

Paragon Orchestra Printer

Roll To Roll Digital Press

*Rainbow
Computer
Technology at
a Glance*



Equipment

Printers
Inserters
Pre / Post



Service

Preventative
Maintenance
Professional Services



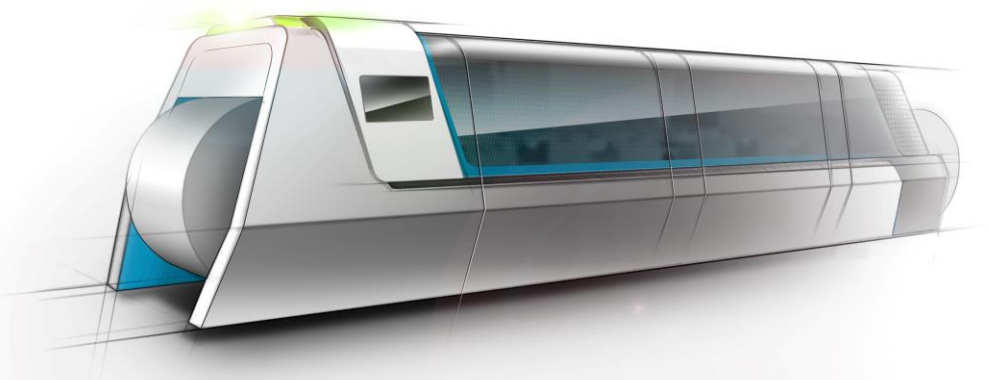
Parts

Engines Belts Rollers
Print Heads Fingers
Filters Springs



Consumables

Ink / Pigment
Toner
Developer



Paragon Orchestra Printer

A new approach to printing!

The Paragon Orchestra Printer is a high-speed digital press, with an inline **unwinder**, and **rewinder**.

Paragon Orchestra the first to market all-in-one print solution

Unwinder | Twin Engine Duplex Printer | Rewinder

With the Unwinder and Rewinder built into the printer, the Harmony software seamlessly operates all components of the printing process. This frees up valuable floorspace while helping you achieve your printing goals, all while lowering your overall spend!

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Features

- Immediate Print – Prints while RIPping - RIPs Any File Size
- Optional 'Track the Splice' Technology to Minimize Paper Waste
- Optional inline coating system
- Processes IJPDS & PDF
- Supports a wide range of inks to exceed print expectations – our ink technology reaches up to 98.5% of the pantone color set.
- Proprietary 4 chambered system filters, recirculates & degasses ink allowing for continuous clean print 24hrs/day
- Advanced INK Consumption Technology Provides Lowest Cost to Print!
- Print from 0 to max speed and jetting frequency adjusts according to speed. With no waste!

Highlights:

- Piezo Drop on Demand newest print technology
5 Picoliter, 7 Picoliter, 12 Picoliter; allows for high quality picture reproduction
- CMYK, Micr + more!
Aqueous Dye | Pigment [Great for coated & uncoated stocks] | Micr Ink |
UV Inks | Polymer Ink | Security Ink - fluorescent inks | Quantum Dot Inks

Base Unit Dimensions

- 31.17 ft long by 8.85 ft wide

Digital Front End

- Harmony Software runs on hardened operating systems with tight security guidelines

Web/Print Width

- Maximum PAPER Web: 540 mm (21.25")
- Maximum PRINT Web: 525 mm (21")

Paper Weight

- 60-160 g/m²

Print Data Format

- IJPDS & PDF

Paragon Orchestra

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System Specifications



PARAGON

Performance

Color

4-color (CMYK), MICR
Spot Color Management
Native 3.5 picolitre drop
Dynamic variable drop sizes available,
from 5-12pl
Aqueous Pigment Ink, 20-liter Container
ICC based color management
98% Pantone Color Match

Printhead

Kyocera's Most Reliable Head; KM1800i
Piezoelectric Drop on Demand
Automated head cleaning – purging, wiping, capping
Inline Primer Unit Included, 100L container

Speed/Resolution

600x600 dpi @ 656 ft/min (100 mpm)
600x900 dpi @ 436 ft/min (133 mpm)
600x1200 dpi @ 328 ft/min (200 mpm)

Throughput

1346 A4 duplex ppm @ 600x600 dpi
673 A4 duplex ppm @ 600x1200 dpi

Paper Handling

Print Width: 21" (525 mm)
Paper Width: 21.25" max (540 mm)
Unwinder: Center Driven
Rewinder: Center Driven, including pressure roller
Paper Weights: 60 – 160 gsm
Web Cleaner & Web Guide included!

Paper Types

Coated and uncoated stocks
Porous - with primer, pinless

Recommendations

Duty Cycle: 10-40 million A4 impressions per month
Copies per job: >500 copies per job

Print Controller

Technology

Industry Standard RIP engine,
Print job starts while file is still RIP'ing

File Inputs

PDF, PDF-FT, PDF-X, IJPDS

Digital Front End – Harmony Software

Hardware Platform

PowerEdge640 Server
CPU: Intel Xeon Silver 4214R, RAM: 64 GB RDIMM, 2933 MT/s
OS: Windows Server 2019
Resistive Touchscreen
24" Wide LCD TFT – 16:9 (Full HD) 1920-1080
Mouse/Keyboard integrated into machine cover

MMI (Man-Machine Interface)

Single Screen operation for machine and job management
Easy to use, touch friendly
Global Graphics Harlequin Host Renderer v12, single instance
Harlequin Parallel Pages™, for faster job processing (*optional*)
Harlequin Scalable RIP for processing multiple jobs at the same time (*optional*)
Advanced Inkjet Screens™
Extensive font substitution and emulation capabilities
Automatic mono/color & simplex/duplex depending on selected Print Heads to use

Data Formats

PDF (including ISO 32000-1 and ISO 32000-2 PDF 2.0)
PDF/X-1a, PDF/X-3, PDF/X-4 & 4p PDF/X-5g & 5pg
PDF/VT-1, PDF/VT-2

Job Management

Hot folder job submission
Intuitive job sorting
Sequential print

Color Management

ICC based, v2 and v4 support
Selectable rendering intents
Black point compensation
Independent Ink Limits for CMYK
Linearization
Selectable target profiles
Ink Estimation

Environmental

Footprint; Unwinder, DFE, Printer, Rewinder + Paper Roll!

31.17 ft x 8.85 ft x 6.8 ft (L x W x H)
9.5m x 2.7m x 2.1m

Weight; Unwinder, DFE, Printer, Rewinder + Paper Roll!

19,290 lbs. | 8750 kg

Operating Environment:

68-78.8°F | 20-26°C
40-60% RH noncondensing

Operating Noise:

Less Than 78 dBA