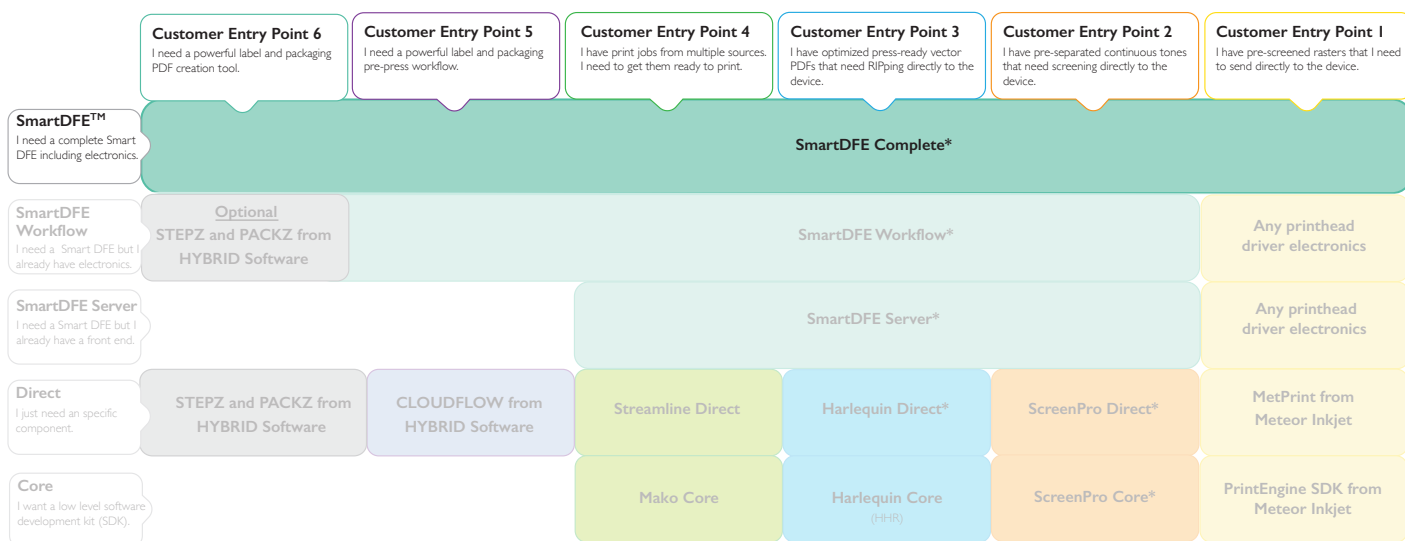




The **complete** software and printhead electronics stack for high-speed, single-pass, label and packaging inkjet presses. Connected via OPC UA to the wider factory and designed to run fully variable jobs continuously 24/7, enabling predictive maintenance and Industry 4.0. Delivered as a collection of innovative and market-proven components that enable your engineering team to get to market quickly whilst giving them the space and capability to add their own value.



**SmartDFE Complete Components**

SmartDFE Components	SmartDFE complete	SmartDFE workflow	SmartDFE server
Smart Print Controller™	●	●	●
SmartMedia™	●	●	●
Smart Print Profile Editor™	●	●	●
Smart Job Cost Estimator™	●	●	●
Direct QI™	●	●	●
PrintFlat™	◐	◐	◐
Harlequin Direct™	●	●	●
CoPrA™ and ColorAnt™	●	●	●
Streamline Direct™	●	●	●
CLOUDFLOW® Mars App	●	●	
STEPZ®	◐		
Meteor Datapath	●		

● Included as standard

◐ Included with all variants apart from "Static"

## Features and benefits

### Smart Job Creation and Business Software

#### HYBRID Software Inside (STEPZ®)

##### Smart Job creations:

- Designed for Labels & Packaging
- All-in-one solution for prepress and VDP – based on PDF
- Optimized PDF creation for on-the-fly printing at full speed
- Define templates for dynamic document design
- Export die cut for toolmarking

#### HYBRID Software Inside (CLOUDFLOW®):

- Advanced workflow using the full HYBRID Software CLOUDFLOW product
- Support for Management Information Systems (MIS)
- Advanced workflow designer
- Variable Data expansion
- Multiple printer control
- Cloud front end

#### Smart Job Cost Estimation software

- Equip your customer's sales team with the most accurate job estimation software

#### Smart Print Controller

- Press Operator's controller
- Full, brandable front end supplied as C# source code so that you can add your own value
- Write your own user interface within weeks using the OPC UA API
- Industry 4.0-enabled to connect with smart manufacturing and cloud data services

#### SmartMedia Inside:

- Create a library of predefined media definitions describing all the settings needed to get perfect color and quality
- Enable your customers to achieve the best quality without the need for print specialists
- Powered by the award-winning PrintFlat technology taking inkjet quality to the next level
- Enhanced with industry-leading color tools from ColorLogic
- See the user guide for supported scanners and color measurements devices

### OEM Tools (not for distribution)

**Smart Printer Profile Editor:** Create a definition of your new digital press.

**Smart Media Manager:** Create a library of Smart Media Definitions (SMDs) for distribution with your new digital press.

#### Direct Inside (Harlequin Direct):

- Harlequin at Heart: designed to drive the fastest, widest and highest resolution inkjet devices
- Full variable data streamed directly to the device electronics
- Instant printing, no need to RIP ahead
- Supercharged by ScreenPro™ with advanced inkjet-specific screens and custom screen design service
- Stream data directly to inline inspection systems using Direct QI
- Easily scalable with extended gamut and special colors
- Near real-time quality adjustment based on camera system feedback. No need to stop the device

#### Direct Inside (Streamline Direct):

- Estimate the achievable line speed before committing to run a job
- Optimize the job to achieve a higher line speed
- Intelligently configure the system for each job
- Convert formats to optimized PDF including (IJPDS and PPML)

#### Meteor Inside:

- Powerful printhead-independent drive electronics
- Choose the right inkjet printheads for your application
- Change your mind about inkjet printheads with minimal risk
- NozzleFix™ technology, keeps the printer printing
- Complete range of industrial inkjet print heads supported
- Simulate output before you are ready - saving ink, media and production time

### Four Variants

- **Static:** A single PC running all the software and generating a static raster which will be printed many time
- **Standard Data Rate (SDR):** (up to 3GB/s) Designed for less demanding variable data, lower resolution, narrower and lower speed presses
- **High Data Rate (HDR):** (between 3GB/s and 18 GB/s) Designed for most common variable data and mainstream press capabilities
- **Ultra-High Data Rate (UHDR):** (above 18 GB/s) Designed to produce the huge amounts of data generated by fully variable data on the fastest, highest resolution, widest and best quality inkjet printing presses
- For devices that are configured for extended color gamut support, the minimum variant of SmartDFE is Standard Data Rate (eg CMYKOG, CMYKOV and CMYKOGV would be Extended Color Gamut and would require either SmartDFE Standard Data Rate (SDR), SmartDFE High Data Rate (HDR) or SmartDFE Ultra-High Data Rate (UHDR))

### BreakThrough Service

- Add our engineers and scientists to your engineering team to get you shipping sooner
- Break through any barrier slowing your route to market
- Buy a block of days which is 100% recoverable against licenses as soon as you ship, making the service effectively free

### Localization

- SmartDFE has been built to be easily localized by the OEM.
- Examples are supplied in US English and Japanese

### Licensing

- SmartDFE licenses against a single printing device using the OEMs own security and licensing system



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