

Forming System 1.0 **ENGLISH**

# Quantum

**FORMING SYSTEMS**

**40 YEARS**



**Forming System 1.0**

# Why Choose Quantum for Your Forming System?

## Great Containers Start Here

At Quantum we have been solving container forming problems for four decades. The Quantum Forming System can operate on **any** IS Machine and be used in any container forming process. Throughout the glass container industry, the Quantum name is synonymous with innovation and quality. We use only the highest quality materials in our manufacturing process and the longevity of our equipment is a testament to that. Quantum's experienced production support team strives to set the industry standard in service.



## Advantages of the Quantum Forming System:

- Reduction in the overall cost of production
- Eliminate common forming defects
- Minimize IS Machine downtime
- Reduce IS Machine maintenance costs and spare parts inventory
- Fits into any IS Machine
- Process flexibility
- Develop innovative glass products
- The capability to respond more quickly to the demands of the market





### **Tube-Within-a-Tube (TWT®)**

Eliminates dirt and debris from entering the parison, eliminates air leaks, improves air flow.

### **Universal Individual TWT® Cylinders**

The same individual Cylinder can be used for multiple center distances and gob configurations (SG, DG, TG, QG). This allows for standardization of forming systems across all production lines, and a reduction in spare parts inventory.

### **Single Thread Piston Rod**

The Piston Rod design improves Cooling and Counterblow. The large diameter air flow passageway creates a more efficient pathway for Plunger Cooling and Counterblow.

### **Dual Upward Cylinder Exhaust**

Expels production heat more efficiently, which improves cooling, improves mechanical function, and reduces heat related wear on the Cylinder components.

### **Compatibility with any I.S. Machine**

The Quantum Forming System can be retrofitted to fit in any I.S. Machine regardless of OEM. This allows a factory with multiple IS Machine builders to standardize their blank side forming equipment and spare parts.

### **Permanent and Precise Alignment**

The floating design more accurately aligns the Plunger Mechanism to the Neck Rings and Blank Moulds. No realignment is necessary during conversion or Cylinder removal/installation, which saves valuable machine downtime.

### **Fully Enclosed Lifting Mechanism**

No glass or debris can enter the gears of the lifting mechanism causing malfunctioning and machine downtime.

### **Cylinder and Positioner Lubrication**

The Piston Rod bearing, Cylinder walls, and Process Equipment are lubricated with direct lubrication connections. No oil enters the Plunger up air and Plunger down air. This reduces wear, improves mechanical operation, eliminates air leaks, and keeps dirt & debris out of the forming process.

### **Alloy Steel Components & Advanced Coating**

Using alloy steel rather than cast or aluminum as the raw material leads to a finished product that is more durable and capable of a much longer operating life. Special coatings improve lubricity, hardness, resistance to corrosion, and extend the life of the equipment.

### **Low Cost Maintenance**

Quantum Cylinders are maintained/rebuilt using fully assembled kits, which contain inexpensive components (seals, bearings, o-rings). The Cylinder maintenance cycle and maintenance cost is the lowest in the industry.

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



Visit our website to inquire about upgrading your production lines with The Quantum Forming System.

## **Quantum Values**



**Passion for Customers & Results**



**Quality**



**Environment & Sustainability**



**People**



**Honesty & Integrity**

# The Quantum Advantage



For Any Container...



Process Equipment...

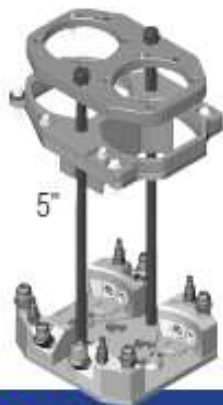


Universal TWT® Cylinder\*

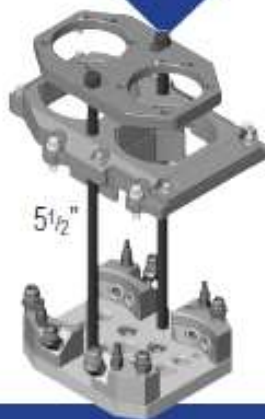
\*standard cylinder capable of up to 90mm P&B



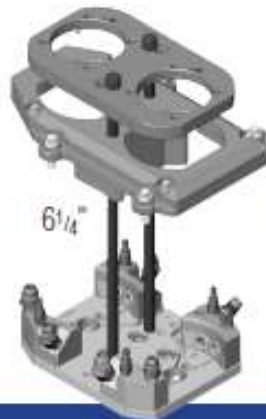
4 1/4"



5"



5 1/2"



6 1/4"



4 1/4" TG

Center Distance Hardware



Process Control TFA™

## Fits ANY OEM IS Machine

438 Saxonburg Boulevard | Saxonburg, PA 16056 USA | Tel (724) 352-5100 | Fax (724) 352-4443

quantum@quantumforming.com | www.quantumforming.com

