

Center for Technology and Research



**PRINTING
INDUSTRIES
OF AMERICA**



2 0 1 1 **Printing Industries of America** **QUALITY AND PROCESS CONTROLS** **SOLUTIONS CATALOG**

www.printing.org/qcproducts



Value of Quality and Process Controls

Customers demand high-quality print jobs without variations or defects. Specifications, measurements, and controls must be established in every department to ensure predictable, reliable printing and a quality finished product.

Quality and process controls facilitate the superior and consistent results you expect and that your customers demand.

Efficiency—printing consistently throughout the run, which results in overall waste reduction

Repeatability—creating standards that provide the customer with consistent quality printing every time

Objectivity—determining ways to measure quality and determine consistency

Communication—establishing and quantifying customer expectations using a standard that both the printer and the end-user can understand

Education—helping printers and customers identify proper conditions for viewing, their sensitivity to color, and good color quality

Troubleshooting—identifying mechanical conditions that may be preventing consistent printing

Productivity—through faster makereadies, less rework, increased stability, and improved color reproduction

Place order one of four ways:



Online Store
www.printing.org/store



By Fax
412-741-2311



By Phone
800-910-4283
(within the U.S.)
412-259-1770
(all other countries)
The call center and customer service is available between the hours of 8:30 a.m. and 5:00 p.m. EST., M-F. Please have item numbers and credit card information ready.



By Mail
Complete the order form (download from www.printing.org/store) and mail with payment (including shipping and handling charges) to:
Printing Industries Orders,
200 Deer Run Road,
Sewickley, PA 15143.

Printing Industries of America is the birthplace of many quality and process control inventions, and we continue to develop new products every day. All items we sell are manufactured to the strictest quality standards, tested by our research department, and used regularly by Printing Industries of America consultants and scientists to help printers assess and refine processes, achieve consistency, and improve productivity.

Most of our products are available in digital format and are Mac and Windows compatible; film-based versions may also be available by special order.

Your Guide to Quality and Process Control Solutions

Not only does this catalog serve as a comprehensive inventory of our products, but it also contains helpful information about the different uses of quality and process controls. To make things even easier, refer to your job type in the chart below to see a complete listing of the Printing Industries of America quality and process controls that you'll find most useful. You'll notice that each job type has an icon next to it—look for your corresponding icon throughout the catalog to find detailed product information on the quality and process controls that are the best fit for your role in the industry.

Contents	Educator/ Student 	Photographer/ Designer 	Print Sale- person/Print Buyer 	Prepress/ Quality Assurance 	Digital Printer 	Commercial Printer 	Publication or Packaging Printer 	Newspaper Printer 
Quality Control Devices.....2								
Printing Industries RHEM Light Indicator.....2	X	X	X	X	X	X	X	X
Printing Industries QC Photos.....3	X	X						
Color Communicator.....3	X	X	X					
Pilot Color Tolerance Exercise.....4	X	X	X	X				
Vogelsong COLOR Ref.....4				X	X	X	X	X
HRR Pseudoisochromatic Test.....5	X	X	X	X				
Farnsworth-Munsell 100 Hue Test.....5	X	X	X	X				
Munsell ColorChecker, Mini, and Digital.....6		X						
Process Control Targets.....8								
Printing Industries Proof Comparator.....8				X	X	X	X	X
Printing Industries Plate Control Target.....8				X				
Ugra Plate Control Target—Film.....9				X				
Ugra/Forga Media Wedge CMYK.....8				X				
Ugra/Forga Plate Control Wedge.....11				X				
Ugra/Forga Digital Print Scale.....11					X			
Ugra/Forga PostScript Control Strip.....11					X			
Color Control Bars.....12								
Printing Industries Single-Tier Color Control Bars..13			X			X	X	X
Printing Industries Dual-Tier Color Control Bars....13			X			X	X	X
Test Forms.....14								
Printing Industries 42x62-in. and 35x50-in. Large Format Test Forms.....16						X	X	
Printing Industries 25x38-in. and 19x25-in. Test Forms.....17						X	X	
Printing Industries 11x17-in. Test Form.....18					X	X	X	X
Printing Industries Multi-Page Test Form.....18						X	X	
Printing Industries Two-Sided Web Press Test Form..20							X	
Printing Industries/SNAP Newspaper Test Form..20								X
Printing Industries Thumb Twist Test Form.....21						X	X	
Printing Industries Register Test Grid.....21						X	X	X
Printing Industries Ghosting Test Form.....21						X	X	X
Wide Format Inkjet Test Form.....22				X	X	X	X	
Altona Test Suite Application Kit.....24				X	X	X	X	X
Technology Watch Resometer.....2				X	X			
Additional Products.....25								
Ordering Information.....27								

Quality Control Devices

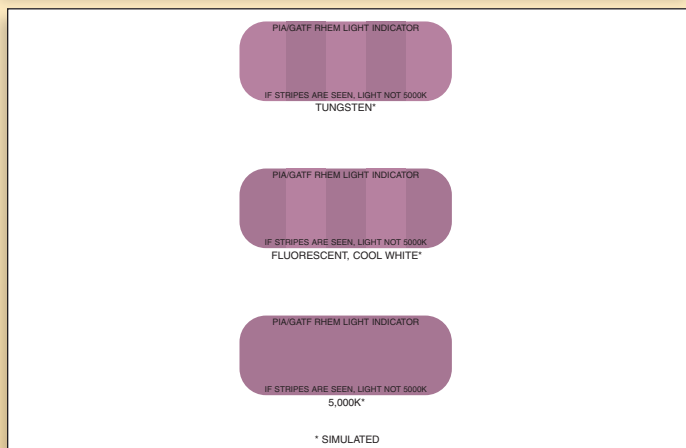
Visual References for Color Standards

In this highly visual industry, color is a critical element throughout the design, prepress, and printing process. Establishing proper color viewing conditions, determining color tolerances and expectations of customers, identifying color gamuts, and recognizing color vision deficiencies are all important practices to implement in your plant and with clients.

Printing Industries of America offers a variety of quality control devices—visual reference tools that can help you conform to industry standards as well as assist you in developing in-house and client standards for color. This line of products is especially beneficial for maintaining positive customer relations. Use QC devices to ensure that proofs are approved under proper lighting conditions, confirm the color expectations of clients so that each job is produced to their liking, reduce the number of approval steps and waste for your company, and much more.



Related Publication
More Books on Color
page B15



Printing Industries RHEM Light Indicator

The Printing Industries RHEM Light Indicator is a tool for the visual control of color viewing. This adhesive patch can be attached to the border of color proofs, copy, reproductions, or the press sheet. The Light Indicator uses metamorphism to “change color” and alert the viewer if the light source is not 5000 K, the graphic arts lighting standard.

Under a 5000 K standard light source, stripes do not appear. Stripes appear when the RHEM Light Indicator is viewed under nonstandard light sources, such as incandescent and fluorescent light (see simulation).

RHEM Light Indicators are sold in books of 50 stickers. Each patch measures 2.0x0.75-in. (51x19 mm).

Item No. R8365D

\$50 Member; \$70 Non Member

If ordering 10 or more, call 412-259-1786 for bulk rates.

Related Publication
books appropriate for print sales
and print buying
pages B5



www.printing.org/store

Quality Control Devices

Printing Industries QC Photos

The QC photograph collection is designed to test the limits of process-color printing reproduction with challenging images that hover over the boundaries of reproducible color. These images can be used to check for consistency in proofing and printing systems and help identify gamut mapping in offset printing processes, digital proofing devices, or digital presses. The photographs included focus on seven distinct color and tonal attributes: memory colors, high-key, low-key, portraits, neutral grays, skin tones, and color gamut. Each photograph is available in three media types: 35-mm slides, 5×7-in. glossy prints, and TIFF files (both RGB and CMYK).

Each set includes:

Seven photos
User's guide

Images on CD

Item No. 7125PD

\$200 Member; \$270 Non Member

35-mm Photographic Slides

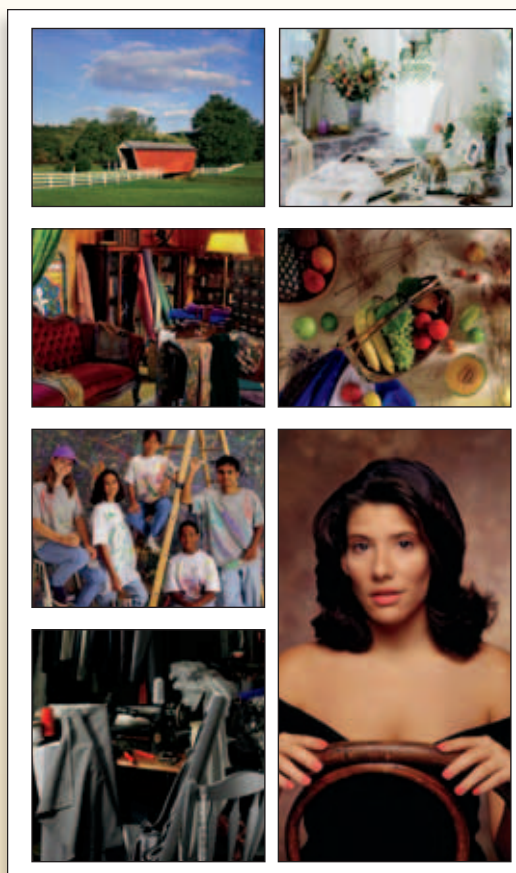
Item No. 7125PS

\$200 Member; \$270 Non Member

5×7-in. Photographic Prints

Item No. 7125PP

\$200 Member; \$270 Non Member



Printing Industries Color Communicator

The Printing Industries Color Communicator is a design and prepress color-viewing tool that takes the guesswork out of color translation. It enables you to quickly specify a color in terms of dot area values on a printing surface. Easier and faster to use than a color chart, the Color Communicator gives a more reliable depiction of a color than you could expect to get from a color monitor. The Color Communicator consists of four process color wedges that have a tonal scale ranging from 0–100% dot area in 10% increments. It can be used to see variations in lightness or hue of a particular color, to determine what color will be generated from a set of halftone dots, to match colors, or to observe what effect different substrates have on color.

Item No. 7030

\$25 Member; \$35 Non Member

Call 412-259-1786 for bulk rates.

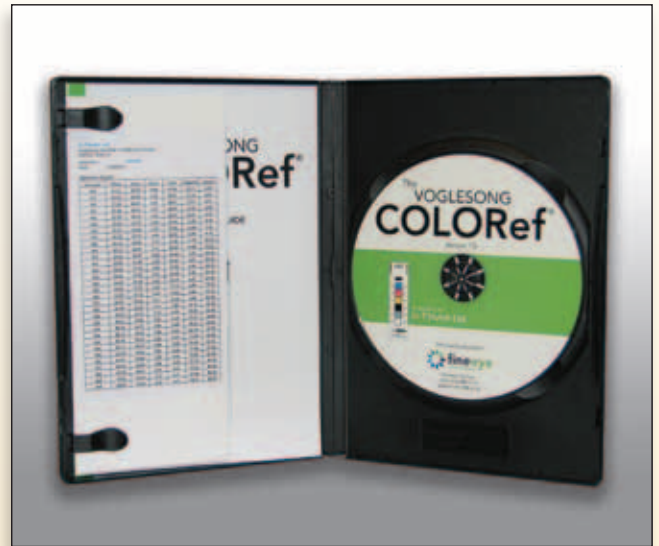


Related Publication

*Secrets Revealed: A Mutual Strategy
for Creatives and Printers*
page B14



Quality Control Devices



Voglesong COLORef

Voglesong COLORef provides a Color CRM (certified reference material) for verifying the characteristics and performance of all color measurement instruments. The 2010 version 1.0 has C, M, Y, K, white, and 50% gray patches with the durability and color precision of ceramic tiles. Data sets are provided in full spectral values, CIE L*a*b*c*h*, and Status T and E densities. Measuring the Color CRM should yield similar results when compared to the measurements provided. If not, the device needs attention! It may be providing inaccurate information about your color processes!

Item No. R8335

\$300 Member; \$400 Non Member



Pilot Color Tolerance Exercise

Proper understanding of color tolerances is important in the graphic arts. By using the Pilot Color Tolerance Exercise, your company can determine in-house and customer tolerances for color acceptability. Using this exercise, you can determine a customer's tolerance and quote their job more effectively; how long it takes certain color devices to drift beyond established tolerances; and whether the quality and repeatability of color measurement devices, scanners, monitors, and output devices falls within acceptable tolerance standards.

The kit includes six strips of color patches, instructions for administering the exercise, and an easy-to-follow guide that provides a numerical tolerance.

Item No. 7020

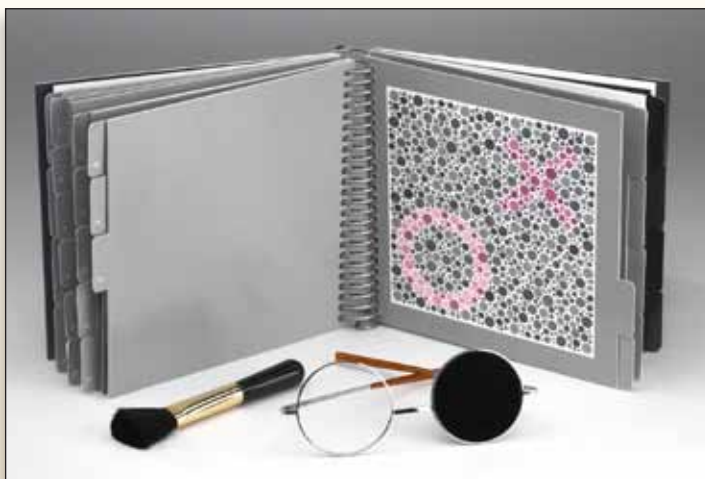
\$100 Member; \$135 Non Member



www.printing.org/store

Quality Control Devices

Quality Control Devices



HRR Pseudoisochromatic Test

The HRR (Hardy, Rand, and Rittler) Pseudoisochromatic Test is a well-respected test for color vision deficiency ("color blindness") preferred by optometric physicians and used in several industries. The HRR was developed to serve as a screening test to separate those with defective color vision from those with normal color vision; as a qualitative diagnostic test to classify the type of color defect (protan or deutan/tritan or tetartan); and as a quantitative test to indicate the degree of any defective color vision (mild, medium, or strong).

The HRR test includes a series of 24 plates, a brush for tracing shapes, instructions for proper testing, and scoring details that determine the type of vision defect.

Item No. R8310

\$219 Member; \$295 Non Member



Farnsworth-Munsell 100 Hue Test

The Farnsworth-Munsell 100 Hue Test examines hue discrimination ability and is intended for use in vocational and diagnostic applications. The FM 100 Hue Test uses four trays with 85 color chips (caps) of varying hue and asks the viewer to arrange them in order. This test has been shown to be useful in classifying those with normal color vision into above-average, average, and poor hue discrimination.

The FM 100 Hue Test Software allows for user-friendly scoring in multiple languages; graphs and charts provide at-a-glance determination of your color vision capability. For more in-depth analysis, the software includes a database for storage of everyone's visual color assessment capability.

Item No. R8316

\$725 Member; \$970 Non Member



Quality Control Devices

Quality Control Devices

Munsell ColorCheckers

Munsell ColorCheckers provide photographers with an objective standard to compare, measure, and analyze differences in color reproduction of any color rendition system, thereby avoiding costly mistakes. Most color management profiling applications accept a scanned or photographed image of a ColorChecker to create an ICC profile. Each ColorChecker contains a checkerboard array of scientifically prepared squares in a wide range of colors, including memory colors like flesh tones, foliage, and blue sky. Not only are the squares the same color as their counterparts, but they also reflect light the same way in all parts of the visible spectrum. Because of this unique feature, ColorCheckers can be used to match colors and set white balance under any illumination and with any color reproduction process.

ColorCheckers are available in three formats.

The original 8.5×11-in. ColorChecker contains 24 color squares; the 3.25×2.25-in.

ColorChecker Mini contains the same number of color squares and is ideal for the photographer who wishes to have a less obtrusive chart in the image area.

The ColorChecker Digital is specifically designed to meet the needs of digital photography. It contains 140 patches that expand the color gamut and allow you to create profiles that capture the full capabilities of your digital camera or scanner. This 8.5×11-in. target includes the 24 original ColorChecker colors; 14 flesh tone reference colors for greater accuracy and consistency; and a 17-step gray scale for control of camera balance and neutrality regardless of light source.

Place orders one of four ways:

Common applications for all Munsell ColorCheckers:

Digital photography: check images, output, monitors

Traditional photography: check films, lights, filters, and paper

Graphic arts: check any printing or proofing process

Digital imaging: check scanners, monitors, and proofing devices

Cinematography: check cameras, monitors, lights, and film



ColorChecker

Item No. R8318

\$74 Member; \$100 Non Member



ColorChecker Mini

Item No. R8319

\$59 Member; \$80 Non Member



ColorChecker Digital

Item No. R8317

\$295 Member; \$395 Non Member



Related Publication
Digital Photography for Print
page B14

Gain That Competitive Edge...

- Have your continuous improvement programs been flat over the past few years?
- Is your digital printing quality and performance where you want it to be?
- Are you ready to expand or streamline your operations?

Printing Industries of America Consulting Services can help you regain your competitive edge.

We can work with you to assess your overall printing facility or specific areas such as pressroom optimization, color management, or plant layout/design.

For more information on what our Consulting Services can do for your company, contact Karen Keller at kkeller@printing.org or call 1-800-910-4283 x711.



Training Solutions to Boost Your Performance

Why do profit leaders invest in training and education at twice the rate of the average company? Because it results in increased productivity, reduced costs, employee retention—and greater profits.

Printing Industries of America can design programs specifically for your company—meeting your needs and budget. It's a cost effective way to train new hires or enhance the performance of existing staff. The training is conducted whenever and wherever you choose.

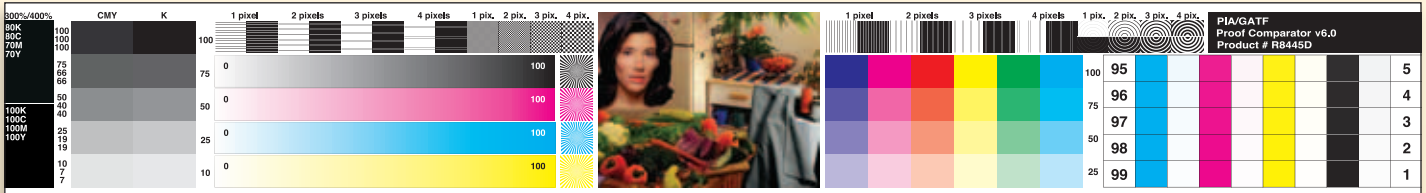
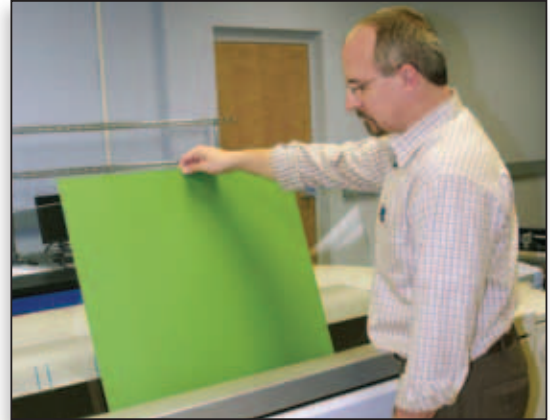
For more information, contact Karen Keller at kkeller@printing.org or call 1-800-910-4283 x711.



Process Control Targets

On-Target Printing—Every Time—Starts Here

Proofs and plates must be made consistently in order to produce predictable print runs, from plate to plate, proof to proof, and, ultimately, job to job. Process control targets can be used to diagnose, calibrate, and monitor imaging systems in proofing, platemaking, and digital printing by measuring. These devices measure exposure, resolution, and directional effects and use minimal space in the margins of the plate or proof.



Printing Industries Proof Comparator

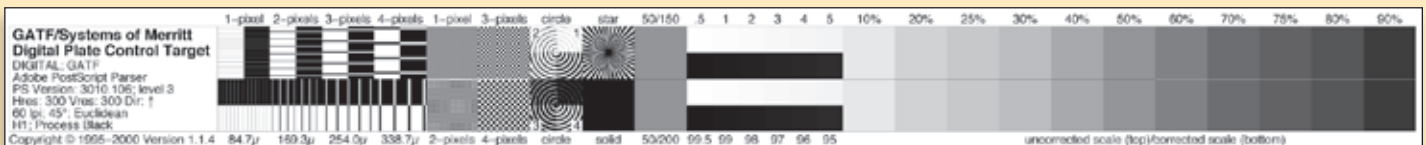
Proofs are an essential part of the printing process, as they are used to show customers what to expect from the final printed piece in terms of color reproduction. The Printing Industries Proof Comparator is an ideal tool for evaluating the accuracy and consistency of proofs, and it can also be used on the press sheet to provide a way to validate proof-to-press match. With the Proof Comparator, you can calibrate and control device reproduction characteristics such as directional effects and resolution. It can also be used to measure and evaluate press variables such as gray balance, solid ink density, dot gain, and print contrast. The Proof Comparator measures 1.25×9-in.

Includes: Proof comparator (EPS), User's guide (PDF)

Item No. R8445D

\$200 Member; \$270 Non Member

Related Publication
Process Controls Primer
page B21



Printing Industries Plate Control Target

The Printing Industries Plate Control Target is a highly precise test image for diagnosing, calibrating, and monitoring the platemaking process. It can also be useful for digital proofing and digital printing systems. By identifying non-uniform imaging, the Plate Control Target helps you improve consistency in the exposure of printing plates and other materials. In addition to exposure, it also allows you to measure pixel resolution, directional effects, minimum/maximum dot, and other reproduction characteristics. The Plate Control Target measures 6.5×0.65-in.

Elements: Information panel, Star targets, Line panels, Checkered panels, Fine dot patches, Halftone wedge

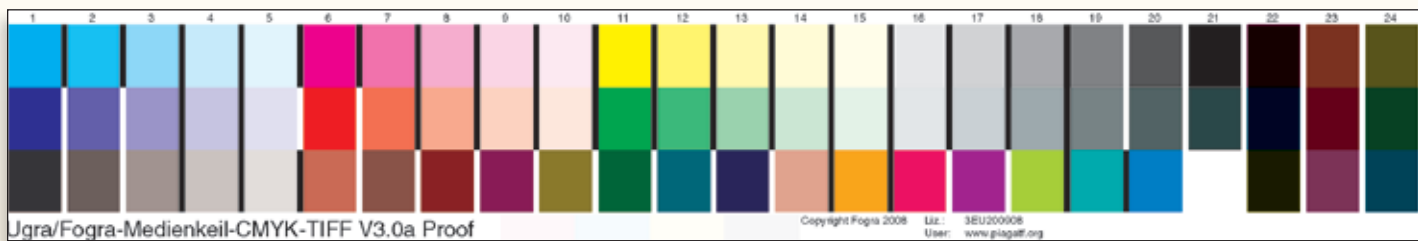
Includes: Plate control target (EPS), User's guide (PDF)

Item No. 7120D

\$250 Member; \$335 Non Member



Process Control Targets



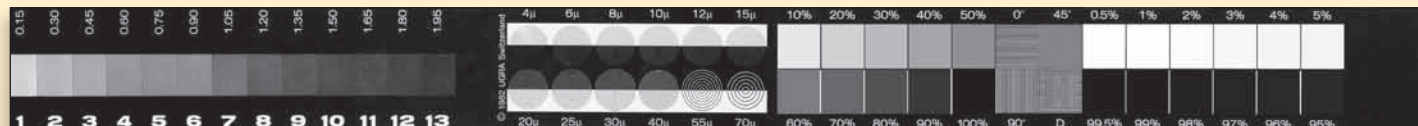
Ugra/Fogra Media Wedge CMYK

The Ugra/Fogra Media Wedge consists of 72 patches, which are defined with area coverages of the process colors CMYK. Colorimetric aim values according to ISO 12647-2 are defined for each patch, according to the printing procedure and substrate. The Ugra/Fogra Media Wedge is recognized worldwide as a control tool for establishing a contract proof. This wedge is also integrated in many proofing systems and RIPs as a licensed component and can be used as a digital control tool in many workflows. This tool helps the user observe the effect of an image processed in the CMYK mode and other prepress work.

Includes: Ugra/Fogra Media Wedge CMYK (EPS), User's Guide (PDF)

Item No: R8404D

Special order item, allow 5-10 business days for delivery. Member: \$675, Non-member: \$900



Ugra Plate Control Target—Film

The Ugra Plate Control Target is a film target intended for controlling the analog platemaking process. It is also possible to use it for evaluating the analog proofing process and some printing diagnostics. This product was specifically designed to evaluate exposure, optimum resolution, gradation, and the rendering of halftone dots. The Ugra Plate Control Target measures 0.56×6.43-in. (14.28×163.5 mm).

Elements: Continuous-tone wedge, Halftone wedge (150 lpi), Line panels, Doubling/slur patches, Fine dot patches

Includes: Plate control target (Film), Printed user's guide

Item No. 7080 \$155 Member; \$210 Non Member

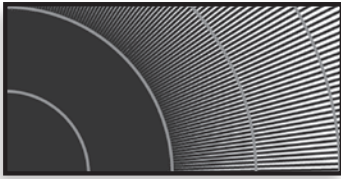


Process Control Targets

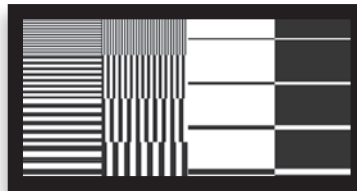
Process Control Targets

Ugra/Fogra Process Control Targets

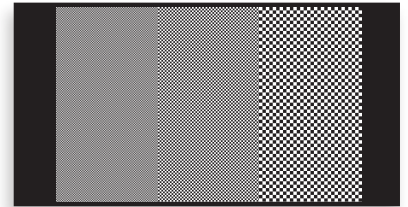
Digital imaging systems require suitable control aids in order to monitor output quality during daily production and to guarantee production standards. Ugra/Fogra products are vendor-neutral tools for process and quality control in printers, imagesetters, platesetters, and digital printing and proofing systems. Below is a list of the most common Ugra/Fogra process control elements. Note: not all elements appear on every target.



Resolution Panel



Line Panels



Checkered Panels

Information Panel

Contains license information and specific details that are interactively queried from the RIP.

Type Patch

Contains both a positive and negative background for the assessment of font rendition quality.

Resolution Panel

A visual reference target designed to estimate the device resolution (DPI); contains semicircular star panels.

Line Panels

Contain line elements that are oriented to the particular resolution setting of the output device.

Checkered Panels

Visual targets for recognizing dot gain, dot area, and tone value; used to optimize resolution and tonal values.

Doubling/Slur Patches

Indicate problems with intra-unit register (doubling) or a difference in cylinder surface speed (slur).

Fine Dot Patches

A series of dot patches for identifying highlight dropout or shadow fill-in.

Continuous-Tone Wedge

A gradation of density values that can be used to verify density and identify banding issues.

Halftone Wedge

Helps control exposure on the plate and has a neighboring zero-field for densitometry measurement.

Visual Reference Steps

Adjacent panels that should have a dot percentage of 50% and will blend with each other under linear conditions.

Color Control Patches

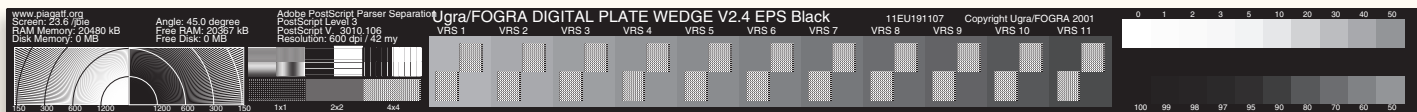
CMYK patches, RGB overprints, gray balance patches vs. K halftone, and critical color tones for measurement.

Register Patch

Will show if register deviations of one recording dot have a visible impact on low-resolution output systems.

Process Control Targets

Process Control Targets



Ugra/Fogra Digital Plate Control Wedge

Computer-to-plate systems require suitable control aids in order to monitor output quality during daily production and guarantee production standards. Variables like digital data from various applications; RIP and output device parameters; plate and development conditions; and printing requirements make control of the workflow increasingly difficult. The Ugra/Fogra Digital Plate Control Wedge allows you to monitor and calibrate plate imaging systems. It measures 0.75x10-in.

Elements: Information panel, Resolution panel, Line panels, Checkered panels, Halftone wedge, Visual reference steps

Includes: Plate control wedge (EPS), User's guide (PDF)

Item No. R8401D \$595 Member; \$795 Non Member



Related Publication
Handbook for Digital Printing
page B22

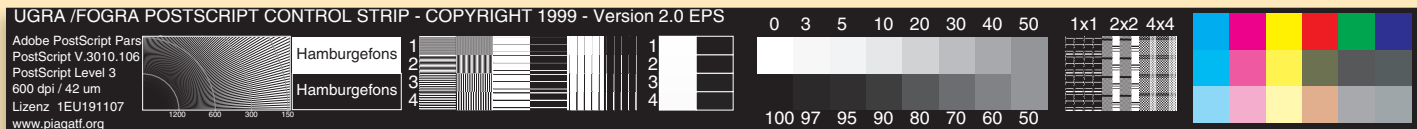
Ugra/Fogra Digital Print Scale

The Ugra/Fogra Digital Print Scale is a process control tool for digital printing. This test image consists of seven function groups and a register scale for each of the process colors. It can be processed and automatically adjusts to the resolution of output devices like PostScript-compatible printers and digital printing systems in order to measure and control them. The Digital Print Scale measures 3x7-in.

Elements: Information panel, Type patch, Resolution panel, Line panels, Checkered panels, Fine dot patches, Halftone wedge, Register patch

Includes: Digital print scale (EPS), User's guide (PDF)

Item No. R8402D \$395 Member; \$530 Non Member



Ugra/Fogra PostScript Control Strip

The Ugra/Fogra PostScript Control Strip is a test image which consists of seven elements. It can be processed and/or output at the required resolution on PostScript-compatible printers and digital printing systems in order to characterize the condition of digital output devices. The Ugra/Fogra PostScript Control Strip measures 7.68x0.68-in.

Elements: Information panel, Type patch, Resolution panel, Line panels, Checkered panels, Fine dot patches, Halftone wedge, Color control patches

Includes: PostScript control strip (EPS), User's guide (PDF)

Item No. R8403D \$395 Member; \$530 Non Member



Process Control Targets

Controlling Color “By the Numbers”

When color control bars are printed on the press sheet, an operator can continuously monitor ink densities and easily verify that the press is printing within prescribed tolerances—“by the numbers,” so to speak. Color control bars allow for density readings in several ink zones and also contain patches that evaluate tone value increase TVI/dot gain, print contrast, gray balance, overprint trapping, doubling, and slur. Identifying these metrics enables press crews to continuously monitor press conditions and adjust ink key settings to correct for any variation as it occurs during the pressrun, resulting in more consistent color for the customer and less waste for the printer.



Anatomy of a Color Control Bar

Available in four-color, six-color, and eight-color versions, color control bars can be output at any screen ruling that your output device supports. Dual-tier bars contain two stacked 5mm color control bars, while single-tier color control bars include a standard 5mm bar as well as a narrow 3mm version for smaller margin/trim areas. For convenient use on different size presses, color control bars are provided in three widths, or they may be stepped for large-format presses. All color control bars come in EPS format, and a PDF reference guide of elements is also included with every color control bar.

Tint Patches

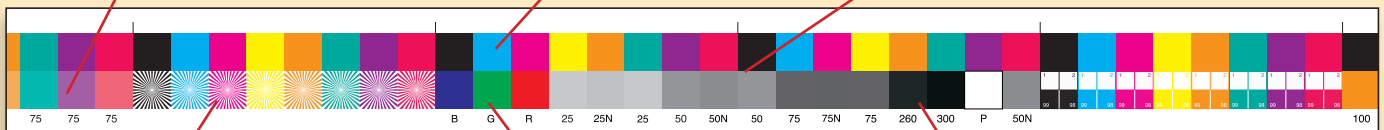
Screen tint patches of 25%, 50%, and 75% allow for dot measurement at different points on the tone reproduction curve; TVI/dot gain and print contrast can also be calculated using these patches.

Solid Patches

Solid patches of each ink color are used for measuring and monitoring solid ink densities. Solid ink densities should be run at the values prescribed by the appropriate specifications or standards.

3N Gray Patches

Three-color neutral (3N) gray patches (50% cyan, 40% magenta, 40% yellow) appear next to a 50% black screen tint for reference when evaluating gray balance. The CMY percentages are in accordance with GRACoL®* specifications.



Star Targets

A quick visual analysis of the Printing Industries Star Target easily reveals when too much dot gain is occurring or when a directional gain, such as slur or doubling, is present.

RGB Overprints

Two-color solid overprints of red, green, and blue help evaluate and measure ink film trapping and show the maximum amount of ink laydown possible for the various combinations of process inks.

TAC Patches

Total area coverage (TAC) patches allow for measurement of the maximum ink density of CMYK overprints. A 300% TAC patch represents the highest allowable dot area coverage for a #5 coated sheet according to SWOP®* specifications.

*GRACoL® and SWOP® are registered trademarks of IDEAlliance.

Process Control Targets

Process Control Targets



Product # R8131D - 4/C Single-Tiered Color Bar v6.1 © PIA/GATF 2008

Printing Industries Four-Color Single-Tier Color Control Bar

Bar height: 5mm

Bar widths: 12.40-in., 24.80-in., 37.20-in.

Elements: Star targets, Tint patches, Solid patches, RGB overprints, 3N gray patches, TAC patch (300%), Paper patch



Item No. R8131D **\$50 Member;** \$70 Non Member



Product # R8132D - 6/C Single-Tiered Color Bar v6.1 © PIA/GATF 2008

Printing Industries Six-Color Single-Tier Color Control Bar

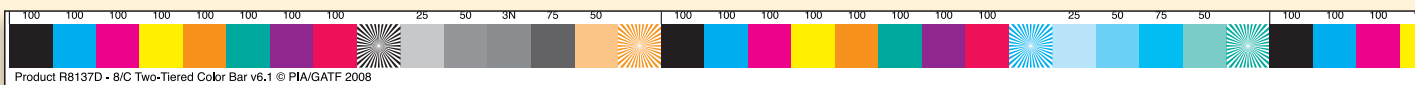
Bar height: 5mm

Bar widths: 12.60-in., 25.20-in., 37.80-in.

Elements: Star targets, Tint patches, Solid patches, RGB overprints, 3N gray patches



Item No. R8132D **\$50 Member;** \$70 Non Member



Product R8137D - 8/C Two-Tiered Color Bar v6.1 © PIA/GATF 2008

Printing Industries Eight-Color Single-Tier Color Control Bar

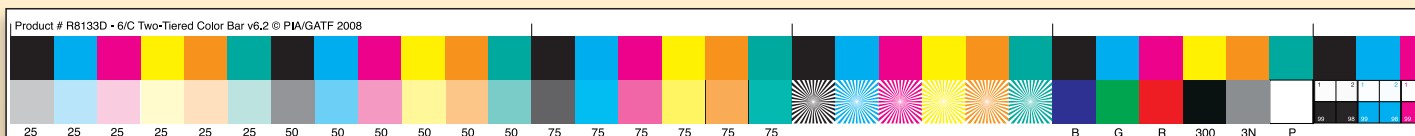
Bar height: 5mm

Bar widths: 12.80-in., 25.60-in., 38.40-in.

Elements: Star targets, Tint patches, Solid patches, 3N gray patches



Item No. R8136D **\$50 Member;** \$70 Non Member



Product # R8133D - 6/C Two-Tiered Color Bar v6.2 © PIA/GATF 2008

Printing Industries Six-Color Dual-Tier Color Control Bar

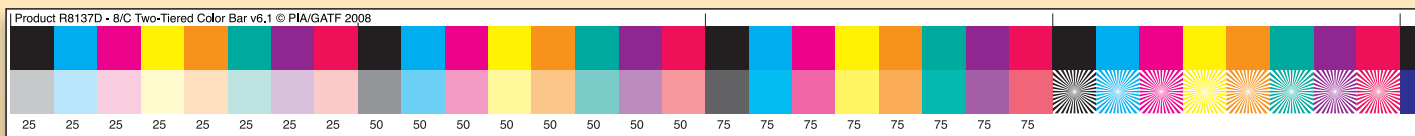
Bar height: 10mm

Bar widths: 12.60-in., 25.20-in., 37.80-in.

Elements: Star targets, Tint patches, Solid patches, RGB overprints, 3N gray patches, TAC patch (300%), Paper patch, Fine dot patches



Item No. R8133D **\$50 Member;** \$70 Non Member



Product R8137D - 8/C Two-Tiered Color Bar v6.1 © PIA/GATF 2008

Printing Industries Eight-Color Dual-Tier Color Control Bar

Bar height: 5mm

Bar widths: 12.40-in., 24.80-in., 37.20-in.

Elements: Star targets, Tint patches, Solid patches, RGB overprints, 3N gray patches, TAC patch (300%), Paper patch



Item No. R8137D **\$50 Member;** \$70 Non Member

Test Forms

Diagnostic Tools for Optimum Press Performance

The best way to diagnose a printing problem, control color conditions, and optimize press operation is to analyze press performance regularly. Printing Industries of America carries a variety of test forms to help. A test form is a comprehensive diagnostic and measurement tool designed to help the printer achieve quality color printing with less waste and reduced makeready time. Each test form is designed to allow prepress and press operators to control and manage the printing process while conforming to known standards and specifications. Because Printing Industries of America test forms are provided as digital files that incorporate several PostScript elements, they can also be used to diagnose and calibrate the imagesetter or platesetter.



Test Forms

Anatomy of a Test Form

Printing Industries of America test forms contain numerous quality control targets which can be used for several different purposes: diagnostics (D), standardization (S), and process control (P). Some targets can be used for more than one purpose. Look for the letter or letters next to the name of a test form element to see what category or categories it falls into.

Mottle Patches (D)

Ink mottle, a visual defect, is the non-uniformity of color or gloss in large areas of ink coverage. Mottle patches allow the viewer to examine patches sufficient enough in size to detect mottling when it occurs. Inconsistency or patterning in these color patches is undesirable.

Neutral Header Bar (D, P)

The header bar provides the form's name, but it is also a visual target for comparing a three-color neutral gray to a 50% black screen tint. The bar is split horizontally; when proper ink densities are run on the press, the upper and lower portions should appear neutral.

Ladder Targets (D)

Each ladder target contains a horizontal and vertical line pattern and a 100% solid area. If the targets show changes in density and uniformity from gripper to trailing edge, serious print problems such as slur, doubling, wash marks, and paper fan-out could be present in the printing system.

Tone Scales/Vignettes (D, S)

Tone scales are a series of tint patches of increasing percentage used to measure tone values from highlight through shadow. Each tone scale is accompanied by a vignette, which can be evaluated for signs of banding. Measurement data can be used to construct tone reproduction curves.

Photo Montage & Profiling Targets (S, P)

These color and reproduction control products provide the opportunity for comprehensive analysis of a printing system in terms of how closely it can match standards for photographic realism as well as color management targets for profiling presses.

Gray Balance Target (P, S)

This matrix of CMY overprints is a visual tool used to establish proper values for gray balance throughout the tone curve. The square that comes closest to matching the gray standard is identified as the most neutral square; gray balance values are then used to construct gray balance curves.

Open Designation Region (S, P)

The Open Designation Region, identified by a dashed rectangle, is designed for the placement of a color management target, Printing Industries of America Photo Montage, or any other target such as the IDEAlliance P2P25X® (for G7® implementation), ISO images, or your custom images.

Proof Comparator (D, P)

A multi-element target that is used as a standalone target with digital proofing systems for process control and troubleshooting.

DRA Targets (D)

Digital Register Analysis (DRA) is a process which quantifies unit-to-unit sheet motion during the printing process. Each DRA target includes uniquely identifiable markers printed by successive units from which even the slightest unit-to-unit movement can be detected and measured.



Printing Industries 42x62-in. Large-Format Test Form

The Printing Industries 42x62-in. Large-Format Test Form is used to diagnose and calibrate an 8-unit large-format press; specifically for presses with widths ranging from 63-in. to 65-in.

This form eliminates the need for extra stepping, a technique commonly used in package printing.

Eight Color

Item No. R8284D

\$749 Member; \$1,049 Non Member



Elements in the 42x62-in. and 35x50-in. Large-Format Test Forms:

Single and Dual-Tiered Color Bars, Register Test Grid patches, Mottle patches, Image Fit target, Two ECI 2002 Random data targets, Set of Neutral Gray bars, Four sets of Tone Scales and vignettes, Gray Balance target, Ink Coverage target, Four Proof Comparators, Line Resolution target, Multiple Star targets, Three sets of Ladder targets, Type Resolution target, DRA targets (Digital Register Analysis)



Printing Industries 35x50-in. Large-Format Test Form

The Printing Industries 35x50-in. Large-Format Test Form is used for presses with width sizes ranging from 51-in to 56-in.

This form eliminates the need for extra stepping, a technique commonly used in package printing.

Eight Color

Item No. R8281D

\$749 Member; \$1,049 Non Member



Printing Industries 25x38-in. Test Forms

The Printing Industries 25x38-in. Test Form is used to diagnose and calibrate a 38-in. or 40-in. printing press with up to eight units. The 25x38-in. Test Form image measures 24x37.5-in.

Includes: Test form (EPS), User's guide (PDF)
(Eight-Color Test Form shown)

Four Color

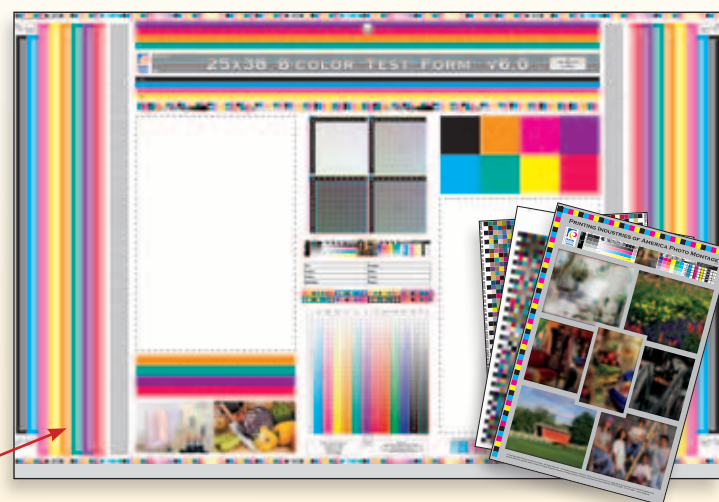
Item No. R8290D **\$695 Member;** \$995 Non Member

Six Color

Item No. R8291D **\$695 Member;** \$995 Non Member

Eight Color

Item No. R8292D **\$695 Member;** \$995 Non Member



Related Publication

Sheetfed Offset Press Operating and
the Guide for Troubleshooting for the
Sheetfed Offset Press
page B23



Elements in the 25x38-in. and 19x25-in. Test Forms:

Neutral header bar, Ladder targets, Tone scales/vignettes, Photo Montage, Gray balance target, Mottle patches, ECI 2002 Random data target, IT8.7-4 Random data target, Type tint target, Register Test Grid patches, Fit targets, DRA targets, Single-tier color control bar, Proof comparator, Dual-tier color control bar*, Ink take-off bars
*(NOTE: All elements may not appear in all forms)

Printing Industries 19x25-in. Test Forms

The Printing Industries 19x25-in. Test Form is used to diagnose and calibrate a 25-in. printing press with up to eight units. The 19x25-in. Test Form image measures 18x24.75-in.

Includes: Test form (EPS), User's guide (PDF)
(Eight-Color Test Form shown)

Four Color

Item No. R8297D **\$595 Member;** \$895 Non Member

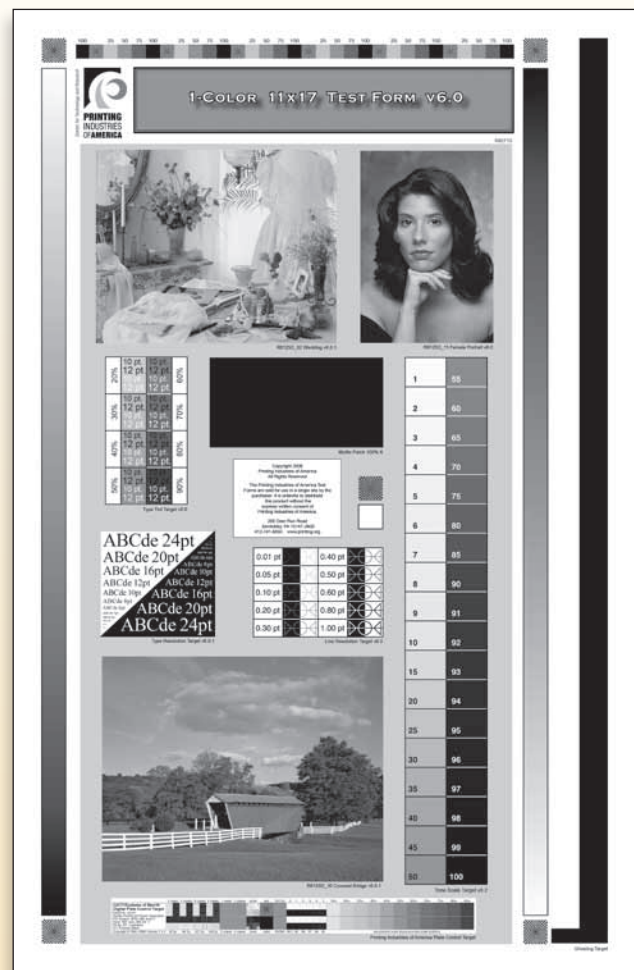
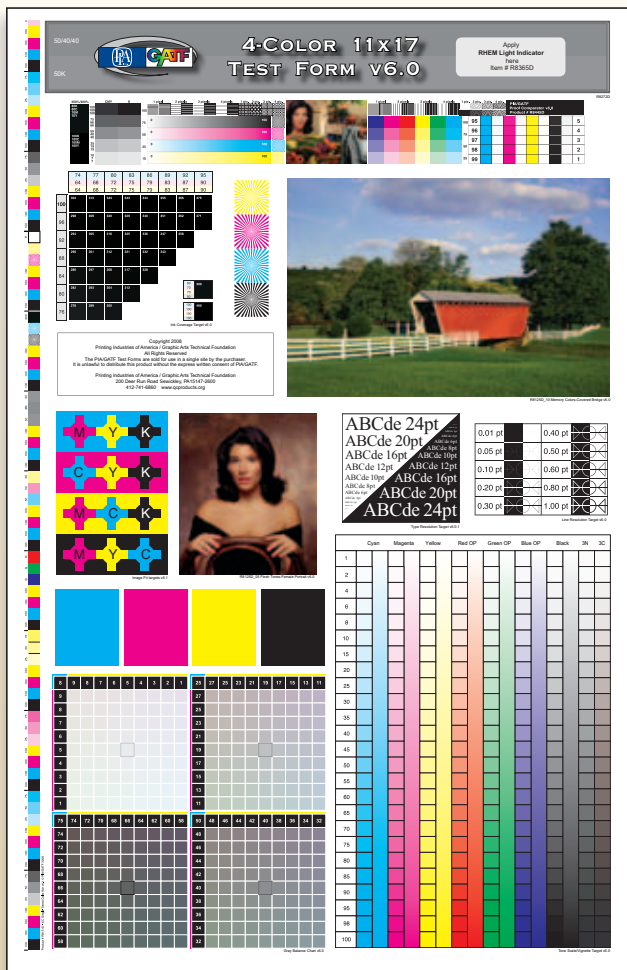
Six Color

Item No. R8298D **\$595 Member;** \$895 Non Member

Eight Color

Item No. R8299D **\$595 Member;** \$895 Non Member





Printing Industries 11×17-in. Test Forms

The Printing Industries 11×17-in. Test Form comes in both four-color and one-color versions. The Four-Color Test Form is used to characterize the color reproduction process. The One-Color Test Form is a diagnostic form designed to test the mechanical characteristics of the printing press. Both the Four-Color and One-Color Test Form images measure 10×16.25-in.

Four-Color Elements:

Neutral header bar, Star targets, Tone scales/vignettes, QC photos, Gray balance target, Mottle patches, TAC/ink coverage target, Line resolution target, Type resolution target, Fit targets, Proof comparator, Single-tier color control bar

One-Color Elements:

Header bar, Ladder target, Star targets, Tone scales/
vignettes, QC photos, Mottle patches, Line resolution
target, Type resolution target, Type tint target, Single-tier
one-color control bar, Plate control target, Ghosting target

Includes: Test form (EPS), User's guide (PDF)

Four Color

Item No. R8272D \$295 Member; \$395 Non Member

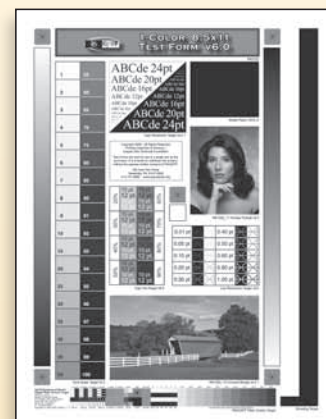
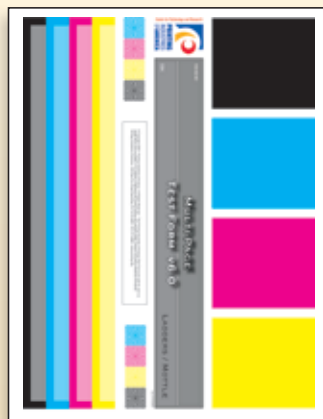
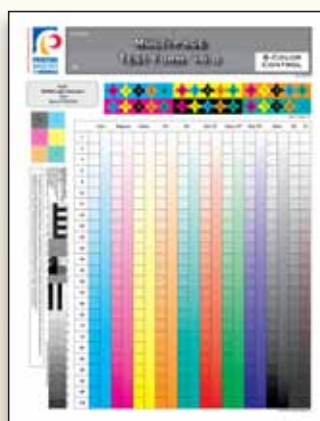
One Color

Item No. R8271D **\$125 Member; \$170 Non Member**



Test Forms

Test Forms Sheetfeed, Web, Digital Press



Printing Industries Multi-Page Test Form Set

The Printing Industries Multi-Page Test Form Set consists of eight 8.5×11-in. pages that can be used individually or imposed into signatures for use on larger press sizes. The form also provides a uniform means of testing the many digital systems available today, including digital proofers and presses. It is designed to measure solid ink density, TVI/dot gain, trapping characteristics, gray balance, total ink coverage (TAC) requirements, minimum/maximum printable dots, and more. The Multi-Page Test Form Set contains elements sensitive to resolution, directional effects, moiré, and raster imaging patterns. Many pages contain CMYK data; however, a black-and-white page provides data for single-color systems, and a set of six-color pages provide additional data for six-color presses.

Elements:

Neutral header bar, Ladder targets, Star targets, Tone scales/vignettes, QC photos, Gray balance target, Mottle patches, TAC/ink coverage target, Line resolution target, Type resolution target, Type tint target, Fit targets, Proof comparator, Plate control target, Ghosting target, Single-tier color control bar

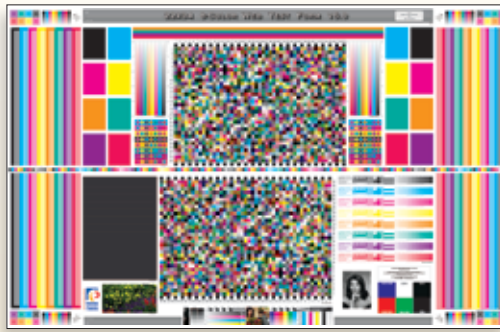
Includes: Test form set (EPS), User's guide (PDF)

Item No. R8246D \$495 Member; \$749 Non Member





(Eight-Color Test Form shown)



Related Publication

Web Offset Press Operating and the Guide for Troubleshooting for the Web Offset Press
page 823

Printing Industries Two-Sided Web Press Test Forms

This test form was designed for web presses with a cut-off of 22×34-in. All of the familiar test targets that appear on Printing Industries of America's other test forms are part of this test form. The Two-Sided Web Press Test Form provides the ability to print on both sides of the web to take advantage of the blanket-to-blanket impression while gathering valuable data from the test form. The form measures 24×38-in. with enough setback to accommodate a 22×34-in. web press.

Elements:

Neutral header bar, Ladder targets, Star targets, Tone scales/vignettes, QC photos, Gray balance target, Mottle

patches, TAC/ink coverage target, Line resolution target, Type resolution target, Fit targets, IT8.7/4 profiling target, Proof comparator, Single-tier color control bar, Ink take-off bars, Plate control target, Ghosting target, Fluting target, Show-through target

Includes: Test form (EPS), User's guide (PDF)



Four Color

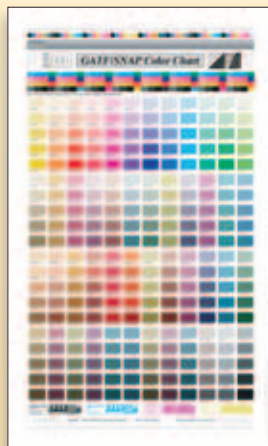
Item No. R8209D **\$795 Member; \$1,100 Non Member**

Six Color

Item No. R8210D **\$795 Member; \$1,100 Non Member**

Eight Color

Item No. R8211D **\$795 Member; \$1,100 Non Member**



Related Publication

SNAP: Specifications for Newsprint Advertising Production
page 819

Printing Industries/SNAP Newspaper Test Form

This two-page test form was developed in partnership with the SNAP Committee and the technical staff of the Newspaper Association of America (NAA). It provides greater measuring capabilities and compatibility with today's digital imaging systems. The first page of the Printing Industries/SNAP Test Form measures the characteristics of the newspaper printing system and can be used to calibrate the output of the prepress system to achieve optimal color reproduction on the press. It can also help to establish meaningful process control aim points for

the pressroom. The second page contains a color chart to help the user get predictable colors from the newspaper printing system. The form image measures 20.5×11.5-in.

Elements:

Header bar, Tone scale/vignettes, QC photos, Gray balance target, Line resolution target, Type resolution target, IT8.7/3 mini profiling target, Single-tier color control bar, Ink take-off bars, Plate control target

Includes: Test form (EPS), User's guide (PDF)

Item No. 7287D **\$395 Member; \$595 Non Member**

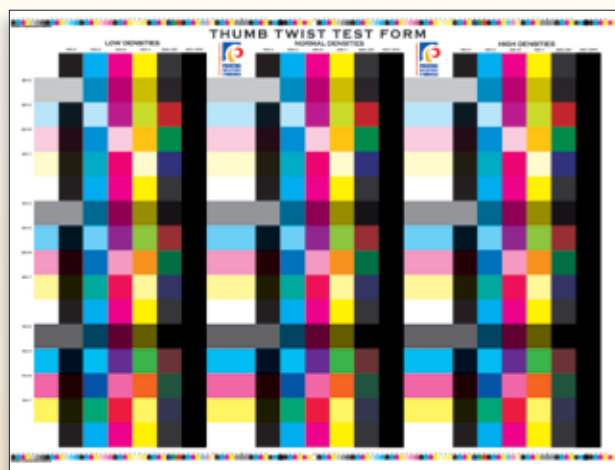


Printing Industries Thumb Twist Test Form

The Thumb Twist Test Form was designed to help printers identify UV/hybrid ink curing issues and understand how a change in ink film thickness influences drying. This test form is designed with three zones, each to be printed at a different density level. The range of ink densities across the sheet will allow the printer to evaluate the curing lamps on the press by examining the differences in ink film.

To determine if the ink has been cured, simply twist your thumb 90° on one of the squares with moderate force. If ink appears on your thumb, that particular square is not cured. Gloss back, a common issue with UV printing, is typically caused by wet inks under a dry coating drying over time. By ensuring that the curing lamps dry the ink sufficiently before coating, gloss back will be eliminated. The Thumb Twist Test Form measures 19×25-in.

Includes: Test form (EPS), User's guide (PDF)
Item No. R8200D \$175 Member; \$250 Non Member



Related Publication

What the Printer Should Know about Ink
 page B18
 Optimised Sheetfed UV
 page B23



Printing Industries Register Test Grid

The Printing Industries Register Test Grid contains a precisely ruled pattern of line and highlight tint patches (10%). When printed, it can detect misregister as slight as 0.001-in. (0.25 mm). The Register Test Grid can be used on multi-unit printing presses to test for unit-to-unit registration.

Includes: Test grid (EPS)

39×55-in.

Item No. 71603D \$135 Member; \$195 Non Member

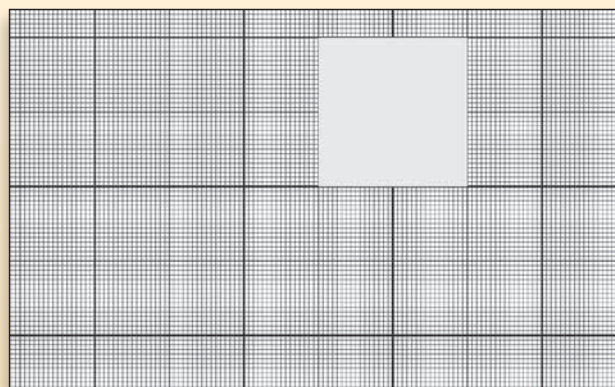
30×40-in.

Item No. 71601D \$135 Member; \$195 Non Member

24×30-in.

Item No. 71602D \$135 Member; \$195 Non Member

Call 412-259-1786 for custom sizes.



(cropped section, enlarged to show detail)



Printing Industries Ghosting Test Form

The Ghosting Test Form is designed to show the effects of mechanical ghosting on a printed sheet. Typically, mechanical ghosting is caused by ink starvation, but it can also be caused by incorrect-diameter form rollers and swollen or compressed blankets.

Includes: Test form (EPS)

39×55-in.

Item No. 71703D \$135 Member; \$195 Non Member

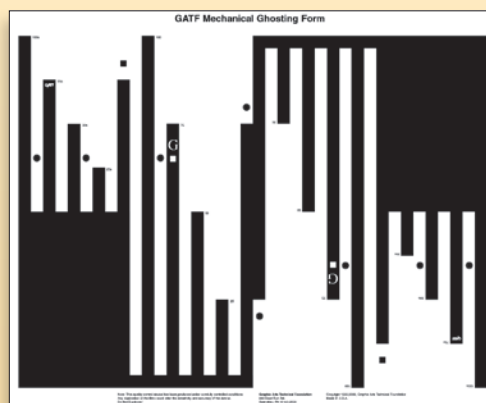
30×40-in.

Item No. 71701D \$135 Member; \$195 Non Member

24×30-in.

Item No. 71702D \$135 Member; \$195 Non Member

Call 412-259-1786 for custom sizes.



Wide-Format Inkjet Test Form



The 20x40-in. Printing Industries of America Wide-Format Inkjet Test Form is designed to challenge the printing performance of wide-format inkjet printers and the color reproduction characteristics of a printing system. Utilizing a variety of test targets, the Wide-Format Inkjet Test Form can help printers evaluate the printing system through visual examinations, attributes analysis, equipment characterization, and print standardization.

Test Form Targets include:

- CMYK/RGB Tone Scales
- Radial Line Target
- Type Quality Target
- Fill and Stroke Targets
- Line and Bleed Target
- Gradient Hexagons
- CMYK and RGB Directional Line Targets
- Directional Vignette and Solids
- Open Designation Region
- Library of Images and Targets designed to be placed into the Open Designation Region

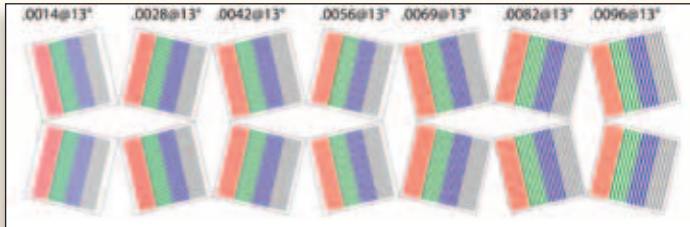
A unique feature of this product is the color management open designation region within the form. There are two 8.5x12.5-in. areas left intentionally open in this test forms where the user is able to drop in various color management images, ink and substrate test targets, various artwork, or clients specific images they might require. A library of images and targets, included with the test form package can provide analytical data and invaluable information for optimizing wide-format inkjet printers including; assessing equipment output, integrating color management, and establishing process controls. **Includes:** Test Form (EPS), User's guide (PDF)

Item No: R8212D

Member: \$195, Non-member: \$250



Wide Format Inkjet Test Form Targets



RGB Directional Line Targets



Radial Line Target



Gradient Hexagons



Line and Bleed Target

21-Step CMYK/RGB Tone Scales

The 21-Step Tone Scales allow measurement of tone percentages from highlight to shadow in C, M, Y, K, R, G, B and neutral gray. This data can be used to construct print curves. In addition, these scales show differences rendering CMYK output versus RGB output.

Line and Bleed Target

This visually evaluated target shows whether the inkjet heads are in or out of register and if there are compatibility issues between ink and substrate.

Radial Line Target

The Radial Line Target allows both visual and measurable assessment. The microlines on this target will fill in based on the resolution capabilities of the imaging device. The patches can be measured to test color shift allowing for accurate color reproduction.

Gradient Hexagons

Digitally imaged gradients can be affected by many different variables. The Gradient Hexagons provide a qualitative visual baseline that can be compared job-to-job, day-to-day, and printer-to-printer.

CMYK and RGB Directional Line Targets

The directional line targets determine whether the actual printed width of a line is the same thickness as the one specified in the digital file. This target helps the user determine the minimum line width that can be held at a particular resolution.

Type Quality Target

Sharpness and clarity can vary based on font type, size, as well as output resolution. The Type Quality Target allows a visual inspection of serif type at various point sizes in solid and reversed colors.

Head Direction Vignette and Solids

Vignettes are sensitive to banding during the printing of the test form and blotchiness may occur because of improper RIP settings. This target visually shows problem areas and allows solid colors to be measured with a spectrophotometer.

Register Scale

The Register Scale not only provides a measurement tool for the test form, but is also an indicator of misregister and distortion horizontally, vertically, and diagonally.

Fill and Stroke Target

The Fill and Stroke target is used to evaluate the ability of the imaging system to render positive and reversed (negative) lines and solids in a circular orientation.

CMYK/RGB/Gray Headlight Photos

The Headlight Photos are challenging images to reproduce accurately because of their gray balance requirements. These images help the viewer examine tones approximating neutral grays.

Altona Test Suite Application Kit

The comprehensive Altona Test Suite Application Kit consists of a set of PDF files specially designed for testing digital output devices—in particular, proofing solutions, conventional, and digital printing systems. It can also be used to visually evaluate and check PDF/X-3 compliance and color accuracy for all software and hardware modules used in a composite PDF workflow for print production. Sample images of correct output and typical errors help to identify wrongly adjusted system settings or product limitations. Additionally, the Altona Test Suite is well suited to test editorial publishing systems (e.g., whether the final output of a newspaper page retains all properties of a placed PDF/X-3 ad). The Altona Test Suite includes three test forms (PDF) designed for specific purposes:

Altona Measure contains test elements for setting up and checking output systems such as proofers or conventional or digital printing systems based on colorimetric and densitometric measurements. The file is a common PDF 1.3 file so that its use is not limited to a single printing condition. The Altona Measure image is 17.37×12.53-in.

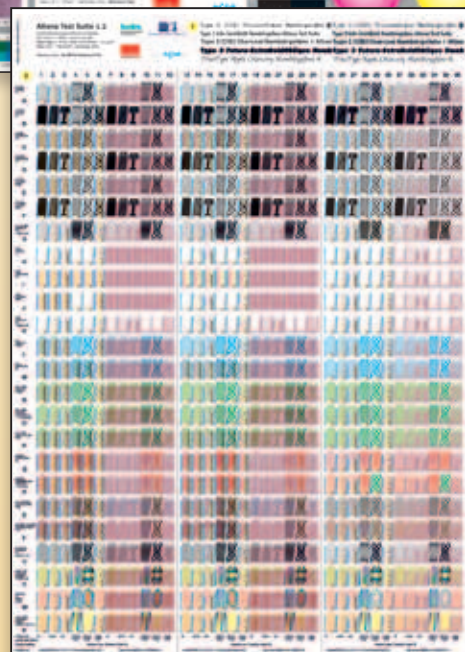
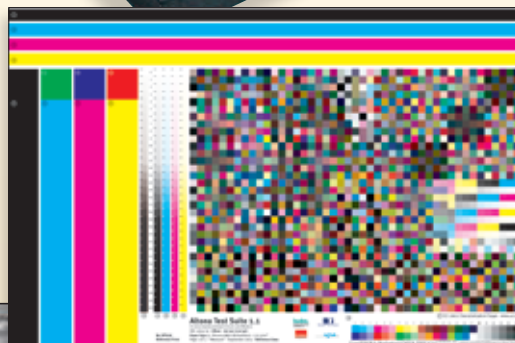
Altona Visual focuses on visual testing of PDF/X-3 applicability and color management accuracy on a proofing system. This PDF/X-3 file comprises not only CMYK and spot color elements, but it also contains several device-independent color components such as CIELAB and ICC-based RGB. The Altona Visual image is 17.37×12.53-in.

Altona Technical addresses overprinting and font formats from a more technical perspective than Altona Visual. It contains 864 carefully structured patches for a thorough evaluation of whether a PostScript RIP is able to correctly deal with overprinting. In addition, this file contains text that is coded in all relevant font formats. The Altona Technical image is 11.73×16.53-in.

Includes: Test forms (PDF), Characterization data, ICC profiles, 16 reference prints, 7 color specimens, User's guide (PDF—English and German)

Item No. R8218D

\$395 Member; \$720 Non Member



Related Publication

Digital Prepress Primer
page B14
Prepress Skills Training Program
page B9



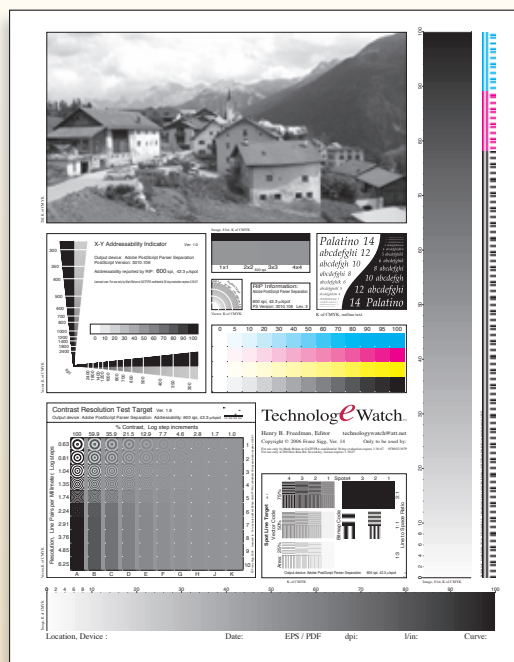
Technology Watch Resometer Test Form

This multi-faceted digital test form is used to measure the performance of devices such as digital presses, proofers, imagesetters, computer-to-plate systems, copiers, and the RIPs associated with them. It uses PostScript code to automatically update its targets and gives the viewer a deeper look into the output device's ability to produce quality print. It supports consistent printing by helping to preflight the RIP's settings for an optimal workflow. It can also help to standardize procedures for file setup and provide feedback for automation. The Resometer allows the press operator to produce the highest quality image from a specific output device. The Resometer measures 8.5x11-in.

Includes: Test form (EPS), User's guide (PDF)

Item No. R8217D

\$350 Member; Special order item, allow 5–10 business days for delivery. \$470 Non Member



Special Order Products

If you are looking for a particular quality or process control product that is not in this catalog or on our website (www.printing.org/store), let us know. As the largest distributor of quality and process control tools, we can find and obtain most publically distributed products and make them available to you. To inquire about special order products, call 412-259-1786 or email qcproducts@printing.org.

Custom-Designed Products

We can create custom test forms to your specifications with any combination of available Printing Industries of America test targets, QC images, spot colors, and more; we can even include your company's logo. If you want a test form in a size that is not listed in this catalog or one that more closely matches your press format, we can do that too. In addition, large-format test forms can be developed in any dimension as digital files.

Product customization or development can be completed for you in a timely and cost-effective manner. For a quote, call 412-259-1786 or email qcproducts@printing.org.

Any combination of Printing Industries of America test form elements can be incorporated into a custom form:

- Neutral header bar
- Ladder targets
- Star targets
- Tone scales/vignettes
- QC photos
- Gray balance target
- Mottle patches
- TAC/ink coverage target
- Line resolution target
- Type resolution target
- Type tint target
- Color correction target
- Fit targets
- IT8.7/4 profiling targets
- DRA targets
- Proof comparator
- Single-tier color control bars
- Dual-tier color control bars
- Ink take-off bars
- Plate control targets
- Ghosting target
- Fluting target
- Show-through target
- ECI 2002 profiling targets

Before it hits...call us! 800-910-4283 ext. 786

Save time, money, and frustration when you have a technical problem—turn to the **Printing Industries of America Technical Hotline**. This **free service** to Printing Industries of America members provides immediate, unbiased help to keep your business on track.

Let us draw from the knowledge of our expert staff to respond to inquiries on any print-related topic, including:

- Paper and ink
- Digital and W2P
- Color management
- Pre-print, print, and post-print production
- Green and sustainable printing
- Human relations and economics
- Computer integrated manufacturing
- And much more!



Laboratory Services

Printing Industries of America lab services staff has more than three decades of industry experience evaluating materials used in the graphic arts industry. With the help of our expert staff and laboratory facilities, our customers are able to resolve conflicts, evaluate materials, troubleshoot projects, and save thousands a year in wasted downtime and consumables by making sure the same mistakes aren't repeated.

Conflict resolution, print quality analysis, and materials testing are our most common prescriptions, and as with all our services, you'll get unbiased, comprehensive, and conclusive third-party testing with reliable, accurate, and timely results. It's just what the doctor ordered.



Ordering Information

Place orders one of four ways:

- 1. Online Store:** www.printing.org/qcproducts
- 2. Phone:** 800-910-4283 x770
Member Central is available from 8:30 am to 5:00 pm EST., Monday-Friday.
Please have item numbers and credit card information ready.
- 3. Fax:** 412-741-2311
- 4. Mail:** Mail your order including: quantities, item numbers, payment, and shipping/handling charges to: Printing Industries of America Store, 200 Deer Run Road, Sewickley, PA 15143. Please do not duplicate fax, phone, or Web orders by mail. If you must follow up your order with a confirmation, please mark "CONFIRMATION" in large, bold letters so that the order is not duplicated. Printing Industries of America cannot be held responsible for orders duplicated as a result of improperly marked confirmations.

Sales Information: This catalog, which supersedes all previous catalogs, availability, prices, and specifications, is subject to change without notice. Item numbers are used throughout this catalog; please use item numbers when ordering.

Discounts: Only members of Printing Industries of America are eligible for member pricing. If ordering by phone, fax, or mail, please provide your member number to qualify; members ordering online should log in before completing their transaction to receive member pricing. Non-members are charged list price on all products. (Information on joining Printing Industries of America through your local affiliate is available on www.printing.org; select "Login" from the options at the top of the home page and type in your zip code under "Find Your Affiliate".) If you are not sure of your member number, call 412-259-1770.

Payment: Prepayment is required for all orders. Use a credit card (VISA, MasterCard, and American Express only) or pay by check made payable in U.S. dollars to Printing Industries of America. Orders submitted by Purchase Order will have a pro forma invoice generated for your accounting department; the order will not ship until payment is received.

Taxes: Pennsylvania residents must add 7% sales tax to the order. If exempt, please enclose a copy of the exemption certificate.

Shipping Information

Shipping Policy: Orders usually ship within 24–48 hours. Orders for overnight delivery should be placed by phone and must be placed by 12:00 noon Eastern Time. While every effort will be made to process and ship an overnight order that same day, next day delivery is not guaranteed.

Shipping and handling charges are calculated as such:

- Orders shipping within the United States: \$4.95 for the order, plus \$2.00 for each item.
- Orders shipping to Canada: \$15.00 for the order, plus \$2.00 for each item.
- Orders shipped internationally (except Canada): \$40 for the order, plus \$5.00 per each item.

How We Deliver: All U.S., Canadian, and Mexican orders will be shipped via ground service UPS. Shipments outside of North America will be by FedEx or another traceable service. Duty and brokerage charges are the responsibility of the customer. Please use your street address as the shipping address; we cannot deliver to a post office box.

International Orders: All prices are quoted in U.S. dollars and must be prepaid in U.S. dollars. Payment by credit card is preferred. VISA, MasterCard, and American Express credit cards are accepted as well as checks drawn on U.S. banks. Checks must be made payable to Printing Industries of America and clearly marked "Payable in U.S. dollars." A pro forma invoice for an order can be furnished upon request. Fax 412-741-2311 for shipping and handling charges.

Returns Information

Returns Policy: Because of the nature (data or format) of the digital products, returns are not accepted and sales should be considered final. If you are unsure of whether the material will fit your needs, contact Printing Industries of America in advance to speak with a staff member who can help you select the appropriate product(s).

Non-digital products may be returned, in new condition, for a full refund within 30 days of shipment date. Please include the original invoice or packing list and detail the reasons for the return. Return shipping charges must be paid by the customer. Original shipping and handling charges as well as any rush charges are non-refundable. For credit card payments, a credit will be issued to your account as the merchandise is received. Please allow two billing cycles for credit to appear on your account statement. All other refunds will be made by check in the name of the paying party.

Send returns via UPS or other trackable shipping service to: Printing Industries of America Returns, 200 Deer Run Road, Sewickley, PA 15143; 800-910-4283 or email: qcproducts@printing.org. Please have packing slip available.

Additional Information

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Contents

Business

• Financial & Management	1
• Human Relations	4
• Sales & Marketing	5

Careers and Training

• Curriculums	8
• Educational Titles	12

Technical Topics

• Design & Prepress	14
• Color	15
• Management & Planning	16
• Ink, Paper, & Materials	18
• Environment & Safety	19
• Lean Manufacturing	20
• Process Control & Specifications	21
• Digital	22
• Sheetfed & Web	23
• Other Printing Processes	24
• Spanish Editions	25
• Finishing & Mailing	26

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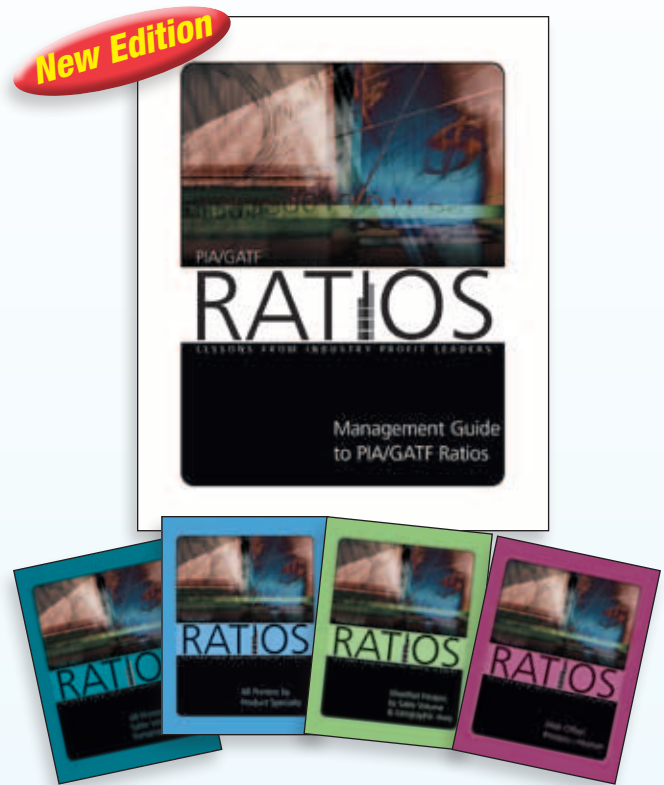
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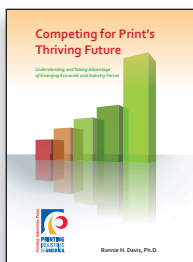
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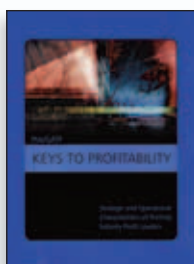
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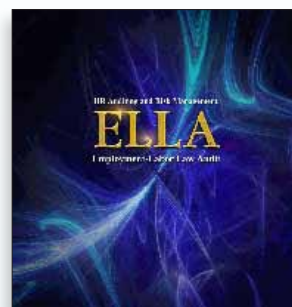
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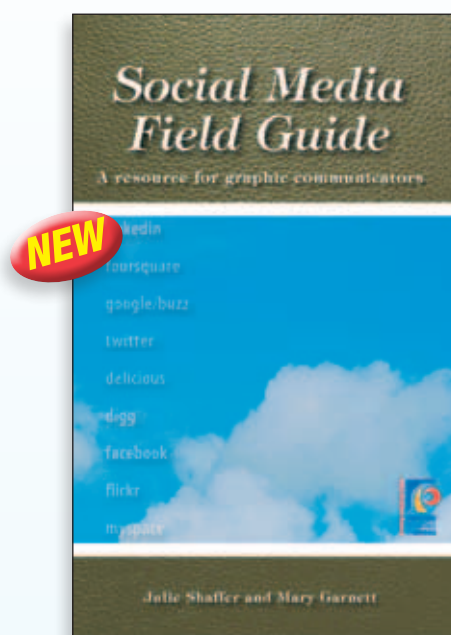
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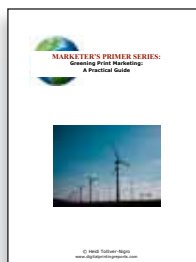
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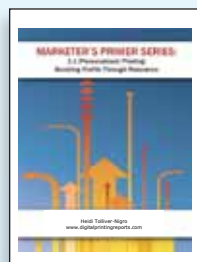
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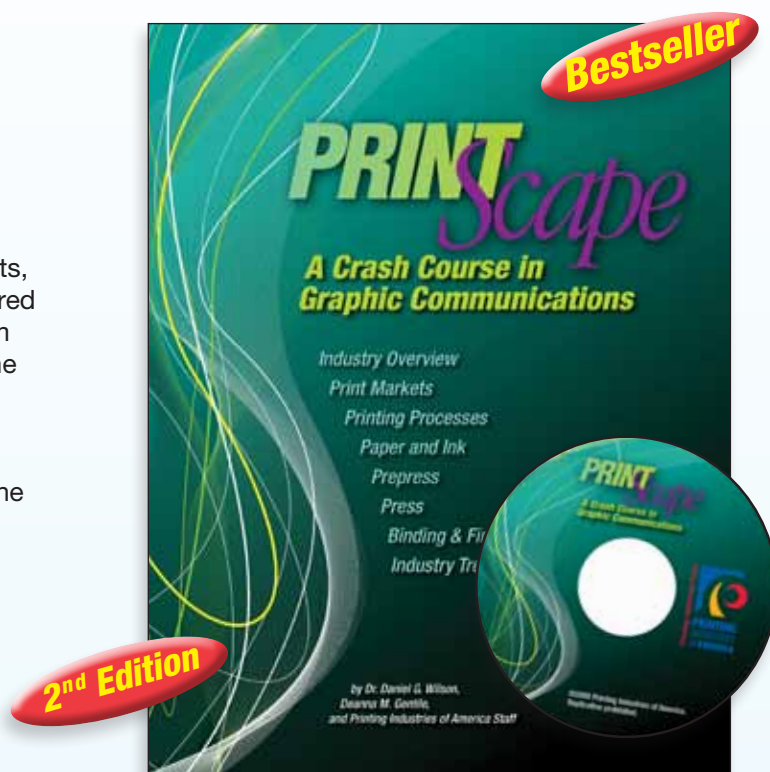
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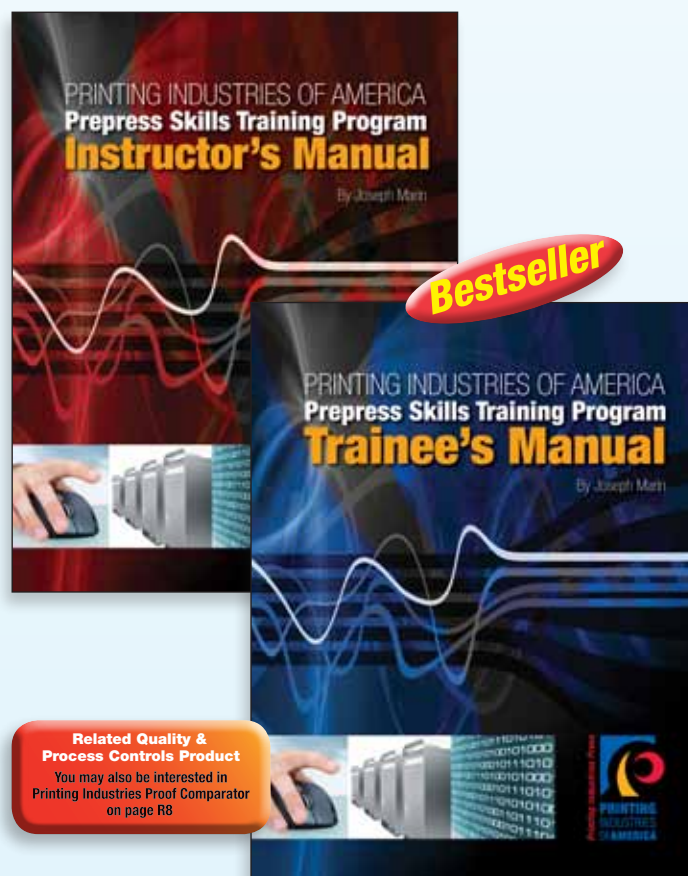
Prepress Skills Training Curriculum

The Printing Industries of America *Prepress Skills Training Curriculum* provides in-depth exploration of six key areas of focus for today's prepress technician. The curriculum includes a DVD with PowerPoint presentations for each lesson with videos showing critical applications at work. Students and trainees will study an orientation to graphic communications, composition, job engineering, image capture, production considerations, and digital output. The Instructor's Manual contains instructional aids and guidance to successfully convey essential concepts.

Instructor's Manual Item No. 91403
110 pp. 8.5x11
\$250 Member; \$500 Non Member
978-0-88362-664-1 2009 / Spiral bound + DVD

Trainee's Workbook Item No. 91413
358 pp. 8.5x11
\$99 Member; \$200 Non Member
978-0-88362-665-8 2009 / Spiral bound

Reference Library—Required for program readings
Includes: Digital Prepress Primer; Understanding Digital Color; PDF Print Production Guide; Binding, Finishing, & Mailing; Understanding Digital Imposition; Color Management Handbook
Item No. 91403L
\$324 Member; \$487 Non Member



View Before You Buy

Before purchasing a curriculum package, be sure to visit the Turnkey Training Curriculums page at www.printing.org/store, where you'll find:

- Detailed course descriptions
- Table of contents listings
- Kit descriptions and pricing
- Sample pages
- Presentation samples
- Ordering and budgeting tips

Interested in gauging training needs and knowledge retention?

Use our pre-training benchmark exams to determine areas of strength and weakness before planning your sheetfed or web course implementation. We also offer final exams to administer at the completion of your web, sheetfed, or prepress program. Students who score 80% or higher receive a certificate of completion; qualifying students in the sheetfed or web program also receive a graduate patch for their uniforms. Learn more about testing options at the Turnkey Training Curriculums page, Exams and Certificates.



Sheetfed Offset Press Training Curriculum

Our Sheetfed Curriculum includes extensive coverage of eleven core subjects that are essential to the sheetfed offset press operator, specifically including, infeed, running alcohol-free, paper, ink and water balance, dampening, reducing makeready, troubleshooting, and color theory. The Sixth Edition combines the best of instructional design with the latest technical information.

Item No. 9190 Instructor's Manual

\$400 Member; \$600 Non Member

682 pp. 8.5x11 2-volume set

0-88362-519-9

Item No. 9191 Trainee's Workbook

\$125 Member; \$250 Non Member

594 pp. 8.5x11 2-volume set

0-88362-520-2

2006 / Spiral bound / 6th Edition

Related Quality & Process Controls Product

You may also be interested in
Test Forms on page R14

Sheetfed Training Kits

Instructor's Kit Includes:

Instructor Manual w/CD, Trainee Workbook, Sheetfed Offset Press Operating, Sheetfed Troubleshooting Guide

Item No. 9190S

\$500 Member; \$750 Non Member

Trainee's Kit Includes:

Trainee Workbook, Trainee Record Booklet, Sheetfed Offset Press Operating, and the Sheetfed Troubleshooting Guide

Item No. 9190T

\$225 Member; \$350 Non Member

Kit includes 1 of each title

Reference Library Includes:

What the Printer Should Know About Paper, What the Printer Should Know About Ink, Lithography Primer, Chemistry for the Graphic Arts, Fundamentals of Lithographic Printing, Total Production Maintenance, and Paper Buying Primer

Item No. 9190L

\$320 Member; \$660 Non Member

www.printing.org/store

Web Offset Press Training Curriculum

Our Web Curriculum offers an in-depth study of eleven core subjects essential to the web offset press operator, from press makeready through preventive maintenance. There is exceptional coverage in the following areas of paper, color, web tension, ink and water balance, troubleshooting, reducing makeready, and SOPs.

Item No. 9170 Instructor's Manual
\$400 Member; \$800 Non Member
714 pp. 8.5x11. 2-volume set
0-88362-444-3

Item No. 9171 Trainee's Workbook
\$125 Member; \$250 Non Member
625 pp. 8.5x11. 2-volume set
0-88362-445-1
2004 / Spiral bound / 6th Edition

Related Quality & Process Controls Product
You may also be interested in
Printing Industries Two-Sided Web
Press Test Form on page R20



Web Training Kits

Instructor's Kit Includes:

Instructor's Manual w/CD-ROM;
Trainee Workbook, Web Offset Press
Operating, Web Troubleshooting
Guide

Item No. 9170S
\$500 Member; \$1,095 Non Member

Trainee's Kit Includes:

Trainees Workbook, Trainee Record
Booklet, Web Offset Press Operating,
and the Web Troubleshooting
Guide

Item No. 9170T
\$199 Member; \$400 Non Member

Reference Library Includes:

What the Printer Should Know
About Paper, What the Printer Should
Know About Ink, Lithography Primer,
Chemistry for the Graphic Arts, and
4 Best Practice Guides

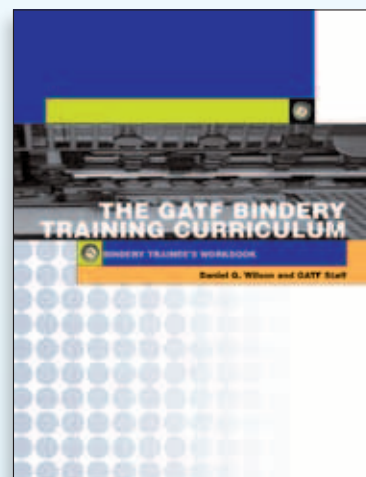
Item No. 9170L
\$310 Member; \$635 Non Member

Bindery Training Curriculum

Our Bindery Curriculum is an introductory program that provides a foundation of basic binding and finishing principles, terminology, and operating procedures essential to new bindery employees. With convenience in mind, this ready-to-use curriculum contains everything needed to conduct an introductory binding and finishing course at a school or printing facility with coverage on cutting, folding, saddle stitching, and adhesive binding.

Item No. 9160 Instructor Manual
\$300 Member; \$600 Non Member
432 pp. 8.5x11; 0-88362-476-1

Item No. 9161 Trainee Workbook
\$30 Member; \$45 Non Member
272 pp. 8.5x11; 0-88362-477-X 2003 / Spiral bound



Bindery Training Kits

Instructor's Kit Includes:

Instructor's Manual w/CD, Trainee
Workbook, At the Finishing Line:
A Primer for New Bindery Workers

Item No. 9160S
\$325 Member; \$690 Non Member

Trainee's Kit Includes:

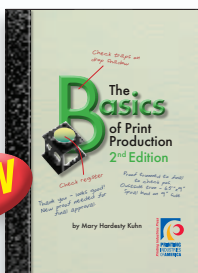
Trainee Workbook, At the Finishing
Line: A Primer for New Bindery
Workers

Item No. 9160T
\$45 Member; \$90 Non Member

Reference Library Includes:

Short History of Binding, Direct Mail
Pal, What the Printer Should Know
About Paper, FOLD, Basics of Print,
Materials Handling for the Printer

Item No. 9160L
\$330 Member; \$635 Non Member



Basics of Print Production, 2nd Edition

By Mary Hardesty Kuhn

Before a printed piece reaches the hands of its audience, numerous decisions are made to assure it conveys its message in the best possible manner. Kuhn explores every aspect of the graphic communications process from creative concept to delivery of the finished piece and shares image comparisons showing the difference in visual quality across paper grades.

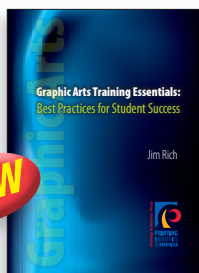
Item No. 17142

154 pp. 6x9

\$35 Member; \$45 Non Member

978-0-88362-687-0

2010 / Spiral bound / 2nd Edition



Graphic Arts Training Essentials: Best Practices for Student Success

By Jim Rich

In these economic times, you need to make sure you get your money's worth out of spending in areas such as training. Jim Rich focuses on real-world training practices to provide a practical tool for potential students and their employers to determine if training is necessary, assess abilities needed for a potential class, and formulate appropriate questions to ask before, during, and after a class.

Item No. 17891

98 pp. 7.5x10

\$30 Member; \$40 Non Member

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2010 / Perfectbound



Best Teaching Practices for Graphic Arts Trainers

By Jim Rich

Successful training programs do not happen by accident. The best programs adhere to planned activities as instructors apply expert knowledge, skill, logic, and common sense to delivering a training program.

Best Teaching Practices provides essential information about training, course development and delivery, and teaching practices that promote quality training methods in an easy-to-understand format.

Item No. 17892

122 pp. 7.5x10

\$30 Member; \$40 Non Member

978-0-88362-685-6

2010 / Perfectbound

Pocket Pal: A Graphic Arts Production Handbook

By International Paper Company

This longtime industry classic provides a comprehensive introduction to the graphic arts covering prepress, printing, postpress, paper, and history.

Item No. 19292

256 pp. 4.25x7.25

\$20 Member; \$25 Non Member

987-0-9772-7161-0

2007 / Perfectbound



Introduction to Graphic Communication

By Harvey Robert Levenson, Ph.D.

Gain a more thorough understanding of the history of printing, printing materials and processes, prepress, postpress and finishing, industry segments, business practices, sustainability, and corporate responsibility.

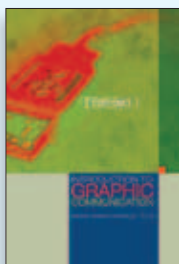
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256 pp. 5.5x8.5

\$30 Member; \$40 Non Member

978-0-88362-589-7

2007 / Perfectbound



Nine Steps to Effective and Efficient Press OKs

By Diane J. Biegert

Through her nine-step approach, Biegert takes the stress out of the press check by walking you through the process of preparing for and performing your press OK.

Item No. 1713

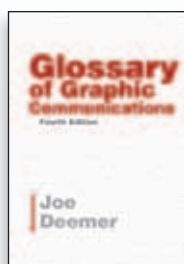
112 pp. 5.5x8.5

\$30 Member; \$40 Non Member

0-88362-314-5

2002 / Perfectbound





Glossary of Graphic Communication

Revised by Joe Deemer

Learn the terminology you need to know to be a successful printing and graphic arts professional with the 3,500+ terms in this extensive text.

Item No. 13054

534 pp. 5.5x8.5

\$55 Member; \$75 Non Member

978-0-88362-590-3

2008 / Perfectbound / 4th Edition



Careers in Printing

By Deanna Gentile and Sally Ann Flecker

Did you know printing is one of the largest industries in the U.S.? Here is a comprehensive, highly readable guide to everything you need to know to pursue a successful career in the print and graphic communications industry. Learn more facts about printing—and how you can become part of this important information technology.

Item No. 15462

200 pp. 7.5x8.5

\$30 Member; \$40 Non Member

0-88362-443-5

2004 / Perfectbound

Related Quality & Process Controls Product

You may also be interested in Pilot Color Tolerance Exercise on page R4



Communicating Color Effectively

Customer Education Program

This easy-to-use course will help you minimize wasted time, effort, and frayed client/printer relationships. Educate your clients and print buyers in additive and subtractive color theories; demonstrate proper conditions for viewing proofs; and teach about color limitations in the printing process.

Item No. 9201

84 pp. 8.5x11

\$175 Member; \$290 Non Member

0-88362-557-1

2006 / Spiral bound+CD; includes Field Guide to Color Reproduction

Creating Bulletproof PDFs

Customer Education Program

Provides the essential items to set up and conduct a 90-minute session to walk customers through the process of creating print-perfect files using Acrobat. Build rapport by teaching clients to eliminate common PDF problems. The step-by-step instructions in the kit can help you reduce costly PDF-related production problems.

Item No. 9200

96 pp. 8.5x11

\$195 Member; \$310 Non Member

0-88362-561-X

2005 / Spiral bound+CD

kit includes companion book PDF Print Production Guide

Web Offset Press Problem-Solving Training Program

Increase productivity and decrease downtime with efficient problem-solving techniques. Designed as focused and fast, this “crash course” covers key problem areas with orientation and review sessions. Twelve 60–90 minute sessions allow you to train the entire program from start to finish or pick and choose your modules.

Item No. 9180

164 pp. 8.5x11

\$395 Member; \$630 Non Member

0-88362-560-1

2005 / Spiral bound+CD; includes

Guide to Troubleshooting for the Web Press

Ergonomics Training Program

An essential resource on ergonomics issues and their solutions in the graphic communications industry. The package includes all the materials needed to understand, evaluate, and educate employees on ergonomics in the printing workplace. The guidelines can help to reduce injuries, lower worker's compensation costs, and improve productivity.

Item No. 4725

140 pp. Guidebook 8x10

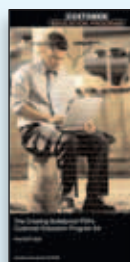
28 pp. Leader's Guide 8x10

also includes CD and Video

\$125 Member; \$250 Non Member

0-88362-448-6

2003 / Spiral bound



Related Quality & Process Controls Product

You may also be interested in Printing Industries Two-Sided Web Press Test Form on page R20



Bestseller
**The PDF Print
Production Guide**

 INCLUDES
COVERAGE
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ADOBE® 8

3
rd EDITION

PDF Print Production Guide

By Joseph Marin and Julie Shaffer

Learn the “how-to” tips, tricks, and techniques to prepare bulletproof, print-ready PDFs using CS3 and Adobe Acrobat 8. The authors show how files can be restored to their intended state with less reliance on third-party apps.

Item No. 17403

290 pp. 8x10

\$55 Member; \$75 Non Member
978-0-88362-584-2

2007 / Spiral / 3rd Edition



Digital Photography for Print

By Richard Adams, Natalia Gilewicz, Martin Habekost, Jason Lisi, Art Seto

Though there are numerous books on photography and digital cameras, none are specifically written with integration into a printing workflow in mind—until now. Chapters focus on equipment, file formats, pricing, working with printers, and more.

Item No. 1785

108 pp. 7.5x10

\$75 Member; \$99 Non Member
978-0-88362-622-1

2009 / Perfectbound

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Technology Watch Resometer
on page R25

**Related Quality &
Process Controls Product**

 You may also be interested in
Munsell ColorCheckers
on page R6


Secrets Revealed

By Printing Industries of America Experts

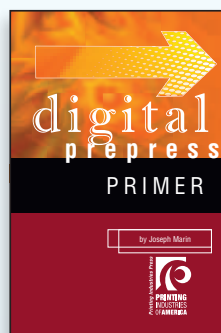
This quick-reference handbook reveals tips, techniques, and examples to help printers and creatives achieve efficient collaboration and communication in areas like design considerations, creating bulletproof PDFs, preflighting, the proofing process, press checks, and more.

Item No. 18412

152 pp. 8x8

\$30 Member; \$40 Non Member
978-0-88362-582-8

2007 / Double Wire-O / 2nd Edition



Digital Prepress Primer

By Joseph Marin

Dive into this illustrated, concise, non-technical examination of prepress technologies, digital hardware and software, and workflows. Topics range from job creation and color specifications through graphic arts workflow, common imaging file formats, preflighting, and digital output.

Item No. 1753

128 pp. 5.5x8.5

\$25 Member; \$40 Non Member
978-0-88362-563-7

2007 / Perfectbound

**Related Quality &
Process Controls Product**

 You may also be interested in
Color Control Bars
on page R12

**Related Design, Prepress,
and Color Titles Titles**

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Print-Ready (2010)**
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\$25 (M) / \$75 (NM)
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and Adjustment (2006)**
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Communicating Color (2006)
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(2006)**
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PDF Mythbusters (2007)
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**Practical Tools to Rev Up Your Prepress
Workflow (2007)**
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Books
Desktop Publishing Primer (2004)
Item No. 1733 176 pp.

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Principles of Color Reproduction (2001)
Item No. 1556 478 pp.

\$75 (M) / \$99 (NM)
Typography Primer (2000)
Item No. 1705 144 pp.

\$25 (M) / \$40 (NM)
Understanding Digital Color (1999)
Item No. 14332 400 pp.

\$55 (M) / \$75 (NM)
Understanding Digital Imposition (1998)
Item No. 1508 350 pp.

\$75 (M) / \$99 (NM)

Color Management Handbook: A Practical Guide

By Dr. Richard M. Adams, Dr. Abhay Sharma, Joseph Suffoletto

An invaluable resource for users who want to match or, more realistically, get an "optimal color reproduction" of the original sample. While historically a time-consuming and difficult process, current methods of color management covered in this guide allow color reproduction to be accomplished far more efficiently.

Item No. 1784

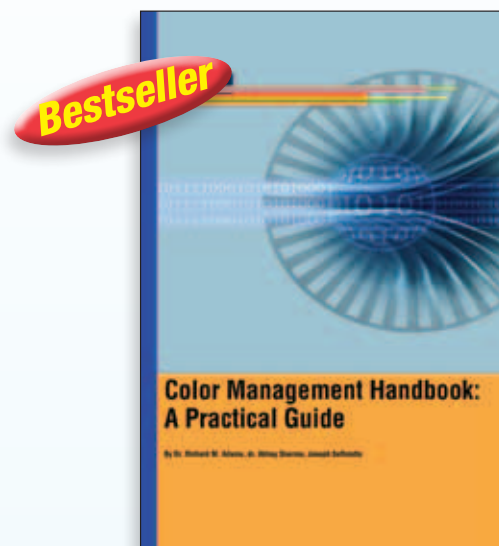
216 pp. 7.5x10

\$75 Member; \$99 Non Member

978-0-88362-587-3

2008 / Perfectbound

Related Quality & Process Controls Product
You may also be interested in
Printing Industries Proof Comparator
on page R8



Color Essentials Volumes 1–3

Color and Quality for the Graphic Arts and Sciences

By Gary G. Field

Use these books to develop your color quality judgment and analysis skills or to gain a more comprehensive understanding of the concepts.

Volume 1: Item No. 1735

112 pp., **0-88362-386-2**, 2001

Volume 2: Item No. 17352

104 pp., **0-88362-486-9**, 2004

Volume 3: Item No. 17353

118 pp. **978-0-88362-649-8**, 2008

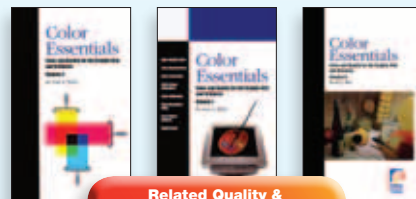
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\$40 each Non Member

Buy the full set of 3:

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PDFs of many of the essays are available at www.printing.org/store.
5.5x8.5 / Perfectbound



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Printing Industries RHEM Light
Indicator on page R2

Color and Its Reproduction: Fundamentals for the Digital Imaging and Printing Industry

By Gary G. Field

Are you looking to improve the way you define, produce, and evaluate color reproduction quality? Whether you are directly involved in the print production process or a designer, print buyer, sales rep, or general manager, the technical insights and fundamental concepts found here will guide you through various color issues in your daily printing processes.

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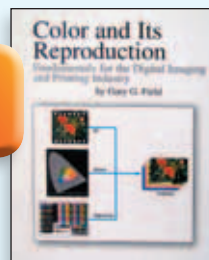
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2004 / Casebound / 3rd Edition

Related Quality & Process Controls Product
You may also be interested in
Altona Test Suite Application Kit
on page R24



Field Guide to Color Reproduction

By Gary G. Field

A concise but comprehensive overview of digital color reproduction in the printing industry, this "color primer" explores color quality and how individual characteristics of materials and processes interact with each other to influence the appearance of the printed image. An ideal introduction to color reproduction in the printing industry.

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176 pp. 5.5x8.5

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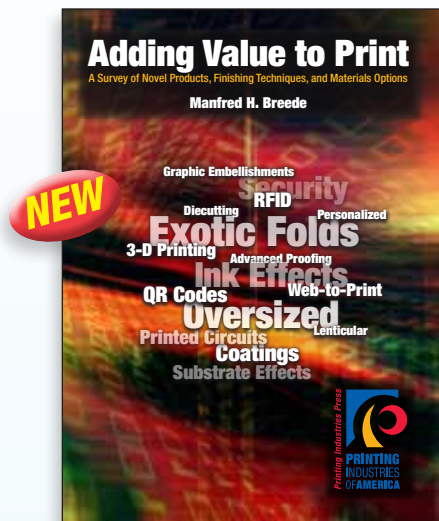
2004 / Perfectbound

Related Quality & Process Controls Product
You may also be interested in
HRR Pseudoisochromatic Test
on page R5



Technical Topics

Management & Planning



Adding Value to Print

By Manfred H. Brede

Explore the wide variety of reasons printing is here to stay as well as the ways this tried-and-true communication method can flourish—whether as a standalone product or as a complement to the latest technological advances. *Adding Value to Print* offers practical examples of how printers can offer valuable services to clients by examining innovative binding techniques, ink and substrates, printing in electronic applications, as well as novel, outside-the-box products that simply can't be duplicated outside of a pressroom.

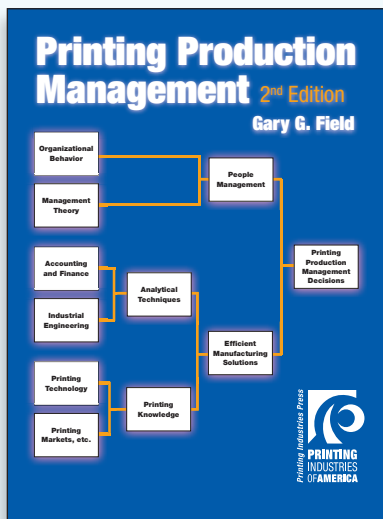
Item No. 1786

160 pp. 7.5x10

\$55 Member; \$75 Non Member

978-0-88362-5-648-1

2010 / Perfectbound



Printing Production Management

By Gary G. Field

In addition to interpersonal management and qualitative reasoning basics, this text delivers a systematic treatment of the problem-solving aspects of production management which are so critical to efficient production and profitability. Topics covered include plant capacity planning, equipment investment analysis, digital press scheduling strategies, production scheduling dynamics, inventory optimization, and quality process analysis.

Item No. 1758

198 pp. 7.5x10

\$55 Member; \$75 Non Member

978-0-88362-593-4

2009 / Perfectbound



Printing Estimating: Costing and Pricing Print and Digital Media

By Philip K. Ruggles

Printers must carefully analyze costs associated with manufacturing processes, workflow, information systems, and other components that contribute to the overall printing process. This book chronicles the way contemporary print providers estimate, cost, and price their work with the current state of technologies and their business environment in mind. Utilize “how-to” information on estimating paper or press time as well as “theory” topics such as management information systems, benchmarking, and decision-making tools.

Item No. 1782

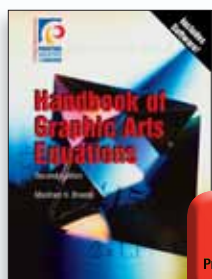
400 pp. 7.5x10

\$99 Member; \$139 Non Member

978-0-88362-621-4

2008 / Concealed Wire-O + CD / 5th Edition

www.printing.org/store



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You may also be interested in
Printing Industries Ghosting Test Form
on page R21

Handbook of Graphic Arts Equations

By Manfred H. Breede

If you are asked to calculate some of the fundamental principles of paper, print, type, and prepress, this book gives you the equations used, the theories behind them, and real-life examples of their use. Bonus software program, ABACUS, facilitates the calculation.

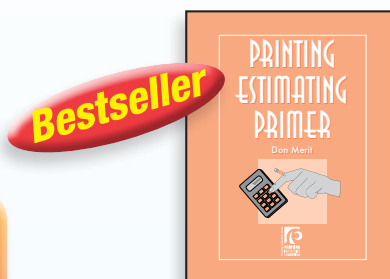
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\$55 Member; \$75 Non Member

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2006 / Perfectbound + Download /
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Printing Estimating Primer

By Don Merit

Besides outlining specifications and costs, the estimator must have a firm understanding of and plan for the complexities of the pressrun. Filling the text with forms and tables, Merit not only explains the basic principles of estimating but also provides samples to help an estimator perform the job more effectively.

Item No. 1712

64 pp. 8.5x11

\$25 Member; \$40 Non Member

0-88362-311-0

2000 / Perfectbound



Printing Plant Layout and Facility Design

By A. John Geis

Expanding, relocating, or building a new printing facility is a sizable undertaking—you need to know the best practices to develop optimum facility designs for printing operations and support services. Key considerations include area requirements, information networking, environmental controls and utilities, and more.

Item No: 15353

88 pp. 8.5x11

\$55 Member; \$75 Non Member

978-0-88362-651-1

2010 / Perfectbound / 3rd Edition

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PDF Reports

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Item No: 18119 48 pp.

\$25 (M) / \$50 (NM)

Survey of Management Information Systems, 2010

Item No. 20065 245 pp.

FREE (M); \$250 (NM)

Also available: Past editions of MIS Survey from 2006 on



Webinar Archives

Good Jobs Gone Bad, 2008 Edition (2008)

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Improving Your Job Planning: Tips from the Pros (2007)

Item No. WEB0708

\$25 (M) / \$75 (NM)

Maximizing the ROI of Your MIS (2007)

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Success Stories in JDF Automation (2009)

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Books

Frontline Supervision Primer (2001)

Item No. 1732 80 pp.

\$25 (M) / \$40 (NM)

Print Production Management Primer (2001)

Item No. 1720 64 pp.

\$25 (M) / \$40 (NM)

Print Production Scheduling Primer (2001)

Item No. 1719 40 pp.

\$25 (M) / \$40 (NM)

Paper Buying Primer (2001)

Item No. 1711 112 pp.

\$25 (M) / \$40 (NM)



What the Printer Should Know About Ink

By Dr. Nelson R. Eldred

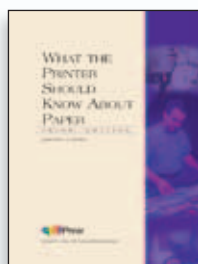
The title says it all—twenty chapters cover everything from the components of printing inks to testing and specification and include troubleshooting charts for inks for various processes.

Item No. 13113

352 pp. 7.5x10

\$75 Member; \$99 Non Member
0-88362-284-X

2001 / Casebound / 3rd Edition



What the Printer Should Know About Paper

By Lawrence A. Wilson

Solving a paper-related problem, or at least identifying its cause, is a skill that can save money and time. From paper manufacture to recycling, from properties and requirements to handling, this text provides the insight you need.

Item No. 13083

336 pp. 7.5x10

\$75 Member; \$99 Non Member
0-88362-210-6

1998 / Casebound / 3rd Edition



Materials Handling for the Printer

By A. John Geis

60% of all direct and indirect manufacturing costs in a printing plant are attributable to the movement of materials. Geis aims to help printers improve profits by reducing materials handling costs with actionable methods for streamlining materials handling procedures related to pallets, stacking, pick-and-pack, and more. Advances in materials handling automation are also examined.

Item No: 15363

140 pp. 8.5x11

\$55 Member; \$75 Non Member
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2010 / Perfectbound / 3rd Edition

Related Ink, Paper and Materials Titles



PDF Reports

Effects of Corrosive Resistant Fountain Solutions on Print Quality and Runnability (2007)

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Books

Chemistry for the Graphic Arts (2001)

Item No. 14013 400 pp.

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OSHA Primer: A Brief Introduction to OSHA and the Typical Regulatory Requirements for the Commercial Lithographic Industry—PDF

By Frederick Hartwig

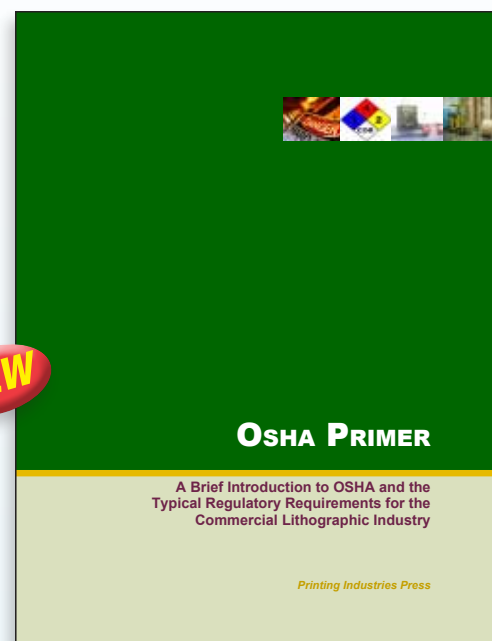
What OSHA regulations do I need to comply with? This simple resource provides an overview of Federal OSHA general industry regulations affecting the printing industry and basic compliance information. It's a good reference tool for printers who are new to dealing with safety and OSHA regulation or those individuals who simply need a refresher on the basic regulations. Coverage includes:

- Safety and Health Standards
- Recording and Reporting Rules
- Most-Often-Cited OSHA Standards
- Typical OSHA Standards for Lithographic Operations
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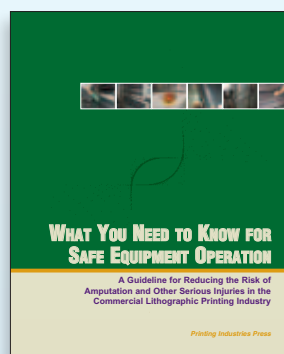
OSHA's National Emphasis Program (NEP) on Amputations has targeted the printing industry. With more printers facing the real possibility of surprise inspections, it is more important than ever to establish documented safety procedures and ensure your workers are properly protected from potential catastrophic injury.

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Lean Printing: Pathway to Success

By Kevin Cooper, Dr. Malcolm Keif, and Ken Macro

As the industry faces increased emphasis on "green" initiatives, it becomes more important to adopt Lean practices, operate with greater efficiency, and reduce waste. Laying the groundwork with the history and methods of Lean, and highlighting benefits successful Lean manufacturers enjoy, the authors examine basics to meet before tackling Lean initiatives, tools of Lean, and more. Discover the best ways to define goals, measure success, and maintain momentum during the shift to Lean manufacturing.

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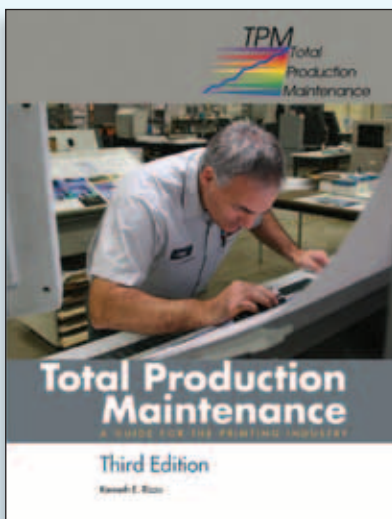
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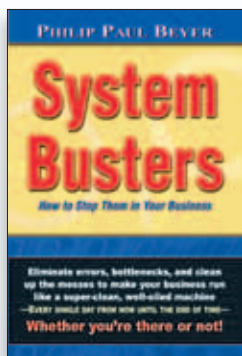
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IDEAlliance

This document describes how to calibrate an offset press, digital proofing system, or any other CMYK imaging device using the IDEAlliance G7® method. Step-by-step instructions take the reader through the manual calibration method (using hand-drawn graphs on G7 FanGraph™ paper) and the automated method using IDEALink Curve™ software.



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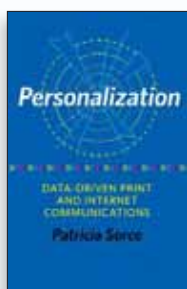
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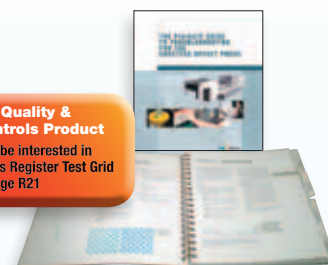
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FIRST 4.0

By Flexographic Technical Association

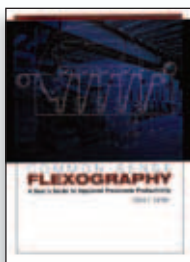
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