

*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 Grand Symphony Printer

Roll To Cut Digital Press



Paragon Grand Symphony Printer

The Floor Space Maximizer!

Paragon Grand Symphony Printer is an expansion of the revolutionary Paragon Symphony Printer. It is also an entirely encased print AND finishing line solution, but the Grand Symphony prints 2-up on a wider web of paper. It contains an inline **unwinder** that unwinds the web to go through a **twin engine duplex printer**, then flows directly to the inline **cutter** and **offset stacker**, then out on the **conveyor**.

The **Paragon Grand Symphony** features:

Unwinder | Twin Engine Duplex Printer | Tensioners | Dryers |
Vertical & Horizontal Perforator (*optional*) | Slit/Merge | Cutter | Off Set
Stacker | 4' Conveyor

Reduce floor space by almost **ONE HALF** of traditional
print & finish lines!

Paragon Symphony: **33 ft**

Equivalent Traditional Print & Finish Line: **OVER 70 ft**

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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
- CMYK, 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 Cutting Speed:

- 600x600 dpi:
492 duplex A4 sheets | 1428 images

Base Unit Dimensions

- 33 ft long by 10 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 Grand Symphony

Roll to Roll Digital Press

System Specifications



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, 50-liter container

Speed/Resolution

600x600 dpi @ 492 ft/min (100 mpm)
600x900 dpi @ 492 ft/min (150 mpm)
600x1200 dpi @ 328 ft/min (100 mpm)

Throughput

1428 A4 duplex ppm @ 600x600 dpi
952 A4 duplex ppm @ 600x1200 dpi

Paper Handling

Paper Width: 21.25" max (540 mm, max)
Print Width: 21" (525 mm)
Unwinder: Center Driven
Paper Weights: 80 – 160 gsm
Web Cleaner & Web Guide included!

Paper Types

Coated and uncoated stocks
Porous - with primer, pinless

Recommendations

Duty Cycle: 12-18 million A4 impressions per month
Copies per job: >500 copies per job

Physical

Footprint; Unwinder, Printer, Dryers, Perforator, Cutter & Stacker!

33 ft x 10 ft x 6.5 ft (L x W x H)
10m x 3m x 2m

Electrical; 208-240V, 50/60Hz; also available 400/480V, 50/60Hz

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 dB