



M-Jet Systems For Film That's Fit to Print

Unequaled Output Quality and Reliability

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M-Jet Systems - Why are they Chosen?

- M-Jet is the complete “SYSTEM” approach for best output quality, reliability, and sustainable performance.
- M-Jet is an Industrial system built for easy field maintenance and drop-in component replacement.
- Over 360 systems installed in Graphic Arts for **Film Production**
- Full 2 year warranty on ALL parts and warranty extensions through year 5.
- Critical parts inventoried at MacDermid US facility.



M-Jet technicians have been providing field installation, training, and on-site maintenance since 1996 on over 360 systems producing Film



M-Jet Systems - Why are they Chosen?

- ALL components, film, software, hardware, and ink, are designed to work together for the best results possible.
 - Roland has opened technology to MPS and allows custom inks and films without effecting warrantee.
- Extensive on-site support and modular component swap capability to maintain customer uptime.
 - Routine Maintenance visits and emergency repair
- Constant improvement process promotes R&D of new hardware and software.
 - New films and Inks
 - Retrofit skew control hardware available



M-Jet Advantages - Flexo Customers

- Low cost of ownership
 - No maintenance expense for 2 years
 - Up to 5 years with extended Warranty
- Scalable system, Up To 4 printers driven from one CPU
 - Easy to expand as needs change
 - Back up unit dedicated to masks
 - Lower cost films etc.
- Waterproof, durable, **instant dry** to touch film
 - Film is dry without “stick-tion” issues
 - Kreen and cover film smooth easily over film



4th Generation RE-640 M-Jet Inkjet Film Output, 2014



M-Jet Advantages - Flexo Customers

- Linearization curves and press calibration
 - Optimization of output for screens and process in RIP
- Bulk black ink systems for lower cost
 - No More cartridges
 - 5 Ltr “Bag in Box”
 - Eliminates ink handling with other bulks systems
 - No air contact
- Clear Ink replaces color cartridges
 - Printer requires ink in all heads but no need to use expensive color cartridges \$35 vs \$115 for color
- 4 channels for redundant black output
 - 3 addition channels for back-up



- Roland VersaArt RE-640 Platform
 - Film widths 24” to 62” on 100 ft. rolls, 5 mil thickness
 - Optional non-tensioning infrared triggered take-up reel for length consistency
 - Special film hubs and rollers to maintain tracking and minimize skew
 - HP I7 workstation and 17” LCD monitor with 2 year replacement warranty
 - The best customer support of any film output system - guaranteed



M-Jet Film Output System
Roland RE-640



M-Jet Details

- Roland RE-640
- 64” max width
- 1 Single Piezo printhead with special gold plating and 8 channels - 2 for black
- Most accurate droplet placement of any production printhead
- Long lasting head life with M-Jet dye ink

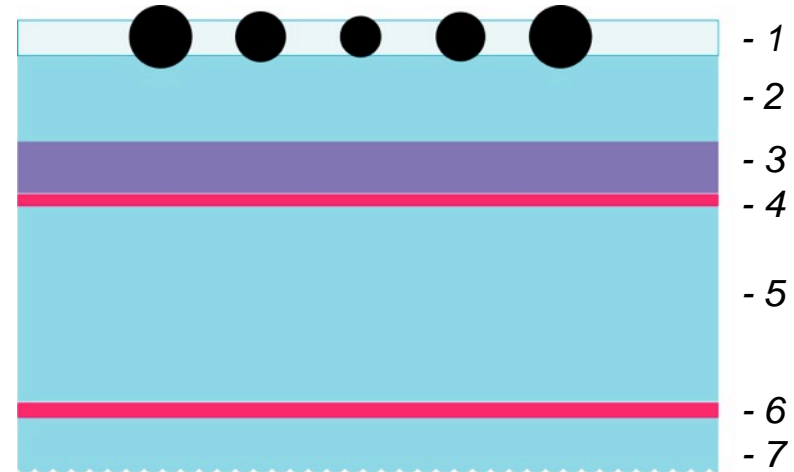


- Roland warranty support with M-Jet ink
- Extended warranties available year 3 to 5 at extra cost
 - Roland Factory warranty
- Scheduled preventative maintenance plans also available
 - Handled by MacDermid/ Autotype technical team.
 - 5 Technicians – 4 travel for on site visits and installations



M-Jet Inkjet Film

- M-Jet film is designed for quality line and dot images
 - High density = 3.5 to 4.0+ U.V.
 - **Instant dry** via encapsulation
 - Totally waterproof (submersible)
 - Anti static traction back coat, eliminates droplet deflection
 - 24, 36, 44, 50, 54, 62 inch widths – 100 feet long
 - Heat stabilized Polyester for excellent registration properties



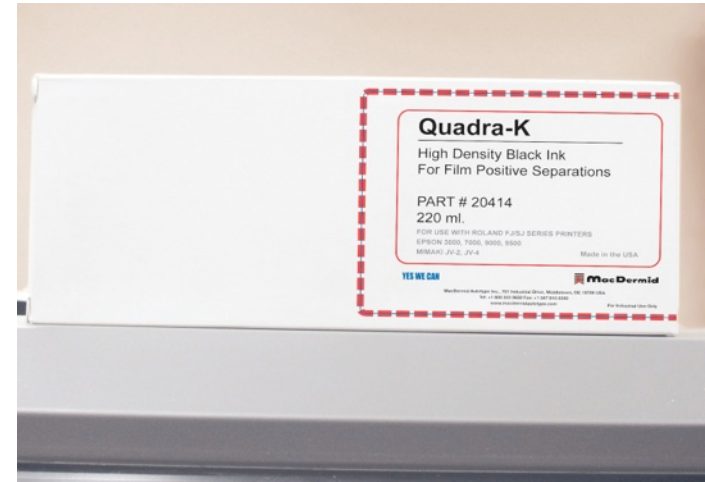
M-Jet micro encapsulation film - cross section

- 1 - Topcoat-receiving layer with matte particles*
- 2 - Absorption layer and micro-encapsulation*
- 3 - Blocking layer and seal to prevent spreading*
- 4 - Primer coat*
- 5 - Polyester base material*
- 6 - Primer coat*
- 7 - Anti-static back coating and traction enhancer*



Dye black, water-based ink

- Excellent halftone dot formation
 - Now up to 110 lpi
- Available in 220 or 440 ml cartridges, 5 liter boxes
- **Instant dry and waterproof** with M-Jet microporous film
- The **ONLY** aftermarket ink that is honored by Roland warranty
- Inexpensive M-Jet Clear ink available for the 3 redundant channels.



Wasatch RIP Software

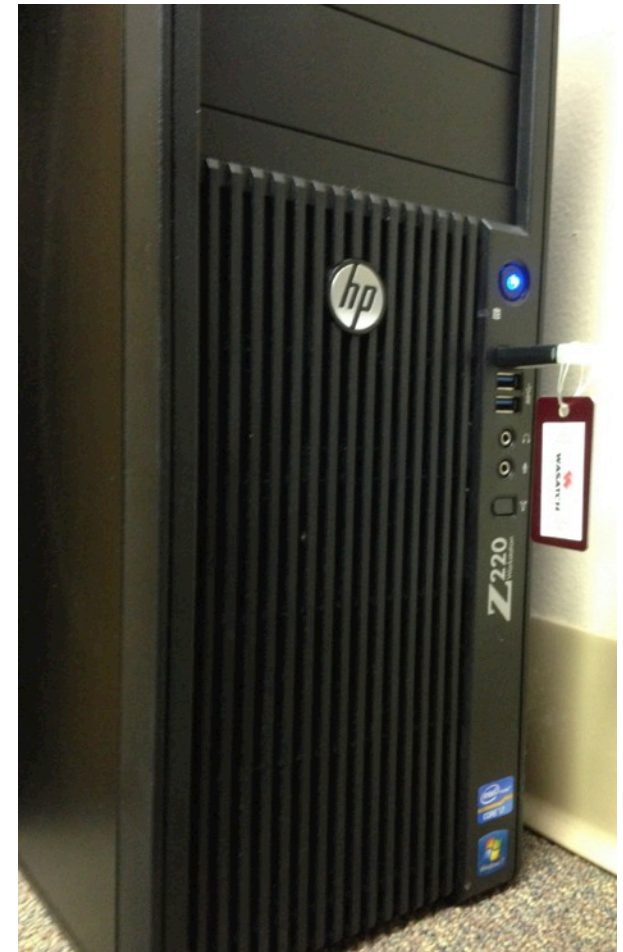
- Key Features
 - Special Monochrome drivers for film output
 - Ink volume/droplet control for correct density
 - Layout features for film savings
 - Automated masking output for liquid I-Plates
 - Auto-nesting and Manual nesting
 - Cropping and rotation
 - Distortion scaling
 - Custom production features
 - Calibrate to screen and press curves
 - True round dot precision rosette screening
 - Up to 110 line screen
 - Esko one bit tiff pass through capability



M-Jet Workstation Details

- Custom CPU is supplied with the system for remote serviceability.
- Warranty replacement during the first year if any failures occur. Free repairs to year 2
- High Performance Z220 HP with Intel I7-3770 processor, 1 TB HD, 8 Gigabytes Ram, dual ethernet*
- WIN 7 and 8 capability*
- Separate ethernet connections to office network and printer

*Components are periodically upgraded to maximize performance. Specifications as of January 2014.



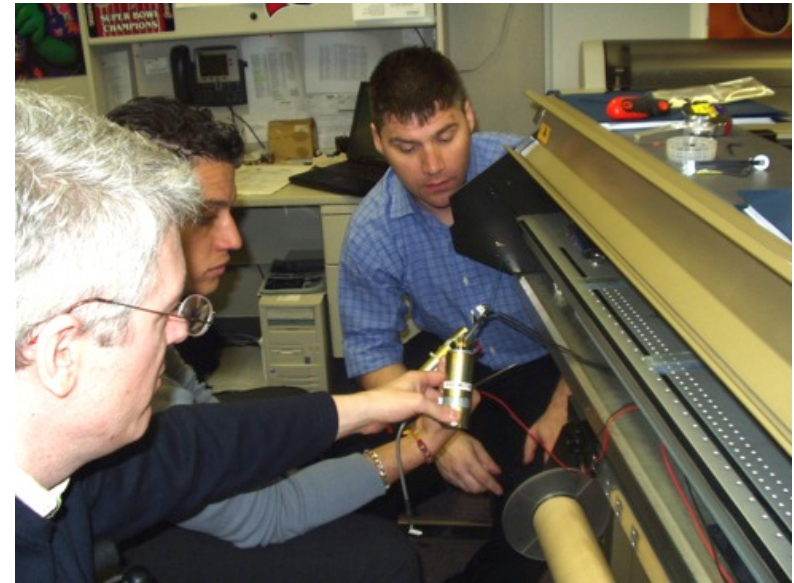
M-Jet Support

- Dedicated staff provides full time support for M-Jet only
- Full 2 day installation and operator training by experienced film output trainers
- A majority of the support staff has actual print production experience
- Phone support 8:30 am to 4:30 pm CST via M-Jet support staff



M-Jet Support

- Complete replacement parts inventory in Rolling Meadows Illinois for overnight shipping
- Technical bulletins, document library, FTP site, remote log-in control for RIP support
- 2 annual preventative maintenance visits included with systems
- Software support and RIP upgrades, workflow and front end support, on line support.



Thank You



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