

integrated system controller specifications

CPU	SH-3 (133 MHz)
PDL	RISORINC 3N (advance/simple)
OS	Windows XP, Vista (32-bit)
input port	USB 2.0, Ethernet (100BASE-TX/10 -BASE-T)
memory	128 MB
network protocol	TCP/IP, EtherTalk, NetBEUI
network printing	**Optional Network Card is required to network

optional IS300 PostScript RIP specifications

CPU	Intel® Celeron® D 2.93 GHz
PDL	Adobe® PostScript® 3™, PDF (1.7), TIFF (6.0)
OS	Windows® 2000 SP 4/ Windows® XP (32-bit) SP 2/ SP3/ Windows® Vista (32-bit)/ Mac OS® X 10.4/ Mac OS® 10.5
memory	256 MB
hard disk	80 GB
number of fonts	139 fonts

MZ1090 specifications

processing	High-speed digital master making, fully automatic stencil 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. when only single Print Cylinder is set
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 12.1875" x 17" (50 x 90 mm to 310 x 432 mm) In the optional Automatic Document Feeder AF-VI: 13 lb bond to 34 lb bond (40 to 128 g/m ²); 3.9375" x 5.8125" to 12.8125" x 17" (100 x 148 mm to 310 x 432 mm) In the Automatic Document Feeder DX-1: Simplex: 11 lb bond to 34 lb bond (40 to 128 g/m ²); Duplex: 14 lb bond to 28 lb bond (52 to 105 g/m ²); 4.125" x 5.0625" to 11.6875" x 17" (105 x 128 mm to 297 x 432 mm)
paper size and weight	Minimum size: Dual-Color Print: 7.1875" x 10.125" (182 x 257 mm) 1-Color Print with Print Cylinder 1: 3.9375" x 5.8125" (100 x 148 mm) 1-Color Print with Print Cylinder 2: 7.165" x 10.12" (182 x 257 mm) 13 lb bond to 110 lb index (46 to 210 g/m ²)
image processing modes	Line, Photo (Std., Portrait, Group), Duo (Line/Photo/Shadow off), Pencil (Darker/Lighter)
image area (max.)	11.4375" x 16.75" (291 x 425 mm)
paper capacity	1000 sheets in feed tray and receive tray (17 lb bond [64 g/m ²])

preset reduction/enlarge	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 registration	Vertical: ±0.59" (15 mm); Hor.: ±0.375" (10 mm) color to color print start position: within 1/16" (2 mm); between colors: within 1/28" (0.2 mm)
standard features	Easy 2 Color, User Management, RISO Copy Count Viewer, ID Counter Report, USB Plug-and-Print, USB Flash Print, Book Shadow Erase, 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	Color Print Cylinders, Card Feed Kit, Network Interface Card, Automatic Document Feeder (Simplex) Automatic Document Feeder (Duplex), Job Separator, Key Card Counter, Wide Stacking Tray, Document Storage Card DM128-CF, IS300 Adobe® PostScript® 3™ RIP, High Density Ink, Quick Dry Ink, and Masters
electrical	100V-240V-, 50/60 Hz <7.3/3.0 A>
power consumption	max: 600 W/Approx. 580W (220V) standby: 53 W without option, 55 W with option sleep: 3.5 W without option, 2.5 W with option
weight of duplicator	Approximately 376.625 lbs. (171 kg)**
weight of stand	Approximately 81.4 lbs (37 kg)
dimensions (w x d x h)	In use, without stand: 63.97" x 28.94" x 29.125" (1625 x 735 x 740 mm)

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

** Weight does not include Ink and Master

MZ1090



Add color quickly, easily, and economically to deliver new levels of value, impact, and profitability



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RISO
Ink and Ingenuity



MZ1090

Add color quickly, easily, and economically to deliver new levels of value, impact, and profitability

Increase the effectiveness of your communications by adding color to emphasize key ideas and information. The RISO MZ1090 single-pass, two-color digital duplicator empowers graphic artists and print shop owners to produce high-impact documents quickly, easily, and economically. With over seventy available colors to choose from, the RISO MZ1090 combines 150 ppm high-speed two-color printing with true 600 dpi image quality, and expedites workflow processes to deliver exceptional productivity and value.

The MZ1090 features advanced workflow capabilities to reduce pre-press and make-ready times by up to 50%. Automated production processes streamline workflow to maximize machine availability in order to print more jobs than ever before. The result is increased productivity, profitability, and cost savings for commercial printers, quick printers, in-plants, churches, schools, and more.

The MZ1090 leverages over 50 years of industry-leading design and manufacturing practices to deliver the legendary reliability and longevity that RISO customers expect and rely on. With the MZ1090, speed, color, versatility, reliability, and advanced workflow functionality are built in, making this digital duplicator the perfect choice for one- and two-color printing.

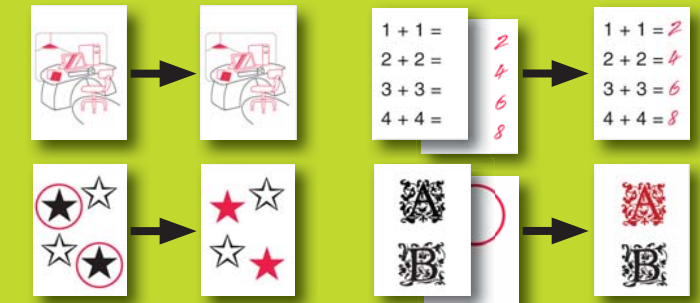


Enhanced two-color printing processes for digital and hard-copy originals

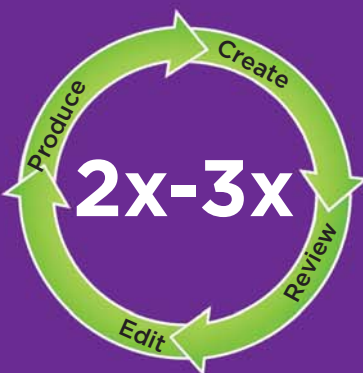
The MZ1090 easily converts any document to high-quality 2-color output—including digital files and hard-copy originals.

- The MZ1090's **Auto Color Conversion** process converts 4-color design files to 2-color digital output at unmatched production speeds. Integrated, on-the-fly editing makes last-minute color adjustments quick and easy.

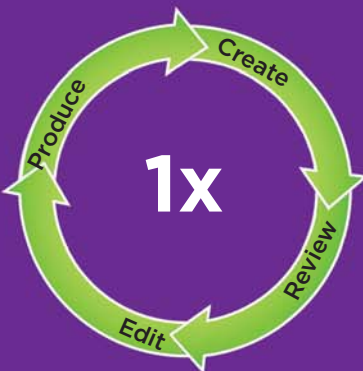
- RISO's **Easy2Color** feature provides editing capabilities to produce two-color prints from hard copy originals. Use one of four powerful, yet simple methods to add a second color: 1) from red and black originals, 2) by circling areas to convert, 3) handwriting new information in a second color, and 4) scanning two separate sheets to avoid marking up valuable originals.



Typical two-color design and proofing workflow



Design and proofing workflow for RISO MZ1090



- Produce more jobs**
New printer driver capabilities move virtually all pre-press activities from the duplicator to the PC design station, reducing pre-press and make-ready times by up to 50% and increasing machine availability to produce commercial-quality one- and two-color prints.

- Automate production**
Plug-and-Print capability automatically and immediately prints one or multiple saved jobs from a USB flash drive without the need for additional user intervention. Job ticket settings are pre-programmed off-line and print production is launched automatically, eliminating potential operator errors and maximizing productivity.

- Enhanced image quality**
The MZ1090's true 600 dpi output ensures that the finest details in type, photos, and line art are accurately reproduced. Improved drum-to-drum motion controls and advanced printer driver algorithms deliver smoother ink transfer and overall increased image quality.

- Minimize short-run printing costs**
Fully-integrated job preparation software reduces the number of proofing cycles, time manipulating document elements via third party graphic design software, and the number of resulting masters by up to 30%. A new ink saving mode reduces ink usage by up to 20% for cost-

conscious customers. Unlike two-color offset presses, RISO thermal master plates are digitally imaged, automatically loaded/unloaded and extremely low cost, delivering low cost, high-quality print runs up to 4,000 prints.

- Increased job flexibility and system dependability**
Automatically reverse the page printing sequence to enable faster off-line collation and finishing. Rotate pages 180° at the click of a button to reverse the lead-edge for jobs with high-density coverage, increasing paper feed reliability and reducing page-to-page set-off.

- Go green**
The MZ1090 is an ENERGY STAR qualified printer with extremely low power consumption. With over seventy soy-based ink colors, natural fiber masters, and a mercury-free LCD panel display, the MZ1090 provides an effective way to reduce your operation's carbon footprint.

- Monitor supply levels and more**
The RISO i Quality System™ offers a large number of quality and convenience benefits, including automatic assurance of optimal print quality from start to finish, prevention of operator errors, remaining levels of ink/masters, warnings of shortages in supplies, and indicators to aid in minimizing paper waste. Simply select the "info" button on the Basic Screen for a graphic of remaining consumables.