

Planetary Polishing Machines



Glassmaster 520

Glassmaster 720

Innovative Machines for Precision Optics and Technical Ceramics





Ultrasonic

Machining Centers

Optical Ct

Centering Machines

CNC Spherical Polishing Machines

CNC Asphere/Freeform Polishing Machines

Planetary Polishing Machines Non-Contact Metrology Solutions

CNC Optical Grinding Machines

High volume production of flat optics.

Glassmaster machines are state-of-the-art continuous planetary polishers (CP's) incorporating the highest quality components and patented technology (Syncroshaft) for exceptional flatness and finish of flat optical components. The Syncroshaft carrier ring drive system accurately synchronizes the rotation of all three carrier rings, ensuring consistent polishing results between all work stations. Whether your application involves glass, ceramic, silicon, crystal, or metal plano optics, the Glassmaster 520 (52" table) or Glassmaster 720 (72" table) enables you to achieve tighter tolerances and helps your company become more productive and profitable.

Custom made for your requirements

driven stations

52 or 72 7 or 14 inch table size

rpm table speed

High Performance Machines

Engineered for precision and repeatability



Self cleaning stainless steel recovery tank

Quick and easy adjustment of carrier rings via handwheel User-friendly, fully programmable One-piece polishing AC drive table made of gray cast iron (520) or granite (720) for high rigidity and stability.

Syncroshaft Advantage

Patented carrier ring drive system



- Patented Syncroshaft carrier ring drive system accurately synchronizes the rotation of all three carrier rings, ensuring consistent flatness and finish between all work stations.
- Utilizes the rotating motion of the polishing table to drive the workstation carriers, ensuring synchronized rotation of carrier rings.
- Straightforward and dependable design that eliminates cumbersome controls, wiring and motors that commonly fail on conventional carrier drive systems.
- Syncroshaft system is designed to be virtually maintenance free.

Capabilities



Glassmaster 520: Planetary Polisher





Available Options/Accessories:

- 14 RPM Table (High Speed Version) 4th Driven Station
- 3 or 4 Carrier Rings 26" Granite Table Conditioner (Bruiser)
- Conditioner Crane Slurry Tank and Pump Pitch Cutter

Glassmaster 720: Planetary Polisher



Available Options/Accessories: 4th Driven Station
3 or 4 Carrier Rings 36" Granite Table Conditioner (Bruiser) Conditioner Crane • Slurry Tank and Pump • Pitch Cutter

Benefits

Superior Table Design The Glassmaster 520's 2,000 lbs cast-iron table rides on a heavy duty, 20 inch diameter angular contact bearing, while the Glassmaster 720's 2,500 lbs granite tabel rides on a 30 inch diameter bearing, providing smooth and precise table rotation and lasting durability.

High Versatility Work Station

Unique work station design with no vertical obstruction over the carrier rings, allowing work of any height to be polished. Each work station accepts carrier rings ranging from 12-23 inches in diameter for the Glassmaster 520, 16-36 inches in diameter for the Glassmaster 720. Carrier ring positions are quickly and easily adjusted by simply turning a handwheel.

Self Cleaning Recovery Tank A polished stainless steel recovery tank surrounds the whole table, neatly guiding the polishing solution back to the steel reservoir and effectively protecting the table bearing from dirt and moisture.

Robust Drive Components and State-of-the-Art Controls

The polishing table & syncroshaft system are powered by a heavy duty AC motor that drives two highly durable oil bath gear boxes, allowing for extremely heavy workloads to be polished.

Specifications*

	Glassmaster 520**	Glassmaster 720
Machine Dimensions Total Height Length Width Weight	57 in. 60.5 in. 60.5 in. 4,750 lbs.	60 in. 81 in. 81 in. 5,550 lbs.
Polishing Table Table Height Table OD Table ID Table Material	37 in. 52 in. 14 in. Cast Iron	39 in. 72 in. 19.75 in. Granite
Carrier Rings Carrier Ring OD Carrier Ring ID Number of Carrier Rings	20.5 in. 19 in. 3	28.375 in. 26.875 in. 3
Motor Motor Type H.P. Motor Controls	3PH continuous duty 3 (5) AC inverter - NEMA4	3PH continuous duty 5 AC inverter - NEMA4
Gear Boxes Primary Gear Box Secondary Gear Box	Worm gear 10:1 Torque arm reducer 25:1	Worm gear 10:1 Torque arm reducer 25:1
Input Voltage Table RPM Range Recommended Conditioner Diameter Maximum Conditioner Height	230V3PH (480V3PH) 0-7 (0-14) 26 in. 4.5 in.	480V3PH 0-7 36 in. 4.5 in.

* Specifications subject to change. Contact OptiPro for the latest specifications. ** Specs for Glassmaster High Speed version in parentheses



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