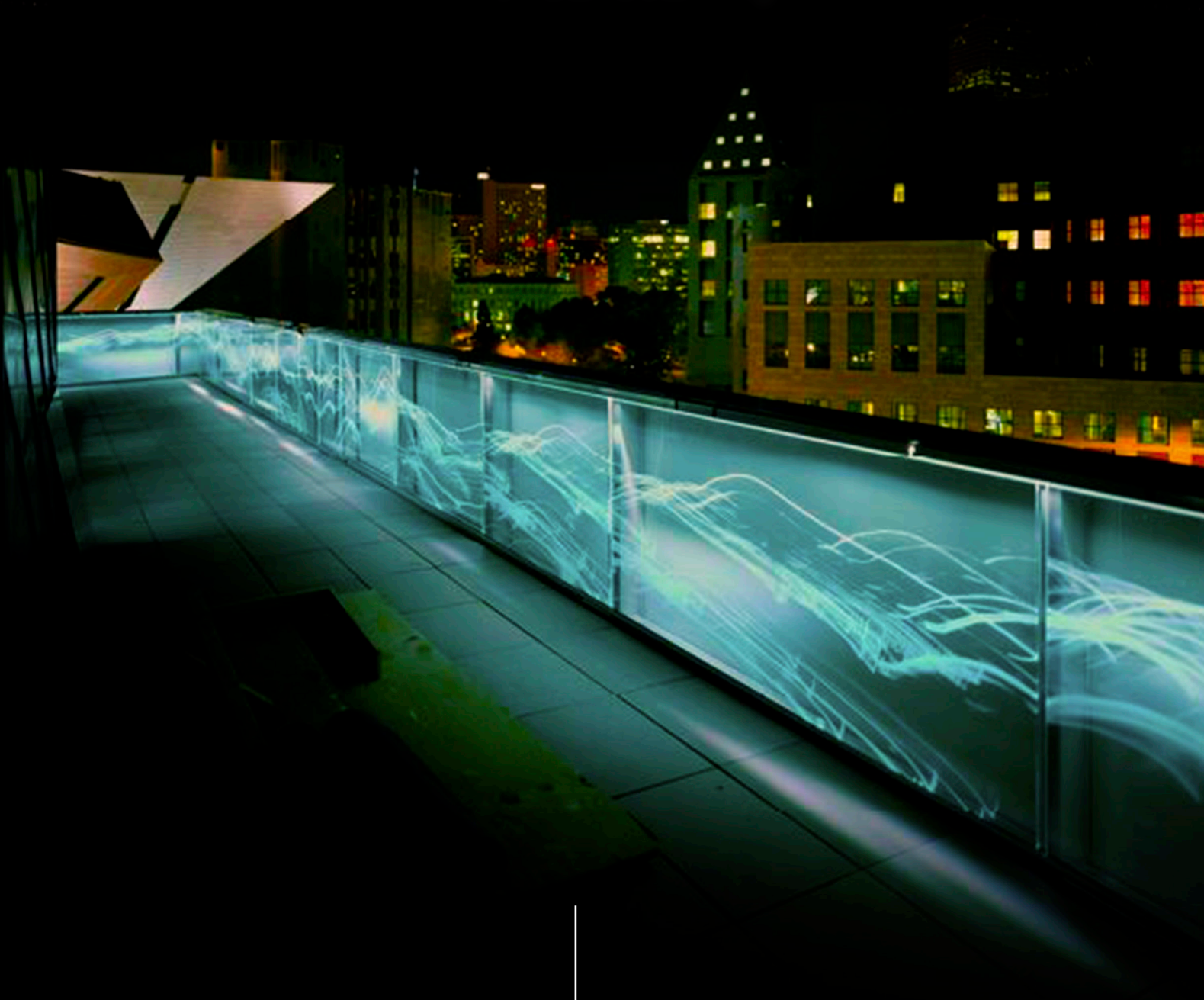


# CAPABILITIES

of Sandcarving



**IKONICS Imaging** is the world leader in decorative sandcarving solutions, including: photoresist films, equipment, processing tools and customer education. Contact your sales representative at [ikonicsimaging.com](http://ikonicsimaging.com) for more information.



**CRYSTALBLAST**

ELITE  
**3.0**

CRYSTALBLAST

CRYSTALBLAST  
ELITE 3.0



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### COVER IMAGE

*Large format glass engraved halftone of mountain range, lit with LED.*





**STAGE CARVING**  
*created with R5*



## PHOTORESIST FILM

### STEP 1: EXPOSE

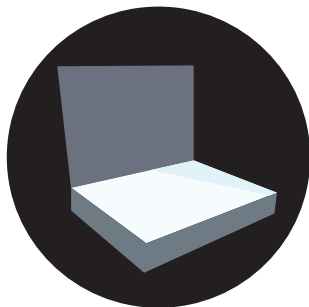
Computer



Printer



Exposure



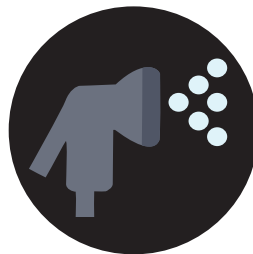
### STEP 2: BLAST

RapidMask  
Mask Application

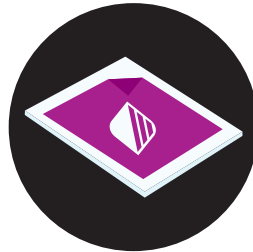


OR

Washout



Mask Application



Blast!

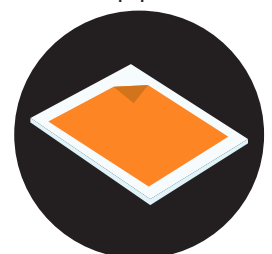


Blast!

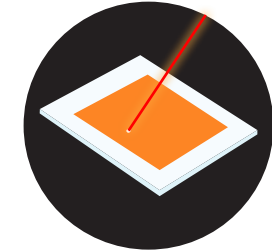


## LASER MASK & TAPE

Laser  
Mask Application



Laser



Blast!



# WHY SANDCARVING?



## EFFICIENT

The efficiency of sandcarving begins with SmartFlex. SmartFlex is a comprehensive method that brings together all pieces of the sandcarving process, enabling the entire system to work together. The SmartFlex process stems from a long tradition at IKONICS Imaging to help customers make improvements in their production efficiency. The art department, acetate printing, mask production, application, blasting, cleaning and even packing work together in a flow, as the production team “flex” from station to station.



## CLEANFLO TECHNOLOGY

Is sandcarving clean? Absolutely. Sandcarving equipment has come a long way since the days of sandblasting rust off a car. The IKONICS Imaging CrystalBlast® line of sandcarving equipment with our patented CleanFlo technology, designed and engineered in partnership with Media Blast & Abrasive, Inc., is the most conscientiously engineered equipment of its kind in the world. The enclosed cabinets with built-in dust collection systems have one air change per second, allowing the user to clearly see the substrate being carved through the viewing window.



## FINE DETAIL

The lifeblood of any sandcarving operation is the mask material. Sandcarving with photoresist film or laser mask produces finer detail than other imaging methods. Uniform carving of a substrate with the ability to carve lines as small as .5 pt makes sandcarving the finest and best looking imaging option.



## UNIQUE EFFECTS

Unique effects, attainable only through sandcarving, add elegance and value, making every carved substrate stand out among the rest. Techniques such as color filling, stagecarving and shading allow for images and textures that will be sure to turn heads.



## POTENTIAL MARKETS

Market opportunities for sandcarving are as vast as they are diverse. What makes you comfortable? What makes you excited? Perhaps you have ties to a certain market—your father-in-law owns a sign company, your sister manages a gift shop, you live next to Mount Rushmore and have a thing for selling to tourists, etc. While it is important that you concentrate efforts on markets that are commercially viable, it is equally important that you are comfortable serving them. Identify your markets and imagine the possibilities.

- Architectural Applications
- Restaurant Partitions
- Shower Doors
- Donor Walls
- Memorials
- Tabletops
- Windows
- Signage
- Awards & Recognition
- And Much More...





# AUTOMATED WASHOUT EQUIPMENT

Developed to improve photoresist film washout efficiency, the IKONICS Imaging AquaBlast® line of automated washout equipment is the latest in a quarter-century history of customer-driven innovation. Designed for customers looking to eliminate handheld spray guns and automate their washout process, AquaBlast equipment offers high speed film washout in a clean, contained cabinet. With patented SmartFlo technology, the SmartFlo Eco-Pump and SmartFlo Nozzles washout film faster than competitive models, while using up to 80% less water, making AquaBlast automated washout equipment the truly Green automatic washout solution.



## AQUABLAST ELITE WITH SMARTFLO TECHNOLOGY

The AquaBlast Elite was designed using valuable feedback from experienced professionals who were unhappy with the limitations, mess, and running costs of their existing machines.

With the Patented SmartFlo Design, the AquaBlast Elite is the industry's cleanest and most efficient automated washout machine.

Combining the SmartFlo Eco-Pump technology with SmartFlo Nozzles, the AquaBlast Elite washes out masks faster than existing models, while using up to 80% less water, making the AquaBlast Elite the first truly Green automatic washout machine.



## AQUABLAST PRO WITH SMARTFLO TECHNOLOGY

The AquaBlast Pro was designed for Mid-size companies that typically use (1-4)100' rolls of film per month and want to make their process more efficient by automating the washout. The AquaBlast Pro washes masks faster than competitive automatic washout equipment, and uses 1/5 of the water...which is more than 80% water savings.

With our Patented SmartFlo Design, the AquaBlast line of equipment is the Industries cleanest and most efficient automated washout machines available today.

Combining our SmartFlo Eco-Pump technology, with our SmartFlo Nozzles, the AquaBlast Pro washes out masks faster, while calling for only 2 ¼ gallons of water per minute...this makes the AquaBlast Pro the "Greenest" automatic washout machine available in the market.

Both AquaBlast models use the enclosed pressurized patented design that has no open water storage tank causing possible spills and leaks with humidity loss. This patented design prevents possible dry pump operation and pump damage.

# PROFESSIONAL SANDCARVING EQUIPMENT

The IKONICS Imaging CrystalBlast® line of sandcarving equipment, designed and engineered in partnership with Media Blast & Abrasive, Inc., is the most conscientiously engineered equipment of its kind in the world. Crafted with the input from generations of customers from every type – from the smallest, most entrepreneurial trophy shop owner to NASA – the CrystalBlast line represents the pinnacle of sandcarving expertise. Made in America and distributed globally, the CrystalBlast line now includes models across the price and function spectrum.



## LARGE FORMAT SIPHON BLASTERS SHOWN: CRYSTALBLAST NAVIGATOR

When considering which type of blast machine to use, Siphon or Direct Pressure, companies should consider the size of the substrate, the etch depth desired, and if the parts will be manually blasted or if automation is required.

Siphon blasters are generally used for large pieces of glass in the architectural industry. Siphon blasters use large nozzles that generate a wide format abrasive spray, allowing the operator to light etch large areas of glass quickly. If automation is desired for large format blasting, Siphon units are available to automate the blasting process.

The CrystalBlast Navigator, *shown above*, is a pass-through sandcarving siphon unit designed to permit smart part navigation through the unit using “Hopper-Less” machine technology. The Navigator uses new technology to lower the operating height of the machine track, creating a larger sandcarving area.



## PRESSURE POT BLASTERS SHOWN: CRYSTALBLAST ELITE 3.0

Direct-pressure delivery machines provide a more focused pattern and deeper carving, producing a hand-made, expensive look. Pressure pot blasters work faster (up to 4x faster) than siphon-feed blasters. Further, pressure-pots allow for more control of the blast media and pressure. With a pressure pot, you can blast at pressures as low as 5 psi for shading effects, and at very high pressures (60 – 80 psi), for hard substrates such as stone, brick, or granite.

Truly peerless, the CrystalBlast Elite 3.0, *shown above*, is the Total Ergonomic Machine designed to meet the needs of any sandcarving facility. Ergonomic features such as seated or standing operation, adjustable foot treadle, micro sized abrasive hose, fully padded armrest and large view window puts the Elite 3.0 in a class of its own.

Unique to the CrystalBlast Elite 3.0 is our Patented CleanFlo Technology, which includes a 700 cfm exhaust blower with 110 sq. ft. certified filter cartridge. The Elite 3.0 also contains a removable, patented, Cyclone 240 separator reclaimer that prevents the loss of even the smallest abrasive up to 240 mesh. The Elite 3.0 also includes LED lighting and high pressure long wear industrial Lexair valve for easy operation. All the combined features showcase the innovation and technology of the CrystalBlast Elite 3.0's design.





GIFT/PROMOTIONAL  
INDUSTRY

Offer each customer exactly what he or she is looking for by personalizing popular gift and promotional items. Add customization to tumblers, wood picture frames, crystal awards, wine bottles, ceramic mugs, glass vases and so much more.



ARCHITECTURAL  
INDUSTRY

Large format etched glass creates a “Wow” factor when incorporated into architectural design.





## AWARDS INDUSTRY

Custom awards and trophies leave a lasting impression. Engraving plaques, medals and custom awards for athletes, business awards, sports events, and ceremonies is a large industry.

## WINE BOTTLE INDUSTRY

Custom engraving on a bottle of wine sends a message that will not quickly be forgotten. Color-fill multiple colors into an engraved wine bottle to make artwork or wording really stand out.



## MONUMENT INDUSTRY

From traditional lettering to frames or graphic elements, sandblasting lends timeless elegance and textural appeal to memorial headstones and other stone monuments.



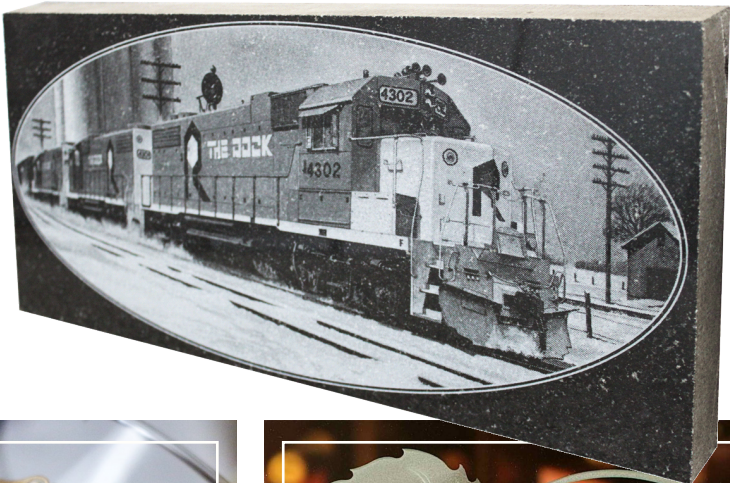


# PHOTORESIST FILMS

The lifeblood of any sandcarving operation is the mask material. The finest equipment and the most talented operator are rendered incompetent when the mask fails to perform, ruining valuable substrates, wasting critical time and compromising profitability. The most successful sandcarving businesses recognize this imperative. IKONICS Imaging has spent more time, more Research & Development dollars, more intellectual property and more corporate energy developing its world-leading, best-selling, best-performing line of photoresist and Laser Mask films.

## HALFTONE ON GRANITE

*created with RapidMask HD*



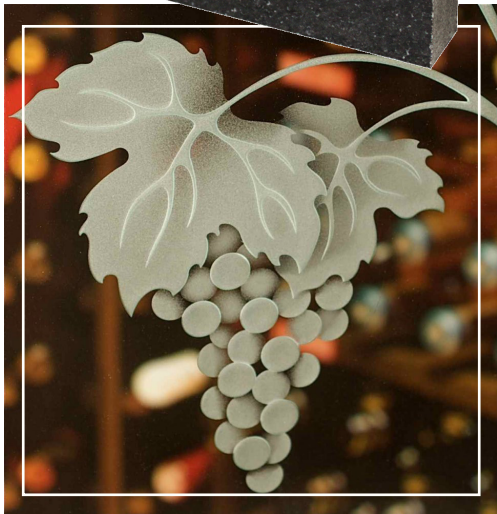
## STAGE CARVING

*created with R5*



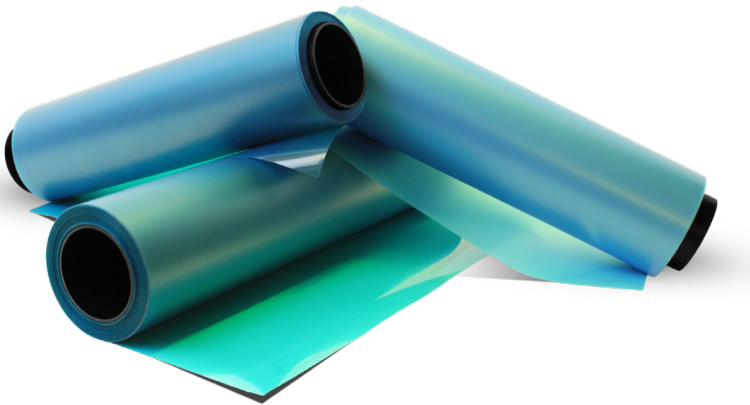
## COLOR FILL

*created with UltraPeel 5*



## LARGE FORMAT GLASS

*created with R3*



## NORTH AMERICA

Antigua and Barbuda  
Bahamas  
Barbados  
Belize  
Canada  
Costa Rica  
Dominica  
Dominican Republic  
El Salvador  
Grenada  
Guatemala  
Haiti  
Honduras  
Jamaica  
Mexico  
Nicaragua  
Panama  
Puerto Rico  
Saint Kitts and Nevis  
Saint Lucia  
Saint Vincent and the Grenadines  
Trinidad and Tobago  
United States of America (USA)

## SOUTH AMERICA

Argentina  
Bolivia  
Brazil  
Chile  
Colombia  
Ecuador  
Guyana  
Paraguay  
Peru  
Suriname  
Uruguay  
Venezuela

## AFRICA

South Africa

## ASIA

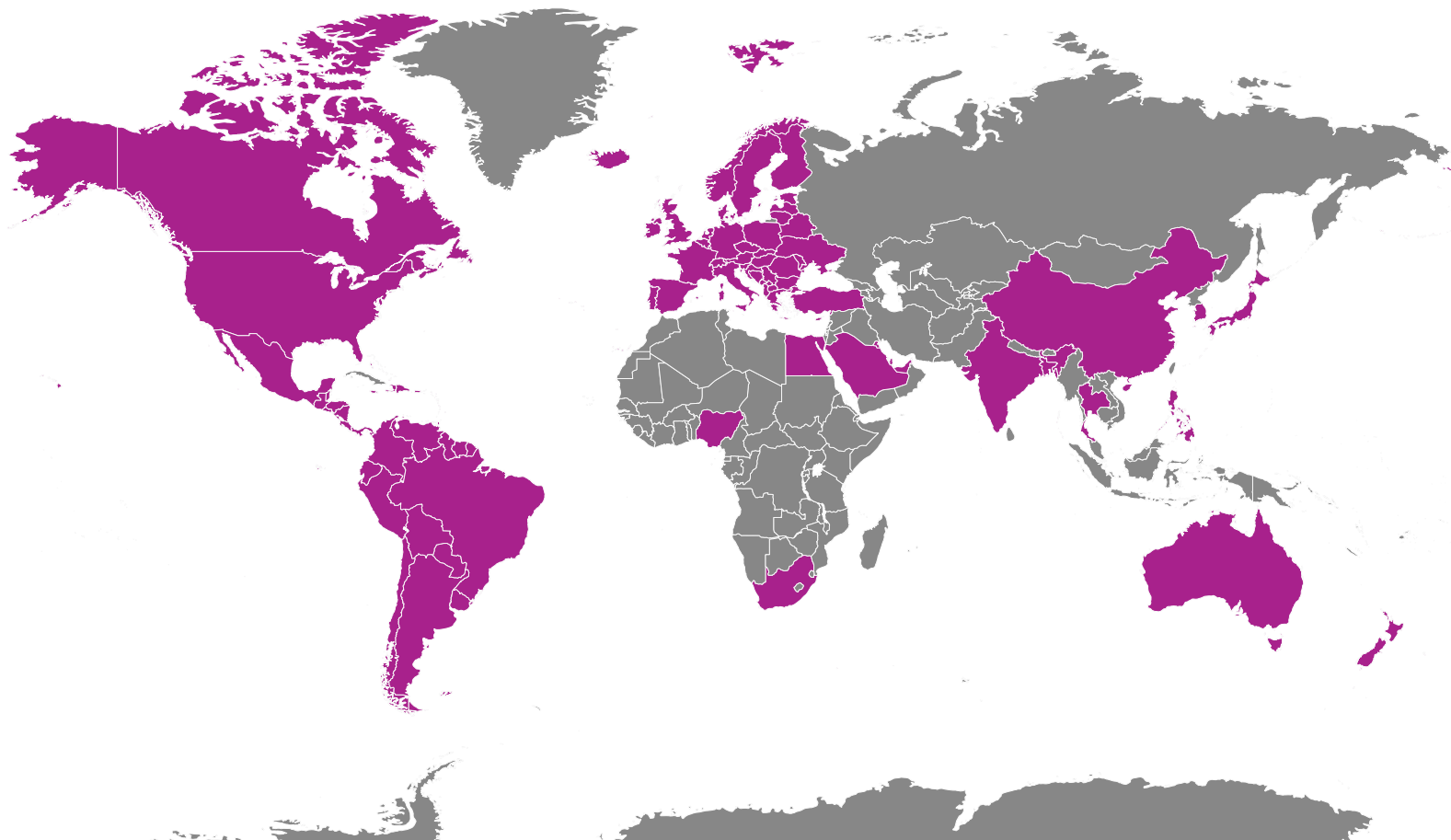
Bangladesh  
Bahrain  
China  
India  
Japan  
Kuwait  
Philippines  
Qatar  
Saudi Arabia  
South Korea  
Thailand  
United Arab Emirates

## AUSTRALIA

Australia  
New Zealand

## EUROPE

Albania	Lithuania
Andorra	Luxembourg
Austria	Macedonia
Belarus	Malta
Belgium	Moldova
Bosnia and Herzegovina	Monaco
Bulgaria	Montenegro
Croatia	Netherlands
Cyprus	Norway
Czech Republic	Poland
Denmark	Portugal
Estonia	Romania
Finland	San Marino
France	Serbia
Germany	Slovakia
Greece	Slovenia
Hungary	Spain
Iceland	Sweden
Ireland	Switzerland
Italy	Turkey
Kosovo	Ukraine
Latvia	United Kingdom
Liechtenstein	Vatican City





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