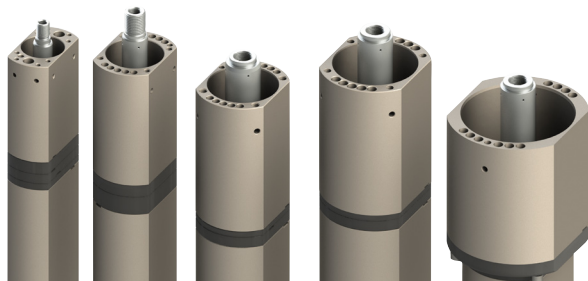


Spring 2016

# Quantum

## FORMING SYSTEMS

40 YEARS



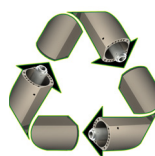
### Quantum's Cylinder Range A TWT® Cylinder for Any Application

The global glass container industry employs a wide variety of Individual Section forming machines. A fundamental part of Quantum's success has been its ability to offer a high-performance forming system for any IS machine. The Quantum forming system is versatile and the engineers at Quantum are willing and capable of working with glass container manufacturers to develop a product tailored to each customer's individual needs.

Quantum's universal cylinder concept offers glass manufacturers a wide range of cylinders featuring interchangeable components suitable for *any* center distance or gob configuration to meet *any* factory requirement. All Quantum's cylinders come loaded with helpful features like the patented Tube-Within-a-Tube® air delivery system designed to safeguard against "tramp glass" and an internal lubrication system designed for long term trouble-free operation. Cylinder components are constructed with alloyed tool steels, proprietary heat treatment, and unique surface coating infusion techniques.



### A Long History with USA Manufacturing Facility



Throughout the last four decades, Quantum has observed many changes to the North American Glass container industry. At one time there were hundreds of glass factories spread across the USA, but closures, foreign acquisitions, and consolidations have drastically changed the industry's landscape. There is a factory located in the heart of the Midwest that has stood the test of time and has been operating Quantum equipment for decades. The factory was previously named Wheaton, then was changed to Flat River Glass and today is owned by the highly esteemed India based company, Piramal Glass.



Recently, Quantum worked with the IS Maintenance staff on a Cylinder Maintenance training seminar at the Missouri plant. In 2016, Piramal will repair and upgrade several production lines to help pave the way to a bright future. ***Many of the Quantum Cylinders at this factory have been in service over 25 years and are still operating at a very high level.*** The plant in Flat River, Missouri, has eight production lines and supplies glass to the C&P, pharmaceutical, liquor, and food products industries.

### Celebrating New Relationships



Piramal Glass  
knowledge action care

#### **Piramal Glass Ceylon PLC**

Piramal Glass Ceylon PLC (formerly Ceylon Glass Company PLC) is Sri Lanka's sole glass container manufacturer. They offer an entire range of glass bottles for the Food and Beverages, Pharmaceuticals and C&P industries.



#### **Vetro de Cantabria**

This glass container plant produces tequila bottles in the city Orizaba in the South Eastern Mexican state of Veracruz. The plant started operations about 2 years ago with a 40 T/D furnace. In 2016, Vetro de Cantabria is expanding their product range and production capacities.



## Innovations To Tackle Plastic Pollution

There is no arguing the fact that our environment is under siege from plastic pollution. Today, the world is saturated with this artificially created polymer compound which can survive hundreds of years before nature can degrade it. If our generation does not change our way of thinking about plastic, it will continue to clog our waterways, oceans and forests. The glass packaging industry will continue to play a major part in the fight against plastic pollution.

**Here are a few other innovators and entrepreneurs that are doing their part:**



### The Seabin Project

Two Australian surfers came up with the Seabin to help clean ocean marinas of plastic pollution and other debris. The Seabin

is basically a floating trash can that is put in to the water, plumbed to a pump on the shore or on the side of a boat, and through suction pulls in floating debris.



The debris is trapped by the Seabin and the clean water flows through the system and back into the ocean. For more information visit:

[www.seabinproject.com](http://www.seabinproject.com)



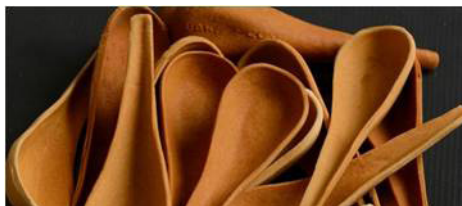
### Edible Cutlery

A man from Hyderabad India has decided to fight against plastic pollution by inventing edible forks and spoons. India is the largest user of plastic cutlery in the world.

Every year 120 billion pieces of disposable plastic cutlery are discarded in India. The edible cutlery is strong enough to last through your meal and after you're finished eating you can either eat the utensils or throw them away. The products will biodegrade in 5 to 6 days after use.

The cutlery comes in three flavors; sweet, plain, and spicy. Chopsticks, spoons, and forks are currently available.

For more information visit: [www.bakeys.com](http://www.bakeys.com)



## Get to Know...

### What are your duties at Quantum from day to day?

I manage all aspects of inventory control, including maintaining inventory records, purchase order entry/receiving, customer order entry and shipment processing, preparing international shipping document, etc.

### What are some of your favorite movies?

Back to the Future 1 and 3 (2 is just a necessary watch to know the story line going into 3), Cars, Grease, Star Trek IV – The Voyage Home, The Sound of Music (probably because of my involvement playing in the pit orchestra for the high school production), Andrew Lloyd Weber's "Phantom of the Opera"

### What are some of your hobbies when you're not working?

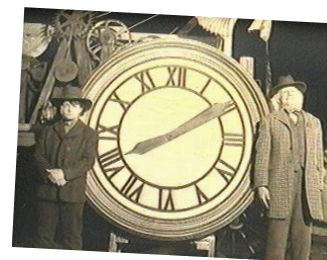
Other than just spending time sitting around with the family, the main activity I enjoy is paddling the kayak around a lake, usually with a camera hanging from my neck. A couple of our favorite spots are Moraine State Park (Lake Arthur) and the lagoons through Presque Isle State Park.

### If you could visit one place on earth where would you go? What would you do?

I would like to travel well into the Arctic beyond the tree line. This is an area I would really like to see and take some pictures. (This would need to be a short visit, though, since I really don't enjoy being cold.) For an extended visit, just give me a tropical beach with some boardwalk activities.

### What is the best vacation you have ever been on? What did you do?

This may not sound like much, considering we have been to major attractions like Niagara Falls, numerous beaches, and Disney World, but the best vacations would be the camping trips to Pymatuning with the family when the kids were younger, doing nothing but swimming, riding bikes, and hanging out around the camp fire.





## Interglass Visits Quantum

Recently Quantum and Interglass have entered a partnership agreement to better serve the hollow glass manufacturers of South America. To kick off the new relationship Interglass came to Quantum to learn more about the company, their products, and jointly develop a strategy to provide the glass makers of South America the best service possible.

While at Quantum, the Interglass group received training on products including the Quantum Plunger Mechanisms, Process Equipment and the Total Forming Analysis. There was even time to explore downtown Pittsburgh and see a few sites.



Cesar Mendez, José Luis Vélez,  
Carlos Garcia, Erick Martinez



## Market Spotlight: Republic of Turkey

Turkey is literally and figuratively a bridge that connects the people and cultures of Asia and Europe. In fact, Istanbul, the country's most populous city, is the only city in the world that is located on two continents. The country is home to over 75 million Turkish people, who are known around the world for their patriotism and hospitality. Despite geopolitical obstacles, Turkey's economy grew over 4% in 2015.



Their GDP growth rate was surpassed only by China, India, and Indonesia among the 20 biggest economies in the world.

In Turkey, Quantum works with **Gecit Consultancy and Representancy Ltd.** Dr. Serdar Özgen, Ayca Özgen and Derya Toykan help support Quantum's customers in Turkey.

### Contact information:

Bagdat Cd. Sari Lale Sk 6/5  
Kiziltoprak / Dadikoy / Istanbul  
34726

Phone: (+90) 216 450 56 82/84

Email: [info@gecit.net](mailto:info@gecit.net)



## Turkish Hollow Glass Manufacturers



### Sisecam, Anadolu Cam

Anadolu Cam, Sisecam's glass container division, is the 5th largest glass container producing group in the world. They have 3 plants inside Turkey in the cities of Mersin, Eskişehir, and Bursa-Yenisehir. In Turkey the group has a total of 10 furnaces that produced 4.5 billion bottles and jars in 2014.

### Park Cam

#### PARK CAM

Park Cam is owned by the Ciner Group which is mainly active in energy and mining sectors. Park Cam is a new player in Turkish glass container industry, but quickly gaining market share. Currently the company is operating 2 furnaces, each 500 tpd capacity and has plans in the future to expand production capacity to a total of 4 furnaces.



### Gurallar Cam

The investment Gurallar Glass Packaging, was undertaken by the experienced glass manufacturer, the Gurallar Group.

The factory is located in Western Turkey in the city of Kütahya about 80 kilometers from Eskişehir. The plant operates 1 furnace with 300tpd capacity and three production lines.

## Quantum Welcomes Jennifer Baker



Lifelong Steelers fan, Jennifer L. Baker has been working as an accountant and auditor in the manufacturing sector since her graduation from St. Vincent College in Latrobe, PA.

Jennifer graduated with a Bachelors Degree in Accounting with a minor in Finance and Management. From there she went to work for U.S. Steel in their Internal Audit Department. After a few years, she moved into Public Accounting working with manufacturing clients in PA and in New York. She worked for three years as the Senior Accountant with a local family owned company that specialized in designing and manufacturing automated welding equipment.

Wife, mother, skydiver, avid boater & camper - Quantum is glad to welcome Jennifer and her skills and experience to our team.

## Quantum Events



## What is Bottle Digging?



Glass is one of the longest lasting man made materials. This is one of the reasons why it is so important to recycle glass! In the past, there wasn't as much importance placed on recycling as there is today, so many very old glass bottles were improperly disposed of. Today, amateur archeologists are finding old glass bottles can be worth hundreds of dollars. It's called Bottle Digging! In the 19th century, just as the importance of glass recycling wasn't fully understood, neither was proper disposal of garbage. Many people simply dug a hole in their back yard or threw their garbage over a cliff, so discovering a glass bottle treasure can happen just about anywhere. The best places to look are old garbage dumps, stream beds, ravines, or gullies.



## Upcoming Trade Show Appearances

\*\*\* \*\*

Visit Quantum at

# glasstec

INTERNATIONAL TRADE FAIR FOR GLASS  
PRODUCTION • PROCESSING • PRODUCTS

20-23 SEPTEMBER 2016  
DÜSSELDORF, GERMANY

HALLE 13, STAND 13B61-4

[www.quantumforming.com](http://www.quantumforming.com)

438 Saxonburg Boulevard  
Saxonburg, PA 16056 USA

Tel (724) 352-5100  
Fax (724) 352-4443

