Presstek 75DI®
31" Multi-tower Digital Offset Press
31" Digital Offset Press

The Presstek 75DI delivers true offset performance in an all-digital workflow

Presstek DI digital offset presses are highly automated integrated systems that provide the speed and efficiency of digital printing while delivering the versatility, quality, and productivity of offset printing.

Featuring our most advanced DI technology in a multi-tower design, Presstek 75DI models are a proven solution for efficiently and profitably printing a wide range of work in runs of 500 to 20,000. 75DI presses can be configured to provide the price/performance level your operation requires.

**Features**

- Go from digital file to sellable color in as little as six minutes
- Chemistry-free plates are simultaneously imaged in register and dry cleaned in just two minutes without operator intervention
- Smart inking feature presets ink keys to supply the right amount of ink to the rollers to match the image
- Superior waterless printing with less dot gain and a broader color gamut
- Print Pantone® color inks, varnishes and coatings in-line
- Print on any offset stock, including onion skin, cover stock and cardboard up to 0.031" (0.8mm) thick, foils, and synthetic paper
- 31.02" × 23.62" (788mm × 600mm) sheet size accommodates a wide variety of layout options.
- Press speeds to 16,000 sph
- Multi-tower design—4- to 6-colors
- In-line aqueous coater option
- Additional press automation options facilitate nearly hands-off job changes and daily maintenance routines
Digital Speed and Offset Quality
File direct to high quality, multi-color sheets in as little as six minutes

With extreme automation and on-press media imaging, a Presstek 75DI enables you to go from a digital file to sellable sheets in as little as six minutes. You can print on demand, turn around jobs faster, and raise productivity in both your prepress and pressroom while reducing operating costs.

Because Presstek 75DI presses are able to meet conventional offset printing specifications for ink and stock, they offer far more capabilities and higher quality for short-run and fast turnaround printing than digital toner and ink jet presses can provide.

### Business Advantages
- Significantly higher throughput than comparably priced digital toner and ink jet presses
- Greater profitability than conventional offset on short and medium run lengths
- Consistent up-time with no duty cycle for 24/7/365 operation
- No click charges
- Easily print rush jobs and accommodate last minute changes
- Eliminate all the labor, equipment, steps and variables associated with off-press platemaking
- Minimal prep time; more printing time
- Consistent, easy-to-achieve high quality offset output
- Accommodate nearly any job in the marketplace, regardless of size, page count, run length, inks, or stock
- The ideal solution for short run, fast turnaround folded carton printing

### Waterless Offset Yields Higher Quality, More Accurate Color
DI waterless printing provides higher quality color with higher ink densities that expand the color gamut and produce more saturated color.

When printing with a Presstek DI press, dot gain is reduced because the press eliminates the need for dampening solution. The dots are sharper and photographic shadow detail is rendered more clearly. Screen rulings of 200lpi are easily reproduced and the color is consistent.

Waterless printing provides a 20% larger color gamut than conventional printing.
Presstek 75DI Digital Offset Press
Automated, all-in-one digital offset system

Imaging and Printing Features Combined for Unparalleled Performance

A Central Control
The operator easily controls all press functions at the console. Job previews enable easy job identification and selection. Operators can load and prepare the next job in line while production of the previous job is still underway.

B Auto Start Up
23 ink keys per unit are preset from the digital data for quick and easy job setup with reduced waste. Rollers have been cleaned automatically at the end of the last job and are ready for inking.

C Auto Plate Advance and Mounting
Spooled ProFire Digital Media is automatically dispensed and mounted on the plate cylinders. Used plates are automatically transferred to take-up spools. Each spool contains enough plate media for 23 full-size jobs.

D On-press Imaging
The imaging units simultaneously image all plates at 2540 dpi (100 dots/mm). Multiple laser diodes are directed through a single lens for precise balance and high accuracy.

E Simultaneous Plate Cleaning
Prior to inking, plates are cleaned automatically as part of the imaging process. This automated operation facilitates fast throughput and high print quality.

F Automatic Blanket Cleaning
Blankets are automatically cleaned. This automated operation allows the Presstek 75DI to quickly begin printing at full-speed and move quickly from job to job.

Presstek 75DI-AC: Digital Offset with In-line Coating
Presstek 75DI models are available with fully chambered anilox coating systems. Aqueous coating increases the value of a printed piece, shortens drying time for even faster turnaround, improves bindery throughput, and protects finished pieces. Flood and spot coating are supported.

1 Printed sheets are transported for in-line coating in one pass.
2 Anilox metering precisely measures and controls the amount of coating, reducing waste, speeding delivery, and improving the quality of the printed sheet.
3 Coating is applied to the blanket (flood coating) or pre-imaged photopolymer flexo plate mounted on the blanket cylinder (spot coating).
4 Impression cylinder picks up sheet for coating and completes the automated, integrated printing and coating sequence.
5 Air knives and infrared drying expedite completion.
6 When disengaged, the coating unit can be accessed while the press is printing. The coating reservoir can be refilled, the coating cylinder can be cleaned, and blankets or flexo plates mounted for the next job without losing press time.
From its on-press imaging systems and automated make-ready features to its fast press speeds and precision printing, the Presstek 75DI is built to meet the rigors of short lead times, frequent job changes, and high throughput—day after day.

Cylinders supported by ultra-precise bearings, precision induction hardened helical gears, and heavy cast-iron side frames to support these components, ensure the highest accuracy, reliability and durability year after year.
The Highest Quality Printing by Design
A superior reprographic system

Optimum Performance
The exceptional efficiency and quality of DI presses are the result of three Mark Andy technologies—press design, laser imaging and thermal plate media—working together as a highly automated system that produces outstanding output.

High Resolution Imaging
The Presstek 75DI’s on-press imaging component employs multiple laser diodes deployed through a single lens. With a 16-micron beam size, Presstek 75DI imaging produces high resolution images of exceptional quality. Fine details, color fidelity, minimum screen values, subtle gradations, and large solids are all produced with results that meet the most demanding offset printing needs.

ProFire Digital Media
Presstek ProFire Digital Media is manufactured specifically to optimize the performance of Presstek DI presses. The highly engineered thermal reaction of lasers and plate media results in fast imaging with extremely well defined details and halftone dots.

On-press thermal laser media imaging eliminates variables of off-press platemaking. While the imaging head (at right) is working, cleaning devices (at left) simultaneously prepare the plate for inking.

Program Inking: Quick Job Starts and Quality Assurance
Program inking delivers job-specific ink zone data from the digital file directly to the 75DI press, automatically presetting ink keys, ink fountain roller speed, and the number of contacts by the ink ductor roller to assure the optimum ink volume. The result is that first sheets are near sellable color, and final color is achieved quickly with minimal operator adjustments and waste.

Program inking automatically supplies the correct amount of ink to the ink rollers to match the image.
Streamline Production

Easy integration into your digital workflow

Conventional Offset Workflow

Computer — Platesetter — Plate Processing — Plates — Offset Press

Chemistry and maintenance

Manual or automatic plate mounting and registration

1+ Operators — 1+ Operators — 2+ Operators

DI Digital Offset Workflow

Computer — Presstek 75DI

Easy to Integrate

A Presstek 75DI easily integrates into your digital workflow. It is simply positioned as a high performance output device on your existing network.

The Auto Print Mode initiates all necessary steps for a complete print cycle. The selected job will have plates advanced and imaged, and printing started without any operator intervention.

DI digital offset printing is a perfect solution for today’s on-demand, short run business models—where output devices must produce a steady stream of digital multi-color printing, with minimal steps and few interventions.

Personnel will easily transition to DI press operation. Mark Andy’s training experts will have your operators working at full potential soon after installation.

A Smaller Environmental Footprint

Many businesses have chosen DI presses, in part, to meet their environmental goals, as well as those of their customers. Using no platemaking chemistries or fountain solutions, DI presses eliminate tainted wastewater from printing operations and significantly reduce VOC emissions. In addition, the speed and automation of DI presses significantly reduces the paper waste that results from other offset methods.
### Presstek 75DI Specifications

**Printing Stock**
- **Sheet Size**
  - Maximum: 31.02” × 23.62” (788mm × 600mm)
  - Minimum: 10.98” × 7.87” (279mm × 200mm)

**Maximum Print Format**
- 29.92” × 22.83” (760mm × 580mm)

**Stock Thickness**
- 0.0016” – 0.024” (0.04 mm – 0.6mm); Optional 0.031” (0.8mm)

**Orientation**
- Landscape

**Imaging System**
- Laser: Multi diode, single lens / one per tower

**Image Resolution**
- 2540 dots/inch (100 dots/mm)

**Imaging Time**
- All plates imaged simultaneously in two minutes

**Spot Size**
- 16 microns

**Plate Media**
- **Plate Material**: ProFire Digital Media

**Plates Per Roll**
- 23 full format

**Screen Ruling**
- Up to 200 lpi — FM (stochastic) and 300 lpi dependent on job

**Run Length**
- 20,000 impressions

**Printing**
- **Maximum Printing Speed**
  - 16,000 sheets per hour

**Number of Colors (Towers)**
- 4 – 6 color (tower) models

**Inking Process**
- Waterless offset

**Ink Keys/Rollers**
- 23 ink keys per unit; 18 ink rollers per tower

**Form Rollers**
- 4 per tower

**Standard Features**
- Automatic pre-setting, automated blanket cleaning, wash-up device and temperature control

**Impression Cylinder Cleaning**
- Automation optional

**Feeder**
- **Feeding System**: Rotary type stream feeder

**Feeder Board**
- Suction

**Feeder Pile Capacity**
- 31.5” (800mm)

**Infeed System**
- Underswing gripper and feed drum

**Delivery Pile Capacity**
- 36.42” (925mm)

**Electromechanical**
- **Input Power**: 3-phase 200 VAC 50/60Hz or other voltages

**Lubrication**
- Automatic centralized oiling system

### Presstek 75DI-AC Specifications

(All specifications are the same as above other than those noted below)

**Maximum Coating Area**
- 29.92” × 22.83” (760mm × 580mm)

**Coating Device**
- Anilox metering

**Drying**
- Six infrared dryer lamps

**Infrared Lamp Power**
- 29.4 kW (4.9kW × 6)

### Dimensions

![Dimensions Diagram](image)

1. Limitations may apply depending on paper types.
2. Actual numbers will be affected by ink and paper conditions.
3. Dimensions do not include console, air compressor and other peripheral devices.

Product specifications are subject to change.

Printed on a Presstek 75DI with inline aqueous coating.

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**Expert Service: Your Trusted Partner**

Mark Andy is committed to providing you the highest levels of service and support for your Presstek products. Mark Andy’s unparalleled expertise in laser imaging technology combined with our extensive service experience brings you the leading support in the industry. Expert installation, training and maintenance will support your investment, so it will pay dividends quickly and reliably for years to come.

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**G7 Qualification for Presstek DI Presses**

Mark Andy’s G7 Experts can provide your business with G7 Master Printer qualification. This method was created by IDEAlliance and is the gold standard for defining the factors needed to produce accurate gray balance and predictability on press.

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