



HWI

HarbisonWalker  
International™

# REFRACTORY SOLUTIONS FOR ART GLASS



**A CLEAR  
COMPETITIVE EDGE.**

FOR ALMOST  
100 YEARS,  
WE'VE PIONEERED  
REFRACTORY  
GLASS SOLUTIONS  
THAT CONTINUE  
TO SHATTER  
INDUSTRY  
EXPECTATIONS.





**HarbisonWalker International (HWI) provides the largest refractory manufacturing capacity to the glass industry in North America.** Over 85 years of research and development in the glass market have enabled us to pioneer innovative glass solutions.

We support artisans who produce glass by hand, by blowing or pressing. Usually the objects are being formed by remelting already-formed glass and fusing different colors together to form new shapes like marbles, stained glass, glassware, or simply art.

No matter what your art glass needs are, we have dedicated glass application specialists who can build custom solutions, troubleshoot issues, and offer a range of consultation services.

Get to know the experts who anticipate, respond, and deliver like no one else. We're nearly 2,000 people with one goal: to keep your business moving forward.



There are only a few basic styles of art glass furnaces, and they vary widely in design and function. They may be used to melt raw batch, cullet, or both. Some will melt only clear glass, while others will melt colors.

- The **free-standing pot furnace** is the most common furnace type. Many small studios use these furnaces because they are easy to construct, and the crucible is easy to replace if it breaks or wears out. Some studios prefer the **invested crucible furnace** design because the pot is much less prone to thermal shock. The backup material also allows the artist to keep working for a period of time after the pot has broken.
- The **day tank** is used to melt and contain molten glass without the use of a crucible. Usually “charged” (filled with batch or cullet) or “banked” (reduced in temperature, but glass is still molten) at night, the term “day tank” refers to the time that the furnace is actually used to produce glass.
- **Continuous-melt furnaces** are similar to the day tank, but due to the continuous flow of glass, slightly higher-quality materials are required.









# THE MAGIC OF GLASS

HarbisonWalker International is a proud sponsor of the Keystone College Mobile Glass Studio. Mr. James Harmon and a group of eight apprentices from all over the world worked together to build this studio in the summer of 2015. The purpose of this studio is to teach “the magic of glass” at high schools, festivals, and fairs around the region.



A full-page background image showing a person from the waist down, wearing dark trousers, holding a large, clear glass sphere. The scene is dimly lit with a blueish tint. On the left side, there is a vertical column of decorative symbols consisting of three right-pointing chevrons (>>>) repeated multiple times.

HIGH  
PERFORMANCE  
AT EVERY  
TURN



# NO ONE DELIVERS LIKE WE DO

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## GLOBAL SOURCING CENTERS

The products you need. When you need them.

HarbisonWalker International delivers like a world-class pro. Here's how:

- 30 North American global sourcing centers providing one of the quickest response times in the industry
- Dedicated sales personnel ready to respond 24/7/365
- Ready-to-ship inventory of our best-selling glass products
- Usually shipping with same-day or next-day delivery
- Staging and shipping to anywhere in the world
- Inventory solutions tailored to your business

Call 1-800-887-5555 to immediately be connected to the global sourcing center nearest you.







## LIGHTNING-FAST DELIVERY

Of course our 30 global sourcing centers across North America are strategically placed. Of course we ship around the world at a moment’s notice. Of course we stock our most popular products so that you can have them the same day or the next day. Let us work with you to reduce your potential for downtime.

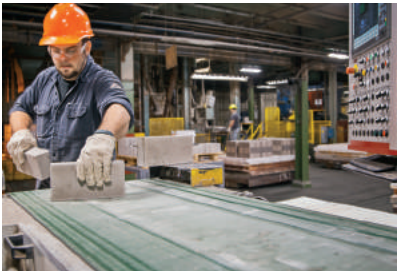


## PRODUCTS THAT PASS THE TEST. EVERY DAY.

Have high expectations for your refractory products? We do too. Our product quality and technologies in the art glass industry are unparalleled. We have the largest US manufacturing base to support the industry. Our products are adaptable, and we work closely with our customers to come up with alternative technologies and proprietary solutions designed to deliver the best value. And HarbisonWalker International was the first company to bring Emisshield to the market and is the exclusive worldwide glass distributor, now in over 100 furnaces worldwide. Emisshield is an application proven to minimize heat loss and increase efficiency.

No matter what your need, we have the right mix of products and services. We’ll be there with you every step of the way. We serve customers all over the globe with on-site supervision and domestic installation services.









# PUT OUR INTENSITY TO WORK FOR YOU

Every day, our people and products stand up to the challenges of every job. As a local US supplier, we'll save you time and money. And our experience in heat containment makes us the safest, most reliable choice for your investment.

We are your one-stop shop for refractory solutions. And we can take your inventory or new build to the next level. To learn more, talk with a HarbisonWalker International representative at **800-887-5555**. Or find the global sourcing center nearest you at **[thinkhwi.com](http://thinkhwi.com)**.



# FIND A GLOBAL SOURCING CENTER NEAR YOU

## ALBERTA

**Edmonton**  
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Edmonton, AB T6B 3P9  
P: 780-485-2908

## ALABAMA

**Birmingham**  
1201 Brock Industrial Drive  
Birmingham, AL 35208  
P: 205-788-1685

## CALIFORNIA

**Richmond**  
3451 Collins Avenue  
Richmond, CA 94806  
P: 510-236-7415

**Santa Fe Springs**  
11042 Forest Place  
Santa Fe Springs, CA 90670  
P: 562-942-2151

## CONNECTICUT

**West Haven**  
163 Boston Post Road  
West Haven, CT 06516  
P: 203-934-7960

## FLORIDA

**Lakeland**  
3225 Reynolds Road  
Lakeland, FL 33803  
P: 863-669-1040

## GEORGIA

**Doraville**  
300 Piedmont Court  
Suite 300F  
Doraville, GA 30340  
P: 770-448-6266

## ILLINOIS

**Calumet City**  
1400 Huntington Drive  
Calumet City, IL 60409  
P: 708-474-5350

**Rock Island**  
2832 5th Street  
Rock Island, IL 61201  
P: 309-283-0133

## KANSAS

**Lenexa**  
14515 West 96th Terrace  
Lenexa, KS 66215  
P: 913-888-0425

## LOUISIANA

**Gonzales**  
9380 Ashland Road  
Suite 140  
Gonzales, LA 70737  
P: 225-644-2111

## MEXICO

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Col. Washington Ferrocarril  
(Paradero), Guadalajara Jalisco  
P: (33) 3619-1961

**Mexico City**  
Col. Valle Ceylan Tlalnepantla,  
Edo. De Mexico  
P: (55) 5369-6430 / 5369-6629

## MICHIGAN

**Romulus**  
28777 Goddard Road  
Suites 203-204  
Romulus, MI 48174  
P: 734-955-6025

## MISSOURI

**Berkeley**  
6585 Jonas Place  
Berkeley, MO 63134  
P: 314-521-3314

## NEW JERSEY

**Rahway**  
868 Elston Street  
Rahway, NJ 07065  
P: 732-388-8686

## NEW YORK

**Cheektowaga**  
575 Ludwig Avenue  
Cheektowaga, NY 14227  
P: 716-692-1761

## NORTH CAROLINA

**Charlotte**  
6601-P Northpark Blvd  
Charlotte, NC 28216  
P: 704-599-6540

## OHIO

**Batavia**  
4065 Clough Woods Drive  
Unit A  
Batavia, OH 45103  
P: 513-576-6240

**Cleveland**  
6950 Engle Road  
Cleveland, OH 44130  
P: 216-398-1790

## ONTARIO

**Smithville**  
2689 Industrial Park Road  
PO Box 160  
Smithville, ON L0R 2A0  
P: 905-957-4564

## OREGON

**Tualatin**  
21051 SW 115th Avenue  
Tualatin, OR 97062  
P: 503-656-2854

## PENNSYLVANIA

**Leetsdale**  
c/o Buncher Industrial Dist  
Ave B, Building #14-A  
Leetsdale, PA 15056  
P: 412-741-3200

**Trevose**  
4667 Somerton Road  
Suite A  
Trevose, PA 19053  
P: 215-364-5555

## TENNESSEE

**Knoxville**  
2847 John Deere Drive  
Suite 104  
Knoxville, TN 37917  
P: 865-546-4930

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4585 Mint Way  
Dallas, TX 75236  
P: 214-330-9243

**Houston**  
9139 Wallisville Road  
Houston, TX 77029  
P: 713-635-3200

## UTAH

**Salt Lake City**  
4521 West 1980 South  
Suite 503  
Salt Lake City, UT 84104  
P: 801-886-0545

## VIRGINIA

**Salem**  
2001 Salem Industrial Drive  
Salem, VA 24153  
P: 540-375-2107

## WASHINGTON

**Kent**  
20408 87th Avenue South  
Suite I  
Kent, WA 98031  
P: 253-872-2552



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