integrated system controller specifications:

CPU	SH-3 (133 MHz)
PDL	RISORINC 3N (advance/simple)
OS	Windows 2000, Windows XP, Windows Vista, Mac OS 8.6-10.4 (Power PC only—Intel Mac is not compatible)
Input port	USB 2.0, Ethernet (100BASE-TX/10 -BASE-T)
Memory	128 MB
Network protocol	TCP/IP, NetBEUI, Apple Talk**, Bonjour**

** Optional Network Card and RISORINC-NET are required for network and Macintosh connection

MZ990 specifications

processing	High-speed fully automatic digital scanning, thermal screening printing system
resolution	Scanning: 600 x 600 dpi Imaging: 600 x 600 dpi
first copy time	Dual color print: Approximately 57 seconds Single color print, Cylinder 1: Approx. 24 sec. Single color print, Cylinder 2: Approx. 34 sec.
printing speed	60-150 ppm. 5 steps (60, 80, 100, 110, 120 ppm) variable from control panel; 150 ppm selectable from touch panel.
original size and weight	From stage glass: 22 lb or less. 1.9375″ x 3.5625″ to 11.6875″ x 16.53″ (50 x 90 mm to 297 x 420 mm) In the optional Automatic Document Feeder: Simplex: 50 sheets, 15 lb bond to 34 lb bond (50 to 128 GSM), 3.937″ x 5.826″ to 11.692″ x 17″ (100 x 148 mm to 297 x 432 mm) Duplex: 50 sheets, 10.9 lb bond to 34 lb bond (40 to 128 GSM) when single sided, 14 lb bond to 28 lb bond (52 to 105 GSM) when double sided. 4.133″ x 5.039″ to 11.672″ x 17″ (105 x 128 mm to 297 to 432 mm)
paper size and weight	Dual or single color print with Cylinder 2: 7.165″ x 10.12″ to 11.6875″ x 16.53″ (182 x 257 mm to 297 x 420 mm) Single color print with Cylinder 1: 3.9375″ x 5.8125″ to 11.6875″ x 17″ (100 x 148 mm to 297 x 432 mm) 13 lb bond to 110 lb index (46 to 210 GSM)
image processing modes	Line, Photo (Std., Portrait, Group), Duo, Pencil
image area (max.)	11.4375″ x 16.25 (291 x 413 mm)
paper capacity	1000 sheets in feed tray and receive tray 20 lb bond (75 GSM)
preset reduction/enlargement	50%, 61%, 65%, 78%, 121%, 129%, 154%, 200%
zoom/free reduction/enlargement	Zoom: 50%-200% in 1% increments Free (individual adjustment of length or width): 50%-200%. Margin+: 90-99%
print position adjustment	Vertical: ±0.59″ (15 mm); Hor.: ±0.375″ (10 mm)
registration	color to color print start position: within 1/16″ (2 mm); between colors: within 1/28″ (0.2 mm)
standard features	Easy 2 Color, RISO Editor, Auto Process, Dot Screening (4 Dot Photo Modes), Scanning Contrast (Auto + 5 selectable steps), Top and Side Margin Adjust, Bound Document Processing, Photo Contrast Adjust, Tone Curve Adjust, Ink Saving Mode, Multi-up Printing (2/4/8/16/ticket), Renew Page, Preview, Print Density Adjustment (5 steps), Double Feed Check, Interval Print, Program Printing, Job Memory, Reserve, Automatic and Manual Idling, Confidential Mode, Combination Print, Custom Paper Entry, Admin. Setting, Direct Access and Selection Entry, Document Storage*, Overlay*, Stamp*, RISO i Quality System™, Integrated GDI System Controller, LCD Touch Panel, Print Speed/Density Control, Energy Saving Modes (Auto Sleep, Auto Power Off, Power Off Schedule), Paper Size Detection, Preventive Maintenance Indicator, Precision Stacking Tray, Auto Paper Jumping Wing Adjustment, and Stand
options	0Color Print Cylinders, Network Interface Card, Automatic Document Feeder (Simplex) Automatic Document Feeder (Duplex), Job Separator, Key Card Counter, Special Paper Feed Kit, PS7R-5000 Adobe® PostScript® 3™ RIP, High Density Ink and Masters
electrical	110V-120V AC, 50/60 Hz <7.3 A>
power consumption	max: 600 W standby: 60 W sleep: 3.5 W
weight of duplicator	Approximately 370 lbs. (168 kg)
weight of stand	Approximately 81.4 lbs (37 kg)
dimensions (w x d x h)	In use, without stand: 63.19″ x 28.54″ x 28.74″ (1605 x 725 x 730 mm)

*Optional Document Storage Card DM-128CF is required for Document Storage, Overlay, and Stamp functions

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Item #MC8463

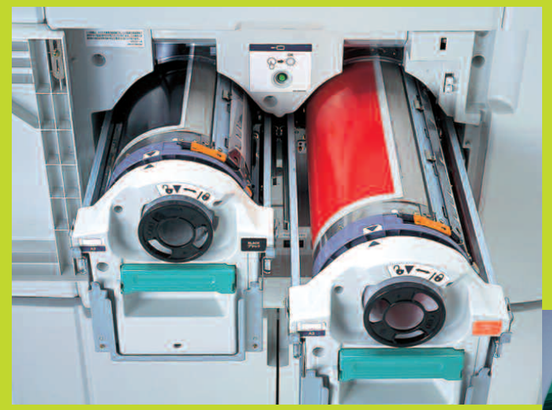
MZ990

two-color digital duplicator

High-quality two-color printing

True 600 x 600 dpi imaging and printing

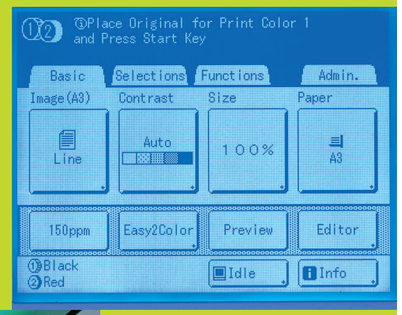
Ink and Ingenuity

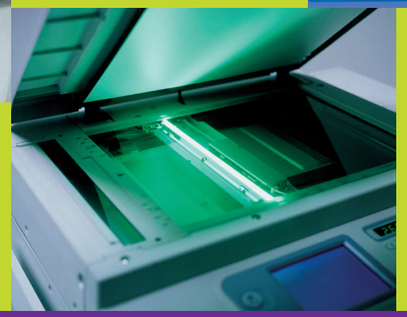


Dense solids

Fine lines

Quality halftones





MZ990

two-color digital duplicator

Add power and impact to documents by adding a second color with the MZ990. For speed and ease of use, you can also run the MZ990 as a single-color printer for simple documents that don't need the extra impact of a second color.

The MZ990 combines easy high-speed two-color printing with true 600 x 600 dpi imaging and printing capabilities to ensure the finest details on even the tiniest of fonts and finest photo gradations. Offering two-color printing in a single pass, the MZ990 features ease of use and quality output that make RISO digital duplicators the world's favorite. Advanced technology makes color separation, master-making, and printing little more than a pushbutton operation, and the vast array of RISO inks offers you a huge selection of colors to choose from to add extra impact to all your documents.

With the MZ990, RISO delivers added features and benefits to markets requiring finer print quality, fast print speeds, versatility, and cost containment. Enhance your productivity by completing your longest print jobs in an astonishingly short time, taking less than seven minutes to print 1,000 pages at a blazing 150 pages per minute. The MZ990 is ideal for print service providers and in-plants requiring superior print quality in dual color for applications such as letterhead, envelopes, greeting cards, flyers, and more.

600 dpi scanning

The scanner boasts 600 dpi resolution to ensure that even the finest details are clearly detected and imaged on the master.

High-end 600 dpi printing

Achieve solid black tones and a more professional look. 600 x 600 dpi printing assures smooth lines, finer photo gradations, and clearly legible type.

RISO Editor

Allows the user to scan an original, precisely edit a hard copy original, make color separations, move images, and make necessary changes directly from the touch screen to enhance the quality of your document.

Advanced Functionality*

Document storage lets you scan and store items such as letterhead and forms that you use frequently. Using Stamp and Overlay functions, you can recall the data at a touch of a button, rather than scanning the document every time you need it. Simply recall the data and it is automatically overlaid on the master.

*Optional Document Storage Card DM-128CF is required for Document Storage, Overlay, and Stamp functions

Intuitive control panel

The control panel is divided into two areas to give you the ultimate in easy, intuitive operation. The right hand side of the panel features dedicated buttons giving one-touch control of all basic operations. The left hand side is equipped with a touch panel for easy access to the wide range of advanced functions. The LCD screen was developed to provide clear, at-a-glance viewing of functions, and even a preview of how your document will look before printing. You can also place your most frequently used functions on the top screen to customize the panel layout.

Eco-friendly

The MZ990 digital duplicator is designed to be friendly to our environment! The MZ990 is ENERGY STAR certified. With low power consumption, eco-friendly soy ink and natural fiber masters, plus a mercury-free LCD panel display, the MZ990 is a sound environmental choice.

Ultra high-speed output

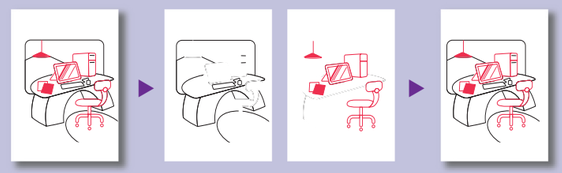
The MZ990's maximum print speed of 150 ppm gets you to the end of even the longest print job at an astonishingly short time, taking less than seven minutes to print 1,000 pages. You won't have to wait long to start printing; master-making takes just 24 seconds to make a single-color master or 57 seconds to make the masters for two-color printing.

RISO i Quality System™

The RISO i Quality System offers a large number of quality and convenience benefits, including automatic assurance of optimum print quality, prevention of operator error, warning of shortages in remaining ink/master volume, and minimized paper waste. The RISO i Quality System gives easy monitoring of the status of consumables. Simply press the "i Info" button on the Basic Screen for a graphic display of remaining consumables.

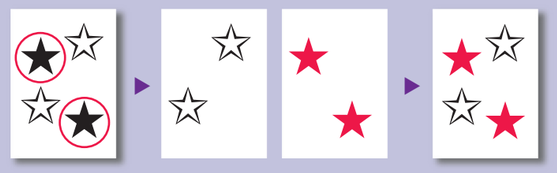
Easy 2Color

The MZ990 features "Easy 2Color"—a process that not only makes it easy to create two-color masters, you even get a choice of how to do it so you can select the method that's easiest for you or most suitable for any particular print job.



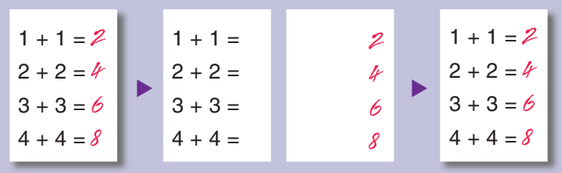
Red and black original

If you have a red and black original, making a master couldn't be easier. Just scan the original, and the MZ990 does the color separation for you, automatically.



Area separation

With a single-color original, you can circle the areas you want printed in the second color. When you scan the original, the colors are automatically separated.



Handwritten separation

With a single-color original, you can handwrite the data you want printed in the second color. Again, carry out the scanning process and the colors are separated automatically.

Separation sheet

If you don't wish to mark your original as required for area separation, simply circle the second color area on a separate sheet of paper and scan twice for color separation.