DUGGOU VISION TO VISUALS











IMAGINE PARTNER CREATE INSPIRE

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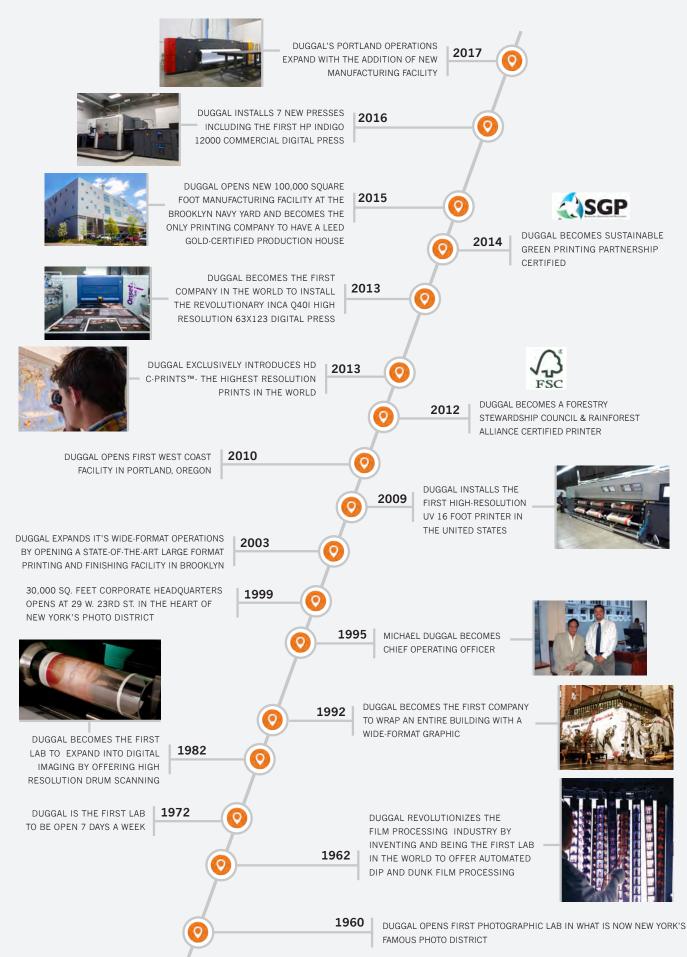
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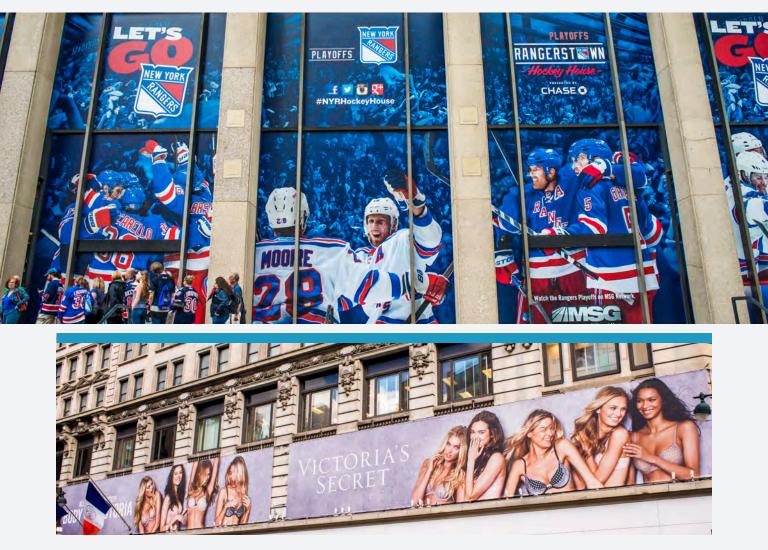
Retouching, CGI, Contract Proofing, Studio Photography, Scanning, Digital Film Output

A HISTORY OF INNOVATION & LEADERSHIP



WIDE FORMAT

In 1993, Duggal became the first company to fully wrap a building in a wide format mural. Since that groundbreaking success, we have led the graphics industry by being the first in the United States or the world to launch numerous wide format presses. We produce retail visuals, banners, building wraps, custom digital wallpaper, vinyl floor graphics, billboards, carpeting and fleet graphics around the world.



We offer a comprehensive assortment of materials, from highly durable vinyl and fine art canvas to lightweight textiles, magnetic materials, and a range of eco-friendly materials. Our printers are all VOC-free and feature the latest green technology and high-resolution print heads. Our large fleet of top-of-the-line UV, Latex, Dye-Sublimation and Archival Pigment printers allows us to offer the right solution for every need and to create high quality graphics at any size, quantity and speed required.

Our wide format printing is complemented by our finishing department that can seam, trim, die cut and weld thousands of graphics quickly and accurately. Our fulfillment and installation teams can then handle everything from nationwide rollouts to major events.







 An industry-leading 29 large format printers enable us to create stunning graphics in any quantity or size to meet the specifications needed for each project, whether for indoor or outdoor, daylight or night, or to last hundreds of years.









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DYE SUBLIMATION

Our fleet of Dye Sublimation fabric printers includes a state-of-the-art, 123" wide Reggiani Renoir Pro 340 which features 8 color and fluorescent capabilities as well as an astounding resolution from a 4 picoliter drop size. The Reggiani is eco-friendly; uses water based pigments and emits zero VOCs.

The Reggiani can print on a wide range of textiles including wrinkle-free, backlit, blockout and polyester canvas.

A perennial leader of innovation in the printing and graphics industry, Duggal is proud of its Vibrachrome technology, our response to the need for a vibrant yet durable solution to printing on metal. Vibrachrome is the product of a two-part heat transfer process in which two cutting-edge dye-sublimation machines complement each other for a permanent, vibrant print.













FLAT BED PRINTING

Duggal was the site for Fujifilm's first commercial installation globally of its Inca Onset Q40 UV high-speed digital press. With a droplet size of just 9 picoliters – three times less than the industry standard – the Inca gave Duggal the ability to provide unprecedented image detail and tonal range for industrial-volume runs.

Our Agfa Jeti Mira flatbed printer relies on UV LED curing to offer impressive print quality on a wide variety of media. The Mira features 3D capability for astounding depth and dimensionality, producing a tactile raised print, along with spot varnish capabilities.



In addition, our Rho 900 flatbed press and Océ Arizona 350 GT UV and Vutek 3 meter flatbed printers are capable of printing directly onto an assortment of substrates up to 2 inches thick, from display boards to aluminum and wood. Our presses also feature white ink for special effect printing on colored and metallic substrates.









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PHOTOGRAPHIC PRINTING & SERVICES

For more than 50 years, Duggal Visual Solutions has served as an industry leader in photographic printing and conventional lab services. Widely considered as the premier photo lab in the world, Duggal is a favorite among photographers, artists, museums and top retail brands.



Unlike other forms of graphic printing, photographic printing is true continuous tone. From our revolutionary new HD C-Prints® with an astounding 6,100 DPI to our five 72 inchwide Lightjet printers capable of producing photographic prints up to 72x120, Duggal has the solution you need. We also offer a wide selection of true archival photographic papers and display films in color and B&W.





- Largest amount of digital photographic printers in the United States
- 24-hour digital C department up to 72" x 120" in size
- HD C-Prints® highest resolution printer in the world with 6,100 apparent DPI
- Matte, glossy, deep matte, metallic, flex, duratrans, duraclear, true RC black & white, and fiber papers are available
- Over 50 years of experience

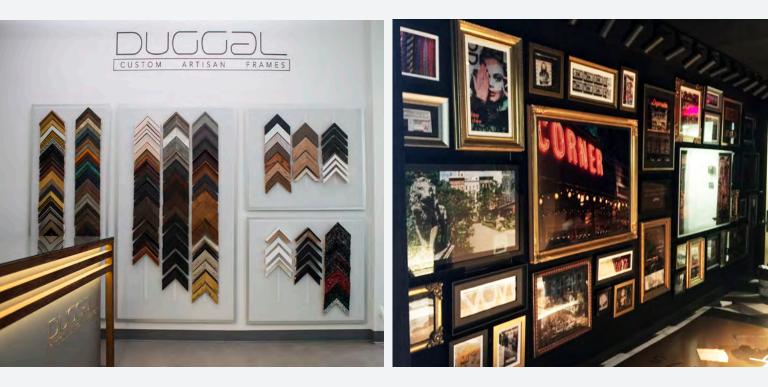
HD C-Prints[®] See The Difference You Have Been Missing



MOUNTING, LAMINATION & FRAMING

Duggal's skilled craftsmen and technical experts handle all aspects of display and print protection with a wide range of lamination, mounting and framing materials and techniques. Our custom mounting includes options from gallery-style plexi and anodized aluminum, to display boards such as Gatorboard and Sintra.

Complementing our mounting department is our artisan-framing department, conveniently located at our 29 W 23rd St headquarters. Hundreds of unique, beautifully-crafted frame options are on display including standard finishes, reclaimed wood and custom welded steel. Duggal can fabricate custom moldings to the exact color and sizing desired.





- Highly experienced craftsmen
- Dozens of substrates for mounting available from foamcore and gatorboard to anodized aluminum, brushed dibond, sintra and plexiglass
- Matte, glossy, and satin laminations available



PACKAGING COMPS

Duggal Packaging Solutions partners with corporate marketers, design studios and advertising agencies to create innovative, eye-catching and cost-effective packaging comps and digital short run packaging for all facets of the consumer packaged goods industry.

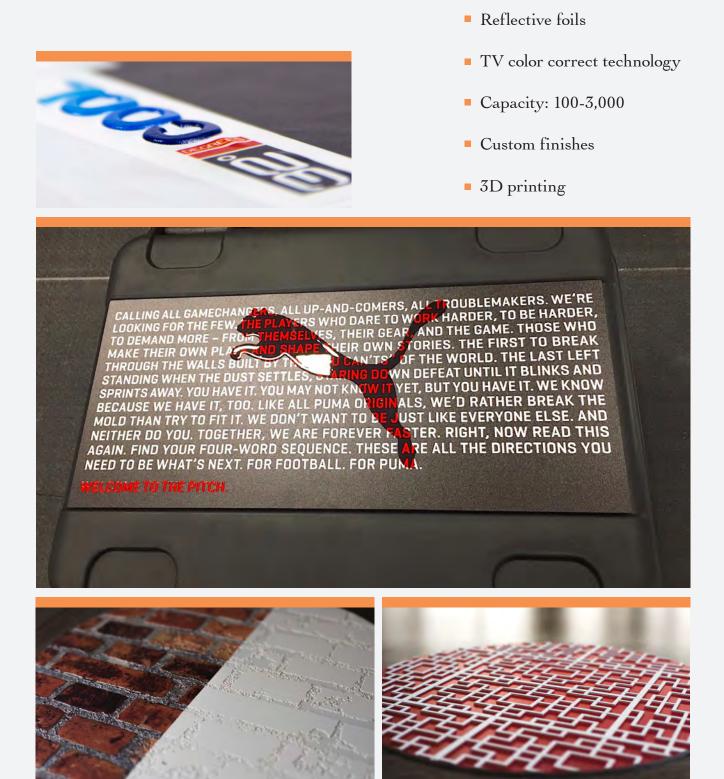
Duggal Packaging Solutions produces unique, high-resolution packaging comps with a variety of stocks, custom varnishes and embossing effects. Our packaging team offers more than 50 years of combined industry experience encompassing color management, production and consultancy.







Duggal features 3-D and lenticular flip printed mounted to special lenses utilizing advanced software to create the effect. We also offer dimensional prints with textures and 3-D printed objects.



RETOUCHING, CGI & DIGITAL STUDIO

As the first commercial lab in the country to install the then-revolutionary Shima Seiki retouching station in the 1980s, Duggal is a pioneer of digital retouching, CGI and image enhancement. That tradition continues at the 24-hour Duggal Creative Studio, a sun-drenched loft.



CREATIVE STUDIO

Born from a blend of talent and technology, the Creative Studio at Duggal offers an unprecedented approach to digital image enhancement and content creation. Our technicians understand and appreciate art, creating a stronger sense of synergy with our clients. We are approachable, accessible, and reliable.

Whether you're visiting our Chelsea, NYC loft in person or connecting from halfway around the world, the Creative Studio welcomes you to a more collaborative experience with industry influencers and top-of-the-line workflow tools.



Duggal's 24-hour Creative Studio is home to more than 30 curated and certified retouching and CGI professionals. We are G7 Master Printer Certified, providing an array of color correct creative imaging services from retail to fine art.



- Creative retouching
- Computer-generated imagery (CGI) and motion graphics
- HD capture
- Contract proofing
- Studio photography
- Traditional high-resolution scanning





CGI / MOTION GRAPHICS

At the nexus of technology and craftsmanship is Duggal's CGI & Motion department, where our talented team produces photorealistic imagery and animations with unsurpassed quality and artistry. Duggal hosts our own Render Farm to improve project speed and reduce client costs.

3D imaging unlocks incredible flexibility across print, digital and e-commerce applications, enabling advertisers to transform their delivery. Duggal's CGI & Motion services include:

- Modeling and prototype development
- Animation

- Programming
- Content creation across all platforms

Rendering

Content management and distribution



CREATIVE RETOUCHING

The Duggal Creative Studio is one of Manhattan's most prolific and experienced digital retouching studios. Our retouchers are artists who understand technology, and technologists who understand art. Collectively, Duggal's creative retouching team specializes in:



- Fashion, product, and fine art retouching
- High volume e-commerce retouching
- Photo restoration
- Campaign build-outs and fulfillment





DIGITAL COMMERCIAL PRINTING

Duggal's Manhattan headquarters is home to the HP Indigo 5900 and 12000 digital sheet fed presses. These 7 color Indigo presses print with astounding speed and detail, allowing us to produce top-quality brochures, photo books, cards, portfolios, point of purchase visuals, invitations, direct mail and marketing materials in run lengths from one to thousands of pieces. Variable data printing allows us to customize each piece for different audiences in continuous print runs.



- Indigo 12000 prints on cardstock up to 18 pt.
- Indigo 5900 prints on stock up to 24 pt.
- Prints on synthetic, canvas, window clings, metalized substrates and colored substrates
- Ultra-sharp image quality and precise color matching, reaching up to 97% of Pantone colors and using up to 7 ink stations on press
- Lightning-fast printing speed of up to 4600 29" sheets per hour





With the ability to print onto cardstock as thick as 18 pt., the Indigo 12000 is a more efficient alternative to traditional offset printing for short-to-medium-run commercial printing needs. It requires no plates and can produce anything from a one-off to a high volume run of tens of thousands of pieces.

Our Indigo presses are complemented by our extensive onsite finishing capabilities including foil stamping, binding, cutting and lamination services. Projects produced on Duggal's Indigo presses have won multiple Excellence in Print Awards.

enters

- 29.5" x 20.9" maximum sheet size
- 20" x 29" print size

Winner Winner

Inkspiration Awards

Inkspiration Awards Winner

 Applications: Point-of-sale graphics, mailers, brochures, books, catalogs, posters and more

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DIGITAL SIGNAGE & MULTIMEDIA

Duggal brings 50 years of experience at the forefront of visual communications and customer engagement to digital signage, display and interactive merchandising.

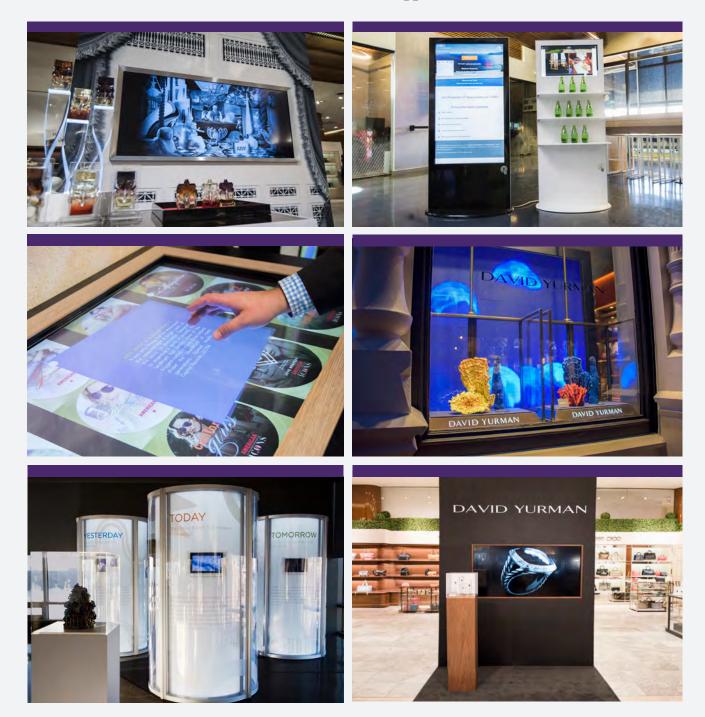
Duggal provides full service, concept-to-creation displays. From 3D renderings to digital content showcased in custom fabricated fixtures installed and maintained globally. We produce highly customized single installations as well as create and manage dynamic networks of over 1,000 locations.

Our digital team applies their knowledge and experience of the newest technologies in the design of unique multimedia experience packages. We are a value-added distributor for premier screen manufacturers globally and offer many unique and exclusive technologies.



- Digital expertise in everything from electronics and sensors to programming and lighting, working alongside our fabrication team to ensure seamless design-to-display integration with custom video, animation and graphics
- Nationwide installation services

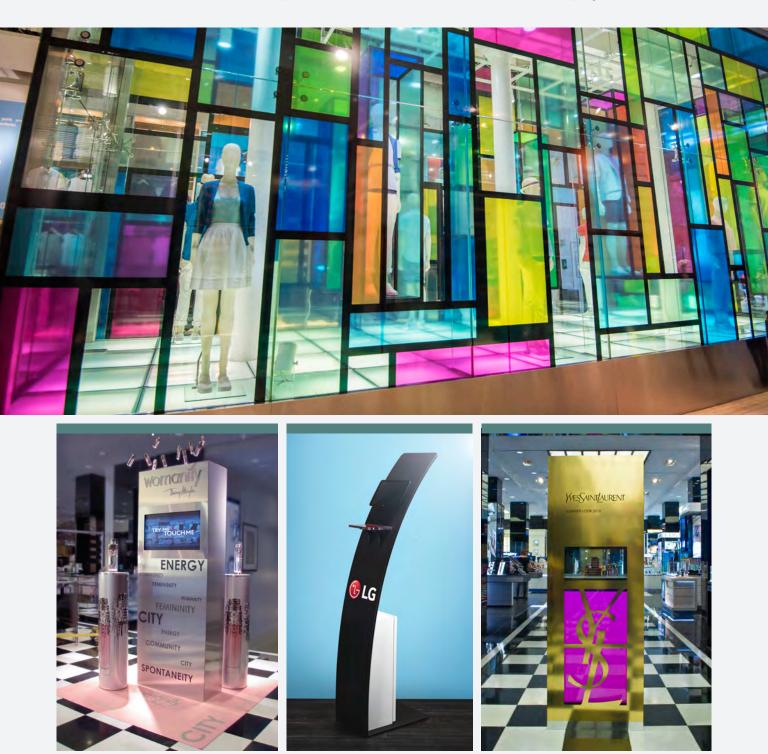
- Broadcast-quality film and video conversion services - including damaged film - into high-end digital mulit-format video transfers
- Custom digital interactive experiences
- Network management, maintenance & support



DISPLAYS AND FIXTURES

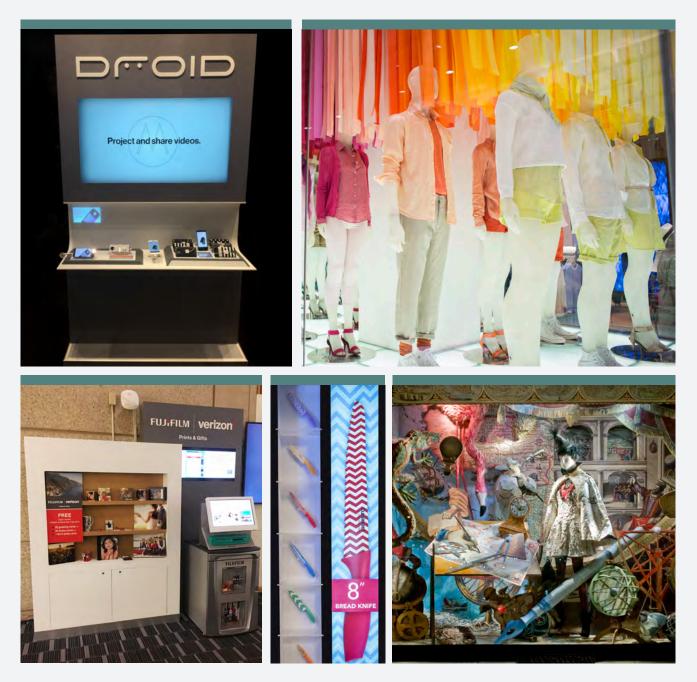
Duggal custom-fabricated displays and fixtures offer a full range of solutions for stores, showrooms, tradeshows, hotels and exhibitions. Duggal designers create 3D renderings of your display before fabrication to ensure your satisfaction.

Our craftsmen use the latest equipment to fabricate unique one-off displays and campaigns for thousands of locations, all produced in-house at our dedicated display facilities.



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We consult and collaborate with retailers to create powerful, eye-grabbing campaigns. With design, interactive, printing, mounting, fabrication and installation experts all in-house, it gives Duggal an unmatched ability to produce innovative displays quickly and on budget.



- Durable and easy-to-manage portable displays
- Consultation and collaboration with retailers to create powerful, eye-grabbing installations
- In-house design, interactive, printing, mounting, fabrication and installation
- Window displays utilizing a variety of media from photographic backdrops and CAD Cut vinyl to LED lightboxes and interactive multimedia touchscreens

LIGHTBOXES

Duggal designs and fabricates custom lightboxes for indoor and outdoor applications. Our energy-efficient lightboxes transform spaces with dazzling brightness and color consistent LEDs. Duggal's UL-listed facility designs and engineers custom illuminated displays, from ultra-thin LED snap frames to massive, grand format fabric lightboxes.



Turn any space into a luminous graphic wall with a custom grand format lightbox engineered by Duggal.

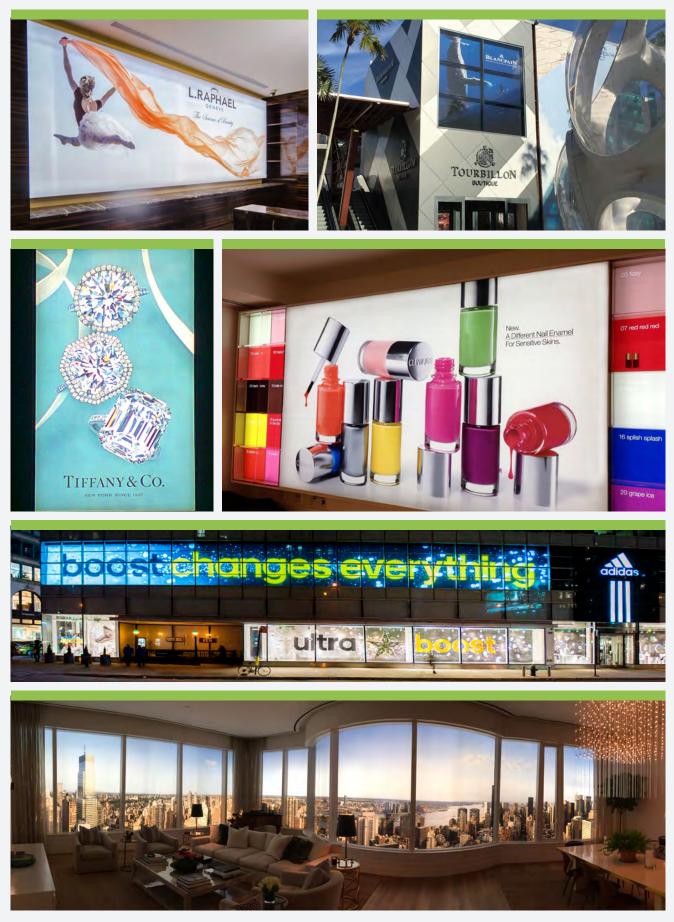
- Ultra-thin snap frame LED light boxes
- Grand format lightboxes available up to 15'x60' seamless, with easy graphics swaps and special effect lighting controls





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EXHIBITIONS AND EVENTS

Duggal Global Events is a full service event production company with an unparalleled ability to develop, manage and execute your vision. By incorporating development, design, management, print, fabrication and installation anywhere in the world, Duggal seamlessly integrates all elements with visionary creativity for a lasting impact, while also shortening lead times and reducing cost.

Hundreds of museums nationwide include works printed by Duggal. We take great pride in our global reputation as a go-to resource for exhibition design and installation.





The Duggal Greenhouse is a premier venue for any event. Our 35,000-square-foot event space on the Brooklyn banks of the East River features spectacular Manhattan and bridge views, a waterfront patio and bar, catering, secured entry and yacht transportation services.







DUGGAL greenhouse

- Ground floor: 29,190 square feet
- Mezzanine level: 4,750 square feet
- Capacity: 100-3,000
- 600 amps at 208 volts from the cam lock
- System consulting, planning and custom design
- Theme and decor program development same-day setup

For more information visit www.duggalgreenhouse.com





DESIGN SERVICES AND INNOVATION LAB

Duggal provides graphic design, fixture design, store layout and exhibition design services. Our full solution approach includes Solid Works, AutoCAD and VectorWorks 3D renderings, as well as mechanical drawings that our production team can print, fabricate and install anywhere in the world.



Offering a complete set of in-house solutions from design to fabrication and installation, Duggal streamlines workflow while maintaining the highest level of quality and innovation.

By combining mechanical and visual design with our vast knowledge of interactive technology, multimedia, substrates, production possibilities and install logistics, Duggal helps stretch creative boundaries with fixtures and visuals of all shapes and sizes. We are proud to be a trusted design partner for museum exhibitions, gallery openings, events and retail campaigns worldwide.

- Duggal designers create highly detailed mechanical drawings
- From 2D representations and layouts to 3D interactive renderings, we'll help you understand what your graphics and fixtures will look like before production













Duggal's Creative Director **Glenn Rabbach** and CEO **Michael Duggal** accepting GlobalShop's Award for Best in Competition and Best in Show.

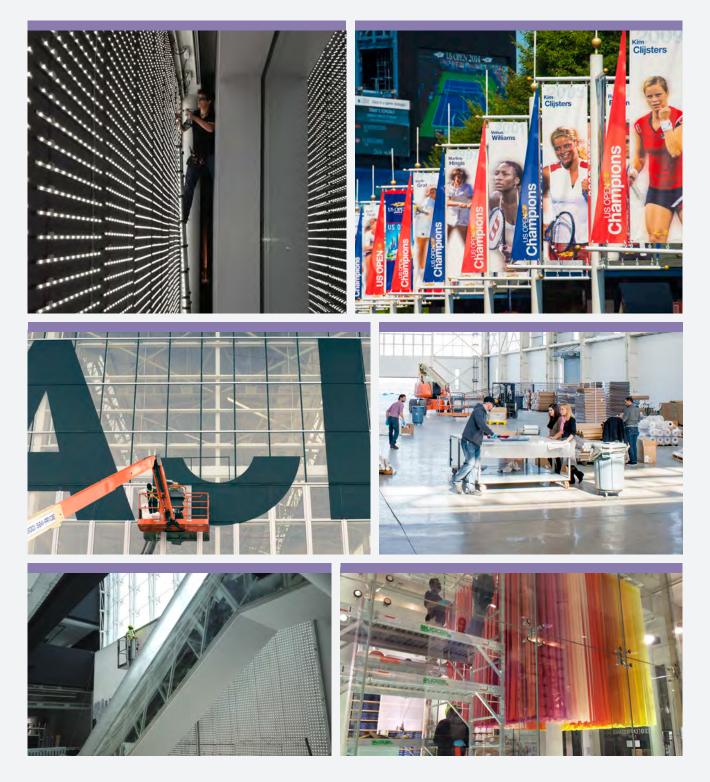
INSTALLATION, FULFILLMENT AND PROJECT MANAGEMENT

Duggal's fulfillment team coordinates logistics, packing, shipping and installations around the world. We complete everything from exclusive single-site exhibition installations to thousand-store installation rollout programs worldwide.



Our large in-house installation team is supplemented by our global network of installers that are managed and evaluated to ensure the best service.

- 40,000 square feet of warehouse space to stage, pack, store and ship your order
- Develop, install and manage print campaigns, digital signage and everything in between
- In-house fullfilment team experienced in installing fine art in galleries and museums, same-day tradeshow setups and overnight retail transformations



VISION TO VISUALS

DIGITAL PRINT CGI & MOTION VIDEO INTERACTIVE MEDIA CUSTOM DISPLAYS LED LIGHTBOXES INSTALLATION & PROJECT MANAGEMENT



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