Developed for paper sublimation paper

MTEX DRAGON

Staggered Head
8 / 16

Quality Mode
720
dpi

Production Mode
137
lm/h

Print Width
1,9
mts

Technical Data

Head
Konica Minolta

Head Height
Adjustable 1.5 - 5mm Z motor

DAP DOT ADVANCED POSITIONING

REAL TIME DATA

Resolution
From 360 up to 1440 dpi

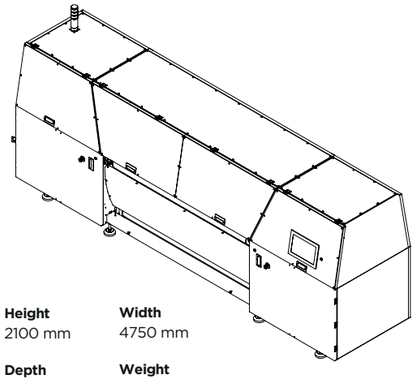
Drop Size
Variable
3 / 11 / 16 pL

Ink
Disperse / Pigment

Colors
4 / 8 colors
CMYK
CMYK OB+FL

Rip
Open System

Print Speed
68 - 550 sqm/h



Height 2100 mm
Width 4750 mm
Depth 1800 mm
Weight 2900 Kg

Electrical & Compressed Air Connection Requirements

Machine power plug: CEE (3P+N+E) 32A
Installation power plug: Socket CEE (3P+N+E) 32A
Machine main circuit protection: Differential Switch 4P, 40A, 300mA
Circuit protection at installations (recommended): Circuit breaker 4P, 50A
Machine power consumption: 18000 watts
Work pressure: 6 Bar - Airflow: 50 l/m

Recommended Environment

Guaranteed temperature: 20º C to 25º C
Humidity: 35 to 65% Rh (No condensation)
Temperature range: ± 10º C/h or less
Dust: Equivalent to normal office level (dust-free and well ventilated)

Unbeatable speed with high-quality at industrial grade

Developed for sublimation paper

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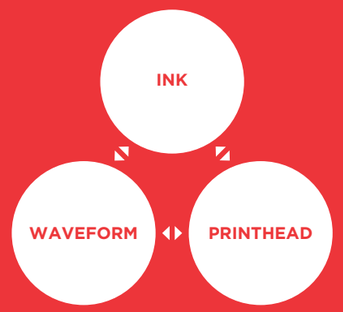
DAP

DOT ADVANCED POSITIONING

Dot Advanced Positioning

DAP is an integrated system between the waveform, printheads and ink that enables automatic head alignment for maximum precision and lowest ink consumption. By offering a proprietary waveform rather than a generic one it guarantees an advanced control over the printheads which results into an unmatchable drop accuracy and consistent print results. DAP delivers its promise: the lowest ink consumption and maximum precision to obtain the highest quality output.



REAL TIME DATA i4

Manufacturing Intelligence for the Next Industrial Revolution

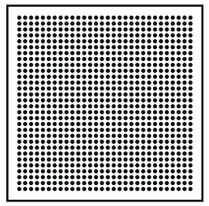
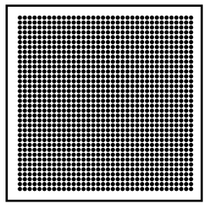
Better business decisions start with the best customers' intelligence.

MACAW is a unique intellectual property software designed to bring you a complete, end-to-end solution that addresses the specific needs of your business. This predictive software enables through a single unified interface to manage real time your stock, consumables and media over your production. It's an intuitive and powerful solution capable of giving precise ink consumption, energy saving, preventive maintenance, integrated database, robust reporting, and navigation capabilities.

Technical Benchmark

Resolution

+31% +Dots

OTHERS	MTEX
	

Printhead

+17% Nozzles

OTHERS	MTEX
1 Head 110 mm / 600 dpi 1328 nozzles per channel	**2 Heads** 110 mm / 720 dpi 1600 nozzles per channel

Application - Speed & Quality mode

FABRIC	RESOLUTION	SPEED/H	MODE
FASHION	720*720	137^{lm}	QUALITY
SPORTS	720*720	73^{lm}	HIGH QUALITY
SOFT SIGN	360*720	137^{lm}	PRODUCTION

Ink and Drying systems specifically developed to print onto coated and uncoated transfer papers with low ink consumption.

Printer Details

Magnetic Linear Motor

Provides high acceleration / deceleration ratios with extremely high accuracy of 1mic, no maintenance, no gearbox or belts.

Printhead Control Technology developed and certified by MTEX

All electronics were specifically designed and integrated with MTEX firmware and software.

Designed and Engineered Degassing System

This allows the ink to be transported from the bottles to the print heads and only being degassed as close as possible to the print head.

8 bottle capacity, for 4/8 colors configuration

with 4 colors configuration, we can install 2 bottles per color and automatically switch from empty bottle to filled bottle on the fly.

Two modular winder solutions

Option A winder and unwinder for rolls up to 500mm diameter and 300kg

Option B winder and unwinder for rolls up to 300mm diameter and 200Kg

Vaccum & Dryer system

Vacuum table automatically adjusted to print speed.

Contact drying with adjustable temperature.

Intuitive User Interface

- Live monitoring of production and machine parameters at a glance.
- Preview, Hotfolder, Queuing, print history, ink consuption per job, print speed, print temperatures.
- Operator warning with recommended procedures to follow in real time.

Speed Chart

16 HEADS 04 COLORS

1 PASS	2 PASS	4 PASS	8 PASS
263 lm/h 360x360 dpi	137 lm/h 360x720 dpi	73 lm/h 720x720 dpi	36 sqm/h 720x1440 dpi

08 HEADS 04 COLORS

1 PASS	2 PASS	4 PASS	8 PASS
118 lm/h 360x360 dpi	68 lm/h 360x720 dpi	36 lm/h 720x720 dpi	18 lm/h 720x1440 dpi