Adobe PDF Print Engine

The rendering platform for the Adobe PDF print experience

CREATE   **MANAGE**   **PRINT**
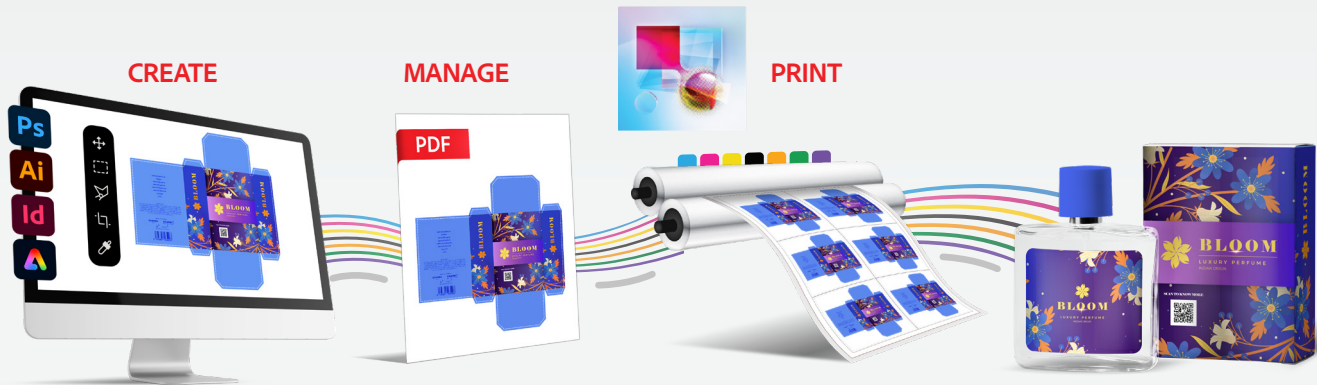
Advanced color capabilities	Performant and robust architecture	Industry-leading print quality	Dynamic workflow capabilities	Power to customize

The Adobe PDF print experience starts when a job is designed in Adobe Creative Cloud applications, managed in Adobe Acrobat, and then rendered for print by Adobe PDF Print Engine. This end-to-end Adobe workflow maximizes the potential of every press. Adobe PDF Print Engine powers print production across all industry segments, driving over 200,000 presses and proofers around the globe: offset, gravure, flexographic, inkjet, electrostatic, and nanographic. PDF Print Engine is built on a performant and robust architecture that delivers advanced color capabilities, industry-leading print quality, dynamic workflow capabilities, and the power to customize.

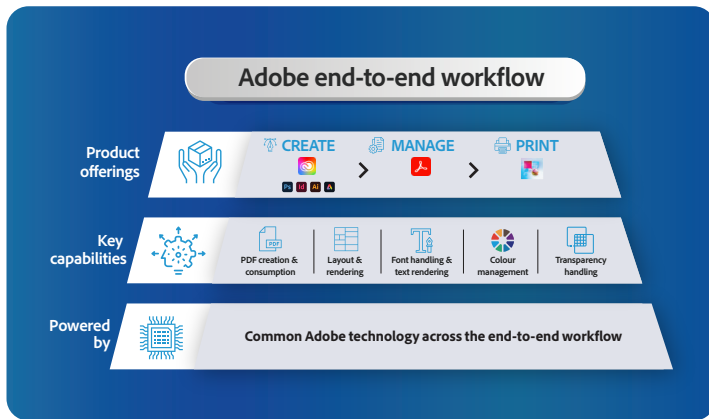## What's new in Adobe PDF Print Engine?

Fewer steps. Smarter workflows.

Adobe PDF Print Engine 7

Adobe PDF Print Engine 7 accelerates productivity and automation by embedding prepress and postpress intelligence inside the RIP. By executing key functions directly in the rendering pipeline, it reduces interactive prepress touchpoints and dependence on specialized skill sets—enabling more automation and faster throughput. The result: greater efficiency and faster production across the prepress pipeline. These capabilities accelerate high-volume custom printing, web-to-print submissions, direct-to-garment jobs, and a wide range of industrial and packaging workflows.

- in-RIP multicolor transparency blending
- in-RIP merging of variable product data
- in-RIP rendering of Adobe Photoshop and Illustrator job files
- in-RIP bleed generation

- in-RIP cutline expansion
- in-RIP white mask generation for printing on metallic substrates
- New performance and scalability enhancements

Reliability = Predictability + Consistency

Adobe end-to-end Workflow

Adobe PDF Print Engine renders PDF and image files created in any authoring application. Jobs designed in Adobe applications such as Photoshop, Illustrator, InDesign, and Express benefit from the same core Adobe technologies throughout the production lifecycle. This end-to-end integration ensures maximum reliability, visual consistency, and predictability from screen to print. PDF Print Engine offers the highest levels of efficiency, precision reproduction, and vibrant, full-spectrum color, making it the most dependable foundation for high-quality print production.

Every market segment

- Packaging and label printing
- Textile and garment printing
- Industrial printing and embellishing
- Graphic arts and commercial printing
- Digital production printing
- Large format printing
- Variable data printing
- Proofing

Every job type

- Connected packaging
- Manufacturing – Direct to Object
- Apparel - Direct to Garment (DTG) and Direct to Film (DTF)
- Consumer packaged goods
- Signage & display
- Security printing
- Photobooks
- Customer correspondence / Direct mail
- Brochures
- Books and publications
- Graphically rich content from any authoring application
- CAD, GIS maps, architectural blueprints

Tech specs

Solutions
- Hardware DFE (Digital Front End)
- Software RIP
- Prepress workflow system
- Raster preview
- Proofing
- Industrial printing

System requirements
- Intel i5/i7/Xeon or higher/Mac M1 or higher/AMD Ryzen 3 PRO or higher
- RAM: 1 GB minimum, 2 GB+ recommended for each PDF Print Engine instance
- Hard disk required

Input file types
- PDF, PDF 2.0, PDF/X-6, PDF/VT-3
- PostScript (via Adobe PDF Converter SDK)
- TIFF and other image formats
- Job ticketing via JDF

Operating systems (64-bit only)
- Windows 10 Enterprise
- Windows Server 2016, 2019
- Ubuntu 20.04 LTS
- Mac OS X 11.2.3

Parallel processing
- Mercury RIP architecture branding and certification
- Dynamic distributed RIP models for the latest high-end multi-core, multi-blade, networked cluster, RIP farm, and multi-press systems
- Tile parallel processing for large format jobs
- Maximum use of concurrency across interpretation and rendering

For more information

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