

*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 Ensemble Printer

Digital Press



Paragon Ensemble Printer

The Paragon Ensemble Printer is a premier digital printing press and is ready to be the integral piece of your printing operation.

Whether you are printing checks, books, posters or magazine layouts, the Paragon Ensemble is here to exceed your expectations.

It is a traditional print engine that will print simplex or duplex, and is based on an open press foundation, so it will work in concert with any pre/post equipment on the market today.

Paragon Ensemble Printer

Traditional Digital Press

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Features

- Immediate Print– Prints while RIPing - 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!

Specifications:

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

Resolution Print and Finishing Speed

- 600x600 dpi:
1300 duplex A4 sheets | 2600 images
500 feet per minute
2-up (portrait)

Base Unit Dimensions

- 18' x 8.85'

Digital Front End

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

Web/Print Width

- Maximum PAPER Web: 550 mm (21.65")
- Maximum PRINT Web: 540 mm (21.25")

Paper Weight

- 60-160 g/m²

Print Data Format

- IJPDS & PDF

Paragon Ensemble

High Speed, CMYK Digital Press

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)
Paper Weights: 60 – 160 gsm

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

Operating Environment:

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

Operating Noise:

Less Than 78 dBA