colordyne
technologies

CDT 3600 Series

The Next
DISRUPTION
in Digital Color Printing

CDT 3600 Series Laser Pro

DARE TO COMPARE . . .

Resolution | Speed | Cost

The CDT 3600 Series provides the latest in Memjet™ technology along with proven closed loop tension control technology and is available with low cost inline finishing options and configurations. The innovative product also brings several benefits to the Production Class Digital Color Printing System including, but not limited to, enhanced print quality; increased resolution of 1600 x 1375 dpi; drastically reduced RIP times; speeds up to 225 ft/min (69 m/min); and a more user-friendly interface. The CDT 3600 Series web handling system also provides flexibility and modularity for custom configurations and future faster speeds.

Colordyne is focused on providing continued innovation, made possible through a modular printing platform that is designed to be upgraded as future product enhancements become available; providing a flexible and responsive long term investment in digital color printing.

Print Engine & Workflow
VALUE ADDED BENEFITS

- Enhanced print quality: Send uncompressed files directly to the print engine
- More powerful RIP: Faster data processing
- Job chaining abilities: Switch print jobs continuously without stopping the machine

- RIP and print on-the-fly: Eliminate time to first label
- Industry-standard Harlequin RIP (HDS) Frequency Modulation (FM) Screening
- PDF workflow: No need to change file formats
- 55 L ink tanks per color an option

Performance Specifications

- Resolution: 1600 x 1375 dpi
- Rated Speed: 225 feet per minute (69 meters per minute)
- Registration Tolerance: +/- 0.001"
- Full-Bleed Tolerance: +/- 0.001"
- Die-Cut Tolerance: Based on sensor and die station spec

Imaging Technology

- Print Method: Memjet™ Inkjet Technology
- Ink Delivery System: Up to 5 colors: CMYK or CMYK plus 1 spot color (Spot color available as a custom quote, subject to certain color gamut requirements)

memjet.™ Printhead Technology

Driven by a passion for invention and a desire to change an industry, Memjet is a global leader in color printing technologies that provides remarkable speed and affordability. Memjet supports Colordyne's products with revolutionary printing technologies and components.

- 70,400 nozzles per printhead
- 1.2 picoliter (pL) drop size
- Waterfall™ printhead technology
- Compact single-pass, page-wide printing

RIP and Color Management

Xitron's Navigator RIP, a leader in Harlequin RIP solutions, is known to excel in performance, reliability and value. The easy-to-use graphical interface guides projects through the RIP for output onto the 3600 Series Production Class Printing System and is compatible with popular software packages.

Web Handling System

- Rated Speed 300 FPM (91 MPM)
  - Web handling system (WHS) rated for higher speeds to accommodate for future printing speed enhancements
- Minimum Media Width 2" (50.8 mm)
- Maximum Media Width 10" (254 mm)
- Maximum Print Width 8.64" (219.45 mm)
- Minimum Media Caliper 0.001" (.025 mm)
- Maximum Media Caliper 0.012" (0.3 mm)

- Optional Maximum Material Thickness Up to 0.022"
- Tension Range 1 to 5 PLI (2 to 50 lbs.)
- Servo Driven Web Guide Control, Accuweb ultrasonic web guide - Tolerance +/- 0.015
- Rewind and Unwind 30" maximum diameter cantilevered unwind and rewind, 3" diameter inflatable spindle (Larger diameters optional)
- Media Types: Aqueous inkjet-compatible material
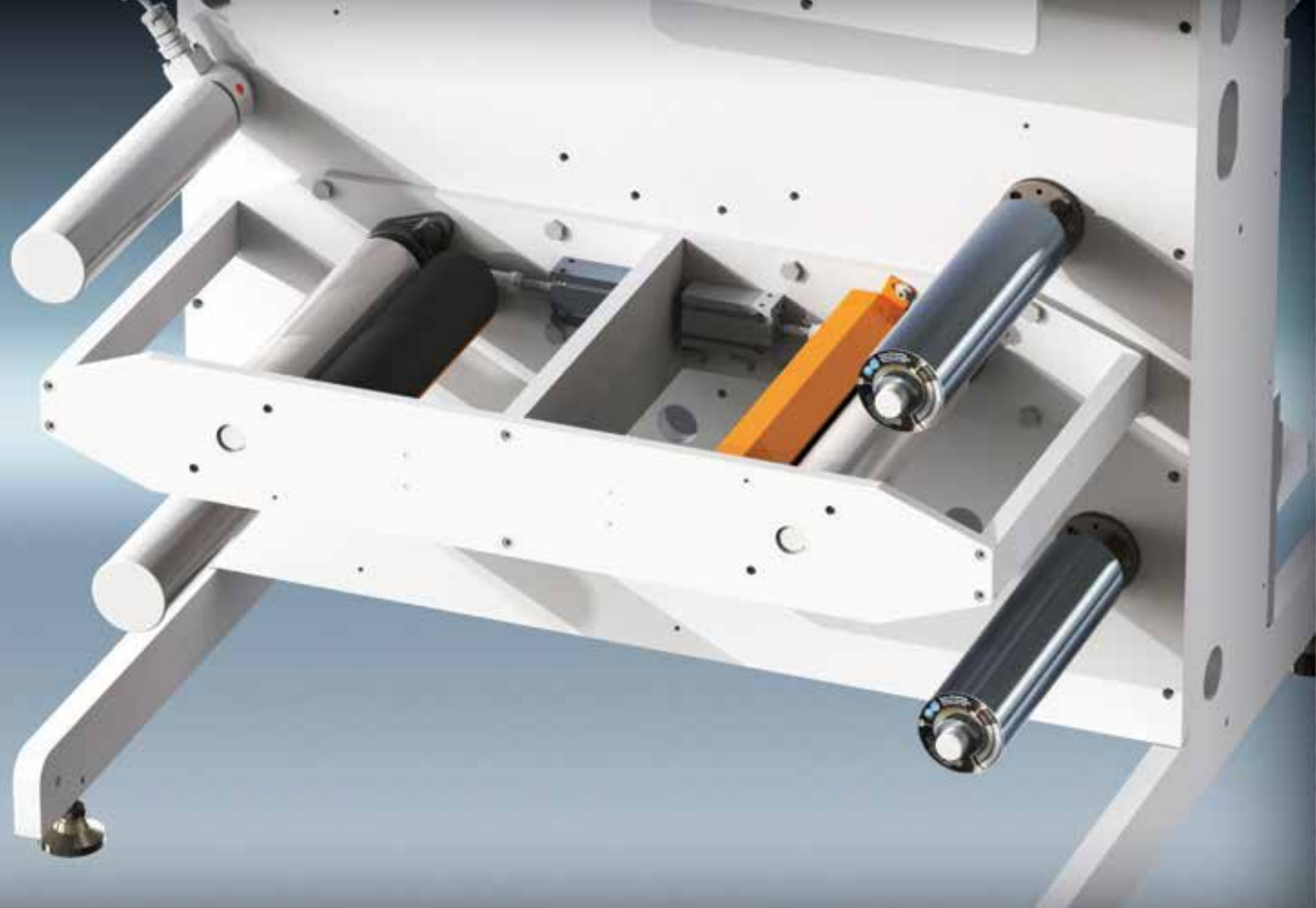- Power Requirements 400-480 VAC, 3 phase with neutral

DIMENSIONS
- Laser Pro: L: 22' 7" W: 5' 7" H: 5' 8"
- Rotary Pro: L: 19' 8" W: 5' 7" H: 5' 8"
- Sprint: L: 10' 1" W: 5' 7" H: 5' 8"

OPERATING ENVIRONMENT
- Operating Temperature 59° to 95°F (15° to 35°C)
- Humidity 20-80% (RH/non-condensing)
- Atmospheric Pressure 70 kPa to 106 kPa product enhancements

*Actual running speed will be dependent upon the print job inks, drying, substrate, operating adjustments and specific job limitations.

PCMC SERVO DRIVE
TECHNOLOGY

The servo drive web handling system, manufactured by Paper Converting Machine Company (PCMC) allows the 3600 Series press to handle a variety of different substrates and substrate thicknesses. The servo control system communicates directly to the operator for display and control via the main user interface.

PC **Paper Converting Machine Company**

A BARRY-WEHMILLER COMPANY

3600 Series
SPRINT

The CDT 3600 Sprint is an entry level, roll-to-roll printing system capable of printing full-bleed on die-cut media – ready for label applicator equipment. Alternatively, you can print on continuous rolls of media and complete the job offline on existing web finishing systems.

BASE CONFIGURATION

- Unwind/rewind: 30" (762 mm) capacity
- Cantilever 3" (76 mm) dia. core chuck
- Integrated web guide (Accuweb) with Ultrasonic edge sensor and splicing table
- Non-contact Web Cleaning System utilizes an ionized air boost to neutralize static electricity. This eliminates the electrostatic field; thus polarization, releasing contaminants for instant vacuum cleaning in one highly efficient action. The web cleaner thoroughly neutralizes and cleans any web in a single operation, the first time through.

3600 Series
ROTARY PRO

The CDT 3600 Rotary Pro expands the Sprint model into a full-featured digital label and tag production system offering complete in-line printing, laminating, varnishing (aqueous or UV), rotary die cutting, and rewinding. Additional available options increase system versatility and flexibility even further.

BASE CONFIGURATION

MATERIAL UNWIND

- 30" (762 mm) roll capacity
- Cantilever 3" (76 mm) dia. core chuck
- Integrated web guide (Accuweb) with Ultrasonic edge sensor and splicing table

NON-CONTACT STATIC WEB CLEANER

- Non-contact web Cleaning System utilizes an ionized air boost to neutralize static electricity. This eliminates the electrostatic field; thus polarization, releasing contaminants for instant vacuum cleaning in one highly efficient action. The Web cleaner thoroughly neutralizes and cleans any web in a single operation, the first time through.

FLEXO PRINT STATION

- Repeat range 6" to 24"
- Removable ink drawer with anilox and doctor blade
- Nip roll for lamination
- Optional air drying system
- Optional UV lamp system
- Optional chill roll for unsupported film applications
- Optional IR heating elements

LAMINATION UNWIND

- 24" roll capacity
- Pneumatic adjustment of tension
- Capable of running self-wound adhesive backed laminates or UV curable
-

ROTARY DIE CUTTING

- 24" max repeat rotary die cutting station
- 24" max repeat rotary die cutting/ sheeting station

WASTE REWIND

- 24" roll capacity
- Waste stripping roll
- Optional RD Scorer

REWIND

- 30" (762 mm) roll capacity
- Cantilever 3" (76 mm) dia. core chuck
- Web break detection system
- Configurations for slitting with dual rewind capabilities are also available

3600 Series
LASER PRO

The CDT 3600 Laser Pro is a modular full-featured process color digital label and tag production system housing a precision web handling system and LaserSharp® laser cutting technology that is integrated with a Memjet™ technology print engine, to enable labels and tag production to be more flexible, cost-efficient and customizable than ever before.

BASE CONFIGURATION
MATERIAL UNWIND

- 30" (762 mm) roll capacity
- Cantilever 3" (76 mm) dia. core chuck
- Integrated web guide (Accuweb) with Ultrasonic edge sensor and splicing table

NON-CONTACT STATIC WEB CLEANER

- Non-contact web Cleaning System utilizes an ionized air boost to neutralize static electricity. This eliminates the electrostatic field; thus polarization, releasing contaminants for instant vacuum cleaning in one highly efficient action. The Web cleaner thoroughly neutralizes and cleans any web in a single operation, the first time through.

FLEXO PRINT STATION

- Repeat range 6″ to 24″
- Removable ink drawer with anilox and doctor blade
- Nip roll for lamination
- Optional air drying system
- Optional UV lamp system
- Optional chill roll for unsupported film applications
- Optional IR heating elements

LAMINATION UNWIND

- 24″ roll capacity
- Pneumatic adjustment of tension
- Capable of running self-wound adhesive backed laminates or UV curable

LASERSHARP® LASER DIE CUTTER

- Zero-maintenance 400W laser
- 270 mm x 270 mm process area
- Vacuum work support housing with multiple idlers
- LightGuide™ PC-based User Interface Software
- Instant Order Change
  - Barcode reader (1D and 2D)
  - Automatic order change LightGuide™ module
- LaserSharp® Ripping Engine (LRE)
  - File / Job verification of each file processed
  - Determine maximum web speed for the part to process successfully
  - Convert job file (layered pdf) to a .lsx file format for the laser
  - Match laser process parameters with the layers of the .pdf file
  - Automatic print registration for Eye-Mark or Vision Registration
  - Automatic Tiling – supports infinite length artwork.
  - Automatically apply transformations to the die lines needed for processing such as Rotation and other
- Vision Registration
  - X/Y correction
  - Accuracy of up to ±0.008 in.

WASTE REWIND

- 24″ roll capacity
- Waste stripping roll
- Optional RD Scorer

REWIND

- 30″ (762 mm) roll capacity
- Cantilever 3″ (76 mm) dia. core chuck
- Web break detection system
- Configurations for slitting with dual rewind capabilities are also available

Additional finishing options and optional service contracts available. Contact your Colordyne Sales Representativefor more information.

CDT 3600 Series Laser Pro

Headquartered in Brookfield, Wis., Colordyne Technologies™ (CDT) is a leading manufacturer of efficient, high resolution digital print solutions powered by Memjet technologies. Since 2011, CDT has been committed to providing label and tag color on-demand inkjet printers for a wide range of applications and industries at breakthrough speeds and cost effectiveness. CDT's wide range of digital color platforms – from benchtop industrial color printers to complete, in-line finishing production presses – demonstrate CDT's specialization in scalability of the industry's most versatile products. Visit www.ColordyneTech.com for additional information.

colordyne technologies™

Powered by **memjet**

262-784-1932 | www.colordynetech.com | sales@colordynetech.com