

Glassline Corporation
28905 Glenwood Road
P.O. Box 147
Perrysburg, OH 43552-0147

Phone: 419/666-5942
Fax : 419/666-1549
E-mail: sales@glassline.com
www.glassline.com

HIGH SPEED HORIZONTAL EDGING (HE) MACHINES

PRODUCT and FEATURE BENEFITS

Brief Company description:

Glassline Corporation is a machinery manufacturer with comprehensive capabilities and experience. A full mechanical and electrical design team can create innovative features to meet Customers' special needs. Our manufacturing facility in Perrysburg, OH includes all phases of construction including fabrication, machining, painting, assembly, and panel building. Diamond tooling is also manufactured at the same facility. This range of capabilities allows Glassline to serve our Customers in a variety of ways.

Product or created product solution:

Glassline's high speed horizontal edging machines are designed to edge and polish rectangular glass in a wide range of widths and thicknesses at maximum speed and throughput. Peripheral style wheels are used, for the production of many types of edge profiles and qualities. The system consists of two edging machines and a sandwiched transfer, allowing all four edges to be processed in-line and directly feed downstream processes such as drilling, printing, and tempering. The width of the system is adjustable to allow processing a wide range of glass. Thickness adjustment is simple and forgiving via a regulated pneumatic air bladder behind the upper hold down belts.

Specifications:

Glass widths: Systems available in increments of 20" up to 160" (500mm to 4m), or larger.

Thickness: 3 to 12mm (optional down to 1mm and up to 19mm)

Speeds: 720 IPM maximum (higher rates optional)

Voltage: 480 VAC/3P nominal (also avail 380, 575); 24 VDC control

<i>Feature</i>	<i>Corresponding Benefit</i>
The machine lower base and spindle bases are made of heavy-duty steel, which is stress-relieved and precision-machined.	Ensures precision across the range of products and reduced vibration for higher quality edge. Long machine life.
Stainless steel water pans, plated steel parts, plated hardware, and epoxy paint for main frame.	Corrosion resistance and long life.
Lead-in squaring system is pneumatically actuated, pushing the glass edge against a reference edge which consists of a powered edge guide belt. This is in comparison to competitors who supply only idler rolls.	Physical squaring of even thick glass ensures a squarer finished part. Also allows more leeway for incoming glass, making loading easier.
Grinding and polishing heads are compliant via a pneumatic air cylinder. Heads pivot on a heavy-duty bearing post. Optional tilt feature.	Provides adjustability in the amount of glass removal to allow optimum speed to be reached. Increased throughput and precision. Simple/Fast wheel change.
5HP motor mounted as the first motor on moveable side.	Allows grinding of oversized glass.

Air Bladder pressure hold down system, as compared to competitor machine that use wheels and springs.	Lower maintenance. Higher quality. Adjustability.
V-guided Conveyor and Hold-down timing belts.	Optimum tracking and quality.
Synchronous conveyor and hold down motors.	Optimum tracking and product quality across the range of widths. Less maintenance.
Width adjustable base travels on linear bearing rails for optimum precision and low maintenance. Dual lead screws help ensure parallel adjustment.	Higher width adjustment precision. Lower maintenance. Longer life.
Drop Transfer – highest throughput available on the market. Allows the tightest spacing between parts.	Higher throughput.
Optional front stops on the long-edge-leading machine ensure squareness of long, narrow parts.	Higher precision on more difficult parts.
Optional auto width-adjustment.	Ease of setup. Higher overall throughput.
Optional mist/water collection using high pressure blowers and coolant guards. Water is pulled away from glass via vacuum system and into a plenum for recirculation. Less water is carried downstream on the glass.	Less operating costs from loss of water. Less maintenance of edgers and downstream equipment due to water spray and water dripping from glass downstream. Higher uptime.
Optional plate-grooving or edge deletion – horizontally mounted spindle on compound slide assembly allows a continuous groove to be processed an adjustable distance from the edge. Optionally, additional mechanics allow the groove to startup/stop a distance from the edge.	Increased product offerings with minimal capital costs since it is mounted to edger machine.
Optional hi-tech corner dubbing – assembly allows corners to be ground a programmable amount while the glass travels through the second edger.	Servo driven system provides highest quality of dub, especially on trailing edge, which is difficult for standard star-wheel dub systems.