

## Direct to Film (DTF) Transfer Printing System



**INDUSTRIAL  
COMPONENTS**

**FAST PRINT  
PRODUCTION**

**VIBRANT  
COLOR OUTPUT**

**CMYK+WHITE  
INK SET**



*M&R QUATRO 44<sup>™</sup> pictured with  
M&R QUATRO CUTTER X<sup>™</sup>  
(sold separately)*

The M&R QUATRO 44<sup>™</sup> Direct to Film (DTF) Transfer Printing System is a modern and efficient method of applying vibrant, high-quality durable images onto a wide variety of garments, and fabric types. The DTF process begins with the creation of a digital design on a computer. Once the design is finalized, it is printed onto a special PET film with a specialized digital inkjet printer using Cyan, Magenta, Yellow, Black and White pigmented aqueous inkjet inks. After printing is complete, and while the ink is still wet, the transfer is prepared by applying a layer of adhesive to the print area.

Immediately after the adhesive has been applied, the final construction of film, ink, and adhesive is prepared for the transfer process by running it through a high efficiency infrared drying system to cure the ink, and to fuse the adhesive to achieve a strong bond between the ink and the fabric, ensuring a durable and long-lasting print.

## FEATURES

- Vibrant, high-quality prints with excellent color accuracy and sharp details
- Compatible with a wide range of fabrics, including cotton, polyester, blends, spandex and nylon
- Requires less than 200 ft<sup>2</sup> of production space with only a single operator needed

The garment is placed on a heat press and lightly pressed to remove excess moisture and to ensure that the fabric is transfer receptive. The film transfer is then laid on top of the garment in the correct alignment. The heat press is used to apply both heat and pressure, which activates the adhesive and causes the design to transfer from the film onto the fabric. The heat and pressure also ensure that the ink penetrates deeply into the fabric fibers, resulting in vibrant and vivid colors.

Find more information and where to buy at: [www.mrprint.com](http://www.mrprint.com)



**QUATRO 44 High-Resolution Industrial Inkjet Printer comes with:**

- PC workstation with intuitive Graphic User Interface (GUI) and QUATRO RIP software - powered by CALDERA
- 4 x Epson i3200 print heads: 2 x CMYK and 2 x White
- Bulk ink system with white ink recirculation
- Print resolution (DPI), number of passes, and print production speeds:
  - 720 x 1800 DPI, 6-Pass, 90 Linear ft/hr
  - 720 x 2400 DPI, 8-Pass, 60 Linear ft/hr

**QUATRO 44 Combination Adhesive Application System and Quartz Infrared Dryer includes:**

- On-board bulk powder adhesive reservoir to promote continuous system operation
- Two base-mounted trays to capture excess powder adhesive for reuse
- Integrated exhaust filtration system
- Continuous temperature monitoring
- M&R's "Positive Link System" to ensure accurate film tracking between QUATRO printer, powder applicator and dryer

**QUATRO 44 System Consumables**

- QUATRO Inks are a joint development of M&R and our technology partner. All inks are manufactured in the United States to ISO 9001 quality standards.
- QUATRO PET Transfer Films and Powder Adhesives were selected after extensive testing to provide a cohesive ecosystem to ensure quality.
- QUATRO system purchase includes a startup kit of DTF print consumables (inks, powder and film).

**M&R'S PARTNERSHIP POWER**

M&R's partnership with our ink delivery system manufacturer

M&R's partnership with our ink and consumables manufacturer

M&R's years of dedicated hardware, system and technical support



*4 x Epson i3200 print heads;  
2 x for CMYK and 2 x for White*

QUATRO 44 TECHNICAL SPECIFICATIONS		Environmental Work Room Temperature	60 – 80°F (15.6 – 26.7°C)
Print Heads	4 x Epson i3200 Print Heads — 2 x CMYK, 2 x White	Environmental Work Room Humidity	40 – 60%
Print Resolution and Speed	720 x 1800 DPI, 6-Pass, 90 Linear Feet/Hour 720 x 2400 DPI, 8-Pass, 60 Linear Feet/Hour	<b>GENERAL SPECIFICATIONS</b>	
Color Mode	CMYK and White	Electrical Requirements (Printer and Dryer) <sup>1</sup>	230 V, 1 ph, 34 A, 50/60 Hz, 8 kW
Ink System	White Ink Auto Circulation Supply System	Printer Dimensions (L x W x H)	72 x 187 x 146 cm (28" x 74" x 57")
Ink Type	Eco-Friendly Water Based Ink	Dryer Dimensions (L x W x H)	187 x 112 x 103 cm (74" x 44" x 40")
Printing Media	M&R QUATRO DTF 24" PET Transfer Film (23.8" W x 328' L)	Required Minimum Work Space (L x W)	304.8 x 243.84 cm (10' x 8')
Media Transmission	Automatic Roll Out and Film Take Up	Recommended Work Space (L x W)	365.76 x 304.8 cm (12' x 10')
Interface	Computer and Operating Software Included	Printer Shipping Weight	397 kg (876 lb)
Included RIP Software	QUATRO RIP - powered by CALDERA	Dryer Shipping Weight	542 kg (1196 lb)

<sup>1</sup> If incoming voltage differs from the voltage(s) listed in this brochure, calculate amperage accordingly.

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