Since 1978, GATF has sought to promote an awareness and understanding of advanced technology in the graphic arts through its InterTech Technology Awards program. The InterTech Awards are a prestigious honor for companies that have developed or promoted a new technology with a proven yet not widely used industrial application that is expected to have a major impact on the graphic communications industry within the next five years.

This year we are pleased to present the 1995 InterTech Technology Awards to the Adobe Color Central™ OPI and Print Server Software from Adobe Systems, Inc.; the Baldwin IMPACT™ Automatic Blanket Cleaner and Press Cylinder Cleaner from Baldwin Graphic Products; the COLORTRON™ Digital Color Sensor from Light Source Computer Images, Inc.; the Heidelberg Computer-to-Press Digital Imaging Technology from Heidelberg Druckmaschinen AG; the TechNova NovaDom™ Computer-to-Press-to-Plate System from TechNova Imaging Systems Limited; the 3M Rainbow™ Desktop Color Proofing System from 3M; and the Xeikon DCP-1 Digital Color Press from Xeikon.

An award selection committee composed of GATF members who are technical experts in the industry chose the seven 1995 winners from a total of twenty-three entries submitted to the Foundation by May 31, 1995. Each company receiving an award will introduce its technology during the first joint PIA/GATF annual conference in October.

This presentation booklet features descriptions of the award-winning technologies and all other 1995 nominees. Winners are indicated by an InterTech star in the text.

Over 80% of the previous winners of the GATF InterTech Technology Awards are in use today in the graphic communications field. We strongly encourage all companies to share their latest in “smart” technology with the industry by submitting entries for the next GATF InterTech Technology Awards. Contact Richard D. Warner, GATF Research Fellow and Director of Research for further details.

John A. Young, Jr., Chair
GATF Board of Directors
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1995 GATF InterTech Technology Awards

Winners:
Adobe Color Central™ OPI and Print Server Software—Adobe Systems, Inc.

As an OPI image and print server, this 1995 InterTech Technology Award winner plays two roles in the prepress process. First, it replaces high-resolution scanned images with low-resolution substitutes and then re-links them to the files during color separation. Secondly, Color Central™ takes advantage of the centralized image management and fast printing made possible with OPI.

With this server software, it is possible to spool PostScript language files from any source, regardless of computer platform, and configure each output device to the resolution, line screen, and screen angle that best suits the job by assigning multiple queues to the same device.

Color Central™ was the first such product to address workflow concerns in the familiar Macintosh environment that many users prefer. For those companies working in a PC environment, the Windows NT version brings the power and reliability of the UNIX platform to the desktop.

Through this product, Adobe Systems pioneered the use of a graphic interface for image server functionality and enabled users to complete profitable color production work on the desktop. Before the introduction of Color Central™, the amount of time spent working with memory-intensive files kept production costs high.

Adobe Color Central serves as a crucial link between other Adobe prepress solutions and PostScript output. Its degree of automation keeps jobs moving and devices printing without operator intervention.
Baldwin IMPACT™ Automatic Blanket Cleaner and Press Cylinder Cleaner
—Baldwin Graphic Products

Winner of a 1995 InterTech Technology award, the Baldwin IMPACT™ Automatic Blanket Cleaner and Press Cylinder Cleaner eliminates hand cleaning and increases available press operating time, while helping printers satisfy OSHA regulations, reduce annual solvent VOC consumption, and, on web presses, produce a significant reduction in waste signatures during press blanket cleanings.

The three main components of the IMPACT™ cleaning system are a cleaning head for each cylinder to be cleaned, a controller with an international, symbol-based operator panel, and fabricated air/electrical umbilical lines connecting each cleaning head to the controller. The cleaning media and cleaning agent are combined into prepackaged, ready-to-use, replaceable cartridges called PREPACSTM.

To bring the PREPACSTM media in contact with the cylinder to be cleaned, the cleaning head uses an inflatable air pad. The contact “stripe” is set at installation by adjusting the cleaning head position and the air pressure inside the air pad (about 10 psi). Contact is made for a programmed amount of time (one pad-on) and then the media is advanced and a second contact “stripe” is made with the cylinder. This process is repeated until the select number of “pad-ons” is completed.

Press operators using the IMPACT™ system simply have to select the units to be cleaned and then choose the degree of cleaning required according to the type of work being printed. This cleaning system does not require that operators learn complex software programs. It also does not rely on solvent pumping, solvent and water manifolds, spray bars, filters, or dispensing control mechanisms. PREPACSTM provides a significantly more precise cleaning agent distribution than spray bars or dispensing mechanisms.

With IMPACT™ in place, a six-color, 28-in. press will consume only 12 pounds of VOCs per year . . . a reduction in solvent consumption of 70% and of up to 95% in VOCs per press per year when compared to conventional cleaning systems or competitive automatic blanket cleaning and washing systems.

The 1995 InterTech Technology award winners include the COLOTRON™ Digital Color Sensor developed by Light Source Computer Images, Inc. COLOTRON™ is a hand-held color measurement instrument that captures colors with 32-band precision to create an exact spectral curve uniquely identifying colors from a complete range of sources, including reflective and transmissive targets.

An innovative optics/electronics design makes COLOTRON™ a true constant-bandwidth spectrophotometer. This ensures that each measurement across the color spectrum is accurate and repeatable. COLOTRON’s exclusive autoranging feature adjusts measurement time based on the luminance of the target color, resulting in consistency throughout a wide range of dense and high-key colors. The optical system also takes into account depth of field to compensate when taking single or averaged measurements from uneven surfaces such as textiles.

COLOTRON™ comes with tools specifically designed for use at each stage of the creative and production process. Colors captured by COLOTRON™ are stored in Palette Documents to communicate exact color specifications in digital form. The Palette Document is an EPS file that can be transported digitally throughout the entire color production workflow. The COLOTRON™ instrument, Toolset, and Palette Documents are also directly accessible from within applications that support the Apple Color Picker.

Modular, tool-based software architecture allows users to add new tools and color libraries from Light Source and other developers. Several COLOTRON™ tools that support Apple’s ColorSync 2.0, the updated color management architecture for Macintosh computers, are available. The measurement foot on the COLOTRON™ instrument can be detached and replaced with accessories that provide measurement capabilities for different targets.

Light Source’s COLOTRON™ also received a Mac User Editor’s Choice Award earlier this year. In 1994, it won a Seybold Award for Excellence and a Publish Impact Award.
Heidelberg Computer-to-Press Digital Imaging Technology
— Heidelberger Druckmaschinen AG

This 1995 InterTech award winning technology is designed for the economic production of high-quality multicolor offset prints for short runs and high productivity (up to 10,000 prints per hour). Heidelberg’s newest entry, Quickmaster direct-imaging technology transfers the digital data describing the total pages to be printed directly into each printing unit for plate imaging.

The printing system includes a raster image processor (RIP), file server, and a four-color press. The RIP is controlled with PostScript data supplied by common prepress application software such as QuarkXpress or Pagemaker. Functions like job spooling and queuing make the transmission of print jobs to the Quickmaster DI very simple. Digital Equipment’s Alpha Chip with 64-bit RISC architecture ensures that the RIP does not become a bottleneck. A two gigabyte job buffer is supplemented by another page buffer on the printing press to eliminate extensive waiting periods.

All four of the color plates are imaged simultaneously with an array of sixteen infrared laser diodes. An addressability level between 1270 and 2540 dpi can be chosen. Total imaging time for all plates is six minutes at 1270 dpi. Plates are supplied in rolls and the plate cartridge, sufficient for 35 jobs, is located inside the plate cylinder.

Imaged printing plates are automatically washed-up inside of the printing press. Total makeready and production of 500 sheets takes approximately 15 min. including plate changing, imaging, cleaning, press setting, and printing. Sheet formats range from 5 1/2 × 3 1/2 in. (140 × 89 mm) to 18 1/8 × 13 3/8 in. (460 × 340 mm).

Heidelberg-DI presses are the first offset printing presses that image printing plates directly in the press. The Quickmaster-DI represents the third generation of Heidelberg direct-imaging technology as developed jointly with Presstek, Inc., using their PEARL technology. It incorporates all of the technology and marketing experiences gained with the GTO-DI over the past three years.
TechNova NovaDom™
Computer-to-Plate-to-Press System
—TechNova Imaging Systems Limited

The central component of this 1995 InterTech Technology award winner is a double-sided polyester plate that can be imaged on a laser printer or photocopier before going direct-to-press without any further processing. Images captured or created on a computer can be output directly onto both sides of the NovaDom™ plate just as a paper copy is created. The plate can then be mounted directly on the press for run lengths of approximately 10,000 impressions from each side.

Over 20,000 impressions per plate side are possible by simply passing the imaged plate through a NovaDom™ desktop conveyor baking unit. With recommended laser printers, four-color process work using conventional screens as well as stochastic screens can be completed on a page size with an 18-in. (457-mm) width. NovaDom™ can also be imaged on a plain paper copier with similar run—length performance.

On the press, NovaDom™ is fully compatible with the conventional inks, washes, etc., used with metal and silver-based plates. Imaging is a totally dry and environmentally friendly process. Run lengths of unbaked plates have been steadily upgraded with 10,000 impressions per side achieved in a DRUPA demonstration.

NovaDom™ can also be imaged by drawing or writing on it with the NovaDom™ pen and using the conventional wipe-on process, i.e., wiping on a sensitizer, exposing through negative film, and applying developer. It can even be imaged on a letterpress machine.

This product can help small offset print shops regain some of their lost shares of the short-run, single-color market. They can use a digital color copier for the shortest of runs (100 copies) and the NovaDcm™ for their longer runs.
3M Rainbow™ Desktop Color Proofing System — 3M

3M has received a 1995 InterTech Technology award for its Rainbow™ Desktop Color Proofing System. This system includes proprietary software and a thermal-dye sublimation proofer that makes continuous-tone, 17 1/5 x 11 9/10-in. (437 x 302-mm) proofs (two full pages, plus bleed) directly from PostScript files created on a PC or Macintosh. It can also accept files in Scitex CT, Photoshop (RGB and CMYK), TIFF (RGB and CMYK), and TIFF/IT-P1 formats. A Shira interface, which enables the Rainbow system to proof files from high-end CEPS, can be purchased separately.

System software version 4.0 includes a “RIP-on-the-fly” feature that eliminates the need to wait for files to spool, RIP, and print separately. Instead, these activities take place simultaneously, maximizing productivity and providing a significant time savings. Version 4.0 software also increases color capabilities by allowing direct RGB proofing and supporting up to eight color separations, the latter of which is a unique feature among thermal-dye sublimation printers.

User-selectable and user-definable color control scale operation makes it possible to print the job file name, date and time of production, and information about the Rainbow color table and the color calibration ribbon selected directly on the proof. RIPped files are compressed when saved and automatically decompressed for later proofing without image degradation. The RIPped files can also be sent to remote locations for proofing without duplicating the RIPping process. In addition, the software is compatible with the ANSI IT8.8 TIFF/IT file format, the new standard for direct-digital advertising printing.

The Windows version of the Rainbow software is based on Adobe's Configurable PostScript Interpreter (CPSI) Level 2, a software-based RIP that resides in a PC workstation and performs the language rasterization function typically completed in a raster image processor embedded in an output device. This version also includes an export plug-in module for direct proofing from Adobe Photoshop. The Power Macintosh version was specially designed to take full advantage of RISC-based technology.

3M Rainbow proofs, which simulate the company's Matchprint™ proofs, retain all trap and overprint information and approximate the printed page as closely as possible without halftone dots. A proof with 300 continuous-tone pixels per inch can be produced in as little five minutes.
Xeikon DCP-1 Digital Color Press
—Xeikon

The 1995 InterTech Technology Award-winning Xeikon DCP-1 print engine contains two sets of four printing units (CMYK), which all print in unison to create the Xeikon One Pass Duplex Color process. Each of these electrophotographic printing units uses an LED-array as an imaging device, directly fed from digital data. By using gray scale (variable density) spots in the screening process, images are printed at a screen frequency of over 150 lines per inch, while maintaining the capability of producing over 200 levels of gray per color, giving high-quality output.

Featuring web-feed paper input/variable length sheetfed output, the Xeikon DCP-1 is capable of printing signatures in standard or custom formats. It produces full-color process jobs at a speed of 35 duplexed A4 pages per minute making it a fast full-color web digital printing press.

Users can print on a variety of paper stocks, both coated and uncoated, up to 200 gsm in weight. The Xeikon DCP-1 allows A3 web printing with a full bleed. The web-feed approach provides for many potential applications. For example, one user has printed vivid window dressing banners on the Xeikon at short notice and in small numbers.

Fitting easily into digital prepress environments, the workflow within the Xeikon DCP-1 is simple: data from network or local disk is processed by the RIP and is sent to the spooler disk in compressed format, residing there until needed. Just prior to printing, data is downloaded from the spooler disks to the image memories that hold the separations. These image memories, in turn, send data in real-time to the writing heads in the print engine. All three steps in this process can be performed simultaneously: while file 1 is processed by the RIP, file 2 is downloaded into image memory, from which file 3 is currently being printed.

The Xeikon digital press is fully compatible with direct PostScript input from all standard prepress platforms, as well as through Barco servers with native high-end prepress formats, such as Scitex, Hell, or Barco. This provides the industry with a fast “on-demand” production machine that can fit easily into the majority of today’s print environments. It can transform a digital file into a short-run “delivered print” within one hour. It can also switch from one job to another without halting production.
1995 GATF InterTech Technology Awards

Nominees:

Adobe TrapWise™ creates proper traps for any color-conforming EPS file and for multipage PostScript files that adhere to Adobe’s Document Structuring Convention (DSC). Trapwise™ uses a software-based RIP to translate a PostScript file into a proprietary bitmap graphics format, analyze the file, trap its components, and create a new PostScript file that contains all of the original’s information plus trap information. This technology allows TrapWise™ to analyze all edges in a PostScript file, apply a highly refined set of trapping rules to them, and generate traps for any edge that needs one.

Because it performs on the bitmap level instead of the object level, TrapWise™ generates the proper color-to-color trap anywhere one is required on a page, no matter how many objects, blends, embedded images, or rules are present. Since TrapWise™ is not restricted to the boundaries of a PostScript object, it can simultaneously spread and choke around the same object simply by following the edge and comparing colors to determine the proper trap at every point along the line.

Creo Thermal Imaging System—Creo Products, Inc.

The Creo Thermal Imaging device can be integrated into computer-to-plate or computer-to-press systems and is capable of imaging data directly on thermally activated printing plates, films, or press cylinders. At DRUPA, the thermal laser head was used to expose the new Kodak thermal plate and the Presstek processless dry thermal plate.

With the Creo System, printers can choose between visible light and thermal imaging without purchasing a new output device or compromising speed and quality. This thermal imaging device uses 240 independently modulated channels to provide very high-speed imaging while maintaining low-revolution speeds for the exposed cylinders. The minimum spot size of 5 microns allows for imaging quality as high as 600 lines per inch.
Crescent/42 Platesetter™
—Gerber Systems Corp.

Gerber's Crescent/42 Platesetter™ can produce high-quality, 8-up offset plates for process-color work. Its technical advantages include a blue argon-ion 488 nm laser, patented parabolic deflection mirror and drum, and superior motion control system.

By completely automating traditional stripping, imposition, and platemaking into a single step, the Crescent/42 eliminates the use of film, darkrooms, and vacuum frames and reduces the environmental pollution associated with printing chemicals. It can image onto various types of media, including aluminum printing plates, polyester plates, and graphic arts films. Four variable image resolutions—1240-3810 dpi—and screen resolutions up to 250 lines per inch are available.

GUTENBERG™ Computer-to-Plate System
—Linotype-Hell Co.

Linotype-Hell's GUTENBERG™ Computer-to-Plate System enables fully automatic direct imaging of aluminum plates for multicolor printing. Its internal drum technology features an integrated punch system and a long-life ND YAG laser. Customized registration solutions for sheetfed and web work are also available.

The GUTENBERG™ can run up to five plate formats ranging from 15 7/10 × 20 in. (400 × 510 mm) to 32 5/10 × 42 in. (825 × 1070 mm). It supports PostScript Level II imaging and uses Linotype-Hell's proprietary HQS® and Diamond Screening® technology for crisper detail and less moiré. Output resolutions of 1270, 1692, 2540, 3386 dpi are possible.
Heidelberg CPC 21 Spectrophotometric Printing Quality Control System
—Heidelberger Druckmaschinen AG

The Heidelberg CPC 21 is a colorimetric-based scanning system for closed-loop ink control (during makeready and production runs) with color control bars for offset printing. It can take a reference value from any original and create a comparison of measured patches that produces results that correspond to human color perception. This equipment can be connected online with up to six printing presses and is equipped with an open, standardized computer interface for data exchange. CPC operators need no special knowledge of colorimetry. The computer completes all complex measurements automatically.

HRS System—“Hickey Licker”®
—Kemp Equipment Co., Inc.

The HRS System—“Hickey Licker”® is a continuous hickey removal system for sheetfed presses. It consists of two form rollers and a differential gear drive designed to create a dual slipping action that continually removes hickeys from printing plates.

This self-contained system is compatible with any existing inker or dampener. The unit continually prevents hickeys from adhering to the plate without the use of external controls. Hickeys are easily released and travel away from the printed sheet.
Mitsubishi Silver DigiPlater 1800 Digital Platesetting System
—Mitsubishi Imaging (MC), Inc.

The Mitsubishi Silver DigiPlater 1800 combines an imagesetting system and processor in one self-contained unit. Its hardware-based RIP has a 90MHz Pentium processor, dual SCSI drive, and 32MB of RAM (upgradable to 64MB). PostScript-compatible, the DigiPlater comes with 35 fonts and Ethernet Phase I and II or Apple Talk (Local Talk) network interfaces.

An infrared (780 nanometer) laser diode exposes plate sizes up to 18 1/10 x 27 in. (460 x 686 mm) with a screen ruling of 133 lines per inch. Throughput ranges from 36 in. (914 mm) per minute at 900 dpi (90 plates per hour) to 18 in. (457 mm) per minute at 1800 dpi (54 plates per hour.)

The system can image and process paper- and polyester-based Mitsubishi Silver DigiPlate™ materials. It also exposes imagesetting film and paper, then transports either medium to a take-up cassette for off-line processing.

Pall Lithopure™ Clarifier
—Pall Process Filtration Co.

The Lithopure™ Clarifier removes contaminants such as emulsified inks, paper fiber, and spray powder from fountain solution. This, in turn, can reduce the frequency of hiccups, scumming, and tinting. Downtime for press maintenance is also reduced.

With a tapered pore, pleated design, these filters lower fluid hold-up. The LP72 series is an encapsulated assembly that eliminates worker exposure and the need for press operators to clean another vessel. The LP1 series is able to retrofit current foam filter technology without the need for a housing and can be used at very low pressures on the return line in conjunction with the Pall Continuous Flow Valve (P/N LPRV1). The GA1 series is more user-friendly than bag and double, open-ended filters. Single, open-ended O-ring seal clarifiers allow for easy changeout.
1995 GATF InterTech Technology Awards

PANTONE® Hexachrome™ High-Fidelity Color System—Pantone, Inc.

Introduced at DRUPA, the PANTONE® Hexachrome™ is a six-color high-fidelity system that includes a new ink set, separations, proofing, and color selector. The proprietary ink set developed and patented by Pantone consists of enhanced versions of the subtractive primaries yellow, magenta, and cyan, along with black, vivid orange, and intensified green. In addition to reproducing more brilliant continuous-tone images, Hexachrome™ is capable of more closely simulating over 90% of the PANTONE MATCHING SYSTEM® colors . . . more than twice the number that can be obtained using the conventional four-color printing process.

Printers can use Hexachrome™ as a full-color primary ink set on a six-color press or they can take advantage of the larger and richer four-color palette Hexachrome™ offers for enhanced CMYK printing. A key component of Hexachrome™ is the new PANTONE® Hexachrome™ Color Selector (fan guide), available on both coated and uncoated stock. It indicates the percentages of Hexachrome™ colorants needed to reproduce more than 2,000 colors.

PressMate™ Chemical-Free Imagesetter™
—LaserMaster Corporation

LaserMaster's PressMate™ Chemical-Free Imagesetter™ uses the company's patented ThermalRes direct-thermal technology to produce 2400 x 2400 dpi text and line art with SmoothTone™ screens and tints equivalent to up to 133 lines per inch. PressMate™ uses heat-activated film with a typical UV Dmax of 3.5 to produce films up to 12 x 26 in. (305 x 660 mm). In addition to film, users can load PressMate™ with a ColorMark™ ThermalRes four-color ribbon and ColorMark™ ThermalRes Color Media to produce 12 x 18-in. (305 x 457-mm) composites.

PressMate™ uses LaserMaster's proprietary ColorMark™ color management system for color output. Two PressMates™ can be attached to the ColorMark Pro 1000™ print server as part of a multiple output device configuration that includes color laser copiers and wide-format digital color printers.
QUASAR®-Imagesetter — Linotype-Hell Co.

The Linotype-Hell QUASAR® imagesetter caters to all of the smaller plate and print formats, including the Heidelberg GTO, while still accounting for the space from the plate edge to the start of the printed image. Its imaging format and register punching along the long-format side eliminates the need for mounting film. The Stoesser system (as well as Bacher CONTROl 2000 for Europe) serve as the basis for transferring to other register systems.

The QUASAR's deflecting element that generates the scanning lines rotates at a speed greater than 29,000 rpm. Imaging speeds of 23.1 inches (587 mm) per minute are possible at 1270 dpi. In addition to this resolution, 1693, 2540, and 3387 dpi are also supported, providing output of all of the 256 PostScript gray scales, right up to a 200-line conventional halftone screen.

Scitex Outboard Large-Format Ink-Jet Printer — Scitex America Corp.

The Scitex Outboard is a large-format, continuous-droplet ink-jet color printer optimized for full-color outdoor advertising and printing on continuous rolls of paper, nylon, vinyl, Panaflex, PVC, Tyvek, mesh PVC, canvas, and other cloth up to 63-in. (1600-mm) wide. It offers a resolution of 70 dpi for text and line art or 10 or 20 dpi for continuous-tone images.

Operating from a standard DOS platform with a 486-based print controller and Syquest drive supporting TIFF files, the Outboard permits the operator to prepare one poster while printing another. Its water-resistant UV inks provide for consistent color matching in over six million shades.
Screen Computer-to-Plate System
—Screen USA

Screen USA’s CTP System coordinates every step in the direct-to-plate process from imposition, trapping, and proofing to imaging, color management, and plating. It consists of the PlateRite PI-R1080 digital plate recorder; the TrueRite large-format digital proofing system (the TC-P1080 exposure device and the TP-50 laminator); and the TaigaSPACE electronic prepress production system.

This CTP system can produce film, plates, or proofs from the same RIP. Files remain completely editable in the TaigaSPACE device, eliminating the need to reprocess or re-RIP pages. Digital data can be imaged onto a variety of photopolymer or silver halide plate types and sizes, including aluminum base plates, up to a maximum plate size of 42 × 32 in. (1067 × 813 mm).

TOPAZ™ Flatbed Scanner
—Linotype-Hell Corporation

TOPAZ™, a flatbed scanner from Linotype-Hell, uses the Kodak Trilinear CCD technology to read all color at once, so color separations can be completed in a single pass. In the automatic mode, the TOPAZ™ can scan twelve or more images per hour. It can also rotate originals prior to scanning, which enhances RIP productivity and file output.

TOPAZ™ can handle a broad range of input, including reflective art up to 12 × 18 in. (305 × 457 mm) and transparencies up to 8 × 10 in. (203 × 254 mm). With the VariLens optical system, users can scale originals from 20-200% while maintaining a resolution as high as 8000 dpi. VariLens has a built-in AutoFocus capability for the automatic adjustments needed to simultaneously scan originals of varying thicknesses.
Verde™ Digital Film —Xerox Graphic Systems

Xerox's Verde™ digital film for scanners and imagesetters is silver-free and requires no chemical processing. It consists of a stable polyester base that is either .004 or .007 in. (0.1016 or 0.01778 mm) thick and covered with an ultra-thin semitransparent conducting layer. The next layer is a thin polymer coating containing a layer of photosensitive particles and the top layer is an infrared photosensitive protective coating. Imaging is enabled by heat-induced particle migration within the solid film.

The digital film is charged and imaged sequentially during the scanning cycle. After imaging, the film is electrically "treated" in the scanner/recorder, which allows it to be processed in daylight with a Verde™ Autosetter. This version of the Verde™ digital film was first demonstrated at DRUPA.

WEB-100 Pneumatic Web Cleaner —Chapman Corporation

A compact noncontact system for webs up to 30-in. (762-mm) wide, the Chapman WEB-100 Web Cleaner uses high-velocity compressed air to lift debris from the web and blow contaminants into an in-line panel filter that captures particles as small as one micron. It also includes static elimination to aid in cleaning and automatic lifters for easy web threading and splicing.

The WEB-100 eliminates the need for large and cumbersome vacuum equipment and duct work. It is suitable for use with various rotogravure, flexo, and web offset applications and single-and dual-surface models are available.
Previous InterTech Technology Award Winners

1994
- Agfa CristalRaster
- Creo Computer-to-Plate System
- Polychrome CTX System
- MAN Roland 700 Press
- Heidelberg Harris Sunday Press Technology

1993
- Aqua Dynamics Dampening Enhancement System
- Böttcher FEBO® Glaze-Free/“Steady Set” Printing Rollers
- Xerox DocuTech Publishing Series
- Kodak APPROVAL Digital Color System
- Komori Fully Automatic Plate Changing System (APC)

1992
- Gerber Direct-to-Plate LE55 Laser Imager
- Graphic Systems Specialties, R-C-L™ Fountain Solution
- Hoechst Celanese, Ozasol® N80™ Digital Laser Plate
- Linotype-Hell Company, RIP 60 with L.S. Technology
- Polychrome Waterless Lithographic Printing System

1991
- Adobe Photoshop™
- Baldwin Stobb VSB-5 Automated Vertical Stacker/Bundler
- Heidelberg Speedmaster CP Tronic
- PTC Tempest Hot-Air Drying System
- TRUMATCH
- X-Rite 938 SpectroDensitometer with SpectroStart software

1990
- LeapFrog™ Technologies, DUST BUNNY™ magnetic wiping fabric
- PANTONE Color Toolkit
- Printware 1440 Platesetter
- Oxy-Dry Model BMW Automatic Blanket Washer

1989
- Bright Light Films w/X-STAT™
- 4CAST™ Digital Color Imager
- “Foam-Free” Circulator and Foam Eliminator Kit
- HIV High-Velocity Hot-Air Drying System and Plate/Blanket Coater
- In-Line Former™
- Lightspeed™ Color Layout System

1988
- Baldwin Automated Newspaper Blanket Cleaner
- Cosar AutoSmart™ Densitometer
- Du Pont OptiSafe™ Optical Archiving System
- Kodak Signature™ Color Proofing System
- Special Award: Dr. S. Thomas Dunn and the Vendor Technical Subcommittee of the Image Technology Committee

1987
- Du Pont Print Manager
- Gavarti GA-C.A.T. Graphic Arts Comprehensive Abrasion Tester
- Hell Chromacom Proof Recorder 403
- Iris Color Ink Jet Printer
- Web Printing Controls MicroTrak CCR Closed-Loop Automatic Register Control System

1986
- Crosfield Data Compression/Satellite Transmission System
- Eikonix Designmaster 8000 Flatbed Scanner
- 3M Viking Lithographic Plates

1985
- 3M Onyx Cut-Film/Plate Material
- Eastman Kodak Ultratec Products
- Polychrome Corp., Laser-Scan Printing Plate
- Printing Research, Inc., “Mark-Less” Super Blue System

1984
- Automation, Inc., Auto-Count Waste Reduction System
- Crosfield Magnascan 640 Scanner
- Douthitt Option “X” Vacuum Frame
- George Hantscho Sabre Cylinders
- IBM 4250 Electro-Erosion Typesetter-Printer
- Quad/Tech KCS III Closed-Loop Register System

1983
- Baldwin Automatic Blanket Cleaner
- Coulter Systems KC-Gravure Color Proofer
- Crosfield Lasergravure System 700
- Stretch Devices, Inc., Newman Roller Frame
- Rachwal Super 70 Projection Platemaker
- System Brunner

1982
- Gerber AutoPrep 5000
- Monotype Lasercomp Mark 2
- Butler Datamat Microprocessor-Controlled Splicer
- Hantscho Microregister Control
- Anigraph Microregister-Controlled Splicer

1981
- Harris Prefax System
- Hurlertron/Altair Press Management System 700
- Mergenthaler Omnitech/2000
- Hazeltine Separation Previewer

1980
- Crosfield Magnascan 570
- Hell Chromacom
- Triple-III Automated Illustrated Documentation System
- Scitex Response 300
- AM International Electronic Ink and Moisture System
- Heidelberg CPC I and CPC II
- Roland Offset/Miehle CCI

1979
- Xerox 9700
- Harris Telecolor
- Opti-Copy Imposer
- Royal Zenith Dieboard Cutter

1978
- Hell Chromaskop
- Multinex Assembler
- Log-E-Scan
- EOCOM Laserite
- Kollmorgen On-Press Monitor
- Chroma-lite Photopolymer Film
- Digiform Photocomposition System

To nominate a product/technology for the 1996 InterTech Technology Awards, contact Richard D. Warner, GATF Research Fellow and Director of Research, by phone (412/621-6941) or fax (412/621-3049).
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125 Presumpscot Street
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207/773-4726

Creo Products, Inc.
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Gerber Systems Corp.
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South Windsor, CT 06074
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69115 Heidelberg, Germany
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612/944-9457

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17 E. Sir Francis Drake Boulevard, Suite 100
Larkspur, CA 94939
415/925-4200

Linotype-Hell Co.
425 Osar Avenue
Hauppauge, NY 11788
516/434-2033

Mitsubishi Imaging (MC), Inc.
601 Midland Avenue
Rye, NY 10580
914/925-3223

Pall Process Filtration Company
Division of Pall Corporation
2200 Northern Boulevard
East Hills, NY 11548
516/484-5400

Pantone, Inc.
590 Commerce Blvd.
Carlstadt, NJ 07072
201/835-5500

Scitex America Corp.
8 Oak Park Drive
Bedford, MA 01730
617/275-5150

Screen (USA)
5110 Tollview Drive
Rolling Meadows, IL 60008
708/870-7400

TechNova Imaging Systems Limited
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Off Dr. E. Moses Road
Mahalaxmi, Bombay 400 011, India
(91 22) 492-2649

3M Printing & Publishing Systems Division
3M Center, Building 223-2N-01
St. Paul, MN 55144-1000
612/732-8081

Xeikon
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2640 Mortsel, Belgium
32-3-443.11.11

Xerox Graphic Systems
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Purchase, NY 10577-2508
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"To serve the graphic communications community as the leading resource for technical information and services through research and education."