Kit	Mount Kit required to add FK-515 Fax Kit(s) for Line 3 and Line 4 fax support. Only one MK-742 Mount Kit required.
SP-501	4614506	Stamp Unit	Installed on RADF
Spare Fax Stamp	4614511	Spare TX Marker Stamp 2	Installed on RADF

* Direct Channel and Canada should refer to price book for item numbers.
** FS-534 and RU-513 sold separately in Direct Channel and Canada.

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Accessory Options for bizhub C368/C308/C258 Digital Color Printer/Copier/Scanner/Fax

ACCESSORIES	ITEM NO.	DESCRIPTION	NOTES
CONTROLLER OPTIONS			
IC-416	A8CTWY1	Fiery Image Controller	Equipped with 160 GB HDD. Requires Fiery Controller Interface Kit VI-508.
VI-508	A887WY1	Fiery Controller Interface	Interface Kit for IC-416 Fiery Image Controller.
ADDITIONAL OPTIONS			
AU-102	A0X9WY1	Biometric Authentication Unit	Scans finger vein patterns to enable users to gain access to the device. Requires WT-506 Working Table.
AU-204H	7640013468	Magnetic Stripe Card Reader	Allows authorized access to the MFP using Magnetic Stripe Cards. Requires WT-506 Working Table.
AU-205H	R5427000138466	IC Card Reader	Allows access to the MFP via HID Proximity Cards. Working table recommended. Supports IC card types.
AU-211P	—	CAC/PIV Solution with Certificate	Requires WT-506 Working Table. Contact your local Government Account Manager for information.
EK-608	A88AWY2	Local USB Interface Kit	Required to connect optional external keyboard and supports Voice Guidance functions available with optional LK-104 v3. Also required for UK-212.
EK-609	A87DWY2	Local USB Interface Kit	Required to connect optional external keyboard, provides Bluetooth printing support for mobile phone link and supports Voice Guidance functions available with optional LK-104 v3. Also required for UK-212.
LK-102 v3	A0PD016	i-Option License Kit	Enables 128-bit AES PDF encryption; PDF File and password are encrypted; provides PDF/A (1a/1b) and Linearized PDF file format support. Please note that the LK-110 V2 supports the same functions as the LK-102 v3, therefore, both license kits cannot be installed on the same device.
LK-104 v3	A0PD017	i-Option License Kit	Provides Voice Guidance functionality. Requires UK-211 Memory Expansion.
LK-105 v4	A0PD118	i-Option License Kit	Provides Searchable PDF functionality. Requires UK-211 Memory Expansion. Please note that the LK-110 v2 supports the same functions as the LK-105 v4, therefore, both license kits cannot be installed on the same device.
LK-106	A0PD019	i-Option License Kit	Provides Bar Code Font printing support. Requires UK-211 Memory Expansion.
LK-107	A0PD01F	i-Option License Kit	Provides Unicode Font printing support. Requires UK-211 Memory Expansion.
LK-108	A0PD11G	i-Option License Kit	Provides OCR Font printing support. Requires UK-211 Memory Expansion.
LK-110 v2	A0PD11U	i-Option License Kit	Provides DOCX, XLSX format file conversion, Fax to searchable PDF, convert print data in box to compact PDF, combines LK-102 (encrypted PDF) & LK-105 (searchable PDF/OCR) functionality. Requires UK-211 Memory Expansion. Please note that if you install the LK-110 V2 on a device, you cannot install the LK-102 v3 and/or LK-105 v4 on the same device.
LK-111	A0PD01K	i-Option License Kit	Provides ThinPrint client support.
MK-730	A4MEWY2	Banner Paper Guide	Enables automatic feeding of banner paper. Up to 10 banner sheets supported.
MK-735	A4NMWY1	Mount Kit	Internal Mount Kit for AU-205H. Required if these card readers are not mounted externally using the WT-506.
External Keyboard	7640006869	External Keyboard	Computer type keyboard for alphanumeric data entry (alternative to the standard QWERTY keyboard available on the MFP's LCD). Requires either EK-608 or EK-609 and KH-102.
KH-102	A4NRWY1	Keyboard Holder	Holds the optional QWERTY keyboard in place on the MFP.
KP-101	A64TWY3	10-Key Pad	Optional 10 Key Pad. Supports Voice Guidance function available with optional LK-104 v3 i-Option License Kit. Affixes to the right-hand side of the control panel.
SC-508	A4MMWY1	Copy Guard Kit (Copy Guard/ Password Copy Protection)	Detects documents with Copy Protect patterns applied. Gives users the option to prevent copying sensitive documents or allows copying when password is entered. Dual Scan models require two SC-508 Security Kits.
UK-211	—*	2 GB Memory Expansion	Required for Registered Overlay. Also required for concurrent use of Web Browser and Stamp Print, Watermark, Date/Time Print, Header/Footer, Image Overlay, or Management Number.
UK-212	A87EWY2	Wireless LAN Upgrade Kit	Provides wireless secure connection for printing, scanning and Authentication. Requires either EK-608 or EK-609.
WT-506	A0W4WY3	Working Table	Required for AU-102 Biometric Unit, AU-204H Magnetic Stripe Card Reader, AU-205H IC Card Reader, and AU-211P CAC/PIV Solution and if these card readers are not mounted internally using the MK-735.

* Direct Channel should refer to price book for item numbers.

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Specification & Installation Guide



CONSUMABLE YIELDS*

CONSUMABLE	ITEM NO.	YIELD	
DV313K Developing Unit – Black	A7U403D	600,000	
DV313C Developing Unit – Cyan	A7U40KD	600,000	
DV313M Developing Unit – Magenta	A7U40ED	600,000	
DV313Y Developing Unit – Yellow	A7U408D	600,000	
DR313 Color Drum Unit	A7U40TD	(C368)	90,000
		(C308)	75,000
		(C258)	55,000
DR313K Black Drum Unit	A7U40RD	120,000	
TN324K Toner – Black	A8DA130	28,000	
TN324C Toner – Cyan	A8DA430	26,000	
TN324M Toner – Magenta	A8DA330	26,000	
TN324Y Toner – Yellow	A8DA230	26,000	
Waste Toner Box	A4NNWY3	40,000	
Fusing Unit	A7PUR703000	600,000	
Intermediate Image Transfer Kit	A161R71300	300,000	
Staples SK-602 (For FS-534, SD-511 and FS-533)	14YK	5,000 x 3 pkg/case	

* Based on 5% total coverage.

Konica Minolta bizhub C368/C308/C258

Documentation Information



All documentation can be downloaded from MyKonicaMinolta.com by clicking on Product Reference Materials under the Products Portlet.

User Manuals

bizhub C368/C308/C258 HTML User Manual
bizhub C368/C308/C258 Quick Start Guide
bizhub C368/C308/C258 Using the Machine
IC-416 User Docs
AU-211P Authentication Unit User Guide for bizhub
C368/C308/287/227

Parts Manuals

bizhub C368 Parts Manual
bizhub C308 Parts Manual
bizhub C258 Parts Manual
DF-629 Parts Manual
DF-704 Parts Manual
DK-510 Parts Manual
EK-608 Parts Manual
EK-609 Parts Manual
FK-514 Parts Manual
FK-515 Parts Manual
FS-533 Parts Manual
FS-534 Parts Manual
FS-534SD Parts Manual
HD-524 Parts Manual
IC-416 Parts Manual
JS-506 Parts Manual
KP-101 Parts Manual
LU-302 Parts Manual
MK-730 Parts Manual
MK-735 Parts Manual
MK-742 Parts Manual
OC-511 Parts Manual
PC-110 Parts Manual
PC-210 Parts Manual
PC-410 Parts Manual
PK-519 Parts Manual
PK-520 Parts Manual
RU-513 Parts Manual
SD-511 Parts Manual
VI-508 Parts Manual
WT-506 Parts Manual

Service Manuals

bizhub C368/C308/C258 HTML Service Manual
bizhub C368/C308/C258 PDF Service Manual
IC-416 Service Manual

Installation Instructions

bizhub C368/C308 Installation Instructions
bizhub C368/C308 Network Fax Installation Instructions
DF-629 Installation Instructions (includes SP-501)
DF-704 Installation Instructions (includes SP-501)
DK-510 Installation Instructions
EK-608 Installation Instructions
EK-609 Installation Instructions
FS-533 Installation Instructions
HD-524 Installation Instructions
IC-416 Installation Instructions
JS-506 Installation Instructions
KH-102 Installation Instructions
KP-101 Installation Instructions
LU-302 Installation Instructions
MK-730 Installation Instructions
MK-735 Installation Instructions
MK-742/FK-515 Installation Instructions
PC-110 Installation Instructions
PC-210 Installation Instructions
PC-410 Installation Instructions
PK-519 Installation Instructions
PK-520 Installation Instructions
RU-513/FS-534 Installation Instructions
RU-513/FS-534SD Installation Instructions
SC-508 Installation Instructions
UK-211 Installation Instructions
UK-212 Installation Instructions
VI-508/IC-416 Installation Instructions
WT-506 Installation Instructions



Konica Minolta bizhub C368/C308/C258

Firmware and Drivers

Firmware and Drivers can be downloaded from the [One Stop Product Support](#) located under the Service tab on [mykonicaminolta.com](#)

Program Release Information

CSES ID-No. DLBT1514263EN

Model: bizhub C368 Series

MFP firmware Ver. G00-84

1. Release version and download file name

[Release version]

<C368 Series MFP firmware>

***This firmware can use for Multi-Language. (Multi-Language firmware is the same as this firmware.)**

Model	Program Name	Current Ver.	New Ver.	Program File Name
bizhub C368 Series	MFP firmware	G00-54	G00-84	A7PU0Y0-F000-G00-84.exe

<C368 Series Voice Data>

Model	Program Name	Current Ver.	New Ver.	Program File Name	Note
bizhub C368 Series	Voice Data	00	20	A7PU0Y0-C100-G00-20_Voice_F2.1.exe	For Function Version 2.1

<C368 Series Loadable Driver>

Model	IC Card Reader	IC Card	Current Ver.	New Ver.	Program File Name	Check sum	Note
bizhub C368 Series	AU-201	FeliCa IDm	02	03	A7AH0Y0-A502-G00-03_FelicalDm_AU-201.exe	2662	For Function Version 2.1
		FeliCa Private	02	03	A7AH0Y0-A500-G00-03_FelicaPrivate_AU-201.exe	D964	For Function Version 2.1

* Program Files are stored in "LoadableDriver_F2.1.zip".



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Firmware and Drivers

<C368 Series Drivers/Application>

Model	Program Name	Current Ver.	New Ver.	Download File Name	Note
bizhub C368 Series	PCL Printer Driver for Windows Vista/7/8/8.1/10/ Server2008/Server2008R2/ Server2012/Server2012R2	2.1.2.0	3.1.4.0	C368_Series_PS_P CL_FAX_v3.1.x.0.zip	With WHCK (Win_x86,Win_x64)
	PostScript3 Printer Driver for Windows Vista/7/8/8.1/10/ Server2008/Server2008R2/ Server2012/Server2012R2	2.1.2.0	3.1.4.0		With WHCK (Win_x86,Win_x64)
	FAX Driver for Windows Vista/7/8/8.1/10/ Server2008/Server2008R2/ Server2012/Server2012R2	2.1.2.0	3.1.7.0		With WHCK (Win_x86,Win_x64)
	PageMaker PS-PPD	10000.0000	No change		
	XPS Printer Driver for Windows Vista/7/8/8.1/10/ Server2008/Server2008R2/ Server2012/Server2012R2	2.1.2.0	3.1.4.0	C368_Series_XPS_v 3.1.4.0.zip	With WHCK (Win_x86,Win_x64)
	PCL Mono Printer Driver for Windows Vista/7/8/8.1/10/ Server2008/Server2008R2/ Server2012/Server2012R2	2.1.2.0	3.1.4.0	C368_Series_PS_P CL_XPS_Mono_v3.1 .4.0.zip	With WHCK (Win_x86,Win_x64)
	PostScript3 Mono Printer Driver for Windows Vista/7/8/8.1/10/ Server2008/Server2008R2/ Server2012/Server2012R2	2.1.2.0	3.1.4.0		With WHCK (Win_x86,Win_x64)
	XPS Mono Printer Driver for Windows Vista/7/8/8.1/10/ Server2008/Server2008R2/ Server2012/Server2012R2	2.1.2.0	3.1.4.0		With WHCK (Win_x86,Win_x64)
	Real-Time Mode TWAIN Driver	4.0.23000	4.0.26000	TWAIN_v4.0.26000.z ip	
	HDD TWAIN Driver	4.0.23000	4.0.26000		

[Download File

Name]

A7PU0Y0-

F000-G00-

84.exe

A7PU0Y0-C100-G00-20_Voice_F2.1.exe

LoadableDriver_F2.1.zip

C368_Series_PS_PCL_FAX_v3.1.x.0.zip

C368_Series_XPS_v3.1.4.0.zip

C368_Series_PS_PCL_XPS_Mono_v3.1.4.0.zip

TWAIN_v4.0.26000.zip

PRI_C368_Series_DLBT1514263EN_0.doc



Konica Minolta bizhub C368/C308/C258

Firmware and Drivers

2. What changed

2.1. Release of bizhub C368 Series (Mass-Production Program Function Version2.1

Ver. G00-84) The individual files and the checksum are as follows.

Program Name	File Name	Checksum	Note
MFP Card Version	A7PU0Y0-F000-G00-84		
Linux-based MFP Controller	Linux-3.10.40	B267	
MFP Controller Kernel Program	A7PU0Y0-1C00-G00-52	D21C	
MFP Controller Subset	A7PU0Y0-1F00-G00-37	4A14	
MFP Controller	A7PU0Y0-0100-G00-84	7077	
MFP Controller System	A7PU0Y0-1000-G00-84		
MFP Controller Print Controller	A7PU0Y0-3000-G00-77		
MFP Controller Print Controller Font	A7PU0Y0-3F00-G00-72		
MFP Controller Print Controller Demo Page	A7PU0Y0-3E00-G00-00		
Image Reader Controller	A7PU0Y0-8600-G00-57		
MFP Controller MIO	A7PU0Y0-5000-G00-54		
MFP Controller PIC	A7PU0Y0-8200-G00-32		
FAX board controller	A8790Y0-4000-G00-11	CC19	
Operation panel message data	A7PU0Y0-8100-G00-77	E63C	
ADF (DF-629)	A87R0Y0-0024-G00-02	61CE	
ADF (DF-704)	A85G0Y0-0024-G00-02	7192	
Machine Controller	A7PU0Y0-0200-G00-18	1F9A	
Machine Controller Printer	A7PU0Y0-0220-G00-16	C073	
Machine Controller Media	A7PU0Y0-0230-G00-02	26D8	
Machine Controller IO	A7PU0Y0-0240-G00-00	819D	
Machine Controller Scanner	A7PU0Y0-0300-G00-03	1723	
Finisher (FS-533)	A2YU0Y0-0071-G10-01	786E	
Finisher (FS-534)	A3EP0Y0-0071-G10-04	8666	
Separator (JS-506)	A2YV0Y0-0070-G00-01	B1E3	
SD	A3ER0Y0-0071-G00-08	D58E	



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Firmware and Drivers

2.2. Fixed issues

2.2.1. Addition of function/ Change of specifications

1. When the Meter Count List is printed out, Eco-Related Information is deleted on the Meter Count List.
2. TLS1.1/1.2 is supported.
3. Windows 10 is supported.
4. Mac OS X 10.11 is supported.
5. The setting that FW cannot be downloaded from USB is added.
6. AirPrint1.5 is supported.
7. The setting that Animation Function can be disabled is added.

2.2.2. The following issues are solved in this firmware.

1. C-E301(detail codes: 0xC271) may occur.
2. If printing the specific Power Point file from Mac, the data indicator keeps flashing and the jobs never printed.
3. If printing the job by using Page Scope My Print Manager from MFP when Soft Switch No.145 bit5 is available, file list is not updated after the job is finished.
4. If Default Fax/Scan Setting is [Current Setting], the job is sent to TSI User Box Registration as a PDF file regardless of file type.
5. SmartSESAME screen may be locked.
6. After a PC is rebooted or enter hibernate mode, a job cannot be printed from USB port.
7. When turning on the Main Power Switch while keeping a card on AU-201, authentication error may occur.
8. When a web browser is enabled, C-E301 occurs during stand-by.
9. When printing a job after set software SW No69 to "01 (HEX)", "Now printing" continues to be displayed and the job never printed out.
10. C-E301 and others occur if documents of two pages or more are copied/scanned/received when the file type of an image log is set to "compact PDF".
11. After rebooting the MFP, the SMB Shared Box (Folder) may not be accessed.
12. If a document is selected and [Start] button is pressed on Server-less Pull Printing document list screen, Job is deleted by "Auto delete" error.
13. If TSI user box setting is enabled and a fax, whose first ID character is an alphabet, is received in an MFP, C-B152 occurs and a received fax is not printed.
14. If multiple Scan/Fax programs are registered in Main Menu, a fax receiving error (R27) occurs frequently when receiving a fax.
15. The job that use [booklet] + [Center Staple & Fold] will not be deleted after it's printed even though the setting of [Delete After Print Settings] is set to [ON] on the storage machine while using LK-114.
16. When a sending job is executed after copying documents using FCOT mode, 6fdc occurs
17. After MFP is rebooted (Detail code: 0x09BF is recorded), trouble code: C-B003 occurs.
18. A little while after receiving an incoming call in modem dial-in environment, C-B116 occurs.
19. A text file contains [%] is not printed correctly by lpr-print.
20. Statusdict error page is printed when sent through the print server.
21. PjL command will not be read back even if DipSW61_0x08 is enabled and printing.
22. When printing the specific PCL file from AS/400, white characters is printed on black characters.
23. If the custom authentication is failed on Scan application, it is not returned to the user authentication screen.
24. C-E301 (detail codes: 0xC157) occurs when using Scan to DFS.
25. Black characters are printed in blue when a specified PCL file is printed.
26. Failing to login using card reader.
27. A fax cannot be received from specified machines.
28. A fax cannot be received from specified machines due to the delay of CFR signal.
29. There are times when Login users (who have logged in via card authentication) cannot be switched on the IWS application screen that was activated from KIOSK.
30. Hangul characters cannot be entered correctly by Widget.
31. The MFP panel will freeze if Network Logout is performed from an IWS application that was activated after Card Login (at Extended Server Authentication).



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Firmware and Drivers

32. A fax cannot be sent to specified machines.
33. If printing the file from HP Output Server by using SR tool, the printing error occurs.
34. When using Enhanced Server authentication, charging prints cannot be managed by Public user.
35. When PS Designer Settings is [Yes], the printed color is different from original if printing the specific PDF file from PS driver as a booklet.
36. When the Account Track Input Method setting is "Password Only", the account name cannot be acquired on IWS application.
37. When printing the specific TIFF file by Direct Print from USB memory, it is not printed correctly.
38. Even if the remaining amount of toner is sufficient, machine detects toner near empty.
If toner near empty is mis-detected, clear the toner information and manually initialize by following procedure.

Procedure

1. Call the Service Mode to the screen.
2. Call the Enhanced Security to the screen.
3. Touch [Engine FW DipSW]. (Stop -> 0 (Zero) -> C (Clear))
This is displayed only when Switch No. "59" is set to "01" in HEX Assignment in [Service Mode] -> [System 2] -> [Software Switch Setting] .
4. The switch corresponding to the colors to be reset is highlighted (ON state) in reverse video. 31:Y
32:M
33:C
34:K
5. Touch [END].
6. Turn OFF and ON the main power switch.
39. Meter count may be reset if FW is downloaded before the recovery process that starts after using the reset tool.
40. Measurement for making IPv6 available without IPv6 router.
41. When sending by SMB transmission, User name is quoted without processing.

3. Functional restrictions

None

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4. How to install

Please refer to Service Manual.

[Definition of terms]

Function Version 2.0: Firmware Version Gxx-54 and earlier.

Function Version 2.0 MR (Maintenance Release) Version: Firmware for Function Version 2.1 Version ver.Gxx-84.

(There are not enhancement functions of Function Version 2.1.) "Function Version 2.0" has equal functions.

Function Version 2.1: Firmware for Function Version 2.1 Version ver.Gxx-84.

About Software Switch Settings

Switch No.: 25

HEX Assignment: 10 -> Function

Version 2.0 HEX Assignment: 20 ->

Function Version 2.1

When upgrading Function Version to 2.1, please install Loadable Driver for Function Version 2.1. And then, please install the Voice Data for Function Version to 2.1.

When upgrading Function Version, please install drivers or applications that are correspond to the Function Version to be used.

5. Program that recommends applying at the same time

Combinations of this program and other latest program versions are as follows.

[bizhub C368 Series related]

Model	Program Name	Version
bizhub C368 Series	MFP Card Version	G00-84
	PCL Printer Driver	3.1.4.0
	PostScript3 Printer Driver	3.1.4.0
	FAX Driver	3.1.7.0
	PageMaker PS-PPD	10000.0000
	XPS Driver	3.1.4.0
	PCL Printer Driver Mono	3.1.4.0
	PostScript3 Printer Driver Mono	3.1.4.0
	XPS Driver Mono	3.1.4.0
	Linux PS-PPD	10000.0000
	MacOS X (Version10.6) PS-PPD	2.1.2
	MacOS X (Version10.7) PS-PPD	2.1.2
	MacOS X (Version10.8) PS-PPD	2.1.2
	MacOS X (Version10.9.x,10.10.x) PS-PPD	2.1.2
	Real-Time Model TWAIN Driver	4.0.26000
	HDD TWAIN Driver	4.0.26000
	Auth Device Tool Advanced for AU-201/AU-201S	2.0.00000
	Auth Device Tool Advanced for AU-202H	1.2.00000
	Auth Device Tool Advanced for SCL-010	1.2.00000
	Auth Device Tool Advanced for YSoft CRv2	1.2.00000
Auth Device Tool Advanced for 5427CK (AU-205H)	1.1.00000	

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Firmware and Drivers

6. OpenAPI supported function level

The following is OpenAPI supported function level on this firmware.

OpenAPI:

OpenAPI Function Level	4.10
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Detail:

Auth	1.0/1.1/2.0/2.1/2.5/3.5/3.6/3.7/4.0/4.1/4.2/4.5/4.6/4.7/4.8/4.9/4.10	
Scan to Application	2.0/2.1/2.2/3.0/3.1/3.5/3.6/3.7/4.0/4.5/4.6/4.8/4.9/4.10	
PullPrint	1.0/1.1/2.0/2.1/2.5/3.5/3.6/4.0/4.5/4.6/4.7/4.8/4.9/4.10	
Other A	1.0/3.5/4.0	
Job Management	1.0/3.5/3.6/4.0/4.10	
Setup	1.0/1.1/1.2/1.3/2.0/2.1/2.5/3.5/3.6/3.7/3.8/4.0/4.1/4.2/4.5/4.6/4.7/4.8/4.9/4.10	
Link	4.5/4.6/4.7/4.8/4.9/4.10	
Web Browser	Auth	1.0/1.1/1.5/3.5/3.6/3.7/4.0/4.1/4.2/4.5/4.7/4.8/4.9/4.10
	Scan to Application	1.0/1.1/3.5/3.6/3.7/4.0/4.1/4.5/4.6/4.7/4.8/4.9/4.10
	PullPrint	1.0/1.1/1.5/3.5/3.6/4.0/4.1/4.5/4.8/4.9/4.10
	ScrSvr	1.0/3.5/4.0
	Launcher	1.0/3.5/4.0/4.8
	General	4.0/4.1/4.5/4.6/4.8/4.9/4.10

7. IWS function level

IWS function Level	2.5.2
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Firmware and Drivers

Program Release Information

CSES ID-No. DLBT1504102EN

Model: bizhub C368/C308

MFP firmware Ver. G00-16

1. Release version and download file name

The newly released program version and download file name is as follows.

[Release version]

<C368 Series MFP firmware>

***This firmware can use for Multi-Language. (Multi-Language firmware is the same as this firmware.)**

Model	Program Name	Current Ver.	New Ver.	Program File Name
bizhub C368 Series	MFP firmware	G00-13	G00-16	A7PU0Y0-F000-G00-16.exe

[Download File Name]

A7PU0Y0-F000-G00-16.exe

PRI_C368_Series_DLBT1504108EN_0.doc

2. What changed

2.1. Release of bizhub C368 Series (Maintenance Release Program Function Version2.0 Ver. G00-16)

The individual files and the checksum are as follows.

Program Name	File Name	Checksum	Note
MFP Card Version	A7PU0Y0-F000-G00-16		
MFP Controller BOOT Program	A7PU0Y0-1E00-G00-01	F974	
Linux-based MFP Controller	Linux-3.10.40	69A0	
MFP Controller Kernel Program	A7PU0Y0-1C00-G00-12	4772	
MFP Controller Subset	A7PU0Y0-1F00-G00-07	C007	
MFP Controller	A7PU0Y0-0100-G00-16	0309	
MFP Controller System	A7PU0Y0-1000-G00-16		
MFP Controller Print Controller	A7PU0Y0-3000-G00-04		
MFP Controller Print Controller Font	A7PU0Y0-3F00-G00-01		
MFP Controller Print Controller Demo Page	A7PU0Y0-3E00-G00-00		



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Image Reader Controller	A7PU0Y0-8600-G00-34		
MFP Controller MIO	A7PU0Y0-5000-G00-16		
MFP Controller PIC	A7PU0Y0-8200-G00-09		
FAX board controller	A8790Y0-4000-G00-07	0179	
Operation panel message data	A7PU0Y0-8100-G00-14	AD9E	
ADF (DF-629)	A87R0Y0-0024-G00-02	61CE	
ADF (DF-704)	A85G0Y0-0024-G00-02	7192	
Machine Controller	A7PU0Y0-0200-G00-07	1006	
Machine Controller Printer	A7PU0Y0-0220-G00-07	A76A	
Machine Controller Media	A7PU0Y0-0230-G00-02	26D8	
Machine Controller IO	A7PU0Y0-0240-G00-00	819D	
Machine Controller Scanner	A7PU0Y0-0300-G00-01	8E83	
Finisher (FS-533)	A2YU0Y0-0071-G10-00	216F	
Finisher (FS-534)	A3EP0Y0-0071-G10-03	8170	
Separator (JS-506)	A2YV0Y0-0070-G00-01	B1E3	
SD	A3ER0Y0-0071-G00-08	D58E	

2.2. Fixed issues

2.2.1. Addition of function/ Change of specifications

1. Apple AirPrint is supported.
2. Support TPM(Trusted Platform Module)

2.2.2. The following issues are solved in this firmware.

1. When User Authentication is selected "ON (MFP)" and the card authentication information is registered, C-E301 (0xC001) may occur.
2. The moisture prevention heater is not turned ON when MFP is in Low Power mode.
3. If performing Scan sending to Hub or PC valid IEEE802.3az, "Server connection error" occurs and the job is deleted.
4. Incorrect English description of FW Version.
Incorrect : MFP Controller

Correct : Machine Controller
5. When rewriting Firmware, the downloading for ADF may be failed.

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6. C-40A3/FA17 may occur when copying a job that zoom ratio is changed.
7. Original size may not be detected when the following size is set on DF629/707.
CD size : 223mm

In mixed original detection mode.

FD size : 223mm/351mm/479mm/607mm/735mm/863mm/991mm
8. When rewriting Firmware, the downloading for Printer or Scanner may be failed.
9. The trouble code C-5606 may occur when the main power switch is turned ON with FAX option on MFP.

3. Functional restrictions

3.1. Remaining Issues

The following issues will be corrected in maintenance release (Planned for end of September, 2015).

1. If the ubiquitous print job is stored immediately after turning ON the Main power SW, the job may be deleted because of the maximum number of the registered document over.
2. "Transfer Belt Unit" button is displayed instead of "Transfer Roller Unit" button on New Release screen of Counter/Data/Life in Service Mode.
3. When i-Option functions required with HDD are activated, the trouble (C-D272) is not displayed even if the HDD installation setting is changed from "Installed" to "Not Installed".
4. When the warning screen is displayed while printing the job on the enlarge Display Mode, "Now Scanning Original" may keep displaying if the warning screen is closed.
5. The password for Memory RX User Box is not reset even if Fax Function Parameter is initialized.
< Countermeasure >

Please clear the password from the administrator mode.

6. When the fax is sent with "Normal" or "Fine", the part of "#" of TTI information is cut off.
7. If the Main power SW is not turned off and on within 2 min after HDD installation setting is changed to "Installed" from "Not Installed", C-E002 may occur.
< Countermeasure >

Please turn off and on the Main power SW within 2 min after HDD installation setting is changed to "Installed".

8. The address detection screen for bizhubRA AddressLink may be closed immediately.
9. The result of the following Memory Bus check is displayed "NG".
State Confirmation > Memory/Storage Adjustment > Memory Bus Check > Memory -> PRT

4. How to install

Please refer to Service Manual.

5. Program that recommends applying at the same time

Please refer to the PRI for "bizhub C368 Series Initial Mass-Production Program Function Version2.0 (Ver. G00-13)" for details. (DLBT1502889EN)

6. OpenAPI supported function level

Konica Minolta bizhub C368/C308/C258

Firmware and Drivers

The following is OpenAPI supported function level on this firmware.

OpenAPI:

OpenAPI Function Level	4.9
------------------------	-----

Detail:

Auth		1.0/1.1/2.0/2.1/2.5/3.5/3.6/3.7/4.0/4.1/4.2/4.5/4.6/4.7/4.8/4.9
Scan to Application		2.0/2.1/2.2/3.0/3.1/3.5/3.6/3.7/4.0/4.5/4.6/4.8/4.9
PullPrint		1.0/1.1/2.0/2.1/2.5/3.5/3.6/4.0/4.5/4.6/4.7/4.8/4.9
Other A		1.0/3.5/4.0
Job Management		1.0/3.5/3.6/4.0
Setup		1.0/1.1/1.2/1.3/2.0/2.1/2.5/3.5/3.6/3.7/3.8/4.0/4.1/4.2/4.5/4.6/4.7/4.8/4.9
Link		4.5/4.6/4.7/4.8/4.9
Web Browser	Auth	1.0/1.1/1.5/3.5/3.6/3.7/4.0/4.1/4.2/4.5/4.7/4.8/4.9
	Scan to Application	1.0/1.1/3.5/3.6/3.7/4.0/4.1/4.5/4.6/4.7/4.8/4.9
	PullPrint	1.0/1.1/1.5/3.5/3.6/4.0/4.1/4.5/4.8/4.9
	ScrSvr	1.0/3.5/4.0
	Launcher	1.0/3.5/4.0/4.8
	General	4.0/4.1/4.5/4.6/4.8/4.9

Konica Minolta bizhub C368/C308/C258

Firmware and Drivers



7. IWS function level

IWS function Level	2.5.1
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* Company names and product names in this document are the registered trademarks for respective companies.

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Bulletin # 9749
Date: 01/27/16
Subject: bizhub C368/C308/C258 Technical Training Announcement
Technical Education: 496

Supersedes 9749 dated on 8/3/15 in order to add the bizhub C258

The Technical Education and Development Department of Konica Minolta Business Solutions U.S.A., Inc. is pleased to announce training for the **bizhub C368/C308/C258 MFPs**.

The bizhub C368, a 36 ppm machine, is the successor of the current bizhub C364e, the bizhub C308, a 30 ppm machine, is the successor of the bizhub C284e and the bizhub C258 a 25 ppm machine is the successor of the bizhub C224e.

To enable full functionality of all options these devices come ready with 4 GB of memory and the standard web browser (LK-101v3). Additional features include:

- Open API (consistent with the latest Info Palette engines)
- 9" control display panel which features a new mobile touch area with Near Field Communication
- Detachable paper trays (standard trays)
- Improved bypass tray
- Reduced power usage on sleep mode - from 1.0W to 0.5W
- Optional large capacity Unit (3,000 sheets)
- Optional Fiery image controller
- Optional hard disk mirroring

Training will be available in two different offerings: (The bizhub C258 joins the bizhub C368 series. Technicians previously certified on the bizhub C368 are also certified on the bizhub C258).

The **bizhub C368 Series** technical online differences training is for those previously certified on the bizhub C364e series.

Classroom training will be made available for all other audiences to certify them on both the C364e and the C368 series. Course dates will be available in Konica Minolta Learning in mid-August.

The **bizhub C368 Series Technical Differences WBT** covers the introduction, installation, user operation, and service on the bizhub C368/C308/C258 and the new options. Topics include:

- Installation and configuration
- New ADF
- Enhanced Consolidated Printed Circuit Boards
- Next generation of Firmware Downloading File Structure and Procedures
- Changes and compatibility of existing and new options

This training takes approximately 2 ½ hours to complete. Below is a direct link to the course:

[bizhub C368 Series Technical Differences WBT](#)

This technical training can also be located using the Find Learning tile within Konica Minolta Learning.

Please contact Technical Education for questions related to technical training.

Email – techtrain@kmb.konicaminolta.us, Phone – (860)683-2402 Ext. 2198,

Website - Technical Education Information Center



Bulletin # 9820
Date: 08/24/15
Subject: Startup Parts
bizhub C308:

001

bizhub C368:

001

The following pages contain the recommended startup parts to support an initial placement of the bizhub C308 and C368 series machines and their accessories. This is not a compilation of all parts that will be needed; it is a suggested list of parts and supplies that could adversely affect machine operation if they are not replaced at the scheduled intervals.

Consult the current parts catalogs and bulletins for additional parts and changes that may be made from time to time.

Use this list as an aid in preparing an initial parts inventory for these models. Parts and supplies can be ordered using standard ordering procedures.

bizhub C308, C368

Startup Parts List (One Machine)



For replacement procedures, refer to the Field Service Manuals.
Main body parts and supplies apply to both models unless noted otherwise.

Section	Description	Part No.	Qty.	Replacement Interval
Main Body				
Paper Feed	Pick-up roller, trays 1 & 2	A5C1562200	2	300,000 ^{2,4}
	Feed roller, trays 1 & 2	A00J563600	2	300,000 ^{2,4}
	Separation roller, trays 1 & 2	A00J563600	2	300,000 ^{2,4}
	Feed roller, manual bypass	A00F623201	1	200,000 ^{2,4}
	Separation roller, manual bypass	4658015106	1	200,000 ^{2,4}
Processing	Toner cartridge, C (TN324C) ¹	A8DA430	1	26,000 ³
	Toner cartridge, M (TN324M) ¹	A8DA330	1	26,000 ³
	Toner cartridge, Y (TN324Y) ¹	A8DA230	1	26,000 ³
	Toner cartridge, K (TN324K) ¹	A8DA130	1	28,000 ³
	Drum unit, CMY (DR313) ¹	A7U40TD	3	C308: 75,000 ³ C368: 90,000 ³
	Drum unit, K (DR313K) ¹	A7U40RD	1	120,000 ³
	Developing unit, C (DV313C)	A7U40KD	1	600,000 ³
	Developing unit, M (DV313M)	A7U40ED	1	600,000 ³
	Developing unit, Y (DV313Y)	A7U408D	1	600,000 ³
	Developing unit, K (DV313K)	A7U403D	1	600,000 ³
	Waste toner box (WX-103) ¹	A4NNWY3	1	40,000 ^{3,6}
Image Transfer	Intermediate image transfer kit ⁵	A161R71300	1	300,000 ³
Fusing	Fusing unit	A7PUR70300	1	600,000 ³
DF-629				
Paper Feed	Pick-up roller	A143PP5200	2	200,000 ⁴
	Feed roller	A143563100	1	200,000 ⁴
	Separation roller	A3CFPP4H00	1	200,000 ⁴
DF-704				
Paper Feed	Pick-up roller	A143PP5200	2	200,000 ⁴
	Feed roller	A143563100	1	200,000 ⁴
	Separation roller	A3CFPP4H00	1	200,000 ⁴
PC-110				
Paper Feed	Pick-up roller	A5C1562200	1	300,000 ⁴
	Feed roller	A00J563600	1	300,000 ⁴
	Separation roller	A00J563600	1	300,000 ⁴
PC-210				
Paper Feed	Pick-up roller	A5C1562200	2	300,000 ⁴
	Feed roller	A00J563600	2	300,000 ⁴
	Separation roller	A00J563600	2	300,000 ⁴

bizhub C308, C368

Startup Parts List (One Machine)



Section	Description	Part No.	Qty.	Replacement Interval
PC-410				
Paper Feed	Pick-up roller	A5C1562200	2	300,000 ⁴
	Feed roller	A00J563600	2	300,000 ⁴
	Separation roller	A00J563600	2	300,000 ⁴
FS-533				
Finisher	Roller assy., front	A2YUPPK001	1	1,000,000 ⁴
	Roller assy., rear	A2YUPPK101	1	1,000,000 ⁴
FS-534				
Finisher	Paddle assy.	A3EPPPD300	2	2,000,000 ⁴
	Paddle assy.	A3EPPPD400	1	2,000,000 ⁴
SD-511				
Saddle Stitcher	Paddle assy., lower	A3ERPP7Y00	4	2,000,000 ⁴
	Paddle assy., upper	A3ERPP3801	1	2,000,000 ⁴

1. Supply item. Replacement intervals are approximate, based upon copy/print characteristics including print density and coverage. These items can be replaced by the user.
2. Replacement interval based on actual durable life counter (life counter value).
3. Field standard value
4. Replace all of these parts at the same time.
5. Transfer roller unit is furnished with the transfer belt unit so that they are replaced at the same time.
6. Waste toner full condition is detected by detecting actual waste toner emissions.



Bulletin # 9968
Date: 1/27/16
Subject: Startup Parts
bizhub C258: 001

The following pages contain the recommended startup parts to support an initial placement of the bizhub C258 and its accessories. This is not a compilation of all parts that will be needed; it is a suggested list of parts and supplies that could adversely affect machine operation if they are not replaced at the scheduled intervals.

Consult the current parts catalogs and bulletins for additional parts and changes that may be made from time to time.

Use this list as an aid in preparing an initial parts inventory for this model. Parts and supplies can be ordered using standard ordering procedures.

bizhub C258

Startup Parts List (One Machine)



For replacement procedures, refer to the Field Service Manual.

Section	Description	Part No.	Qty.	Replacement Interval
Main Body				
Paper Feed	Pick-up roller, trays 1 & 2	A5C1562200	2	300,000 ^{2,4}
	Feed roller, trays 1 & 2	A00J563600	2	300,000 ^{2,4}
	Separation roller, trays 1 & 2	A00J563600	2	300,000 ^{2,4}
	Feed roller, manual bypass	A00F623201	1	200,000 ^{2,4}
	Separation roller, manual bypass	4658015106	1	200,000 ^{2,4}
Processing	Toner cartridge, C (TN3241C) ¹	A8DA430	1	26,000 ³
	Toner cartridge, M (TN324M) ¹	A8DA330	1	26,000 ³
	Toner cartridge, Y (TN324Y) ¹	A8DA230	1	26,000 ³
	Toner cartridge, K (TN324K) ¹	A8DA130	1	28,000 ³
	Drum unit, K (DR313K) ¹	A7U40RD	1	90,000 ³
	Drum unit, CMY (DR313) ¹	A7U40TD	3	55,000 ³
	Developing unit, C (DV313C)	A7U40KD	1	600,000 ³
	Developing unit, M (DV313M)	A7U40ED	1	600,000 ³
	Developing unit, Y (DV313Y)	A7U408D	1	600,000 ³
	Developing unit, K (DV313K)	A7U403D	1	600,000 ³
	Waste toner box (WX-103) ¹	A4NNWY3	1	30,000 ^{3,6}
Image Transfer	Transfer belt unit ⁵	A161R71311	1	300,000 ³
Fusing	Fusing unit	A7PUR70300	1	600,000 ³
DF-628 (Model A7V7-WY1)				
Paper Feed	Pick-up roller	A143PP5200	2	200,000 ⁴
	Feed roller	A143563100	1	200,000 ⁴
	Separation roller	A3CFPP4H00	1	200,000 ⁴
PC-114				
Paper Feed	Pick-up roller	A5C1562200	1	300,000 ⁴
	Feed roller	A00J563600	1	300,000 ⁴
	Separation roller	A00J563600	1	300,000 ⁴
PC-214				
Paper Feed	Pick-up roller	A5C1562200	2	300,000 ⁴
	Feed roller	A00J563600	2	300,000 ⁴
	Separation roller	A00J563600	2	300,000 ⁴
PC-414				
Paper Feed	Pick-up roller	A5C1562200	1	300,000 ⁴
	Feed roller	A00J563600	1	300,000 ⁴
	Separation roller	A00J563600	1	300,000 ⁴

bizhub C258

Startup Parts List (One Machine)



Section	Description	Part No.	Qty.	Replacement Interval
FS-533				
Finisher	Roller assy., front	A2YUPPK001	1	1,000,000 ⁴
	Roller assy., rear	A2YUPPK101	1	1,000,000 ⁴
FS-534				
Finisher	Paddle assy.	A3EPPPD300	2	2,000,000 ⁴
	Paddle assy.	A3EPPPD400	1	2,000,000 ⁴
SD-511				
Saddle Stitcher	Paddle assy., lower	A3ERPP7Y00	4	2,000,000 ⁴
	Paddle assy., upper	A3ERPP3801	1	2,000,000 ⁴

1. Supply item. Replacement intervals are approximate, based upon copy/print characteristics including print density and coverage. These items can be replaced by the user.
2. Replacement interval based on actual durable life counter (life counter value).
3. Field standard value
4. Replace all of these parts at the same time.
5. Transfer roller unit is furnished with the transfer belt unit so that they are replaced at the same time.
6. Waste toner full condition is detected by detecting actual waste toner emissions.



Products Name: DRUM (PHOTOCONDUCTOR) DR313/DR313K

Prepared Date:14-Jul-2014

Revised Date: 13-Jan-2016

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Name: DRUM (PHOTOCONDUCTOR) DR313/DR313K

used for: bizhub C368/C308/C258, C658/C558/C458

Supplier Identification:

Konica Minolta Business Solutions U.S.A., Inc.

100 Williams Drive, Ramsey, New Jersey 07446, U.S.A.

Telephone: 201-825-4000

Emergency Telephone No.

CHEMTREC

Telephone: 1-800-424-9300

2. HAZARDS IDENTIFICATION

Regulation (EC) No 1272/2008

Classification: Not classified as dangerous.

Hazard Communication Standard (USA)

Classification: Not classified as dangerous.

LABEL ELEMENTS

Precautionary pictograms: ---

Signal word: ---

Hazard Statement: ---

Precautionary Statements: ---

Other Hazards

None



Products Name: DRUM (PHOTOCONDUCTOR) DR313/DR313K

Prepared Date: 14-Jul-2014

Revised Date: 13-Jan-2016

3. COMPOSITION / INFORMATION ON INGREDIENTS

Major Ingredients:

[Generic Name]	[CAS No.]	[%]
Substrate		>95
Aluminium drum	7429-90-5	
Coating layer		<5
Polycarbonate	+++	
OPC compound	+++	
Organic pigment	+++	

+++ : Supplier's confidential information

Hazardous Ingredients:

None present

4. FIRST-AID MEASURES

Symptoms of Overexposure: No symptoms expected with intended use.

Routes of Entry: None

Information

Inhalation: No treatment is required.

Skin Contact: No treatment is required.

Eye Contact: No treatment is required.

Ingestion: No treatment is required.

Note to Physician: None

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: CO₂, water, foam and dry chemical

Extinguishing Media to Avoid: None

Special Firefighting Procedures: None

Fire and Explosion Hazards: This material has no unusual fire or explosive hazards.

Protection of Firefighters: No special equipment is required.



Products Name: DRUM (PHOTOCONDUCTOR) DR313/DR313K

Prepared Date: 14-Jul-2014

Revised Date: 13-Jan-2016

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Not applicable with intended use.

Environmental Precautions: Not applicable with intended use.

Methods for Cleaning Up: Not applicable with intended use.

7. HANDLING AND STORAGE

Handling

Technical Measures: None

Precautions: This product will be scorched in the case of fire.

Safe Handling Advice: None.

Storage

Technical Measures: None

Storage Conditions: Keep and Store in a cool and dry place.

Incompatible Products: None

Packing Materials: None

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures

Ventilation: None required with intended use.

Control Parameters

OSHA-PEL(USA):	Not Applicable	ACGIH-TLV(USA):	Not Applicable
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DFG-MAK(EC):	Not Applicable	Safe Work Australia-TWA:	Not Applicable
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Personal Protective Equipment

None required when used as intended in Konica Minolta equipment.

Hygiene Measures: Wash hands after handling.



Products Name: DRUM (PHOTOCONDUCTOR) DR313/DR313K

Prepared Date: 14-Jul-2014

Revised Date: 13-Jan-2016

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State: Solid

Form: Cylinder

Color: Green

Odor:

Almost odorless

<<Results of the coated compounds on the aluminum substrate.>>

Boiling Point:

Not applicable

Melting/Softening Point:

No data available

Flash Point:

Not applicable

pH:

Not applicable

Explosion Properties:

Not applicable

Upper/ lower flammability or explosive limits

No data available

Density(g/cm³):

1.2

Solubility in water:

insoluble

Flammability:

Not applicable

Oxidizing Properties:

No data available

Auto-Ignition Temperature(°C):

No data available

Vapor Pressure:

Not applicable

Vapor density:

Not applicable

Partition Coefficient, n-Octanol/Water:

Not applicable

Decomposition temperature:

Not applicable

(* = Based on data for other Konica Minolta Products with similar ingredients)

10. STABILITY AND REACTIVITY

Reactivity: None.

Stability: Stable

Hazardous Reactions: None

Conditions to avoid: None

Materials to Avoid: None

Hazardous Decomposition Products: CO, CO₂



Products Name: DRUM (PHOTOCONDUCTOR) DR313/DR313K

Prepared Date:14-Jul-2014

Revised Date: 13-Jan-2016

11. TOXICOLOGICAL INFORMATION

Health Effects from Exposure: No symptoms expected with intended use.

Toxicological Data

<<Result of the coated compounds on the aluminum substrate.>>

Acute Toxicity:

Inhalation, LC50(mg/l): Not applicable

Ingestion(oral), LD50(mg/kg): No data available

Dermal, LD50(mg/kg): Not applicable

Eye irritation: No data available

Skin irritation: No data available

Skin sensitizer: No data available

Mutagenicity: negative (AMES test)

Local Effects: No data available

Chronic Toxicity or Long Term Toxicity: None

Carcinogenicity

IARC Monographs: Not listed

NTP(USA): Not listed

OSHA Regulated(USA): Not listed

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATION

Appropriate Methods of Disposal

Waste may be disposed or incinerated under conditions which meet all federal, state and local environmental regulations.

14. TRANSPORT INFORMATION

Special Precautions: None

Information on Code and Classifications According to International Regulations

UN Classification: None

Further information: Not a dangerous good under IATA or IMDG.

Hazchem code (Austl.): None



Products Name: DRUM (PHOTOCONDUCTOR) DR313/DR313K

Prepared Date:14-Jul-2014

Revised Date: 13-Jan-2016

15. REGULATORY INFORMATION

US Information

California Proposition 65:

This product contains no chemical substances subject to California Proposition 65.

CERCLA(Comprehensive Environmental Response Compensation and Liability Act) :

None.

SARA Title III (Superfund Amendments and Reauthorization Act) 302 Extreme Hazardous Substance :

None.

311/312 Hazard Categories :

None.

313 Reportable Ingredients :

None.

EU Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

- Regulation (EC) No 2037/2000 of the European Parliament and of the Council on Substances That Deplete the Ozone Layer: Not applicable

- Regulation (EC) No 850/2004 of the European Parliament and of the Council on Persistent Organic Pollutants and Amending Directive 79/117/EEC (POPs): Not applicable

- Regulation (EU) No 649/2012 of the European Parliament and of the Council on Concerning the Export and Import of Dangerous Chemicals (PIC): Not applicable

- Directive 2012/18/EU of the European Parliament and of the Council on the Control of Major-Accident Hazards Involving Dangerous Substances, Amending and Subsequently Repealing Council Directive 96/82/EC, (Seveso III): Not applicable

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council:

 - Annex XIV- List of Substances Subject To Authorization: Not applicable

 - Annex XVII- Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles: Not applicable

For this product a chemical safety assessment was not carried out.



Products Name: DRUM (PHOTOCONDUCTOR) DR313/DR313K

Prepared Date: 14-Jul-2014

Revised Date: 13-Jan-2016

16. OTHER INFORMATION

NFPA Hazard Rating: The National Fire Protection Agency(USA): Health: 0 Flammability: 1 Reactivity: 0

HMIS RATING: The National Paint and Coating Association(USA): Health: 0 Flammability: 1 Reactivity: 0

Recommended Uses: Photoconductor for Electrophotographic Equipment

Abbreviations:

ACGIH-TWA: Threshold Limit Value of American Conference of Government Industrial Hygienists

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

DFG-MAK: Maximale Arbeitsplatz-Konzentration by Deutsche Forschungsgemeinschaft

DGR: Dangerous Goods Regulations

EINECS: European Inventory of Existing Commercial Chemical Substances

H-Code: Hazard Code

HMIS: Hazardous Materials Identification System

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

IMDG: International Maritime Dangerous Goods Code

NTP: National Toxicology Program

OEL: Occupational exposure limit

OSHA: Occupational Safety and Health Administration

PBT: Persistent, Bioaccumulative and Toxic

SARA: Superfund Amendments and Reauthorization Act

TSCA: Toxic Substances Control Act

vPvB: very Persistent and very Bioaccumulative

Revision Information: Regular revision on revised date.

Literature References:

ANSI Z400.1-1993

ISO 11014-1

Commission Directive 91/155/EEC

Restrictions:

The above information is believed to be accurate and represents the best information currently available to Our Corporation. However, Our Corporation makes no warranty with respect to such information, and Our Corporation assumes no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.



Product Name: TN324K

Prepared Date:22-Oct-2014

Revised Date: 30-Jun-2015

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Name: TN324K

used for: bizhub C368/C308/C258

Supplier Identification:

Konica Minolta Business Solutions U.S.A., Inc.

100 Williams Drive, Ramsey, New Jersey 07446, U.S.A.

Telephone: 201-825-4000

Emergency Telephone No.

CHEMTREC

Telephone: 1-800-424-9300

2. HAZARDS IDENTIFICATION

Regulation (EC) No 1272/2008

Classification: Not classified as dangerous.

Hazard Communication Standard (USA)

Classification: Not classified as dangerous.

LABEL ELEMENTS

Precautionary pictograms: ---

Signal word: ---

Hazard Statement: ---

Precautionary Statements: ---

Other Hazards

Dust explosion (like most finely divided organic powders).



Product Name : TN324K

Prepared Date : 22-Oct-2014

Revised Date : 30-Jun-2015

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance [] Preparation [X]

Major Ingredients:

[Generic Name]	[CAS No.]	[%]
Styrene acrylic resin	+++	60-70
Ferrite Iron oxide	1309-37-1	5-15
. Manganese oxide	1344-43-0	1-10
Wax	+++	1-10
Carbon black	1333-86-4	1-10
Wax-2	+++	1-10
Amorphous silica	7631-86-9	1-10
Titanium dioxide	13463-67-7	<1

+++ : Supplier's confidential information

Hazardous Ingredients:

Chemical Name: Carbon black

CAS No.: 1333-86-4

EINECS-No.: 215-609-9

NTP(USA): Not listed

California Proposition 65(USA): Listed

Symbol(EC): Not listed

DFG-MAK(GER): III 3B

REACH Registration number: 01-2119384822-32-XXXX

IARC Monographs: Group 2B

H code(EC): Not listed

Chemical Name: Titanium dioxide

CAS No.: 13463-67-7

NTP(USA): Not listed

Symbol(EC): Not listed

EINECS-No.: 236-675-5

IARC Monographs: Group 2B

H code(EC): Not listed

Chemical Name: Manganese oxide

CAS No.: 1344-43-0

Symbol(EC): Not listed

EINECS-No.: 215-695-8

H code(EC): Not listed

4. FIRST-AID MEASURES

Ingestion: Wash out mouth with water. Drink one or two glasses of water. If symptoms occur, get medical attention.

Inhalation: Move victim to fresh air immediately. If symptoms occur, get medical attention.

Eye Contact: Immediately flush eyes with plenty of water for 15 minutes. If symptoms occur, get medical attention.

Skin Contact: Wash with water and mild soap.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: CO2, water spray, foam and dry chemical

Extinguishing Media to Avoid: Full water jet

Fire and Explosion Hazards: If dispersed in air, like most finely divided organic powders, may form an explosive mixture.

Protection of Firefighters: Use self-contained breathing apparatus(SCBA).



Product Name : TN324K

Prepared Date : 22-Oct-2014

Revised Date : 30-Jun-2015

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: None

Environmental Precautions: None

Methods for Cleaning Up: Wear personal protective equipment(See Section 8). Vacuum or sweep material and place in a bag and hold for waste disposal. Use vacuum equipped with High Efficiency Particulate Air(HEPA) filter. Vacuum should be electrically bonded and grounded to dispel static electricity. To avoid dust generation, do not sweep dry.

7. HANDLING AND STORAGE

Handling

Technical Measures: None

Precautions: Do not breathe dust. Avoid contact with eyes.

Safe Handling Advice: Try not to disperse the particulates.

Storage

Technical Measures: None

Storage Conditions: Keep container closed. Store in a cool and dry place. Keep out of reach of children.

Incompatible Products: None

Packaging Materials: Bottles or Cartridge designated by Konica Minolta.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures

Ventilation: None required with intended use.

Control Parameters (As total dust)

ACGIH-TLV (USA): 10mg/m³ (Inhalable particles), 3.0 mg/m³ (Respirable particles)

OSHA-PEL (USA): 15mg/m³ (Total dusts), 5.0 mg/m³ (Respirable fraction)

DFG-MAK (GER): 4mg/m³ (Inhalable fraction), 1.5mg/m³ (Respirable fraction)

Worksafe-TWA (Austl.): 10mg/m³

Control Parameters (As Ingredients: Carbon black)

ACGIH-TLV (USA): 3mg/m³

OSHA Z-Table (USA): 3.5mg/m³

Worksafe-TWA (Austl.): 3mg/m³

Control Parameters (As Ingredients: Titanium dioxide)

ACGIH-TLV(USA): 10mg/m³

OSHA Z-Tables(USA): 15mg/m³

Worksafe-TWA(Austl): 10mg/m³

Control Parameters (As Ingredients: Manganese oxide)

ACGIH-TLV(USA): 0.2mg/m³

OSHA Z-Tables(USA): ceiling 5mg/m³

Worksafe-TWA(Austl): 1mg/m³

Personal Protective Equipment

Not required under normal conditions. For use other than in normal operating procedures (such as in the event of large spill), goggles and respirators may be required.

Hygiene Measures: Wash hands after handling.



Product Name : TN324K

Prepared Date : 22-Oct-2014

Revised Date : 30-Jun-2015

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State: Solid	Color: Black
Form: Powder (mean dia. is 5-10um by volume)	
Odor:	Almost odorless
PH	Not applicable
Boiling Point(°C):	Not applicable
Melting Point(°C)/[F]:	Around No data available /[] (Softening Point)
Flash Point(°C):	Not applicable
Auto-Ignition Temperature(°C):	No data available
Upper/ lower flammability or explosive limits	No data available
Explosion Properties:	No data available
Evaporation rate:	No data available
Vapor Pressure:	Not applicable
Vapor density:	Not applicable
Specific Gravity:	1.2
Solubility:	Insoluble in water.
Partition Coefficient, n-Octanol/Water:	Not applicable
Decomposition temperature:	Not applicable

10. STABILITY AND REACTIVITY

Reactivity:	None.
Stability:	Stable except above 200C(392F).
Hazardous Reactions:	Dust explosion, like most finely divided organic powders.
Conditions to avoid:	Electric discharge, throwing into fire.
Materials to Avoid:	Oxidizing materials.
Hazardous Decomposition Products:	CO, CO ₂ , NO _x and smoke.
Hazardous Polymerization:	Will not occur.



Product Name : TN324K

Prepared Date : 22-Oct-2014

Revised Date : 30-Jun-2015

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

Ingestion(oral), LD50(mg/kg): >2000(Rat) *

Dermal, LD50(mg/kg): No data available

Inhalation, LC50(mg/l): >5.13(Rat,4hour) *

(This was the highest attainable concentration.)

Eye irritation: Practically None irritant(Rabbit) *

Skin irritation: None irritant(Rabbit) *

Skin sensitizer: Non sensitizer (Mouse) *

Local Effects: see Chronic Toxicity or Long term Toxicity

Chronic Toxicity or Long Term Toxicity:

In a two-year inhalation study of chronic toxicity and carcinogenicity using a typical toner in rats, there were no lung changes at all in the lowest exposure level (1mg/m³), the most relevant level to potential human exposures. A minimal to mild degree of fibrosis was noted in 22% of the animals at the middle exposure level (4mg/m³), and a mild to moderate degree of fibrosis was observed in 92% of the rats at the highest exposure level(16mg/m³). The lung changes observed in the higher exposure groups are interpreted in terms of "lung overloading", a series of generic responses to the presence of large quantities of respirable, insoluble and relatively benign dusts retained for extended time periods in the lungs. Lung tumor frequency was unchanged among rats exposed to toner at the three exposure levels, and for air-only control rats.

Carcinogenicity

The IARC reevaluated carbon black as a Group 2B carcinogen (possible human carcinogen). This evaluation is given to Carbon Black for which there is inadequate human evidence, but sufficient animal evidence. The latter is based upon the development of lung tumors in rats receiving chronic inhalation exposures to free carbon black at levels that induce particle overload of the lung.

Studies performed in animal models other than rats have not demonstrated an association between carbon black and lung tumors. Moreover, a two-year cancer bioassay using a typical toner preparation containing carbon black demonstrated no association between toner exposure and tumor development in rats.

The IARC reevaluated titanium dioxide as a Group 2B carcinogen (possible human carcinogen). In animal chronic inhalation studies, the tumor formulation observed in only rats with animal chronic inhalation study are attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged interval. Use of this product, as intended, dose not result in inhalation of excessive dust. Epidemiological study to date have not revealed any evidence of the relation between exposure to titanium dioxide and diseases of the respiratory tract beyond general effects of dust.

Mutagenicity: Negative(AMES test)

Teratogenicity: No data available

(*= Based on data for other Konica Minolta Products with similar ingredients)

12. ECOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment.

Ecotoxicity: No data available

Mobility: No data available

Persistence and degradability: No data available

Bioaccumulative potential: No data available



Product Name : TN324K

Prepared Date : 22-Oct-2014

Revised Date : 30-Jun-2015

13. DISPOSAL CONSIDERATION

When disposing of the waste or recovered material, consult federal, state and/or local regulations for the proper disposal method.

14. TRANSPORT INFORMATION

Information on Code and Classifications According to International Regulations

UN Classification: None

Further information: Not a dangerous good under IATA or IMDG.

Hazchem code (Austl.): None

15. REGULATORY INFORMATION

US Information

TSCA (Toxic Substances Control Act):

All chemical substances in this product comply with all applicable rules or order under TSCA.

California Proposition 65:

Ingredient carbon black subject to California Proposition 65 is bound in polymer-matrices so that warnings are not required.

CERCLA (Comprehensive Environmental Response Compensation and Liability Act) :

None.

SARA Title III (Superfund Amendments and Reauthorization Act) 302 Extreme Hazardous Substance :

None.

311/312 Hazard Categories :

None.

313 Reportable Ingredients :

None.

EU Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

• Regulation (EC) No 2037/2000 of the European Parliament and of the Council on Substances That Deplete the Ozone Layer: Not applicable

• Regulation (EC) No 850/2004 of the European Parliament and of the Council on Persistent Organic Pollutants and Amending Directive 79/117/EEC (POPs): Not applicable

• Regulation (EU) No 649/2012 of the European Parliament and of the Council on Concerning the Export and Import of Dangerous Chemicals (PIC): Not applicable

• Directive 2012/18/EU of the European Parliament and of the Council on the Control of Major-Accident Hazards Involving Dangerous Substances, Amending and Subsequently Repealing Council Directive 96/82/EC, (Seveso III): Not applicable

• Regulation (EC) No 1907/2006 of the European Parliament and of the Council:

- Annex XIV- List of Substances Subject To Authorization: Not applicable

- Annex XVII- Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles: Not applicable

For this product a chemical safety assessment was not carried out.

Canada Information

WHMIS (Canada): This product is NOT subject to the controlled products regulations.



Product Name : TN324K

Prepared Date : 22-Oct-2014

Revised Date : 30-Jun-2015

16. OTHER INFORMATION

HMIS Rating: The National Paint and Coating Association (USA): Health: 1 Flammability: 1 Reactivity: 0

Explanation of term: IARC 2B means "possible human carcinogen".

Abbreviations:

ACGIH-TWA: Threshold Limit Value of American Conference of Government Industrial Hygienists

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

DFG-MAK: Maximale Arbeitsplatz-Konzentration by Deutsche Forschungsgemeinschaft

DGR: Dangerous Goods Regulations

EINECS: European Inventory of Existing Commercial Chemical Substances

H-Code: Hazard Code

HMIS: Hazardous Materials Identification System

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

IMDG: International Maritime Dangerous Goods Code

NTP: National Toxicology Program

OEL: Occupational exposure limit

OSHA: Occupational Safety and Health Administration

PBT: Persistent, Bioaccumulative and Toxic

SARA: Superfund Amendments and Reauthorization Act

TSCA: Toxic Substances Control Act

vPvB: very Persistent and very Bioaccumulative

WHMIS: Workplace Hazardous Materials Information System

Revision Information: Regular revision on revised date.

Literature References:

ANSI Z400.1-1993

ISO 11014-1

Commission Directive 91/155/EEC

IARC(2010): IARC monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 93, Carbon Black, Titanium Dioxide, and Talc, Lyon, pp. 43-191

H.Muhle, B.Bellmann, O.Creutzenberg, C.Dasenbrock, H.Ernst, R.Kilpper, J.C.MacKenzie, P.Morrow, U.Mohr, S.Takenaka, and R.Mermelstein(1991)

Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats. Fundamental and Applied Toxicology 17, pp.280-299.

NIOSH CURRENT INTELLIGENCE BULLETIN :Evaluation of Health Hazard and Recommendation for Occupational Exposure to Titanium Dioxide :DRAFT

Restrictions:

The above information is believed to be accurate and represents the best information currently available to Our Corporation. However, Our Corporation makes no warranty with respect to such information, and Our Corporation assumes no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.



Product Name: TN324Y

Prepared date:22-Oct-2014

Revised Date: 30-Jun-2015

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Name: TN324Y

used for: bizhub C368/C308/C258

Supplier Identification:

Konica Minolta Business Solutions U.S.A., Inc.
100 Williams Drive, Ramsey, New Jersey 07446, U.S.A.
Telephone: 201-825-4000

Emergency Telephone No.

CHEMTREC
Telephone: 1-800-424-9300

2. HAZARDS IDENTIFICATION

Regulation (EC) No 1272/2008

Classification: Not classified as dangerous.

Hazard Communication Standard (USA)

Classification: Not classified as dangerous.

LABEL ELEMENTS

Precautionary pictograms:	---
Signal word:	---
Hazard Statement:	---
Precautionary Statements:	---

Other Hazards

Dust explosion (like most finely divided organic powders).



Product Name : TN324Y

Prepared date : 22-Oct-2014

Revised Date : 30-Jun-2015

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance [] Preparation [X]

Major Ingredients:

[Generic Name]	[CAS No.]	[%]
Styrene acrylic resin	+++	65-75
Ferrite Iron oxide	1309-37-1	5-15
. Manganese oxide	1344-43-0	1-10
Wax	+++	1-10
Organic pigment	+++	1-10
Amorphous silica	7631-86-9	1-10
Titanium dioxide	13463-67-7	<1

+++ : Supplier's confidential information

Hazardous Ingredients:

Chemical Name: Titanium dioxide

CAS No.: 13463-67-7

NTP(USA): Not listed

Symbol(EC): Not listed

EINECS-No.: 236-675-5

IARC Monographs: Group 2B

H code(EC): Not listed

Chemical Name: Manganese oxide

CAS No.: 1344-43-0

Symbol(EC): Not listed

EINECS-No.: 215-695-8

H code(EC): Not listed

4. FIRST-AID MEASURES

Ingestion: Wash out mouth with water. Drink one or two glasses of water. If symptoms occur, get medical attention.

Inhalation: Move victim to fresh air immediately. If symptoms occur, get medical attention.

Eye Contact: Flush eyes with plenty of water for 15 minutes. If symptoms occur, get medical attention.

Skin Contact: Wash with water and mild soap.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: CO2, water spray, foam and dry chemical

Extinguishing Media to Avoid: Full water jet

Fire and Explosion Hazards: If dispersed in air, like most finely divided organic powders, may form an explosive mixture.

Protection of Firefighters: Use self-contained breathing apparatus(SCBA).



Product Name : TN324Y

Prepared date : 22-Oct-2014

Revised Date : 30-Jun-2015

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: None

Environmental Precautions: None

Methods for Cleaning Up: Wear personal protective equipment(See Section 8). Vacuum or sweep material and place in a bag and hold for waste disposal. Use vacuum equipped with High Efficiency Particulate Air(HEPA) filter. Vacuum should be electrically bonded and grounded to dispel static electricity. To avoid dust generation, do not sweep dry.

7. HANDLING AND STORAGE

Handling

Technical Measures: None

Precautions: Do not breathe dust. Avoid contact with eyes.

Safe Handling Advice: Try not to disperse the particulates.

Storage

Technical Measures: None

Storage Conditions: Keep container closed. Store in a cool and dry place. Keep out of reach of children.

Incompatible Products: None

Packaging Materials: Bottles or Cartridge designated by Konica Minolta.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures

Ventilation: None required with intended use.

Control Parameters(As total dust)

ACGIH-TLV(USA) : 10mg/m³ (Inhalable particles), 3.0 mg/m³ (Respirable particles)

OSHA-PEL(USA): 15mg/m³ (Total dusts), 5.0 mg/m³ (Respirable fraction)

DFG-MAK(GER): 4mg/m³ (Inhalable fraction), 1.5mg/m³ (Respirable fraction)

Worksafe-TWA(Austl.): 10mg/m³

Control Parameters (As Ingredients: Titanium dioxide)

ACGIH-TLV(USA): 10mg/m³

OSHA Z-Tables(USA): 15mg/m³

Worksafe-TWA(Austl): 10mg/m³

Control Parameters (As Ingredients: Manganese oxide)

ACGIH-TLV(USA): 0.2mg/m³

OSHA Z-Tables(USA): ceiling 5mg/m³

Worksafe-TWA(Austl): 1mg/m³

Personal Protective Equipment

Not required under normal conditions. For use other than in normal operating procedures (such as in the event of large spill), goggles and respirators may be required.

Hygiene Measures: Wash hands after handling.



Product Name: TN324Y

Prepared date: 22-Oct-2014

Revised Date: 30-Jun-2015

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State: Solid

Color: Yellow

Form: Powder (mean dia. is 5-10um by volume)

Odor:

Almost odorless

PH

Not applicable

Boiling Point(°C):

Not applicable

Melting Point(°C):

Around No data available /[] (Softening Point)

Flash Point(°C):

Not applicable

Auto-Ignition Temperature(°C):

No data available

Upper/ lower flammability or explosive limits

No data available

Explosion Properties:

No data available

Evaporation rate:

No data available

Vapor Pressure:

Not applicable

Vapor density:

Not applicable

Specific Gravity:

1.2

Solubility:

Insoluble in water.

Partition Coefficient, n-Octanol/Water:

Not applicable

Decomposition temperature:

Not applicable

10. STABILITY AND REACTIVITY

Reactivity:

None.

Stability:

Stable except above 200C(392F).

Hazardous Reactions:

Dust explosion, like most finely divided organic powders.

Conditions to avoid:

Electric discharge, throwing into fire.

Materials to Avoid:

Oxidizing materials.

Hazardous Decomposition Products: CO, CO₂, NO_x and smoke.

Hazardous Polymerization:

Will not occur.



Product Name : TN324Y

Prepared date : 22-Oct-2014

Revised Date : 30-Jun-2015

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

Ingestion(oral), LD50(mg/kg):	>2000 (Rat) *
Dermal, LD50(mg/kg):	No data available
Inhalation, LC50(mg/l):	>5.11 (Rat,4hour) *(This was the highest attainable concentration.)
Eye irritation:	Minimal irritant (Rabbit) *
Skin irritation:	None irritant (Rabbit) *
Skin sensitizer:	Non sensitizer (Mouse) *

Local Effects: see Chronic Toxicity or Long term Toxicity

Chronic Toxicity or Long Term Toxicity:

Prolonged inhalation of excessive dust may cause lung damage. It is attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged interval. Use of this product, as intended, does not result in inhalation of excessive dust.

In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of rats in the high concentration (16mg/m³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle (4mg/m³) exposure group. But no pulmonary change was reported in the lowest (1mg/m³) exposure group, the most relevant level to potential human exposures.

Carcinogenicity

The IARC reevaluated titanium dioxide as a Group 2B carcinogen (possible human carcinogen). In animal chronic inhalation studies, the tumor formulation observed in only rats with animal chronic inhalation study are attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged interval. Use of this product, as intended, dose not result in inhalation of excessive dust. Epidemiological study to date have not revealed any evidence of the relation between exposure to titanium dioxide and diseases of the respiratory tract beyond general effects of dust.

Mutagenicity: Negative (AMES test)

Teratogenicity: No data available

(*= Based on data for other Konica Minolta Products with similar ingredients)

12. ECOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment.

Ecotoxicity:	No data available
Mobility:	No data available
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available

13. DISPOSAL CONSIDERATION

When disposing of the waste or recovered material, consult federal, state and/or local regulations for the proper disposal method.



Product Name: TN324Y

Prepared date: 22-Oct-2014

Revised Date: 30-Jun-2015

14. TRANSPORT INFORMATION

Information on Code and Classifications According to International Regulations

UN Classification: None

Further information: Not a dangerous good under IATA or IMDG.

Hazchem code (Austl.): None

15. REGULATORY INFORMATION

US Information

TSCA (Toxic Substances Control Act):

All chemical substances in this product comply with all applicable rules or order under TSCA.

California Proposition 65:

This product contains no chemical substances subject to California Proposition 65.

CERCLA (Comprehensive Environmental Response Compensation and Liability Act) :

None.

SARA Title III (Superfund Amendments and Reauthorization Act) 302 Extreme Hazardous Substance :

None.

311/312 Hazard Categories :

None.

313 Reportable Ingredients :

None.

EU Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

- Regulation (EC) No 2037/2000 of the European Parliament and of the Council on Substances That Deplete the Ozone Layer: Not applicable
- Regulation (EC) No 850/2004 of the European Parliament and of the Council on Persistent Organic Pollutants and Amending Directive 79/117/EEC (POPs): Not applicable
- Regulation (EU) No 649/2012 of the European Parliament and of the Council on Concerning the Export and Import of Dangerous Chemicals (PIC): Not applicable
- Directive 2012/18/EU of the European Parliament and of the Council on the Control of Major-Accident Hazards Involving Dangerous Substances, Amending and Subsequently Repealing Council Directive 96/82/EC, (Seveso III): Not applicable
- Regulation (EC) No 1907/2006 of the European Parliament and of the Council:
 - Annex XIV- List of Substances Subject To Authorization: Not applicable
 - Annex XVII- Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles: Not applicable

For this product a chemical safety assessment was not carried out.

Canada Information

WHMIS (Canada): This product is NOT subject to the controlled products regulations.



Product Name: TN324Y

Prepared date: 22-Oct-2014

Revised Date: 30-Jun-2015

16. OTHER INFORMATION

HMIS Rating: The National Paint and Coating Association (USA): Health: 1 Flammability: 1 Reactivity: 0

Explanation of term: IARC 2B means "possible human carcinogen".

Abbreviations:

ACGIH-TWA: Threshold Limit Value of American Conference of Government Industrial Hygienists

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

DFG-MAK: Maximale Arbeitsplatz-Konzentration by Deutsche Forschungsgemeinschaft

DGR: Dangerous Goods Regulations

EINECS: European Inventory of Existing Commercial Chemical Substances

H-Code: Hazard Code

HMIS: Hazardous Materials Identification System

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

IMDG: International Maritime Dangerous Goods Code

NTP: National Toxicology Program

OEL: Occupational exposure limit

OSHA: Occupational Safety and Health Administration

PBT: Persistent, Bioaccumulative and Toxic

SARA: Superfund Amendments and Reauthorization Act

TSCA: Toxic Substances Control Act

vPvB: very Persistent and very Bioaccumulative

WHMIS: Workplace Hazardous Materials Information System

Revision Information: Regular revision on revised date.

Literature References:

ANSI Z400.1-1993

ISO 11014-1

Commission Directive 91/155/EEC

IARC(2010): IARC monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 93, Carbon Black, Titanium Dioxide, and Talc, Lyon, pp. 43-191

H.Muhle, B.Bellmann, O.Creutzenberg, C.Dasenbrock, H.Ernst, R.Kilpper, J.C.MacKenzie, P.Morrow, U.Mohr, S.Takenaka, and R.Mermelstein(1991)

Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats. Fundamental and Applied Toxicology 17, pp.280-299.

NIOSH CURRENT INTELLIGENCE BULLETIN :Evaluation of Health Hazard and Recommendation for Occupational Exposure to Titanium Dioxide :DRAFT

Restrictions:

The above information is believed to be accurate and represents the best information currently available to Our Corporation. However, Our Corporation makes no warranty with respect to such information, and Our Corporation assumes no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.



Product Name: TN324M

Prepared date:22-Oct-2014

Revised Date: 30-Jun-2015

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Name: TN324M

used for: bizhub C368/C308/C258

Supplier Identification:

Konica Minolta Business Solutions U.S.A., Inc.

100 Williams Drive, Ramsey, New Jersey 07446, U.S.A.

Telephone: 201-825-4000

Emergency Telephone No.

CHEMTREC

Telephone: 1-800-424-9300

2. HAZARDS IDENTIFICATION

Regulation (EC) No 1272/2008

Classification: Not classified as dangerous.

Hazard Communication Standard (USA)

Classification: Not classified as dangerous.

LABEL ELEMENTS

Precautionary pictograms: ---

Signal word: ---

Hazard Statement: ---

Precautionary Statements: ---

Other Hazards

Dust explosion (like most finely divided organic powders).



Product Name: TN324M

Prepared date: 22-Oct-2014

Revised Date: 30-Jun-2015

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance [] Preparation [X]

Major Ingredients:

[Generic Name]	[CAS No.]	[%]
Styrene acrylic resin	+++	65-75
Ferrite Iron oxide	1309-37-1	5-15
. Manganese oxide	1344-43-0	1-10
Wax	+++	1-10
Organic pigment 1	+++	1-10
Organic pigment 2	+++	1-10
Amorphous silica	7631-86-9	1-10
Titanium dioxide	13463-67-7	1-10

+++ : Supplier's confidential information

Hazardous Ingredients:

Chemical Name: Titanium dioxide

CAS No.: 13463-67-7

NTP(USA): Not listed

Symbol(EC): Not listed

EINECS-No.: 236-675-5

IARC Monographs: Group 2B

H code(EC): Not listed

Chemical Name: Manganese oxide

CAS No.: 1344-43-0

Symbol(EC): Not listed

EINECS-No.: 215-695-8

H code(EC): Not listed

4. FIRST-AID MEASURES

Ingestion: Wash out mouth with water. Drink one or two glasses of water. If symptoms occur, get medical attention.

Inhalation: Move victim to fresh air immediately. If symptoms occur, get medical attention.

Eye Contact: Flush eyes with plenty of water for 15 minutes. If symptoms occur, get medical attention.

Skin Contact: Wash with water and mild soap.

5. FIRE-FIGHTING MEASURESSuitable Extinguishing Media: CO₂, water spray, foam and dry chemical

Extinguishing Media to Avoid: Full water jet

Fire and Explosion Hazards: If dispersed in air, like most finely divided organic powders, may form an explosive mixture.

Protection of Firefighters: Use self-contained breathing apparatus(SCBA).



Product Name : TN324M

Prepared date : 22-Oct-2014

Revised Date : 30-Jun-2015

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: None

Environmental Precautions: None

Methods for Cleaning Up: Wear personal protective equipment(See Section 8). Vacuum or sweep material and place in a bag and hold for waste disposal. Use vacuum equipped with High Efficiency Particulate Air(HEPA) filter. Vacuum should be electrically bonded and grounded to dispel static electricity. To avoid dust generation, do not sweep dry.

7. HANDLING AND STORAGE

Handling

Technical Measures: None

Precautions: Do not breathe dust. Avoid contact with eyes.

Safe Handling Advice: Try not to disperse the particulates.

Storage

Technical Measures: None

Storage Conditions: Keep container closed. Store in a cool and dry place. Keep out of reach of children.

Incompatible Products: None

Packaging Materials: Bottles or Cartridge designated by Konica Minolta.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures

Ventilation: None required with intended use.

Control Parameters(As total dust)

ACGIH-TLV(USA) : 10mg/m³ (Inhalable particles), 3.0 mg/m³ (Respirable particles)

OSHA-PEL(USA): 15mg/m³ (Total dusts), 5.0 mg/m³ (Respirable fraction)

DFG-MAK(GER): 4mg/m³ (Inhalable fraction), 1.5mg/m³ (Respirable fraction)

Worksafe-TWA(Austl.): 10mg/m³

Control Parameters (As Ingredients: Titanium dioxide)

ACGIH-TLV(USA): 10mg/m³

OSHA Z-Tables(USA): 15mg/m³

Worksafe-TWA(Austl): 10mg/m³

Control Parameters (As Ingredients: Manganese oxide)

ACGIH-TLV(USA): 0.2mg/m³

OSHA Z-Tables(USA): ceiling 5mg/m³

Worksafe-TWA(Austl): 1mg/m³

Personal Protective Equipment

Not required under normal conditions. For use other than in normal operating procedures (such as in the event of large spill), goggles and respirators may be required.

Hygiene Measures: Wash hands after handling.



Product Name: TN324M

Prepared date: 22-Oct-2014

Revised Date: 30-Jun-2015

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State: Solid

Color: Red

Form: Powder (mean dia. is 5-10um by volume)

Odor:

Almost odorless

PH

Not applicable

Boiling Point(°C):

Not applicable

Melting Point(°C):

Around No data available /[] (Softening Point)

Flash Point(°C):

Not applicable

Auto-Ignition Temperature(°C):

No data available

Upper/ lower flammability or explosive limits

No data available

Explosion Properties:

No data available

Evaporation rate:

No data available

Vapor Pressure:

Not applicable

Vapor density:

Not applicable

Specific Gravity:

1.2

Solubility:

Insoluble in water.

Partition Coefficient, n-Octanol/Water:

Not applicable

Decomposition temperature:

Not applicable

10. STABILITY AND REACTIVITY

Reactivity:

None.

Stability:

Stable except above 200C(392F).

Hazardous Reactions:

Dust explosion, like most finely divided organic powders.

Conditions to avoid:

Electric discharge, throwing into fire.

Materials to Avoid:

Oxidizing materials.

Hazardous Decomposition Products: CO, CO₂, NO_x and smoke.

Hazardous Polymerization:

Will not occur.



Product Name : TN324M

Prepared date : 22-Oct-2014

Revised Date : 30-Jun-2015

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

Ingestion(oral), LD50(mg/kg):	>2000 (Rat) *
Dermal, LD50(mg/kg):	No data available
Inhalation, LC50(mg/l):	>5.06 (Rat,4hour) *(This was the highest attainable concentration.)
Eye irritation:	Minimal irritant (Rabbit) *
Skin irritation:	None irritant (Rabbit) *
Skin sensitizer:	Non sensitizer (Mouse) *

Local Effects: see Chronic Toxicity or Long term Toxicity

Chronic Toxicity or Long Term Toxicity:

Prolonged inhalation of excessive dust may cause lung damage. It is attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged interval. Use of this product, as intended, does not result in inhalation of excessive dust.

In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of rats in the high concentration(16mg/m³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle(4mg/m³) exposure group. But no pulmonary change was reported in the lowest(1mg/m³) exposure group, the most relevant level to potential human exposures.

Carcinogenicity

The IARC reevaluated titanium dioxide as a Group 2B carcinogen (possible human carcinogen). In animal chronic inhalation studies, the tumor formulation observed in only rats with animal chronic inhalation study are attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged interval. Use of this product, as intended, dose not result in inhalation of excessive dust. Epidemiological study to date have not revealed any evidence of the relation between exposure to titanium dioxide and diseases of the respiratory tract beyond general effects of dust.

Mutagenicity: Negative (AMES test)

Teratogenicity: No data available

(*= Based on data for other Konica Minolta Products with similar ingredients)

12. ECOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment.

Ecotoxicity:	No data available
Mobility:	No data available
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available

13. DISPOSAL CONSIDERATION

When disposing of the waste or recovered material, consult federal, state and/or local regulations for the proper disposal method.



Product Name : TN324M

Prepared date : 22-Oct-2014

Revised Date : 30-Jun-2015

14. TRANSPORT INFORMATION

Information on Code and Classifications According to International Regulations

UN Classification: None

Further information: Not a dangerous good under IATA or IMDG.

Hazchem code (Austl.): None

15. REGULATORY INFORMATION

US Information

TSCA (Toxic Substances Control Act):

All chemical substances in this product comply with all applicable rules or order under TSCA.

California Proposition 65:

This product contains no chemical substances subject to California Proposition 65.

CERCLA (Comprehensive Environmental Response Compensation and Liability Act) :

None.

SARA Title III (Superfund Amendments and Reauthorization Act) 302 Extreme Hazardous Substance :

None.

311/312 Hazard Categories :

None.

313 Reportable Ingredients :

None.

EU Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

- Regulation (EC) No 2037/2000 of the European Parliament and of the Council on Substances That Deplete the Ozone Layer: Not applicable
- Regulation (EC) No 850/2004 of the European Parliament and of the Council on Persistent Organic Pollutants and Amending Directive 79/117/EEC (POPs): Not applicable
- Regulation (EU) No 649/2012 of the European Parliament and of the Council on Concerning the Export and Import of Dangerous Chemicals (PIC): Not applicable
- Directive 2012/18/EU of the European Parliament and of the Council on the Control of Major-Accident Hazards Involving Dangerous Substances, Amending and Subsequently Repealing Council Directive 96/82/EC, (Seveso III): Not applicable
- Regulation (EC) No 1907/2006 of the European Parliament and of the Council:
 - Annex XIV- List of Substances Subject To Authorization: Not applicable
 - Annex XVII- Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles: Not applicable

For this product a chemical safety assessment was not carried out.

Canada Information

WHMIS (Canada): This product is NOT subject to the controlled products regulations.



Product Name: TN324M

Prepared date: 22-Oct-2014

Revised Date: 30-Jun-2015

16. OTHER INFORMATION

HMIS Rating: The National Paint and Coating Association (USA): Health: 1 Flammability: 1 Reactivity: 0

Explanation of term: IARC 2B means "possible human carcinogen".

Abbreviations:

ACGIH-TWA: Threshold Limit Value of American Conference of Government Industrial Hygienists

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

DFG-MAK: Maximale Arbeitsplatz-Konzentration by Deutsche Forschungsgemeinschaft

DGR: Dangerous Goods Regulations

EINECS: European Inventory of Existing Commercial Chemical Substances

H-Code: Hazard Code

HMIS: Hazardous Materials Identification System

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

IMDG: International Maritime Dangerous Goods Code

NTP: National Toxicology Program

OEL: Occupational exposure limit

OSHA: Occupational Safety and Health Administration

PBT: Persistent, Bioaccumulative and Toxic

SARA: Superfund Amendments and Reauthorization Act

TSCA: Toxic Substances Control Act

vPvB: very Persistent and very Bioaccumulative

WHMIS: Workplace Hazardous Materials Information System

Revision Information: Regular revision on revised date.

Literature References:

ANSI Z400.1-1993

ISO 11014-1

Commission Directive 91/155/EEC

IARC(2010): IARC monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 93, Carbon Black, Titanium Dioxide, and Talc, Lyon, pp. 43-191

H.Muhle, B.Bellmann, O.Creutzenberg, C.Dasenbrock, H.Ernst, R.Kilpper, J.C.MacKenzie, P.Morrow, U.Mohr, S.Takenaka, and R.Mermelstein(1991)

Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats. Fundamental and Applied Toxicology 17, pp.280-299.

NIOSH CURRENT INTELLIGENCE BULLETIN :Evaluation of Health Hazard and Recommendation for Occupational Exposure to Titanium Dioxide :DRAFT

Restrictions:

The above information is believed to be accurate and represents the best information currently available to Our Corporation. However, Our Corporation makes no warranty with respect to such information, and Our Corporation assumes no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.



Product Name: TN324C

Prepared date:22-Oct-2014

Revised Date: 30-Jun-2015

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Name: TN324C

used for: bizhub C368/C308/C258

Supplier Identification:

Konica Minolta Business Solutions U.S.A., Inc.

100 Williams Drive, Ramsey, New Jersey 07446, U.S.A.

Telephone: 201-825-4000

Emergency Telephone No.

CHEMTREC

Telephone: 1-800-424-9300

2. HAZARDS IDENTIFICATION

Regulation (EC) No 1272/2008

Classification: Not classified as dangerous.

Hazard Communication Standard (USA)

Classification: Not classified as dangerous.

LABEL ELEMENTS

Precautionary pictograms: ---

Signal word: ---

Hazard Statement: ---

Precautionary Statements: ---

Other Hazards

Dust explosion (like most finely divided organic powders).



Product Name: TN324C

Prepared date: 22-Oct-2014

Revised Date: 30-Jun-2015

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance [] Preparation [X]

Major Ingredients:

[Generic Name]	[CAS No.]	[%]
Styrene acrylic resin	+++	65-75
Ferrite Iron oxide	1309-37-1	5-15
. Manganese oxide	1344-43-0	1-10
Wax	+++	1-10
Organic pigment	147-14-8	1-10
Amorphous silica	7631-86-9	1-10
Titanium dioxide	13463-67-7	<1

+++ : Supplier's confidential information

Hazardous Ingredients:

Chemical Name: Titanium dioxide

CAS No.: 13463-67-7

NTP(USA): Not listed

Symbol(EC): Not listed

EINECS-No.: 236-675-5

IARC Monographs: Group 2B

H code(EC): Not listed

Chemical Name: Manganese oxide

CAS No.: 1344-43-0

Symbol(EC): Not listed

EINECS-No.: 215-695-8

H code(EC): Not listed

4. FIRST-AID MEASURES

Ingestion: Wash out mouth with water. Drink one or two glasses of water. If symptoms occur, get medical attention.

Inhalation: Move victim to fresh air immediately. If symptoms occur, get medical attention.

Eye Contact: Flush eyes with plenty of water for 15 minutes. If symptoms occur, get medical attention.

Skin Contact: Wash with water and mild soap.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: CO2, water spray, foam and dry chemical

Extinguishing Media to Avoid: Full water jet

Fire and Explosion Hazards: If dispersed in air, like most finely divided organic powders, may form an explosive mixture.

Protection of Firefighters: Use self-contained breathing apparatus(SCBA).



Product Name : TN324C

Prepared date : 22-Oct-2014

Revised Date : 30-Jun-2015

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: None

Environmental Precautions: None

Methods for Cleaning Up: Wear personal protective equipment(See Section 8). Vacuum or sweep material and place in a bag and hold for waste disposal. Use vacuum equipped with High Efficiency Particulate Air(HEPA) filter. Vacuum should be electrically bonded and grounded to dispel static electricity. To avoid dust generation, do not sweep dry.

7. HANDLING AND STORAGE

Handling

Technical Measures: None

Precautions: Do not breathe dust. Avoid contact with eyes.

Safe Handling Advice: Try not to disperse the particulates.

Storage

Technical Measures: None

Storage Conditions: Keep container closed. Store in a cool and dry place. Keep out of reach of children.

Incompatible Products: None

Packaging Materials: Bottles or Cartridge designated by Konica Minolta.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures

Ventilation: None required with intended use.

Control Parameters(As total dust)

ACGIH-TLV(USA) : 10mg/m³ (Inhalable particles), 3.0 mg/m³ (Respirable particles)

OSHA-PEL(USA): 15mg/m³ (Total dusts), 5.0 mg/m³ (Respirable fraction)

DFG-MAK(GER): 4mg/m³ (Inhalable fraction), 1.5mg/m³ (Respirable fraction)

Worksafe-TWA(Austl.): 10mg/m³

Control Parameters (As Ingredients: Titanium dioxide)

ACGIH-TLV(USA): 10mg/m³

OSHA Z-Tables(USA): 15mg/m³

Worksafe-TWA(Austl): 10mg/m³

Control Parameters (As Ingredients: Manganese oxide)

ACGIH-TLV(USA): 0.2mg/m³

OSHA Z-Tables(USA): ceiling 5mg/m³

Worksafe-TWA(Austl): 1mg/m³

Personal Protective Equipment

Not required under normal conditions. For use other than in normal operating procedures (such as in the event of large spill), goggles and respirators may be required.

Hygiene Measures: Wash hands after handling.



Product Name: TN324C

Prepared date: 22-Oct-2014

Revised Date: 30-Jun-2015

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State: Solid

Color: Cyan

Form: Powder (mean dia. is 5-10um by volume)

Odor:

Almost odorless

PH

Not applicable

Boiling Point(°C):

Not applicable

Melting Point(°C):

Around No data available /[] (Softening Point)

Flash Point(°C):

Not applicable

Auto-Ignition Temperature(°C):

No data available

Upper/ lower flammability or explosive limits

No data available

Explosion Properties:

No data available

Evaporation rate:

No data available

Vapor Pressure:

Not applicable

Vapor density:

Not applicable

Specific Gravity:

1.2

Solubility:

Insoluble in water.

Partition Coefficient, n-Octanol/Water:

Not applicable

Decomposition temperature:

Not applicable

10. STABILITY AND REACTIVITY

Reactivity:

None.

Stability:

Stable except above 200C(392F).

Hazardous Reactions:

Dust explosion, like most finely divided organic powders.

Conditions to avoid:

Electric discharge, throwing into fire.

Materials to Avoid:

Oxidizing materials.

Hazardous Decomposition Products: CO, CO₂, NO_x and smoke.

Hazardous Polymerization:

Will not occur.



Product Name : TN324C

Prepared date : 22-Oct-2014

Revised Date : 30-Jun-2015

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

Ingestion(oral), LD50(mg/kg):	>2000 (Rat) *
Dermal, LD50(mg/kg):	No data available
Inhalation, LC50(mg/l):	>5.12 (Rat,4hour) *(This was the highest attainable concentration.)
Eye irritation:	Minimal irritant (Rabbit) *
Skin irritation:	None irritant (Rabbit) *
Skin sensitizer:	Non sensitizer (Mouse) *

Local Effects: see Chronic Toxicity or Long term Toxicity

Chronic Toxicity or Long Term Toxicity:

Prolonged inhalation of excessive dust may cause lung damage. It is attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged interval. Use of this product, as intended, does not result in inhalation of excessive dust.

In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of rats in the high concentration(16mg/m³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle(4mg/m³) exposure group. But no pulmonary change was reported in the lowest(1mg/m³) exposure group, the most relevant level to potential human exposures.

Carcinogenicity

The IARC reevaluated titanium dioxide as a Group 2B carcinogen (possible human carcinogen). In animal chronic inhalation studies, the tumor formulation observed in only rats with animal chronic inhalation study are attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged interval. Use of this product, as intended, dose not result in inhalation of excessive dust. Epidemiological study to date have not revealed any evidence of the relation between exposure to titanium dioxide and diseases of the respiratory tract beyond general effects of dust.

Mutagenicity: Negative (AMES test)

Teratogenicity: No data available

(*= Based on data for other Konica Minolta Products with similar ingredients)

12. ECOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment.

Ecotoxicity:	No data available
Mobility:	No data available
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available

13. DISPOSAL CONSIDERATION

When disposing of the waste or recovered material, consult federal, state and/or local regulations for the proper disposal method.



Product Name : TN324C

Prepared date : 22-Oct-2014

Revised Date : 30-Jun-2015

14. TRANSPORT INFORMATION

Information on Code and Classifications According to International Regulations

UN Classification: None

Further information: Not a dangerous good under IATA or IMDG.

Hazchem code (Austl.): None

15. REGULATORY INFORMATION

US Information

TSCA (Toxic Substances Control Act):

All chemical substances in this product comply with all applicable rules or order under TSCA.

California Proposition 65:

This product contains no chemical substances subject to California Proposition 65.

CERCLA (Comprehensive Environmental Response Compensation and Liability Act) :

None.

SARA Title III (Superfund Amendments and Reauthorization Act) 302 Extreme Hazardous Substance :

None.

311/312 Hazard Categories :

None.

313 Reportable Ingredients :

None.

EU Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

• Regulation (EC) No 2037/2000 of the European Parliament and of the Council on Substances That Deplete the Ozone Layer: Not applicable

• Regulation (EC) No 850/2004 of the European Parliament and of the Council on Persistent Organic Pollutants and Amending Directive 79/117/EEC (POPs): Not applicable

• Regulation (EU) No 649/2012 of the European Parliament and of the Council on Concerning the Export and Import of Dangerous Chemicals (PIC): Not applicable

• Directive 2012/18/EU of the European Parliament and of the Council on the Control of Major-Accident Hazards Involving Dangerous Substances, Amending and Subsequently Repealing Council Directive 96/82/EC, (Seveso III): Not applicable

• Regulation (EC) No 1907/2006 of the European Parliament and of the Council:

- Annex XIV- List of Substances Subject To Authorization: Not applicable

- Annex XVII- Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles: Not applicable

For this product a chemical safety assessment was not carried out.

Canada Information

WHMIS (Canada): This product is NOT subject to the controlled products regulations.



Product Name : TN324C

Prepared date : 22-Oct-2014

Revised Date : 30-Jun-2015

16. OTHER INFORMATION

HMIS Rating: The National Paint and Coating Association (USA): Health: 1 Flammability: 1 Reactivity: 0

Explanation of term: IARC 2B means "possible human carcinogen".

Abbreviations:

ACGIH-TWA: Threshold Limit Value of American Conference of Government Industrial Hygienists

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

DFG-MAK: Maximale Arbeitsplatz-Konzentration by Deutsche Forschungsgemeinschaft

DGR: Dangerous Goods Regulations

EINECS: European Inventory of Existing Commercial Chemical Substances

H-Code: Hazard Code

HMIS: Hazardous Materials Identification System

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

IMDG: International Maritime Dangerous Goods Code

NTP: National Toxicology Program

OEL: Occupational exposure limit

OSHA: Occupational Safety and Health Administration

PBT: Persistent, Bioaccumulative and Toxic

SARA: Superfund Amendments and Reauthorization Act

TSCA: Toxic Substances Control Act

vPvB: very Persistent and very Bioaccumulative

WHMIS: Workplace Hazardous Materials Information System

Revision Information: Regular revision on revised date.

Literature References:

ANSI Z400.1-1993

ISO 11014-1

Commission Directive 91/155/EEC

IARC(2010): IARC monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 93, Carbon Black, Titanium Dioxide, and Talc, Lyon, pp. 43-191

H.Muhle, B.Bellmann, O.Creutzenberg, C.Dasenbrock, H.Ernst, R.Kilpper, J.C.MacKenzie, P.Morrow, U.Mohr, S.Takenaka, and R.Mermelstein(1991)

Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats. Fundamental and Applied Toxicology 17, pp.280-299.

NIOSH CURRENT INTELLIGENCE BULLETIN :Evaluation of Health Hazard and Recommendation for Occupational Exposure to Titanium Dioxide :DRAFT

Restrictions:

The above information is believed to be accurate and represents the best information currently available to Our Corporation. However, Our Corporation makes no warranty with respect to such information, and Our Corporation assumes no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.



Product Name: DV313K

Prepared Date:22-Oct-2014

Revised Date: 30-Jun-2015

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Name: DV313K

used for: bizhub C368/C308/C258

Supplier Identification:

Konica Minolta Business Solutions U.S.A., Inc.

100 Williams Drive, Ramsey, New Jersey 07446, U.S.A.

Telephone: 201-825-4000

Emergency Telephone No.

CHEMTREC

Telephone: 1-800-424-9300

2. HAZARDS IDENTIFICATION

Regulation (EC) No 1272/2008

Classification: Not classified as dangerous.

Hazard Communication Standard (USA)

Classification: Not classified as dangerous.

LABEL ELEMENTS

Precautionary pictograms: ---

Signal word: ---

Hazard Statement: ---

Precautionary Statements: ---

Other Hazards

Dust explosion (like most finely divided organic powders).



Product Name : DV313K

Prepared Date : 22-Oct-2014

Revised Date : 30-Jun-2015

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance [] Preparation [X]

Major Ingredients:

[Generic Name]	[CAS No.]	[%]
Ferrite Iron oxide	1309-37-1	60-70
. Manganese oxide	1344-43-0	15-25
. Magnesium oxide	1309-48-4	1-10
Styrene-acrylic resin	+++	1-10
Acryl resin	+++	1-10
Carbon black	1333-86-4	< 1
Amorphous silica	7631-86-9	< 1

+++ : Supplier's confidential information

Hazardous Ingredients:

Chemical Name: Carbon black

CAS No.: 1333-86-4

EINECS-No.: 215-609-9

NTP(USA): Not listed

California Proposition 65(USA): Listed

Symbol(EC): Not listed

DFG-MAK(GER): III 3B

REACH Registration number: 01-2119384822-32-XXXX

IARC Monographs: Group 2B

H code(EC): Not listed

Chemical Name: Manganese oxide

CAS No.: 1344-43-0

Symbol(EC): Not listed

EINECS-No.: 215-695-8

H code(EC): Not listed

4. FIRST-AID MEASURES

Ingestion: Wash out mouth with water. Drink one or two glasses of water. If symptoms occur, get medical attention.

Inhalation: Move victim to fresh air immediately. If symptoms occur, get medical attention.

Eye Contact: Immediately flush eyes with plenty of water for 15 minutes. If symptoms occur, get medical attention.

Skin Contact: Wash with water and mild soap.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: CO2, water spray, foam and dry chemical

Extinguishing Media to Avoid: Full water jet

Fire and Explosion Hazards: If dispersed in air, like most finely divided organic powders, may form an explosive mixture.

Protection of Firefighters: Use self-contained breathing apparatus(SCBA).



Product Name : DV313K

Prepared Date : 22-Oct-2014

Revised Date : 30-Jun-2015

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: None

Environmental Precautions: None

Methods for Cleaning Up: Wear personal protective equipment(See Section 8). Vacuum or sweep material and place in a bag and hold for waste disposal. Use vacuum equipped with High Efficiency Particulate Air(HEPA) filter. Vacuum should be electrically bonded and grounded to dispel static electricity. To avoid dust generation, do not sweep dry.

7. HANDLING AND STORAGE

Handling

Technical Measures: None

Precautions: Do not breathe dust. Avoid contact with eyes.

Safe Handling Advice: Try not to disperse the particulates.

Storage

Technical Measures: None

Storage Conditions: Keep container closed. Store in a cool and dry place. Keep out of reach of children.

Incompatible Products: None

Packaging Materials: Bottles or Cartridge designated by Konica Minolta.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures

Ventilation: None required with intended use.

Control Parameters (As total dust)

ACGIH-TLV (USA): 10mg/m³ (Inhalable particles), 3.0 mg/m³ (Respirable particles)

OSHA-PEL (USA): 15mg/m³ (Total dusts), 5.0 mg/m³ (Respirable fraction)

DFG-MAK (GER): 4mg/m³ (Inhalable fraction), 1.5mg/m³ (Respirable fraction)

Worksafe-TWA (Austl.): 10mg/m³

Control Parameters (As Ingredients: Carbon black)

ACGIH-TLV (USA): 3mg/m³

OSHA Z-Table (USA): 3.5mg/m³

Worksafe-TWA (Austl.): 3mg/m³

Control Parameters (As Ingredients: Manganese oxide)

ACGIH-TLV(USA): 0.2mg/m³

OSHA Z-Tables(USA): ceiling 5mg/m³

Worksafe-TWA(Austl): 1mg/m³

Personal Protective Equipment

Not required under normal conditions. For use other than in normal operating procedures (such as in the event of large spill), goggles and respirators may be required.

Hygiene Measures: Wash hands after handling.



Product Name : DV313K

Prepared Date : 22-Oct-2014

Revised Date : 30-Jun-2015

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State: Solid	Color: Black
Form: Powder (mean dia. is 30-40um by volume)	
Odor:	Almost odorless
PH	Not applicable
Boiling Point(°C):	Not applicable
Melting Point(°C)/[F]:	Around No data available /[] (Softening Point)
Flash Point(°C):	Not applicable
Auto-Ignition Temperature(°C):	No data available
Upper/ lower flammability or explosive limits	No data available
Explosion Properties:	No data available
Evaporation rate:	No data available
Vapor Pressure:	Not applicable
Vapor density:	Not applicable
Specific Gravity:	5
Solubility:	Insoluble in water.
Partition Coefficient, n-Octanol/Water:	Not applicable
Decomposition temperature:	Not applicable

10. STABILITY AND REACTIVITY

Reactivity:	None.
Stability:	Stable except above 200C(392F).
Hazardous Reactions:	Dust explosion, like most finely divided organic powders.
Conditions to avoid:	Electric discharge, throwing into fire.
Materials to Avoid:	Oxidizing materials.
Hazardous Decomposition Products:	CO, CO ₂ , and smoke.
Hazardous Polymerization:	Will not occur.



Product Name : DV313K

Prepared Date : 22-Oct-2014

Revised Date : 30-Jun-2015

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

Ingestion(oral), LD50(mg/kg):	>2000(Rat) *
Dermal, LD50(mg/kg):	No data available
Inhalation, LC50(mg/l):	No data available
Eye irritation:	No data available
Skin irritation:	No data available

Skin sensitizer: No data available

Local Effects: see Chronic Toxicity or Long term Toxicity

Chronic Toxicity or Long Term Toxicity:

In a two-year inhalation study of chronic toxicity and carcinogenicity using a typical toner in rats, there were no lung changes at all in the lowest exposure level (1mg/m³), the most relevant level to potential human exposures. A minimal to mild degree of fibrosis was noted in 22% of the animals at the middle exposure level (4mg/m³), and a mild to moderate degree of fibrosis was observed in 92% of the rats at the highest exposure level(16mg/m³). The lung changes observed in the higher exposure groups are interpreted in terms of "lung overloading", a series of generic responses to the presence of large quantities of respirable, insoluble and relatively benign dusts retained for extended time periods in the lungs. Lung tumor frequency was unchanged among rats exposed to toner at the three exposure levels, and for air-only control rats.

Carcinogenicity

The IARC reevaluated carbon black as a Group 2B carcinogen (possible human carcinogen). This evaluation is given to Carbon Black for which there is inadequate human evidence, but sufficient animal evidence. The latter is based upon the development of lung tumors in rats receiving chronic inhalation exposures to free carbon black at levels that induce particle overload of the lung.

Studies performed in animal models other than rats have not demonstrated an association between carbon black and lung tumors. Moreover, a two-year cancer bioassay using a typical toner preparation containing carbon black demonstrated no association between toner exposure and tumor development in rats.

Mutagenicity: Negative *(AMES test)

Teratogenicity: No data available

(*= Based on data for other Konica Minolta Products with similar ingredients)

12. ECOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment.

Ecotoxicity:	No data available
Mobility:	No data available
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available

13. DISPOSAL CONSIDERATION

When disposing of the waste or recovered material, consult federal, state and/or local regulations for the proper disposal method.



Product Name : DV313K

Prepared Date : 22-Oct-2014

Revised Date : 30-Jun-2015

14. TRANSPORT INFORMATION

Information on Code and Classifications According to International Regulations

UN Classification: None

Further information: Not a dangerous good under IATA or IMDG.

Hazchem code (Austl.): None

15. REGULATORY INFORMATION

US Information

TSCA (Toxic Substances Control Act):

All chemical substances in this product comply with all applicable rules or order under TSCA.

California Proposition 65:

Ingredient carbon black subject to California Proposition 65 is bound in polymer-matrices so that warnings are not required.

CERCLA (Comprehensive Environmental Response Compensation and Liability Act) :

None.

SARA Title III (Superfund Amendments and Reauthorization Act) 302 Extreme Hazardous Substance :

None.

311/312 Hazard Categories :

None.

313 Reportable Ingredients :

None.

EU Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

- Regulation (EC) No 2037/2000 of the European Parliament and of the Council on Substances That Deplete the Ozone Layer: Not applicable
- Regulation (EC) No 850/2004 of the European Parliament and of the Council on Persistent Organic Pollutants and Amending Directive 79/117/EEC (POPs): Not applicable
- Regulation (EU) No 649/2012 of the European Parliament and of the Council on Concerning the Export and Import of Dangerous Chemicals (PIC): Not applicable
- Directive 2012/18/EU of the European Parliament and of the Council on the Control of Major-Accident Hazards Involving Dangerous Substances, Amending and Subsequently Repealing Council Directive 96/82/EC, (Seveso III): Not applicable
- Regulation (EC) No 1907/2006 of the European Parliament and of the Council:
 - Annex XIV- List of Substances Subject To Authorization: Not applicable
 - Annex XVII- Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles: Not applicable

For this product a chemical safety assessment was not carried out.

Canada Information

WHMIS (Canada): This product is NOT subject to the controlled products regulations.



Product Name : DV313K

Prepared Date : 22-Oct-2014

Revised Date : 30-Jun-2015

16. OTHER INFORMATION

HMIS Rating: The National Paint and Coating Association (USA): Health: 1 Flammability: 1 Reactivity: 0

Explanation of term: IARC 2B means "possible human carcinogen".

Abbreviations:

ACGIH-TWA: Threshold Limit Value of American Conference of Government Industrial Hygienists

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

DFG-MAK: Maximale Arbeitsplatz-Konzentration by Deutsche Forschungsgemeinschaft

DGR: Dangerous Goods Regulations

EINECS: European Inventory of Existing Commercial Chemical Substances

H-Code: Hazard Code

HMIS: Hazardous Materials Identification System

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

IMDG: International Maritime Dangerous Goods Code

NTP: National Toxicology Program

OEL: Occupational exposure limit

OSHA: Occupational Safety and Health Administration

PBT: Persistent, Bioaccumulative and Toxic

SARA: Superfund Amendments and Reauthorization Act

TSCA: Toxic Substances Control Act

vPvB: very Persistent and very Bioaccumulative

WHMIS: Workplace Hazardous Materials Information System

Revision Information: Regular revision on revised date.

Literature References:

ANSI Z400.1-1993

ISO 11014-1

Commission Directive 91/155/EEC

IARC(2010): IARC monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans,
Vol. 93, Carbon Black, Titanium Dioxide, and Talc, Lyon, pp. 43-191

H.Muhle, B.Bellmann, O.Creutzenberg, C.Dasenbrock, H.Ernst, R.Kilpper, J.C.MacKenzie, P.Morrow,
U.Mohr, S.Takenaka, and R.Mermelstein(1991)

Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats. Fundamental and Applied
Toxicology 17, pp.280-299.

Restrictions:

The above information is believed to be accurate and represents the best information currently available to Our Corporation. However, Our Corporation makes no warranty with respect to such information, and Our Corporation assumes no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.



Product Name: DV313Y

Prepared date:22-Oct-2014

Revised Date: 30-Jun-2015

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Name: DV313Y

used for: bizhub C368/C308/C258

Supplier Identification:

Konica Minolta Business Solutions U.S.A., Inc.

100 Williams Drive, Ramsey, New Jersey 07446, U.S.A.

Telephone: 201-825-4000

Emergency Telephone No.

CHEMTREC

Telephone: 1-800-424-9300

2. HAZARDS IDENTIFICATION

Regulation (EC) No 1272/2008

Classification: Not classified as dangerous.

Hazard Communication Standard (USA)

Classification: Not classified as dangerous.

LABEL ELEMENTS

Precautionary pictograms: ---

Signal word: ---

Hazard Statement: ---

Precautionary Statements: ---

Other Hazards

Dust explosion (like most finely divided organic powders).



Product Name: DV313Y

Prepared date: 22-Oct-2014

Revised Date: 30-Jun-2015

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance [] Preparation [X]

Major Ingredients:

[Generic Name]	[CAS No.]	[%]
Ferrite Iron oxide	1309-37-1	60-70
. Manganese oxide	1344-43-0	15-25
. Magnesium oxide	1309-48-4	1-10
Styrene-acrylic resin	+++	1-10
Acryl resin	+++	1-10
Amorphous silica	7631-86-9	< 1

+++ : Supplier's confidential information

Hazardous Ingredients:

Chemical Name: Manganese oxide

CAS No.: 1344-43-0

EINECS-No.: 215-695-8

Symbol(EC): Not listed

H code(EC): Not listed

4. FIRST-AID MEASURES

- Ingestion: Wash out mouth with water. Drink one or two glasses of water. If symptoms occur, get medical attention.
- Inhalation: Move victim to fresh air immediately. If symptoms occur, get medical attention.
- Eye Contact: Immediately flush eyes with plenty of water for 15 minutes. If symptoms occur, get medical attention.
- Skin Contact: Wash with water and mild soap.

5. FIRE-FIGHTING MEASURESSuitable Extinguishing Media: CO₂, water spray, foam and dry chemical

Extinguishing Media to Avoid: Full water jet

Fire and Explosion Hazards: If dispersed in air, like most finely divided organic powders, may form an explosive mixture.

Protection of Firefighters: Use self-contained breathing apparatus(SCBA).



Product Name : DV313Y

Prepared date : 22-Oct-2014

Revised Date : 30-Jun-2015

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: None

Environmental Precautions: None

Methods for Cleaning Up: Wear personal protective equipment(See Section 8). Vacuum or sweep material and place in a bag and hold for waste disposal. Use vacuum equipped with High Efficiency Particulate Air(HEPA) filter. Vacuum should be electrically bonded and grounded to dispel static electricity. To avoid dust generation, do not sweep dry.

7. HANDLING AND STORAGE

Handling

Technical Measures: None

Precautions: Do not breathe dust. Avoid contact with eyes.

Safe Handling Advice: Try not to disperse the particulates.

Storage

Technical Measures: None

Storage Conditions: Keep container closed. Store in a cool and dry place. Keep out of reach of children.

Incompatible Products: None

Packaging Materials: Bottles or Cartridge designated by Konica Minolta.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures

Ventilation: None required with intended use.

Control Parameters(As total dust)

ACGIH-TLV(USA) : 10mg/m³ (Inhalable particles), 3.0 mg/m³ (Respirable particles)

OSHA-PEL(USA): 15mg/m³ (Total dusts), 5.0 mg/m³ (Respirable fraction)

DFG-MAK(GER): 4mg/m³ (Inhalable fraction), 1.5mg/m³ (Respirable fraction)

Worksafe-TWA(Austl.): 10mg/m³

Control Parameters (As Ingredients: Manganese oxide)

ACGIH-TLV(USA): 0.2mg/m³ OSHA Z-Tables(USA): ceiling 5mg/m³

Worksafe-TWA(Austl): 1mg/m³

Personal Protective Equipment

Not required under normal conditions. For use other than in normal operating procedures (such as in the event of large spill), goggles and respirators may be required.

Hygiene Measures: Wash hands after handling.



Product Name: DV313Y

Prepared date: 22-Oct-2014

Revised Date: 30-Jun-2015

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State: Solid

Color: Yellow

Form: Powder (mean dia. is 30-40um by volume)

Odor:

Almost odorless

PH

Not applicable

Boiling Point(°C):

Not applicable

Melting Point(°C):

Around No data available /[] (Softening Point)

Flash Point(°C):

Not applicable

Auto-Ignition Temperature(°C):

No data available

Upper/ lower flammability or explosive limits

No data available

Explosion Properties:

No data available

Evaporation rate:

No data available

Vapor Pressure:

Not applicable

Vapor density:

Not applicable

Specific Gravity:

5

Solubility:

Insoluble in water.

Partition Coefficient, n-Octanol/Water:

Not applicable

Decomposition temperature:

Not applicable

10. STABILITY AND REACTIVITY

Reactivity:

None.

Stability:

Stable except above 200C(392F).

Hazardous Reactions:

Dust explosion, like most finely divided organic powders.

Conditions to avoid:

Electric discharge, throwing into fire.

Materials to Avoid:

Oxidizing materials.

Hazardous Decomposition Products: CO, CO₂, and smoke.

Hazardous Polymerization:

Will not occur.



Product Name: DV313Y

Prepared date: 22-Oct-2014

Revised Date: 30-Jun-2015

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

Ingestion(oral), LD50(mg/kg):	>2000 (Rat) *
Dermal, LD50(mg/kg):	No data available
Inhalation, LC50(mg/l):	No data available
Eye irritation:	No data available
Skin irritation:	No data available

Skin sensitizer: No data available

Local Effects: see Chronic Toxicity or Long term Toxicity

Chronic Toxicity or Long Term Toxicity:

Prolonged inhalation of excessive dust may cause lung damage. It is attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged interval. Use of this product, as intended, does not result in inhalation of excessive dust.

In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of rats in the high concentration(16mg/m³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle(4mg/m³) exposure group. But no pulmonary change was reported in the lowest(1mg/m³) exposure group, the most relevant level to potential human exposures.

Carcinogenicity

IARC Monographs:	Not listed
NTP(USA):	Not listed
OSHA Regulated(USA):	Not listed

Mutagenicity: Negative * (AMES test)

Teratogenicity: No data available

(*= Based on data for other Konica Minolta Products with similar ingredients)

12. ECOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment.

Ecotoxicity:	No data available
Mobility:	No data available
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available

13. DISPOSAL CONSIDERATION

When disposing of the waste or recovered material, consult federal, state and/or local regulations for the proper disposal method.



Product Name: DV313Y

Prepared date: 22-Oct-2014

Revised Date: 30-Jun-2015

14. TRANSPORT INFORMATION

Information on Code and Classifications According to International Regulations

UN Classification: None

Further information: Not a dangerous good under IATA or IMDG.

Hazchem code (Austl.): None

15. REGULATORY INFORMATION

US Information

TSCA (Toxic Substances Control Act):

All chemical substances in this product comply with all applicable rules or order under TSCA.

California Proposition 65:

This product contains no chemical substances subject to California Proposition 65.

CERCLA (Comprehensive Environmental Response Compensation and Liability Act) :

None.

SARA Title III (Superfund Amendments and Reauthorization Act) 302 Extreme Hazardous Substance :

None.

311/312 Hazard Categories :

None.

313 Reportable Ingredients :

None.

EU Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

• Regulation (EC) No 2037/2000 of the European Parliament and of the Council on Substances That Deplete the Ozone Layer: Not applicable

• Regulation (EC) No 850/2004 of the European Parliament and of the Council on Persistent Organic Pollutants and Amending Directive 79/117/EEC (POPs): Not applicable

• Regulation (EU) No 649/2012 of the European Parliament and of the Council on Concerning the Export and Import of Dangerous Chemicals (PIC): Not applicable

• Directive 2012/18/EU of the European Parliament and of the Council on the Control of Major-Accident Hazards Involving Dangerous Substances, Amending and Subsequently Repealing Council Directive 96/82/EC, (Seveso III): Not applicable

• Regulation (EC) No 1907/2006 of the European Parliament and of the Council:

- Annex XIV- List of Substances Subject To Authorization: Not applicable

- Annex XVII- Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles: Not applicable

For this product a chemical safety assessment was not carried out.

Canada Information

WHMIS (Canada): This product is NOT subject to the controlled products regulations.



Product Name: DV313Y

Prepared date: 22-Oct-2014

Revised Date: 30-Jun-2015

16. OTHER INFORMATION

HMIS Rating: The National Paint and Coating Association (USA): Health: 1 Flammability: 1 Reactivity: 0

Explanation of term: IARC 2B means "possible human carcinogen".

Abbreviations:

ACGIH-TWA: Threshold Limit Value of American Conference of Government Industrial Hygienists

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

DFG-MAK: Maximale Arbeitsplatz-Konzentration by Deutsche Forschungsgemeinschaft

DGR: Dangerous Goods Regulations

EINECS: European Inventory of Existing Commercial Chemical Substances

H-Code: Hazard Code

HMIS: Hazardous Materials Identification System

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

IMDG: International Maritime Dangerous Goods Code

NTP: National Toxicology Program

OEL: Occupational exposure limit

OSHA: Occupational Safety and Health Administration

PBT: Persistent, Bioaccumulative and Toxic

SARA: Superfund Amendments and Reauthorization Act

TSCA: Toxic Substances Control Act

vPvB: very Persistent and very Bioaccumulative

WHMIS: Workplace Hazardous Materials Information System

Revision Information: Regular revision on revised date.

Literature References:

ANSI Z400.1-1993

ISO 11014-1

Commission Directive 91/155/EEC

IARC(2010): IARC monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 93, Carbon Black, Titanium Dioxide, and Talc, Lyon, pp. 43-191

H.Muhle, B.Bellmann, O.Creutzenberg, C.Dasenbrock, H.Ernst, R.Kilpper, J.C.MacKenzie, P.Morrow, U.Mohr, S.Takenaka, and R.Mermelstein(1991)

Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats. Fundamental and Applied Toxicology 17, pp.280-299.

Restrictions:

The above information is believed to be accurate and represents the best information currently available to Our Corporation. However, Our Corporation makes no warranty with respect to such information, and Our Corporation assumes no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.



Product Name: DV313M

Prepared date:22-Oct-2014

Revised Date: 30-Jun-2015

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Name: DV313M

used for: bizhub C368/C308/C258

Supplier Identification:

Konica Minolta Business Solutions U.S.A., Inc.

100 Williams Drive, Ramsey, New Jersey 07446, U.S.A.

Telephone: 201-825-4000

Emergency Telephone No.

CHEMTREC

Telephone: 1-800-424-9300

2. HAZARDS IDENTIFICATION

Regulation (EC) No 1272/2008

Classification: Not classified as dangerous.

Hazard Communication Standard (USA)

Classification: Not classified as dangerous.

LABEL ELEMENTS

Precautionary pictograms: ---

Signal word: ---

Hazard Statement: ---

Precautionary Statements: ---

Other Hazards

Dust explosion (like most finely divided organic powders).



Product Name: DV313M

Prepared date: 22-Oct-2014

Revised Date: 30-Jun-2015

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance [] Preparation [X]

Major Ingredients:

[Generic Name]	[CAS No.]	[%]
Ferrite Iron oxide	1309-37-1	65-75
. Manganese oxide	1344-43-0	5-15
. Magnesium oxide	1309-48-4	5-15
Styrene-acrylic resin	+++	1-10
Acryl resin	+++	1-10
Titanium dioxide	13463-67-7	<1
Amorphous silica	7631-86-9	<1

+++ : Supplier's confidential information

Hazardous Ingredients:

Chemical Name: Titanium dioxide

CAS No.: 13463-67-7

NTP(USA): Not listed

Symbol(EC): Not listed

EINECS-No.: 236-675-5

IARC Monographs: Group 2B

H code(EC): Not listed

Chemical Name: Manganese oxide

CAS No.: 1344-43-0

Symbol(EC): Not listed

EINECS-No.: 215-695-8

H code(EC): Not listed

4. FIRST-AID MEASURES

Ingestion: Wash out mouth with water. Drink one or two glasses of water. If symptoms occur, get medical attention.

Inhalation: Move victim to fresh air immediately. If symptoms occur, get medical attention.

Eye Contact: Flush eyes with plenty of water for 15 minutes. If symptoms occur, get medical attention.

Skin Contact: Wash with water and mild soap.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: CO2, water spray, foam and dry chemical

Extinguishing Media to Avoid: Full water jet

Fire and Explosion Hazards: If dispersed in air, like most finely divided organic powders, may form an explosive mixture.

Protection of Firefighters: Use self-contained breathing apparatus(SCBA).



Product Name : DV313M

Prepared date : 22-Oct-2014

Revised Date : 30-Jun-2015

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: None

Environmental Precautions: None

Methods for Cleaning Up: Wear personal protective equipment(See Section 8). Vacuum or sweep material and place in a bag and hold for waste disposal. Use vacuum equipped with High Efficiency Particulate Air(HEPA) filter. Vacuum should be electrically bonded and grounded to dispel static electricity. To avoid dust generation, do not sweep dry.

7. HANDLING AND STORAGE

Handling

Technical Measures: None

Precautions: Do not breathe dust. Avoid contact with eyes.

Safe Handling Advice: Try not to disperse the particulates.

Storage

Technical Measures: None

Storage Conditions: Keep container closed. Store in a cool and dry place. Keep out of reach of children.

Incompatible Products: None

Packaging Materials: Bottles or Cartridge designated by Konica Minolta.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures

Ventilation: None required with intended use.

Control Parameters(As total dust)

ACGIH-TLV(USA) : 10mg/m³ (Inhalable particles), 3.0 mg/m³ (Respirable particles)

OSHA-PEL(USA): 15mg/m³ (Total dusts), 5.0 mg/m³ (Respirable fraction)

DFG-MAK(GER): 4mg/m³ (Inhalable fraction), 1.5mg/m³ (Respirable fraction)

Worksafe-TWA(Austl.): 10mg/m³

Control Parameters (As Ingredients: Titanium dioxide)

ACGIH-TLV(USA): 10mg/m³

OSHA Z-Tables(USA): 15mg/m³

Worksafe-TWA(Austl): 10mg/m³

Control Parameters (As Ingredients: Manganese oxide)

ACGIH-TLV(USA): 0.2mg/m³

OSHA Z-Tables(USA): ceiling 5mg/m³

Worksafe-TWA(Austl): 1mg/m³

Personal Protective Equipment

Not required under normal conditions. For use other than in normal operating procedures (such as in the event of large spill), goggles and respirators may be required.

Hygiene Measures: Wash hands after handling.



Product Name: DV313M

Prepared date: 22-Oct-2014

Revised Date: 30-Jun-2015

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State: Solid

Color: Red

Form: Powder (mean dia. is 30-40um by volume)

Odor:

Almost odorless

PH

Not applicable

Boiling Point(°C):

Not applicable

Melting Point(°C):

Around No data available /[] (Softening Point)

Flash Point(°C):

Not applicable

Auto-Ignition Temperature(°C):

No data available

Upper/ lower flammability or explosive limits

No data available

Explosion Properties:

No data available

Evaporation rate:

No data available

Vapor Pressure:

Not applicable

Vapor density:

Not applicable

Specific Gravity:

5

Solubility:

Insoluble in water.

Partition Coefficient, n-Octanol/Water:

Not applicable

Decomposition temperature:

Not applicable

10. STABILITY AND REACTIVITY

Reactivity:

None.

Stability:

Stable except above 200C(392F).

Hazardous Reactions:

Dust explosion, like most finely divided organic powders.

Conditions to avoid:

Electric discharge, throwing into fire.

Materials to Avoid:

Oxidizing materials.

Hazardous Decomposition Products: CO, CO₂, and smoke.

Hazardous Polymerization:

Will not occur.



Product Name : DV313M

Prepared date : 22-Oct-2014

Revised Date : 30-Jun-2015

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

Ingestion(oral), LD50(mg/kg):	>2000 (Rat) *
Dermal, LD50(mg/kg):	No data available
Inhalation, LC50(mg/l):	No data available
Eye irritation:	No data available
Skin irritation:	No data available
Skin sensitizer:	No data available

Local Effects: see Chronic Toxicity or Long term Toxicity

Chronic Toxicity or Long Term Toxicity:

Prolonged inhalation of excessive dust may cause lung damage. It is attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged interval. Use of this product, as intended, does not result in inhalation of excessive dust.

In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of rats in the high concentration(16mg/m³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle(4mg/m³) exposure group. But no pulmonary change was reported in the lowest(1mg/m³) exposure group, the most relevant level to potential human exposures.

Carcinogenicity

The IARC reevaluated titanium dioxide as a Group 2B carcinogen (possible human carcinogen). In animal chronic inhalation studies, the tumor formulation observed in only rats with animal chronic inhalation study are attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged interval. Use of this product, as intended, dose not result in inhalation of excessive dust. Epidemiological study to date have not revealed any evidence of the relation between exposure to titanium dioxide and diseases of the respiratory tract beyond general effects of dust.

Mutagenicity: Negative * (AMES test)

Teratogenicity: No data available

(* = Based on data for other Konica Minolta Products with similar ingredients)

12. ECOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment.

Ecotoxicity:	No data available
Mobility:	No data available
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available

13. DISPOSAL CONSIDERATION

When disposing of the waste or recovered material, consult federal, state and/or local regulations for the proper disposal method.



Product Name: DV313M

Prepared date: 22-Oct-2014

Revised Date: 30-Jun-2015

14. TRANSPORT INFORMATION

Information on Code and Classifications According to International Regulations

UN Classification: None

Further information: Not a dangerous good under IATA or IMDG.

Hazchem code (Austl.): None

15. REGULATORY INFORMATION

US Information

TSCA (Toxic Substances Control Act):

All chemical substances in this product comply with all applicable rules or order under TSCA.

California Proposition 65:

This product contains no chemical substances subject to California Proposition 65.

CERCLA (Comprehensive Environmental Response Compensation and Liability Act) :

None.

SARA Title III (Superfund Amendments and Reauthorization Act) 302 Extreme Hazardous Substance :

None.

311/312 Hazard Categories :

None.

313 Reportable Ingredients :

None.

EU Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

- Regulation (EC) No 2037/2000 of the European Parliament and of the Council on Substances That Deplete the Ozone Layer: Not applicable
- Regulation (EC) No 850/2004 of the European Parliament and of the Council on Persistent Organic Pollutants and Amending Directive 79/117/EEC (POPs): Not applicable
- Regulation (EU) No 649/2012 of the European Parliament and of the Council on Concerning the Export and Import of Dangerous Chemicals (PIC): Not applicable
- Directive 2012/18/EU of the European Parliament and of the Council on the Control of Major-Accident Hazards Involving Dangerous Substances, Amending and Subsequently Repealing Council Directive 96/82/EC, (Seveso III): Not applicable
- Regulation (EC) No 1907/2006 of the European Parliament and of the Council:
 - Annex XIV- List of Substances Subject To Authorization: Not applicable
 - Annex XVII- Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles: Not applicable

For this product a chemical safety assessment was not carried out.

Canada Information

WHMIS (Canada): This product is NOT subject to the controlled products regulations.



Product Name: DV313M

Prepared date: 22-Oct-2014

Revised Date: 30-Jun-2015

16. OTHER INFORMATION

HMIS Rating: The National Paint and Coating Association (USA): Health: 1 Flammability: 1 Reactivity: 0

Explanation of term: IARC 2B means "possible human carcinogen".

Abbreviations:

ACGIH-TWA: Threshold Limit Value of American Conference of Government Industrial Hygienists

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

DFG-MAK: Maximale Arbeitsplatz-Konzentration by Deutsche Forschungsgemeinschaft

DGR: Dangerous Goods Regulations

EINECS: European Inventory of Existing Commercial Chemical Substances

H-Code: Hazard Code

HMIS: Hazardous Materials Identification System

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

IMDG: International Maritime Dangerous Goods Code

NTP: National Toxicology Program

OEL: Occupational exposure limit

OSHA: Occupational Safety and Health Administration

PBT: Persistent, Bioaccumulative and Toxic

SARA: Superfund Amendments and Reauthorization Act

TSCA: Toxic Substances Control Act

vPvB: very Persistent and very Bioaccumulative

WHMIS: Workplace Hazardous Materials Information System

Revision Information: Regular revision on revised date.

Literature References:

ANSI Z400.1-1993

ISO 11014-1

Commission Directive 91/155/EEC

IARC(2010): IARC monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 93, Carbon Black, Titanium Dioxide, and Talc, Lyon, pp. 43-191

H.Muhle, B.Bellmann, O.Creutzenberg, C.Dasenbrock, H.Ernst, R.Kilpper, J.C.MacKenzie, P.Morrow, U.Mohr, S.Takenaka, and R.Mermelstein(1991)

Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats. Fundamental and Applied Toxicology 17, pp.280-299.

NIOSH CURRENT INTELLIGENCE BULLETIN :Evaluation of Health Hazard and Recommendation for Occupational Exposure to Titanium Dioxide :DRAFT

Restrictions:

The above information is believed to be accurate and represents the best information currently available to Our Corporation. However, Our Corporation makes no warranty with respect to such information, and Our Corporation assumes no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.



Product Name: DV313C

Prepared date:22-Oct-2014

Revised Date: 30-Jun-2015

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Name: DV313C

used for: bizhub C368/C308/C258

Supplier Identification:

Konica Minolta Business Solutions U.S.A., Inc.

100 Williams Drive, Ramsey, New Jersey 07446, U.S.A.

Telephone: 201-825-4000

Emergency Telephone No.

CHEMTREC

Telephone: 1-800-424-9300

2. HAZARDS IDENTIFICATION

Regulation (EC) No 1272/2008

Classification: Not classified as dangerous.

Hazard Communication Standard (USA)

Classification: Not classified as dangerous.

LABEL ELEMENTS

Precautionary pictograms: ---

Signal word: ---

Hazard Statement: ---

Precautionary Statements: ---

Other Hazards

Dust explosion (like most finely divided organic powders).



Product Name: DV313C

Prepared date: 22-Oct-2014

Revised Date: 30-Jun-2015

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance [] Preparation [X]

Major Ingredients:

[Generic Name]	[CAS No.]	[%]
Ferrite Iron oxide	1309-37-1	65-75
. Manganese oxide	1344-43-0	5-15
. Magnesium oxide	1309-48-4	5-15
Styrene-acrylic resin	+++	1-10
Acryl resin	+++	1-10
Organic pigment	147-14-8	< 1
Amorphous silica	7631-86-9	< 1

+++ : Supplier's confidential information

Hazardous Ingredients:

Chemical Name: Manganese oxide

CAS No.: 1344-43-0

EINECS-No.: 215-695-8

Symbol(EC): Not listed

H code(EC): Not listed

4. FIRST-AID MEASURES

- Ingestion: Wash out mouth with water. Drink one or two glasses of water. If symptoms occur, get medical attention.
- Inhalation: Move victim to fresh air immediately. If symptoms occur, get medical attention.
- Eye Contact: Immediately flush eyes with plenty of water for 15 minutes. If symptoms occur, get medical attention.
- Skin Contact: Wash with water and mild soap.

5. FIRE-FIGHTING MEASURESSuitable Extinguishing Media: CO₂, water spray, foam and dry chemical

Extinguishing Media to Avoid: Full water jet

Fire and Explosion Hazards: If dispersed in air, like most finely divided organic powders, may form an explosive mixture.

Protection of Firefighters: Use self-contained breathing apparatus(SCBA).



Product Name : DV313C

Prepared date : 22-Oct-2014

Revised Date : 30-Jun-2015

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: None

Environmental Precautions: None

Methods for Cleaning Up: Wear personal protective equipment(See Section 8). Vacuum or sweep material and place in a bag and hold for waste disposal. Use vacuum equipped with High Efficiency Particulate Air(HEPA) filter. Vacuum should be electrically bonded and grounded to dispel static electricity. To avoid dust generation, do not sweep dry.

7. HANDLING AND STORAGE

Handling

Technical Measures: None

Precautions: Do not breathe dust. Avoid contact with eyes.

Safe Handling Advice: Try not to disperse the particulates.

Storage

Technical Measures: None

Storage Conditions: Keep container closed. Store in a cool and dry place. Keep out of reach of children.

Incompatible Products: None

Packaging Materials: Bottles or Cartridge designated by Konica Minolta.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures

Ventilation: None required with intended use.

Control Parameters(As total dust)

ACGIH-TLV(USA) : 10mg/m³ (Inhalable particles), 3.0 mg/m³ (Respirable particles)

OSHA-PEL(USA): 15mg/m³ (Total dusts), 5.0 mg/m³ (Respirable fraction)

DFG-MAK(GER): 4mg/m³ (Inhalable fraction), 1.5mg/m³ (Respirable fraction)

Worksafe-TWA(Austl.): 10mg/m³

Control Parameters (As Ingredients: Manganese oxide)

ACGIH-TLV(USA): 0.2mg/m³ OSHA Z-Tables(USA): ceiling 5mg/m³

Worksafe-TWA(Austl): 1mg/m³

Personal Protective Equipment

Not required under normal conditions. For use other than in normal operating procedures (such as in the event of large spill), goggles and respirators may be required.

Hygiene Measures: Wash hands after handling.



Product Name: DV313C

Prepared date: 22-Oct-2014

Revised Date: 30-Jun-2015

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State: Solid

Color: Cyan

Form: Powder (mean dia. is 30-40um by volume)

Odor:

Almost odorless

PH

Not applicable

Boiling Point(°C):

Not applicable

Melting Point(°C):

Around No data available /[] (Softening Point)

Flash Point(°C):

Not applicable

Auto-Ignition Temperature(°C):

No data available

Upper/ lower flammability or explosive limits

No data available

Explosion Properties:

No data available

Evaporation rate:

No data available

Vapor Pressure:

Not applicable

Vapor density:

Not applicable

Specific Gravity:

Solubility:

Insoluble in water.

Partition Coefficient, n-Octanol/Water:

Not applicable

Decomposition temperature:

Not applicable

10. STABILITY AND REACTIVITY

Reactivity:

None.

Stability:

Stable except above 200C(392F).

Hazardous Reactions:

Dust explosion, like most finely divided organic powders.

Conditions to avoid:

Electric discharge, throwing into fire.

Materials to Avoid:

Oxidizing materials.

Hazardous Decomposition Products: CO, CO₂, and smoke.

Hazardous Polymerization:

Will not occur.



Product Name : DV313C

Prepared date : 22-Oct-2014

Revised Date : 30-Jun-2015

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

Ingestion(oral), LD50(mg/kg):	>2000 (Rat) *
Dermal, LD50(mg/kg):	No data available
Inhalation, LC50(mg/l):	No data available
Eye irritation:	No data available
Skin irritation:	No data available

Skin sensitizer: No data available

Local Effects: see Chronic Toxicity or Long term Toxicity

Chronic Toxicity or Long Term Toxicity:

Prolonged inhalation of excessive dust may cause lung damage. It is attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged interval. Use of this product, as intended, does not result in inhalation of excessive dust.

In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of rats in the high concentration(16mg/m³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle(4mg/m³) exposure group. But no pulmonary change was reported in the lowest(1mg/m³) exposure group, the most relevant level to potential human exposures.

Carcinogenicity

IARC Monographs:	Not listed
NTP(USA):	Not listed
OSHA Regulated(USA):	Not listed

Mutagenicity: Negative * (AMES test)

Teratogenicity: No data available

(*= Based on data for other Konica Minolta Products with similar ingredients)

12. ECOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment.

Ecotoxicity:	No data available
Mobility:	No data available
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available

13. DISPOSAL CONSIDERATION

When disposing of the waste or recovered material, consult federal, state and/or local regulations for the proper disposal method.



Product Name: DV313C

Prepared date: 22-Oct-2014

Revised Date: 30-Jun-2015

14. TRANSPORT INFORMATION

Information on Code and Classifications According to International Regulations

UN Classification: None

Further information: Not a dangerous good under IATA or IMDG.

Hazchem code (Austl.): None

15. REGULATORY INFORMATION

US Information

TSCA (Toxic Substances Control Act):

All chemical substances in this product comply with all applicable rules or order under TSCA.

California Proposition 65:

This product contains no chemical substances subject to California Proposition 65.

CERCLA (Comprehensive Environmental Response Compensation and Liability Act) :

None.

SARA Title III (Superfund Amendments and Reauthorization Act) 302 Extreme Hazardous Substance :

None.

311/312 Hazard Categories :

None.

313 Reportable Ingredients :

None.

EU Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

• Regulation (EC) No 2037/2000 of the European Parliament and of the Council on Substances That Deplete the Ozone Layer: Not applicable

• Regulation (EC) No 850/2004 of the European Parliament and of the Council on Persistent Organic Pollutants and Amending Directive 79/117/EEC (POPs): Not applicable

• Regulation (EU) No 649/2012 of the European Parliament and of the Council on Concerning the Export and Import of Dangerous Chemicals (PIC): Not applicable

• Directive 2012/18/EU of the European Parliament and of the Council on the Control of Major-Accident Hazards Involving Dangerous Substances, Amending and Subsequently Repealing Council Directive 96/82/EC, (Seveso III): Not applicable

• Regulation (EC) No 1907/2006 of the European Parliament and of the Council:

- Annex XIV- List of Substances Subject To Authorization: Not applicable
- Annex XVII- Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles: Not applicable

For this product a chemical safety assessment was not carried out.

Canada Information

WHMIS (Canada): This product is NOT subject to the controlled products regulations.



Product Name: DV313C

Prepared date: 22-Oct-2014

Revised Date: 30-Jun-2015

16. OTHER INFORMATION

HMIS Rating: The National Paint and Coating Association (USA): Health: 1 Flammability: 1 Reactivity: 0

Explanation of term: IARC 2B means "possible human carcinogen".

Abbreviations:

ACGIH-TWA: Threshold Limit Value of American Conference of Government Industrial Hygienists

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

DFG-MAK: Maximale Arbeitsplatz-Konzentration by Deutsche Forschungsgemeinschaft

DGR: Dangerous Goods Regulations

EINECS: European Inventory of Existing Commercial Chemical Substances

H-Code: Hazard Code

HMIS: Hazardous Materials Identification System

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

IMDG: International Maritime Dangerous Goods Code

NTP: National Toxicology Program

OEL: Occupational exposure limit

OSHA: Occupational Safety and Health Administration

PBT: Persistent, Bioaccumulative and Toxic

SARA: Superfund Amendments and Reauthorization Act

TSCA: Toxic Substances Control Act

vPvB: very Persistent and very Bioaccumulative

WHMIS: Workplace Hazardous Materials Information System

Revision Information: Regular revision on revised date.

Literature References:

ANSI Z400.1-1993

ISO 11014-1

Commission Directive 91/155/EEC

IARC(2010): IARC monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 93, Carbon Black, Titanium Dioxide, and Talc, Lyon, pp. 43-191

H.Muhle, B.Bellmann, O.Creutzenberg, C.Dasenbrock, H.Ernst, R.Kilpper, J.C.MacKenzie, P.Morrow, U.Mohr, S.Takenaka, and R.Mermelstein(1991)

Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats. Fundamental and Applied Toxicology 17, pp.280-299.

Restrictions:

The above information is believed to be accurate and represents the best information currently available to Our Corporation. However, Our Corporation makes no warranty with respect to such information, and Our Corporation assumes no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.

Product environmental attributes – THE ECO DECLARATION

The declaration may be published only when all rows and/or fields marked with an * are filled-in (n.a. for not applicable).
Additional information regarding each item may be found under P14.

Brand *	<i>Konica Minolta</i>	Logo 
Company name *	<i>Konica Minolta, Inc.</i>	
Contact information *	<i>https://www.konicaminolta.net/neoqa/gl/about.php</i>	
Internet site *	<i>http://www.konicaminolta.com/index.html</i>	
Additional information		

The company declares (based on product specification or test results based obtained from sample testing), that the product conforms to the statements given in this declaration.	
Type of product *	<i>Multifunction printer</i>
Commercial name *	<i>bizhub</i>
Model number *	<i>C368</i>
Issue date *	<i>19 June 2015</i>
Intended market *	<input type="checkbox"/> Global <input type="checkbox"/> Europe <input checked="" type="checkbox"/> Asia, Pacific & Japan <input checked="" type="checkbox"/> Americas <input checked="" type="checkbox"/> Other
Additional information	<i>version 1.0</i>

This is an uncontrolled copy when in printed form. Please refer to the contact information for the latest version.

Quality Control		Requirement met	
Item		Yes	No
QC1 *	The company enforces an internal quality control scheme to ensure the correctness of this eco declaration	<input checked="" type="checkbox"/>	<input type="checkbox"/>
QC2 *	The company is a member of an eco declaration system that enforces regular independent quality control such as organized by IT-Företagen (see www.itecodeclaration.org).	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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Product environmental attributes - Legal requirements		Requirement met		
Item		Yes	No	n.a.
P1 Hazardous substances and preparations				
P1.1*	Products do not contain more than; 0.1% lead, 0.01% cadmium, 0.1% mercury, 0.1% hexavalent chromium, 0.1% polybrominated biphenyls (PBB) or 0.1% polybrominated diphenyl ethers (PBDE). (See legal reference and Note B1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.2*	Products do not contain Asbestos (see legal reference). Comment: Legal reference has no maximum concentration value.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.3*	Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), hydrobromofluorocarbons (HBFC), hydrochlorofluorocarbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum concentration values.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.4*	Products do not contain more than; 0.005% polychlorinated biphenyl (PCB), 0.005% polychlorinated terphenyl (PCT) in preparations (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.5*	Products do not contain more than 0.1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the chain containing at least 48% per mass of chlorine in the SCCP (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.6*	Textile and leather parts with direct skin contact do not contain Tri-(2,3,-dibromopropyl)-phosphate (TRIS), Tris-(aziridiny)-phosphineoxide (TEPA), polybrominated biphenyl (PBB) (see legal reference). Comment: Legal reference has no maximum concentration values.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P1.7*	Textile and leather parts with direct skin contact do not contain more than 0.003% Azo colorants that split aromatic amines. (See legal reference and Note B1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P1.8*	Wooden parts do not contain arsenic and chromium as a wood preservation treatment as well as pentachlorophenol and derivatives (see legal reference). Comment: Legal reference has no maximum concentration values.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P1.9*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0.5 microgram/cm ² /week (see legal reference). Comment: Max limit in legal reference when tested according to EN1811:1998.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P1.10*	REACH Article 33 information about substances in articles is available at (add URL or mail contact):	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P2 Batteries				
P2.1*	If the product contains a battery or an accumulator, it is labeled with the disposal symbol and if it contains more than 0.0005% of mercury (for button cells only) by weight, or more than 0.004% of lead, it shall be marked with the chemical symbol for the metal concerned, Hg or Pb. Information on proper disposal is provided in user manual. (See legal reference)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P2.2*	Button cells used in the product do not contain more than 2% by weight of mercury. Other batteries or accumulators do not contain more than 0.0005% of mercury or 0.002% of cadmium. (See legal reference)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P2.3*	Batteries and accumulators are easily removable by either users or service providers (as dependent on the design of the product). Exception: Batteries that are permanently installed for safety, performance, medical or data integrity reasons do not have to be "easily removable". (See legal reference)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P3 Safety, EMC connection to the telephone network and labeling				
P3.1*	The product complies with legally required safety standards as specified (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P3.2*	The product complies with legally required standards for electromagnetic compatibility (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P3.3*	If product is intended for connection to a public telecom network or contains a radio transmitter, it complies with legally required standards for radio and telecommunication devices (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P3.4*	The product is labeled to show conformance with applicable legal requirements (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P4 Consumable materials				
P4.1*	If a photo conductor (drum, belt etc.) is used in the product, it does not contain cadmium max 0.01% (see legal reference and Note B1).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P4.2*	If ink/toner is used in the product, it does not contain cadmium max 0.1% by weight (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P4.3*	If the ink/toner formulation/preparation is classified as hazardous according to applicable regulations, the product/packaging is adequately labeled and a Safety Data Sheet (SDS) in accordance with these requirements is available (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P5 Product packaging				
P5.1*	Packaging and packaging components do not contain more than 0.01% lead, mercury, cadmium and hexavalent chromium by weight of these together.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P5.2*	Plastic packaging material is marked according to ISO 11469 referring ISO 1043 (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (see legal reference). Comment: Legal reference has no maximum concentration values.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Note B1: Restriction applies to the homogeneous material, unless other specified and expressed in weight %.

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Product environmental attributes - Market requirements - Environmental conscious design		Requirement met		
Item	*=mandatory to fill in. Additional information regarding each item may be found under P14.	Yes	No	n.a.
P6 Treatment information				
P6.1*	Information for recyclers/treatment facilities is available (see legal reference).	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P7 Design Disassembly, recycling				
P7.1*	Parts that have to be treated separately are easily separable	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.2*	Plastic materials in covers/housing have no surface coating.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.3*	Plastic parts >100g consist of one material or of easily separable materials.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.4*	Plastic parts >25g have material codes according to ISO 11469 referring ISO 1043.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Product lifetime				
P7.7*	Upgrading can be done e.g. with processor, memory, cards or drives	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P7.8*	Upgrading can be done using commonly available tools	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P7.9.	Spare parts are available after end of production for: 7 years			<input type="checkbox"/>
P7.10	Service is available after end of production for: 7 years			<input type="checkbox"/>
Material and substance requirements				
P7.11*	Product cover/housing material type: Material type: PC+PET Material type: PC+ABS Material type:			
P7.12	Electrical cable insulation materials of power cables are PVC free.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.13	Electrical cable insulation materials of signal cables are PVC free	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.14	All cover/housing plastic parts >25g are free from chlorine and bromine.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.15	All printed circuit boards (without components) >25g are halogen free. as defined in IEC61249-2-21. (See Note B2)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.16	Flame retarded plastic parts >25g in covers / housings are marked according ISO 1043-4: Marking: FR(40)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.17	Alt. 1 Chemical specifications of flame retardants in printed circuit boards >25g (without components): TBBPA (additive) <input type="checkbox"/> , TBBPA (reactive) <input type="checkbox"/> , Other; chemical name: , CAS #: Alt. 2 Chemical specifications of flame retardants in printed circuit boards (without components) >25g according ISO 1043-4: FR(17)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.18	Alt. 1 Flame retarded plastic parts >25g contain the following flame retardant substances/preparations in concentrations above 0.1%: Comment: No legal limits exist, this is a market requirement. 1. Chemical name: , CAS #: 2. Chemical name: , CAS #: 3. Chemical name: , CAS #: Alt. 2 Chemical specifications of flame retardants in plastic parts >25g according ISO 1043-4: FR(17), FR(40)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.19	Plastic parts >25g are free from flame retardant substances/ preparations above 0.1% classified as R45, R40, R46, R48, R50, R51, R53, R60, R61 and any combination of these (See Note B3)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.20	Of total plastic parts' weight >25g, recycled material content is 26% .			
P7.21	Of total plastic parts' weight >25g, biobased material content is 0.01% .			
P7.22	Light sources are free from mercury If mercury is used specify: Number of lamps: and max. mercury content per lamp: mg	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P8 Batteries				
P8.1*	Battery chemical composition: Lithium			<input type="checkbox"/>
P8.2	Batteries meet the requirements of the following voluntary program/s:			<input type="checkbox"/>

Note B2: IEC61249-2--21 has maximum limits for chlorine and bromine but does not address fluorine, iodine and astatine which are included in the group of halogens.

Note B3: 'Starting from January 2009, Risk phrases can be replaced by Hazard phrases according to the Globally Harmonized System (GHS), mandatory by December 2010.

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Product environmental attributes - Market requirements (continued)	Requirement met
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Item	Yes	No	n.a.
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P9	Energy consumption
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9.1 For the product the following power levels or energy consumptions are reported:

Energy mode *	Power level at 100 V AC	Power level at 115 V AC	Power level at 230 V AC	Reference / Standard for energy modes and test method *	
<i>Maximum</i>	<i>1500</i> W	<i>1840</i> W	<i>1840</i> W	<i>Corporate Standard without Optional Accesaries</i>	<input type="checkbox"/>
<i>Active (Printing)</i>	<i>590</i> W	<i>590</i> W	<i>610</i> W	<i>RAL UZ-171</i>	<input type="checkbox"/>
<i>Ready</i>	<i>126</i> W	<i>123</i> W	<i>120</i> W	<i>RAL UZ-171</i>	<input type="checkbox"/>
<i>Low power</i>	<i>37</i> W	<i>33</i> W	<i>35</i> W	<i>RAL UZ-171</i>	<input type="checkbox"/>
<i>Sleep</i>	<i>0.6</i> W	<i>0.7</i> W	<i>0.7</i> W	<i>RAL UZ-171</i>	<input type="checkbox"/>
<i>Plug-in off</i>	<i>0.00</i> W	<i>0.00</i> W	<i>0.00</i> W	<i>RAL UZ-171</i>	<input type="checkbox"/>
EPS No-load (External power supply / charger plugged in the wall outlet but disconnected from the product.)	W	W	W		<input checked="" type="checkbox"/>
PTEC * Typical Energy Consumption	W	W	W		<input checked="" type="checkbox"/>
TEC * Typical Energy Consumption	<i>1.9</i> kWh/week	<i>1.8</i> kWh/week	<i>1.8</i> kWh/week	<i>Energy Star</i>	<input type="checkbox"/>
ETEC * Annual Energy Consumption	kWh/year	kWh/year	kWh/year		<input checked="" type="checkbox"/>
Display resolution* :	Megapixels				<input checked="" type="checkbox"/>
Print Speed* :	<i>36</i> Images per minute				<input type="checkbox"/>
Default time to enter energy save mode:	minutes				<input type="checkbox"/>

P9.2* Information about the energy save function is provided with the product.

P9.3* The product meets the energy requirements of the following voluntary program/s:
ENERGY STAR® version: *2* Tier: Product category: *MFDs*
Others specify:

P10	Emissions
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Noise emission – Declared according to ISO 9296					
--	--	--	--	--	--

P10.1	Mode	Mode description	Declared A-weighted sound power level $L_{WA,d}$ (B)	Declared A-weighted sound pressure level L_{pAm} (dB)		
				Operator position <input type="checkbox"/>	Bystander positions <input checked="" type="checkbox"/>	
	Idle	* <i>Ready</i>	* <i>4.1</i>	<input type="checkbox"/>	(only if product is not operator attended)	<input type="checkbox"/>
	Operation	* <i>Printing (b/w / color)</i>	* <i>6.9 / 6.8</i>	<input type="checkbox"/>		<input type="checkbox"/>
	Other mode			<input type="checkbox"/>		
Measured according to: <input checked="" type="checkbox"/> ISO7779 <input type="checkbox"/> ECMA-74 <input type="checkbox"/> Other (only if not covered by ECMA-74 with L_{pAm} measurement distance m)						

P10.2 The product meets the acoustic noise requirements of the following voluntary program/s: *RAL UZ-171*

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Product environmental attributes - Market requirements (continued)		Requirement met		
Item		Yes	No	n.a.
Chemical emissions from printing products				
P10.3*	Test performed according to ECMA-328 (ISO/IEC 28360) standard <input type="checkbox"/> , other specify: <i>RAL UZ-171</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P10.4	Typical emission rate (print phase) is (mg/h): Dust <i>1.4 / 1.5 (b/w / color)</i> Ozone <i>0.1 / 0.1</i> Styrene <i>0.3 / 0.6</i> Benzene <i>0.00 / 0.01</i> TVOC <i>1.52 / 5.39</i>			<input type="checkbox"/>
P10.5	Chemical emission requirements of the following coluntary program/s <i>RAL UZ-171</i> are met for: Dust <input checked="" type="checkbox"/> Ozon <input checked="" type="checkbox"/> Styrene <input checked="" type="checkbox"/> Benzene <input checked="" type="checkbox"/> TVOC <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electromagnetic emissions				
P10.6	Computer display meets the requirement for low frequency electromagnetic fields of the following voluntary program/s:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P11 Consumable materials for printing products				
P11.1*	A Safety Data Sheet (SDS) is available for the ink/toner preparation, even if not legally required (see P4.3).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P11.2*	Paper containing post-consumer recycled fibers can be used, provided that it meets the requirements of EN12281.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P11.3*	2-sided (duplex) printing/copying is an integrated product function.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P12 Ergonomics for computing products				
P12.1*	The display meets the ergonomic requirements of ISO 9241-307 for visual display technologies.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P12.2*	The physical input device meets the requirements of ISO 9995 and ISO 9241-410.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P13 Packaging and documentation				
P13.1*	Product packaging material type(s): <i>wood</i> weight (kg): <i>6.5</i> Product packaging material type(s): <i>paper</i> weight (kg): <i>5.2</i> Product packaging material type(s): <i>foamed PS</i> weight (kg): <i>0.8</i>			
P13.2*	Product plastic packaging is free from PVC.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P13.3*	Specify media for user and product documentation (tick box): Electronic <input checked="" type="checkbox"/> Paper <input checked="" type="checkbox"/> Other <input type="checkbox"/>			<input type="checkbox"/>
P13.4*	For paper user and product documentation, please specify contained percentage of post-consumer recycled fiber: <i>0</i> %			<input type="checkbox"/>
P14 Additional information (See Note B4)				
BTU (115v)	<i>36.6 BTU/h The figure is based on the TEC value of 1.8 kWh / week (=24 h x 7 days)</i>			
BTU (230v)	<i>36.6 BTU/h The figure is based on the TEC value of 1.8 kWh / week (=24 h x 7 days)</i>			

Note B4: Additional lines may be inserted to declare further items, by positioning the cursor at the far right of the row and hitting the <Enter> key.

Legal references Europe Annex B

Reference	Declaration item
2002/95/EC (ROHS Directive)	P1.1, P4.1
REACH, Annex XVII	P1.6, P1.8, P4.2
REACH, Annex XVII	P1.4
REACH, Annex XVII	P1.2
REACH, Annex XVII	P1.7
REACH, Annex XVII	P1.9
Regulation (EC) No. 2037/2000, 2038/2000, 2039/2000	P1.3
Norwegian regulation relating to restrictions on the use of certain dangerous chemicals 20.12.2002	P1.5
2006/66/EC (Battery and accumulators Directive)	P2.1, P2.2, P2.3, P3.4, P8.1
2006/95/EC (Low Voltage Directive)	P3.1, 3.4
2004/108/EEC (New EMC Directive)	P3.2, 3.4
1999/5/EC (R&TTE Directive)	P3.3, 3.4
"REACH" Regulation (1907/2006), annex VII	P1.10
(EC) No.1272/2008 regulation on classification, labeling and packaging (CLP)	P4.3
REACH article 31, annex II	P4.3
2004/12/EC (Directive on packaging and packaging waste)	P5.1
(97/129/EC) (Commission Decision on Identification System for Packaging Materials)	P5.2
2037/2000/EC Regulation on Substances that Deplete the Ozone Layer	P5.3
2002/96/EC (WEEE directive)	P3.4, P6.1
(EC) No.1272/2008 regulation on classification, labeling and packaging (CLP)	P7.19

Product environmental attributes – THE ECO DECLARATION

The declaration may be published only when all rows and/or fields marked with an * are filled-in (n.a. for not applicable).
Additional information regarding each item may be found under P14.

Brand *	<i>Konica Minolta</i>	Logo 
Company name *	<i>Konica Minolta, Inc.</i>	
Contact information *	<i>https://www.konicaminolta.net/neoqa/gl/about.php</i>	
Internet site *	<i>http://www.konicaminolta.com/index.html</i>	
Additional information		

The company declares (based on product specification or test results based obtained from sample testing), that the product conforms to the statements given in this declaration.	
Type of product *	<i>Multifunction printer</i>
Commercial name *	<i>bizhub</i>
Model number *	<i>C308</i>
Issue date *	<i>19 June 2015</i>
Intended market *	<input type="checkbox"/> Global <input type="checkbox"/> Europe <input checked="" type="checkbox"/> Asia, Pacific & Japan <input checked="" type="checkbox"/> Americas <input checked="" type="checkbox"/> Other
Additional information	<i>version 1.0</i>

This is an uncontrolled copy when in printed form. Please refer to the contact information for the latest version.

Quality Control		Requirement met	
Item		Yes	No
QC1 *	The company enforces an internal quality control scheme to ensure the correctness of this eco declaration	<input checked="" type="checkbox"/>	<input type="checkbox"/>
QC2 *	The company is a member of an eco declaration system that enforces regular independent quality control such as organized by IT-Företagen (see www.itecodeclaration.org).	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Model number *	bizhub C308	Logo
Issue date *	19 June 2015	

Product environmental attributes - Legal requirements		Requirement met		
Item		Yes	No	n.a.
P1 Hazardous substances and preparations				
P1.1*	Products do not contain more than; 0.1% lead, 0.01% cadmium, 0.1% mercury, 0.1% hexavalent chromium, 0.1% polybrominated biphenyls (PBB) or 0.1% polybrominated diphenyl ethers (PBDE). (See legal reference and Note B1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.2*	Products do not contain Asbestos (see legal reference). Comment: Legal reference has no maximum concentration value.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.3*	Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), hydrobromofluorocarbons (HBFC), hydrochlorofluorocarbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum concentration values.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.4*	Products do not contain more than; 0.005% polychlorinated biphenyl (PCB), 0.005% polychlorinated terphenyl (PCT) in preparations (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.5*	Products do not contain more than 0.1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the chain containing at least 48% per mass of chlorine in the SCCP (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.6*	Textile and leather parts with direct skin contact do not contain Tri-(2,3,-dibromopropyl)-phosphate (TRIS), Tris-(aziridiny)-phosphineoxide (TEPA), polybrominated biphenyl (PBB) (see legal reference). Comment: Legal reference has no maximum concentration values.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P1.7*	Textile and leather parts with direct skin contact do not contain more than 0.003% Azo colorants that split aromatic amines. (See legal reference and Note B1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P1.8*	Wooden parts do not contain arsenic and chromium as a wood preservation treatment as well as pentachlorophenol and derivatives (see legal reference). Comment: Legal reference has no maximum concentration values.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P1.9*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0.5 microgram/cm ² /week (see legal reference). Comment: Max limit in legal reference when tested according to EN1811:1998.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P1.10*	REACH Article 33 information about substances in articles is available at (add URL or mail contact):	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P2 Batteries				
P2.1*	If the product contains a battery or an accumulator, it is labeled with the disposal symbol and if it contains more than 0.0005% of mercury (for button cells only) by weight, or more than 0.004% of lead, it shall be marked with the chemical symbol for the metal concerned, Hg or Pb. Information on proper disposal is provided in user manual. (See legal reference)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P2.2*	Button cells used in the product do not contain more than 2% by weight of mercury. Other batteries or accumulators do not contain more than 0.0005% of mercury or 0.002% of cadmium. (See legal reference)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P2.3*	Batteries and accumulators are easily removable by either users or service providers (as dependent on the design of the product). Exception: Batteries that are permanently installed for safety, performance, medical or data integrity reasons do not have to be "easily removable". (See legal reference)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P3 Safety, EMC connection to the telephone network and labeling				
P3.1*	The product complies with legally required safety standards as specified (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P3.2*	The product complies with legally required standards for electromagnetic compatibility (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P3.3*	If product is intended for connection to a public telecom network or contains a radio transmitter, it complies with legally required standards for radio and telecommunication devices (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P3.4*	The product is labeled to show conformance with applicable legal requirements (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P4 Consumable materials				
P4.1*	If a photo conductor (drum, belt etc.) is used in the product, it does not contain cadmium max 0.01% (see legal reference and Note B1).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P4.2*	If ink/toner is used in the product, it does not contain cadmium max 0.1% by weight (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P4.3*	If the ink/toner formulation/preparation is classified as hazardous according to applicable regulations, the product/packaging is adequately labeled and a Safety Data Sheet (SDS) in accordance with these requirements is available (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P5 Product packaging				
P5.1*	Packaging and packaging components do not contain more than 0.01% lead, mercury, cadmium and hexavalent chromium by weight of these together.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P5.2*	Plastic packaging material is marked according to ISO 11469 referring ISO 1043 (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (see legal reference). Comment: Legal reference has no maximum concentration values.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Note B1: Restriction applies to the homogeneous material, unless other specified and expressed in weight %.

Model number *	bizhub C308	Logo
Issue date *	19 June 2015	

Product environmental attributes - Market requirements - Environmental conscious design		Requirement met		
Item	*=mandatory to fill in. Additional information regarding each item may be found under P14.	Yes	No	n.a.
P6 Treatment information				
P6.1*	Information for recyclers/treatment facilities is available (see legal reference).	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P7 Design				
Disassembly, recycling				
P7.1*	Parts that have to be treated separately are easily separable	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.2*	Plastic materials in covers/housing have no surface coating.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.3*	Plastic parts >100g consist of one material or of easily separable materials.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.4*	Plastic parts >25g have material codes according to ISO 11469 referring ISO 1043.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Product lifetime				
P7.7*	Upgrading can be done e.g. with processor, memory, cards or drives	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P7.8*	Upgrading can be done using commonly available tools	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P7.9.	Spare parts are available after end of production for: 7 years			<input type="checkbox"/>
P7.10	Service is available after end of production for: 7 years			<input type="checkbox"/>
Material and substance requirements				
P7.11*	Product cover/housing material type: Material type: PC+PET Material type: PC+ABS Material type:			
P7.12	Electrical cable insulation materials of power cables are PVC free.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.13	Electrical cable insulation materials of signal cables are PVC free	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.14	All cover/housing plastic parts >25g are free from chlorine and bromine.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.15	All printed circuit boards (without components) >25g are halogen free. as defined in IEC61249-2-21. (See Note B2)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.16	Flame retarded plastic parts >25g in covers / housings are marked according ISO 1043-4: Marking: FR(40)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.17	Alt. 1 Chemical specifications of flame retardants in printed circuit boards >25g (without components): TBBPA (additive) <input type="checkbox"/> , TBBPA (reactive) <input type="checkbox"/> , Other; chemical name: , CAS #: Alt. 2 Chemical specifications of flame retardants in printed circuit boards (without components) >25g according ISO 1043-4: FR(17)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.18	Alt. 1 Flame retarded plastic parts >25g contain the following flame retardant substances/preparations in concentrations above 0.1%: Comment: No legal limits exist, this is a market requirement. 1. Chemical name: , CAS #: 2. Chemical name: , CAS #: 3. Chemical name: , CAS #: Alt. 2 Chemical specifications of flame retardants in plastic parts >25g according ISO 1043-4: FR(17), FR(40)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.19	Plastic parts >25g are free from flame retardant substances/ preparations above 0.1% classified as R45, R40, R46, R48, R50, R51, R53, R60, R61 and any combination of these (See Note B3)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.20	Of total plastic parts' weight >25g, recycled material content is 26% .			
P7.21	Of total plastic parts' weight >25g, biobased material content is 0.01% .			
P7.22	Light sources are free from mercury If mercury is used specify: Number of lamps: and max. mercury content per lamp: mg	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P8 Batteries				
P8.1*	Battery chemical composition: Lithium			<input type="checkbox"/>
P8.2	Batteries meet the requirements of the following voluntary program/s:			<input type="checkbox"/>

Note B2: IEC61249-2--21 has maximum limits for chlorine and bromine but does not address fluorine, iodine and astatine which are included in the group of halogens.

Note B3: 'Starting from January 2009, Risk phrases can be replaced by Hazard phrases according to the Globally Harmonized System (GHS), mandatory by December 2010.

Model number *	<i>bizhub C308</i>	Logo
Issue date *	<i>19 June 2015</i>	

Product environmental attributes - Market requirements (continued)	Requirement met
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Item	Yes	No	n.a.
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P9 Energy consumption

9.1 For the product the following power levels or energy consumptions are reported:

Energy mode *	Power level at 100 V AC	Power level at 115 V AC	Power level at 230 V AC	Reference / Standard for energy modes and test method *	
<i>Maximum</i>	<i>1500</i> W	<i>1840</i> W	<i>1840</i> W	<i>Corporate Standard without Optional Accesaries</i>	<input type="checkbox"/>
<i>Active (Printing)</i>	<i>520</i> W	<i>560</i> W	<i>540</i> W	<i>RAL UZ-171</i>	<input type="checkbox"/>
<i>Ready</i>	<i>120</i> W	<i>115</i> W	<i>115</i> W	<i>RAL UZ-171</i>	<input type="checkbox"/>
<i>Low power</i>	<i>36</i> W	<i>31</i> W	<i>32</i> W	<i>RAL UZ-171</i>	<input type="checkbox"/>
<i>Sleep</i>	<i>0.6</i> W	<i>0.6</i> W	<i>0.7</i> W	<i>RAL UZ-171</i>	<input type="checkbox"/>
<i>Plug-in off</i>	<i>0.00</i> W	<i>0.00</i> W	<i>0.00</i> W	<i>RAL UZ-171</i>	<input type="checkbox"/>
EPS No-load (External power supply / charger plugged in the wall outlet but disconnected from the product.)	W	W	W		<input checked="" type="checkbox"/>
PTEC * Typical Energy Consumption	W	W	W		<input checked="" type="checkbox"/>
TEC * Typical Energy Consumption	<i>1.5</i> kWh/week	<i>1.5</i> kWh/week	<i>1.6</i> kWh/week	<i>Energy Star</i>	<input type="checkbox"/>
ETEC * Annual Energy Consumption	kWh/year	kWh/year	kWh/year		<input checked="" type="checkbox"/>
Display resolution * :	Megapixels				<input checked="" type="checkbox"/>
Print Speed * :	<i>30</i> Images per minute				<input type="checkbox"/>
Default time to enter energy save mode:	minutes				<input type="checkbox"/>

P9.2* Information about the energy save function is provided with the product.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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P9.3* The product meets the energy requirements of the following voluntary program/s: ENERGY STAR® version: <i>2</i> Tier: Product category: <i>MFDs</i> Others specify:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

P10 Emissions

Noise emission – Declared according to ISO 9296
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P10.1	Mode	Mode description	Declared A-weighted sound power level $L_{WA,d}$ (B)	Declared A-weighted sound pressure level L_{pAm} (dB)		
				Operator position <input type="checkbox"/>	Bystander positions <input checked="" type="checkbox"/>	
	Idle	* <i>Ready</i>	* <i>4.4</i>	<i>26.8</i>		<input type="checkbox"/>
	Operation	* <i>Printing (b/w / color)</i>	* <i>6.8 / 6.8</i>	<i>50 / 50.1</i>		<input type="checkbox"/>
	Other mode					

Measured according to: ISO7779 ECMA-74
 Other (only if not covered by ECMA-74 with L_{pAm} measurement distance m)

P10.2 The product meets the acoustic noise requirements of the following voluntary program/s: <i>RAL UZ-171</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Model number *	<i>bizhub C308</i>	Logo
Issue date *	<i>19 June 2015</i>	

Product environmental attributes - Market requirements (continued)		Requirement met		
Item		Yes	No	n.a.
Chemical emissions from printing products				
P10.3*	Test performed according to ECMA-328 (ISO/IEC 28360) standard <input type="checkbox"/> , other specify: <i>RAL UZ-171</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P10.4	Typical emission rate (print phase) is (mg/h): Dust <i>1.4 / 1.5 (b/w / color)</i> Ozone <i>0.1 / 0.1</i> Styrene <i>0.3 / 0.6</i> Benzene <i>0.00 / 0.01</i> TVOC <i>1.52 / 5.39</i>			<input type="checkbox"/>
P10.5	Chemical emission requirements of the following coluntary program/s <i>RAL UZ-171</i> are met for: Dust <input checked="" type="checkbox"/> Ozon <input checked="" type="checkbox"/> Styrene <input checked="" type="checkbox"/> Benzene <input checked="" type="checkbox"/> TVOC <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electromagnetic emissions				
P10.6	Computer display meets the requirement for low frequency electromagnetic fields of the following voluntary program/s:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P11 Consumable materials for printing products				
P11.1*	A Safety Data Sheet (SDS) is available for the ink/toner preparation, even if not legally required (see P4.3).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P11.2*	Paper containing post-consumer recycled fibers can be used, provided that it meets the requirements of EN12281.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P11.3*	2-sided (duplex) printing/copying is an integrated product function.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P12 Ergonomics for computing products				
P12.1*	The display meets the ergonomic requirements of ISO 9241-307 for visual display technologies.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P12.2*	The physical input device meets the requirements of ISO 9995 and ISO 9241-410.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P13 Packaging and documentation				
P13.1*	Product packaging material type(s): <i>wood</i> weight (kg): <i>6.5</i> Product packaging material type(s): <i>paper</i> weight (kg): <i>5.2</i> Product packaging material type(s): <i>foamed PS</i> weight (kg): <i>0.5</i>			
P13.2*	Product plastic packaging is free from PVC.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P13.3*	Specify media for user and product documentation (tick box): Electronic <input checked="" type="checkbox"/> Paper <input checked="" type="checkbox"/> Other <input type="checkbox"/>			<input type="checkbox"/>
P13.4*	For paper user and product documentation, please specify contained percentage of post-consumer recycled fiber: <i>0</i> %			<input type="checkbox"/>
P14 Additional information (See Note B4)				
BTU (115v)	<i>30.5 BTU/h The figure is based on the TEC value of 1.5 kWh / week (=24 h x 7 days)</i>			
BTU (230v)	<i>32.5 BTU/h The figure is based on the TEC value of 1.6 kWh / week (=24 h x 7 days)</i>			

Note B4: Additional lines may be inserted to declare further items, by positioning the cursor at the far right of the row and hitting the <Enter> key.

Legal references Europe Annex B

Reference	Declaration item
2002/95/EC (ROHS Directive)	P1.1, P4.1
REACH, Annex XVII	P1.6, P1.8, P4.2
REACH, Annex XVII	P1.4
REACH, Annex XVII	P1.2
REACH, Annex XVII	P1.7
REACH, Annex XVII	P1.9
Regulation (EC) No. 2037/2000, 2038/2000, 2039/2000	P1.3
Norwegian regulation relating to restrictions on the use of certain dangerous chemicals 20.12.2002	P1.5
2006/66/EC (Battery and accumulators Directive)	P2.1, P2.2, P2.3, P3.4, P8.1
2006/95/EC (Low Voltage Directive)	P3.1, 3.4
2004/108/EEC (New EMC Directive)	P3.2, 3.4
1999/5/EC (R&TTE Directive)	P3.3, 3.4
"REACH" Regulation (1907/2006), annex VII	P1.10
(EC) No.1272/2008 regulation on classification, labeling and packaging (CLP)	P4.3
REACH article 31, annex II	P4.3
2004/12/EC (Directive on packaging and packaging waste)	P5.1
(97/129/EC) (Commission Decision on Identification System for Packaging Materials)	P5.2
2037/2000/EC Regulation on Substances that Deplete the Ozone Layer	P5.3
2002/96/EC (WEEE directive)	P3.4, P6.1
(EC) No.1272/2008 regulation on classification, labeling and packaging (CLP)	P7.19

Product environmental attributes – THE ECO DECLARATION

The declaration may be published only when all rows and/or fields marked with an * are filled-in (n.a. for not applicable).
Additional information regarding each item may be found under P14.

Brand *	<i>Konica Minolta</i>	Logo 
Company name *	<i>Konica Minolta, Inc.</i>	
Contact information *	<i>https://www.konicaminolta.net/neoqa/gl/about.php</i>	
Internet site *	<i>http://www.konicaminolta.com/index.html</i>	
Additional information		

The company declares (based on product specification or test results based obtained from sample testing), that the product conforms to the statements given in this declaration.	
Type of product *	<i>Multifunction printer</i>
Commercial name *	<i>bizhub</i>
Model number *	<i>C258</i>
Issue date *	<i>19 June 2015</i>
Intended market *	<input type="checkbox"/> Global <input type="checkbox"/> Europe <input checked="" type="checkbox"/> Asia, Pacific & Japan <input checked="" type="checkbox"/> Americas <input checked="" type="checkbox"/> Other
Additional information	<i>version 1.0</i>

This is an uncontrolled copy when in printed form. Please refer to the contact information for the latest version.

Quality Control		Requirement met	
Item		Yes	No
QC1 *	The company enforces an internal quality control scheme to ensure the correctness of this eco declaration	<input checked="" type="checkbox"/>	<input type="checkbox"/>
QC2 *	The company is a member of an eco declaration system that enforces regular independent quality control such as organized by IT-Företagen (see www.itecodeclaration.org).	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Model number *	bizhub C258	Logo
Issue date *	19 June 2015	

Product environmental attributes - Legal requirements		Requirement met		
Item		Yes	No	n.a.
P1 Hazardous substances and preparations				
P1.1*	Products do not contain more than; 0.1% lead, 0.01% cadmium, 0.1% mercury, 0.1% hexavalent chromium, 0.1% polybrominated biphenyls (PBB) or 0.1% polybrominated diphenyl ethers (PBDE). (See legal reference and Note B1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.2*	Products do not contain Asbestos (see legal reference). Comment: Legal reference has no maximum concentration value.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.3*	Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), hydrobromofluorocarbons (HBFC), hydrochlorofluorocarbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum concentration values.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.4*	Products do not contain more than; 0.005% polychlorinated biphenyl (PCB), 0.005% polychlorinated terphenyl (PCT) in preparations (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.5*	Products do not contain more than 0.1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the chain containing at least 48% per mass of chlorine in the SCCP (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.6*	Textile and leather parts with direct skin contact do not contain Tri-(2,3,-dibromopropyl)-phosphate (TRIS), Tris-(aziridiny)-phosphineoxide (TEPA), polybrominated biphenyl (PBB) (see legal reference). Comment: Legal reference has no maximum concentration values.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P1.7*	Textile and leather parts with direct skin contact do not contain more than 0.003% Azo colorants that split aromatic amines. (See legal reference and Note B1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P1.8*	Wooden parts do not contain arsenic and chromium as a wood preservation treatment as well as pentachlorophenol and derivatives (see legal reference). Comment: Legal reference has no maximum concentration values.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P1.9*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0.5 microgram/cm ² /week (see legal reference). Comment: Max limit in legal reference when tested according to EN1811:1998.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P1.10*	REACH Article 33 information about substances in articles is available at (add URL or mail contact):	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P2 Batteries				
P2.1*	If the product contains a battery or an accumulator, it is labeled with the disposal symbol and if it contains more than 0.0005% of mercury (for button cells only) by weight, or more than 0.004% of lead, it shall be marked with the chemical symbol for the metal concerned, Hg or Pb. Information on proper disposal is provided in user manual. (See legal reference)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P2.2*	Button cells used in the product do not contain more than 2% by weight of mercury. Other batteries or accumulators do not contain more than 0.0005% of mercury or 0.002% of cadmium. (See legal reference)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P2.3*	Batteries and accumulators are easily removable by either users or service providers (as dependent on the design of the product). Exception: Batteries that are permanently installed for safety, performance, medical or data integrity reasons do not have to be "easily removable". (See legal reference)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P3 Safety, EMC connection to the telephone network and labeling				
P3.1*	The product complies with legally required safety standards as specified (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P3.2*	The product complies with legally required standards for electromagnetic compatibility (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P3.3*	If product is intended for connection to a public telecom network or contains a radio transmitter, it complies with legally required standards for radio and telecommunication devices (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P3.4*	The product is labeled to show conformance with applicable legal requirements (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P4 Consumable materials				
P4.1*	If a photo conductor (drum, belt etc.) is used in the product, it does not contain cadmium max 0.01% (see legal reference and Note B1).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P4.2*	If ink/toner is used in the product, it does not contain cadmium max 0.1% by weight (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P4.3*	If the ink/toner formulation/preparation is classified as hazardous according to applicable regulations, the product/packaging is adequately labeled and a Safety Data Sheet (SDS) in accordance with these requirements is available (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P5 Product packaging				
P5.1*	Packaging and packaging components do not contain more than 0.01% lead, mercury, cadmium and hexavalent chromium by weight of these together.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P5.2*	Plastic packaging material is marked according to ISO 11469 referring ISO 1043 (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (see legal reference). Comment: Legal reference has no maximum concentration values.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Note B1: Restriction applies to the homogeneous material, unless other specified and expressed in weight %.

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Product environmental attributes - Market requirements - Environmental conscious design		Requirement met		
Item	*=mandatory to fill in. Additional information regarding each item may be found under P14.	Yes	No	n.a.
P6 Treatment information				
P6.1*	Information for recyclers/treatment facilities is available (see legal reference).	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P7 Design Disassembly, recycling				
P7.1*	Parts that have to be treated separately are easily separable	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.2*	Plastic materials in covers/housing have no surface coating.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.3*	Plastic parts >100g consist of one material or of easily separable materials.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.4*	Plastic parts >25g have material codes according to ISO 11469 referring ISO 1043.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Product lifetime				
P7.7*	Upgrading can be done e.g. with processor, memory, cards or drives	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P7.8*	Upgrading can be done using commonly available tools	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P7.9.	Spare parts are available after end of production for: 7 years			<input type="checkbox"/>
P7.10	Service is available after end of production for: 7 years			<input type="checkbox"/>
Material and substance requirements				
P7.11*	Product cover/housing material type: Material type: PC+PET Material type: PC+ABS Material type:			
P7.12	Electrical cable insulation materials of power cables are PVC free.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.13	Electrical cable insulation materials of signal cables are PVC free	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.14	All cover/housing plastic parts >25g are free from chlorine and bromine.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.15	All printed circuit boards (without components) >25g are halogen free. as defined in IEC61249-2-21. (See Note B2)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.16	Flame retarded plastic parts >25g in covers / housings are marked according ISO 1043-4: Marking: FR(40)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.17	Alt. 1 Chemical specifications of flame retardants in printed circuit boards >25g (without components): TBBPA (additive) <input type="checkbox"/> , TBBPA (reactive) <input type="checkbox"/> , Other; chemical name: , CAS #: Alt. 2 Chemical specifications of flame retardants in printed circuit boards (without components) >25g according ISO 1043-4: FR(17)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.18	Alt. 1 Flame retarded plastic parts >25g contain the following flame retardant substances/preparations in concentrations above 0.1%: Comment: No legal limits exist, this is a market requirement. 1. Chemical name: , CAS #: 2. Chemical name: , CAS #: 3. Chemical name: , CAS #: Alt. 2 Chemical specifications of flame retardants in plastic parts >25g according ISO 1043-4: FR(17), FR(40)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.19	Plastic parts >25g are free from flame retardant substances/ preparations above 0.1% classified as R45, R40, R46, R48, R50, R51, R53, R60, R61 and any combination of these (See Note B3)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.20	Of total plastic parts' weight >25g, recycled material content is 26% .			
P7.21	Of total plastic parts' weight >25g, biobased material content is 0.01% .			
P7.22	Light sources are free from mercury If mercury is used specify: Number of lamps: and max. mercury content per lamp: mg	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P8 Batteries				
P8.1*	Battery chemical composition: Lithium			<input type="checkbox"/>
P8.2	Batteries meet the requirements of the following voluntary program/s:			<input type="checkbox"/>

Note B2: IEC61249-2--21 has maximum limits for chlorine and bromine but does not address fluorine, iodine and astatine which are included in the group of halogens.

Note B3: 'Starting from January 2009, Risk phrases can be replaced by Hazard phrases according to the Globally Harmonized System (GHS), mandatory by December 2010.

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Product environmental attributes - Market requirements (continued)	Requirement met
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Item	Yes	No	n.a.
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P9	Energy consumption
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9.1 For the product the following power levels or energy consumptions are reported:

Energy mode *	Power level at 100 V AC	Power level at 115 V AC	Power level at 230 V AC	Reference / Standard for energy modes and test method *	
<i>Maximum</i>	<i>1500</i> W	<i>1840</i> W	<i>1840</i> W	<i>Corporate Standard without Optional Accesaries</i>	<input type="checkbox"/>
<i>Active (Printing)</i>	<i>490</i> W	<i>450</i> W	<i>480</i> W	<i>RAL UZ-171</i>	<input type="checkbox"/>
<i>Ready</i>	<i>123</i> W	<i>118</i> W	<i>111</i> W	<i>RAL UZ-171</i>	<input type="checkbox"/>
<i>Low power</i>	<i>33</i> W	<i>32</i> W	<i>33</i> W	<i>RAL UZ-171</i>	<input type="checkbox"/>
<i>Sleep</i>	<i>0.6</i> W	<i>0.6</i> W	<i>0.7</i> W	<i>RAL UZ-171</i>	<input type="checkbox"/>
<i>Plug-in off</i>	<i>0.00</i> W	<i>0.00</i> W	<i>0.00</i> W	<i>RAL UZ-171</i>	<input type="checkbox"/>
EPS No-load (External power supply / charger plugged in the wall outlet but disconnected from the product.)	W	W	W		<input checked="" type="checkbox"/>
PTEC * Typical Energy Consumption	W	W	W		<input checked="" type="checkbox"/>
TEC * Typical Energy Consumption	<i>1.2</i> kWh/week	<i>1.2</i> kWh/week	<i>1.2</i> kWh/week	<i>Energy Star</i>	<input type="checkbox"/>
ETEC * Annual Energy Consumption	kWh/year	kWh/year	kWh/year		<input checked="" type="checkbox"/>
Display resolution* :	Megapixels				<input checked="" type="checkbox"/>
Print Speed* :	<i>25</i> Images per minute				<input type="checkbox"/>
Default time to enter energy save mode:	minutes				<input type="checkbox"/>

P9.2* Information about the energy save function is provided with the product.

P9.3* The product meets the energy requirements of the following voluntary program/s:
ENERGY STAR® version: *2* Tier: Product category: *MFDs*
Others specify:

P10	Emissions
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Noise emission – Declared according to ISO 9296					
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P10.1	Mode	Mode description	Declared A-weighted sound power level $L_{WA,d}$ (B)	Declared A-weighted sound pressure level L_{pAm} (dB)		
				Operator position <input type="checkbox"/>	Bystander positions <input checked="" type="checkbox"/>	
				(only if product is not operator attended)		
	Idle	* <i>Ready</i>	* <i>4.1</i>	<i>22.6</i>		<input type="checkbox"/>
	Operation	* <i>Printing (b/w / color)</i>	* <i>6.8 / 6.8</i>	<i>49.2 / 50.8</i>		<input type="checkbox"/>
	Other mode					

Measured according to: ISO7779 ECMA-74
 Other (only if not covered by ECMA-74 with L_{pAm} measurement distance m)

P10.2 The product meets the acoustic noise requirements of the following voluntary program/s: *RAL UZ-171*

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Product environmental attributes - Market requirements (continued)		Requirement met		
Item		Yes	No	n.a.
Chemical emissions from printing products				
P10.3*	Test performed according to ECMA-328 (ISO/IEC 28360) standard <input type="checkbox"/> , other specify: <i>RAL UZ-171</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P10.4	Typical emission rate (print phase) is (mg/h): Dust <i>1.4 / 1.3 (b/w / color)</i> Ozone <i>0.1 / 0.2</i> Styrene <i>0.2 / 0.3</i> Benzene <i>0 / 0.01</i> TVOC <i>5.42 / 8.06</i>			<input type="checkbox"/>
P10.5	Chemical emission requirements of the following coluntary program/s <i>RAL UZ-171</i> are met for: Dust <input checked="" type="checkbox"/> Ozon <input checked="" type="checkbox"/> Styrene <input checked="" type="checkbox"/> Benzene <input checked="" type="checkbox"/> TVOC <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electromagnetic emissions				
P10.6	Computer display meets the requirement for low frequency electromagnetic fields of the following voluntary program/s:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P11 Consumable materials for printing products				
P11.1*	A Safety Data Sheet (SDS) is available for the ink/toner preparation, even if not legally required (see P4.3).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P11.2*	Paper containing post-consumer recycled fibers can be used, provided that it meets the requirements of EN12281.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P11.3*	2-sided (duplex) printing/copying is an integrated product function.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P12 Ergonomics for computing products				
P12.1*	The display meets the ergonomic requirements of ISO 9241-307 for visual display technologies.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P12.2*	The physical input device meets the requirements of ISO 9995 and ISO 9241-410.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P13 Packaging and documentation				
P13.1*	Product packaging material type(s): <i>wood</i> weight (kg): <i>6.5</i> Product packaging material type(s): <i>paper</i> weight (kg): <i>5.2</i> Product packaging material type(s): <i>foamed PS</i> weight (kg): <i>0.5</i>			
P13.2*	Product plastic packaging is free from PVC.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P13.3*	Specify media for user and product documentation (tick box): Electronic <input checked="" type="checkbox"/> Paper <input checked="" type="checkbox"/> Other <input type="checkbox"/>			<input type="checkbox"/>
P13.4*	For paper user and product documentation, please specify contained percentage of post-consumer recycled fiber: <i>0 %</i>			<input type="checkbox"/>
P14 Additional information (See Note B4)				
BTU (115v)	<i>24.4 BTU/h The figure is based on the TEC value of 1.2 kWh / week (=24 h x 7 days)</i>			
BTU (230v)	<i>24.4 BTU/h The figure is based on the TEC value of 1.2 kWh / week (=24 h x 7 days)</i>			

Note B4: Additional lines may be inserted to declare further items, by positioning the cursor at the far right of the row and hitting the <Enter> key.

Legal references Europe Annex B

Reference	Declaration item
2002/95/EC (ROHS Directive)	P1.1, P4.1
REACH, Annex XVII	P1.6, P1.8, P4.2
REACH, Annex XVII	P1.4
REACH, Annex XVII	P1.2
REACH, Annex XVII	P1.7
REACH, Annex XVII	P1.9
Regulation (EC) No. 2037/2000, 2038/2000, 2039/2000	P1.3
Norwegian regulation relating to restrictions on the use of certain dangerous chemicals 20.12.2002	P1.5
2006/66/EC (Battery and accumulators Directive)	P2.1, P2.2, P2.3, P3.4, P8.1
2006/95/EC (Low Voltage Directive)	P3.1, 3.4
2004/108/EEC (New EMC Directive)	P3.2, 3.4
1999/5/EC (R&TTE Directive)	P3.3, 3.4
"REACH" Regulation (1907/2006), annex VII	P1.10
(EC) No.1272/2008 regulation on classification, labeling and packaging (CLP)	P4.3
REACH article 31, annex II	P4.3
2004/12/EC (Directive on packaging and packaging waste)	P5.1
(97/129/EC) (Commission Decision on Identification System for Packaging Materials)	P5.2
2037/2000/EC Regulation on Substances that Deplete the Ozone Layer	P5.3
2002/96/EC (WEEE directive)	P3.4, P6.1
(EC) No.1272/2008 regulation on classification, labeling and packaging (CLP)	P7.19