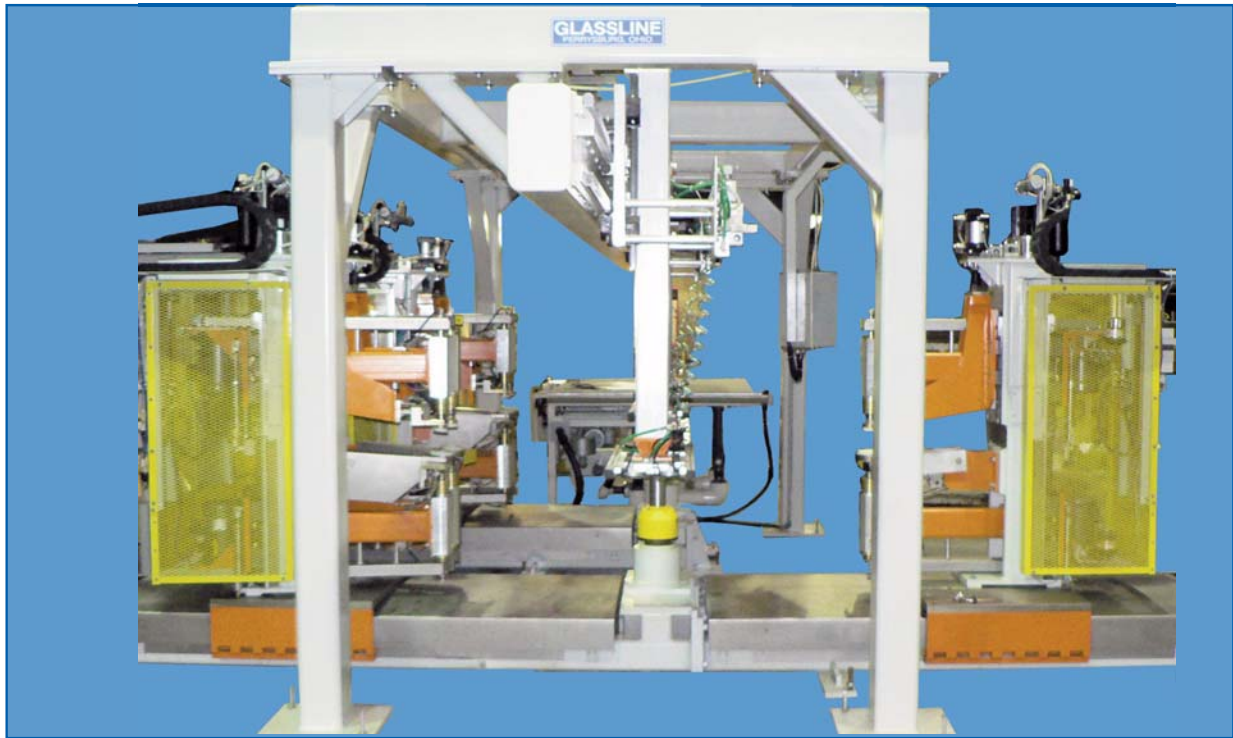


Linear / Polar Drilling Systems

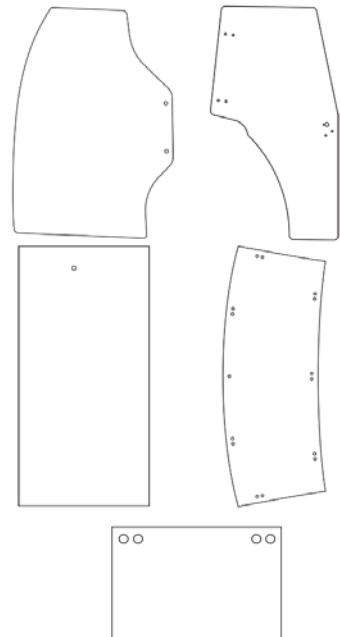


D1146 Linear/Polar Drilling Machine - with servo driven positioning axes

Glassline's D1146 linear/polar drilling system allows drilling virtually anywhere around the perimeter of the part, with no limit on the quantity of holes. This drilling platform is popular for vehicle glass manufacturing, but is also useful for any application requiring perimeter holes and ease of setup and programmability.

The standard D1146 is a two axis machine consisting of a linear drill positioning axis and a rotary glass positioning axis. An additional linear axis can be added, and multiple drill heads can be mounted on each linear axis. In addition, multiple stations can be placed inline, allowing for many different possible configurations to drill various sizes of holes at a low overall cycle rate. The system is well suited for automatic loading and unloading, but can also be manually loaded.

Glassline's drilling heads are very well respected in the market-place. They incorporate upper and lower heavy duty spindles, drilling from both top and bottom for high quality. Upper and lower drill arms are driven vertically along the same heavy duty linear rail system, ensuring optimum concentricity and hole quality. The heads can be air or servo powered depending on the need or budget.



GLASSLINE

Linear / Polar Drilling Systems

SPECIFICATIONS

Model D1146	Specifications - Various Models Available
Glass Size	85 inch diagonal - maximum part size (approximate)
Thickness	3 to 8 mm (12 mm optional)
Drill Area	20 inches from edge on larger sizes; central 12 inch circle (approx.) undrillable
Hole Diameter	6mm - 45mm (larger diameters optional)
Tool	3/8 inch straight shank (threaded optional)
Drill Cycle	Servo drill speed 1 second/mm, plus 1-2 seconds clamp/unclamp time (approx.)
Positioning Time	0.5 to 1 second between holes (approximate)
Tolerance	Finished Hole within .0762mm, Spindle 0.125mm, Drill shank 0.038mm TIR
Voltage	480 VAC / 3P nominal (also available 380, 575); 24 VDC control

FEATURES

- ▶ Automatic hole positioning for unlimited hole quantity, and easy set-up
- ▶ Precision linear ways, roller ball bearing, and ball screw used on linear axis, and Cycloidal reducer on rotary axis, providing high accuracy and long machine life
- ▶ Vertical leaner ways on drilling feed clamp, for precision drilling and high yields
- ▶ Oil mist lubricated spindles, and auto grease feed on linear ways and screw – requires less maintenance and insures long equipment life
- ▶ Fully wired and tested system at Glassline location pre-shipment, insuring ease of installation and production start-up
- ▶ All Glassline drill spare parts in stock for fast turnaround – less downtime

OPTIONS

- ▶ Servo Drill Feed Option – provides faster cycle times, easier set-up, and hole chamfering capabilities
- ▶ Auto drill bit height measure / set option – for ease of set-up
- ▶ Manual or Auto Load / Unload Systems
- ▶ Single or Multiple Head Systems
- ▶ Auto Stoning



GLASSLINE

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

Phone: (419) 666-5942
Fax: (419) 666-1549
E-mail: sales@glassline.com

The information provided herein is intended to give a general overview of the machinery concept. Glassline provides no warranty, either express or implied, nor fitness for a particular purpose or merchantability, based on the information provided in this document.