



Celebrating 32 Years of Forming System Solutions for the Glass Container Industry

Quantum Forming Systems in the Latin American Market

As we witness the positive news of growth in the Glass Packaging Industry, Glass Container Plants in Chile, Costa Rica, Guatemala and Mexico have decided to install the **Quantum Forming System** Plunger Mechanisms in their new IS Machines.

During the last year and a half the main manufacturers in these countries have outfitted 15 IS Machines with the latest technology from **Quantum Forming Systems**.

These decisions have allowed the producers to take full advantage of the benefits of this equipment and positions **Quantum** as the leading supplier of Forming Systems Equipment for this region.

Most of these new machines and conversions were done by **FAMA** in Monterrey Mexico. One of the machines was supplied by **Emhart Glass** for the VIMOSA plant in Monterrey for NNPB production of beers.



The systems are all capable of the NNPB production and have the *Heye International* Process control for gob weight management and improved productivity.



Steven Kozora, Quantum's Director of Operations with Alejandro Ontiveros of ONTAL in Monterrey, Mexico

The machine center distances included 4-1/4" TG/DG/SG, 5" DG and 6-1/4" DG convertible machines for a variety of products required in the Latin American marketplace.

The IS Machines designs included *Emhart, Owens, FAMA, BDF, and Bottero* OEM frames.

Not only can **Quantum's Forming System** provide glass container producers with the ultimate combination of hardware across all forming processes, **Quantum does it with fewer system parts and on any IS Machine design used worldwide.**

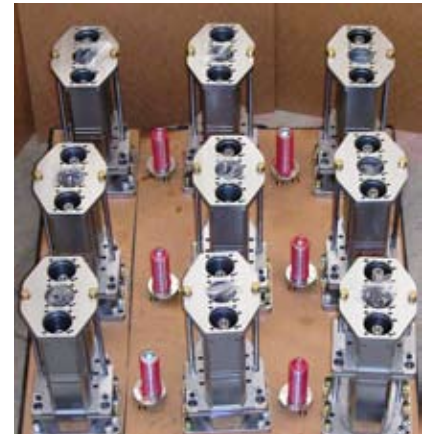
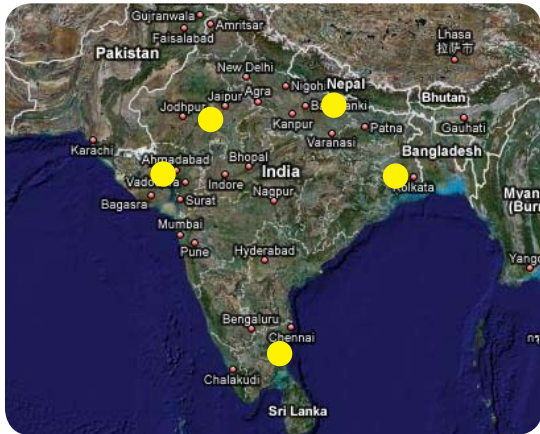


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32
YEARS

Quantum Forming Systems continue to be installed in the Indian Sub-Continent

In the past 12 months Quantum has delivered 13 lines of Plunger Mechanisms for manufacturers of glass containers throughout India. The systems are being used for a variety of production from pharmaceuticals to beer to wide mouth jars.



Hindusthan National Glass

The Bahadurgarh plant is almost complete with the corporate plan to standardize on the Quantum TWT® System for its production benefits and durability.

Since 2003, HNG has installed over 26 machines in the Pondicherry, Rishra, Rishikesh, and Bahadurgarh Plants. The systems produce containers in B&B, Vacuum Assist B&B, 62 Process, & NNPB products for Beer and Pharmaceuticals.



Sanjay Somany, J. Kozora, Mukul Somany, CK Somany



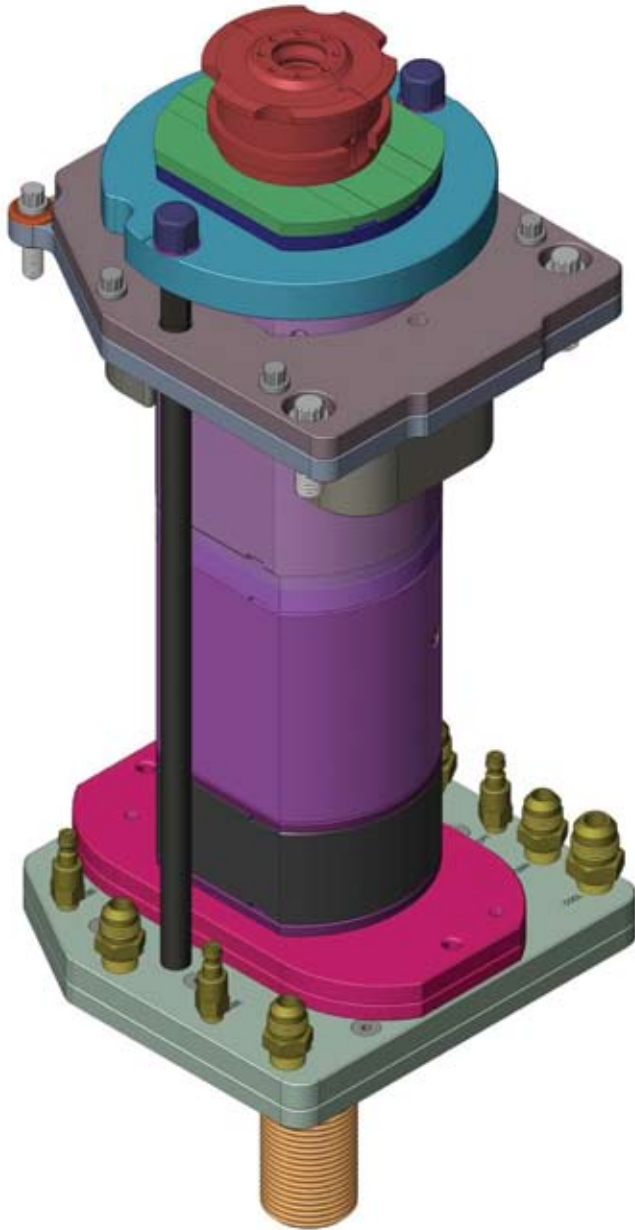
Piramal Glass in Jambusar India installs 5 lines of Quantum Forming Equipment

The machine builder EQG in Gujarat installed various IS Machines (4 1/4" DG, 5" DG/SG, and 3"TG) with the Quantum Super System plunger mechanisms for the furnace 6 project. The machines produce a variety of items in B&B and NNPB process equipment.



Piramal Glass Staff during August 2007 Startup

New Extreme Invert Plunger Mechanisms for Wine, Champagne, and Spirits Production



- The system produces only B&B with or without Vacuum Assist
- The Cylinder utilizes the Patented Self Aligning lubricated B&B Cartridge.
- The Quantum features provide the Anti-Tilt feature for the Long Skirted thimble and extreme length plunger tips.
- The unit can be converted to ABB/A process for Vacuum assist loading and finish cooling.

Mike Albert



Michael J. Albert has recently been promoted to Director of Engineering. Mike has been an integral part of the Design and engineering department at Quantum since 1999. The customer interfacing of the Quantum Forming system is just one of the specialties of the department.

Mike is married with two children and lives nearby in rural Saxonburg. His experience in mould design and machine installation provides valuable information and support to our customers. Mike can be queried on topics for Production assistance and light weighting concepts using the Quantum Engineered Products proven concepts.

Jay and Neera Sarin with their one year old Granddaughter Suranya





Glass Recycles

Tyler Thompson 14, son of Quantum employee Lori Peiffer participated in the 2008 Knoch School Science Fair on May 8, 2008.

Each student had to find a project that compared things, he came up with his own idea on **“Why Glass is a better Packaging Material”**.

He did research to support his hypothesis which he became very intrigued by the information he was finding on glass and very concerned on the effects plastics have to animals, humans, and the earth .

Many of the Science Fair attendees, students, parents, and teachers agreed that plastic is harmful to the environment and to humans and were glad to see a student bringing it to everyone’s attention that glass is far better than plastic.



Tyler Thompson's Science Fair Project



Proudly Made In The USA..



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