

# FLX

## RIGID-FLEX & FLEX

OPTICAL LAY-UP STATION  
(FLEX)



85 HOFFMAN LANE, SUITE Q  
ISLANDIA, NY 11749 USA  
+1 (631) 851-0102  
DISTECHNOLOGY.COM

Member of the

**DATAALIGN™**  
SERIES OF EQUIPMENT

The FLX is a fully automated system capable of aligning and welding Flex, Rigid-Flex and Rigid panels. This machine can align layers and prepreg as well. Some key features include automated weld bars and heads for various panel sizes and welding positions as well a detail camera which will assist the operator to accurately align interior prepreg or teflon pieces.

All FLX systems come standard with SmartWeld™ Induction Technology coupled with Optical Alignment. These two technologies eliminate mechanical tooling and improve process flexibility by decreasing operational cycle times and reducing operating costs while delivering better layer registration.

The FLX Optical lay up station is a fully automated inner layer and positioning system which sequentially aligns and clamps multi-layer PCB's together. SmartWeld™ Induction Technology then welds the aligned multi-layer boards together, which ensures the accuracy of the registration is secured at several points on the border of the panel.

Another key feature to aid with registration accuracy is a Barcode Scanner for mistake proofing lay-up.

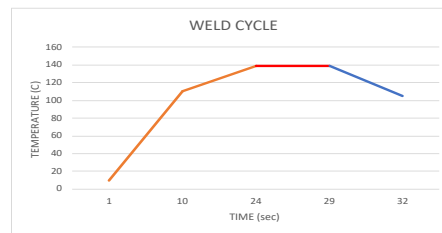
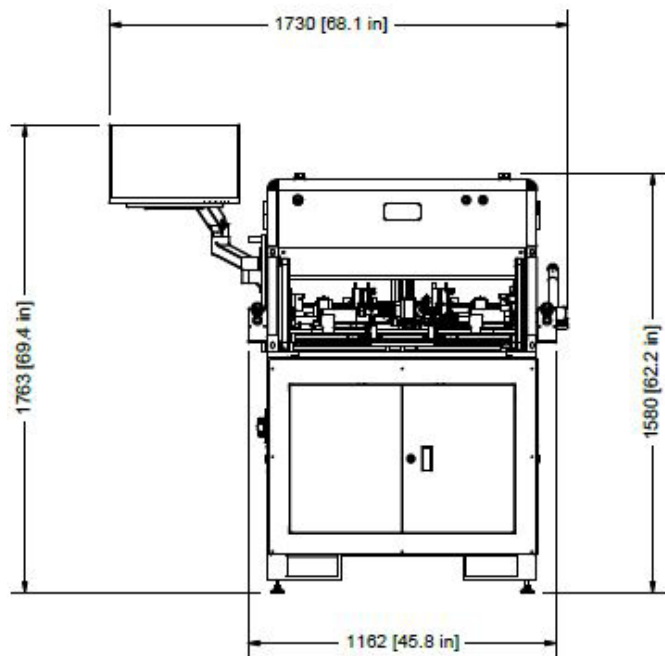


### PROCESSING CAPABILITIES

- Minimum: 12" x 14"  
305mm x 355mm
- Maximum: 24" x 30"  
610mm x 762mm
- Easily align thin cores (1mil-25 µm)
- +/- 12 µm alignment tolerance or better
- Maximum Weld Thickness
  - 8mm
- Maximum Weld Temperature
  - 300 °C

# FOOTPRINT

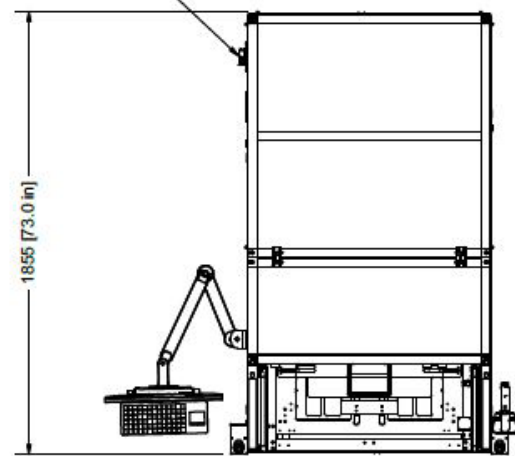
## FRONT VIEW



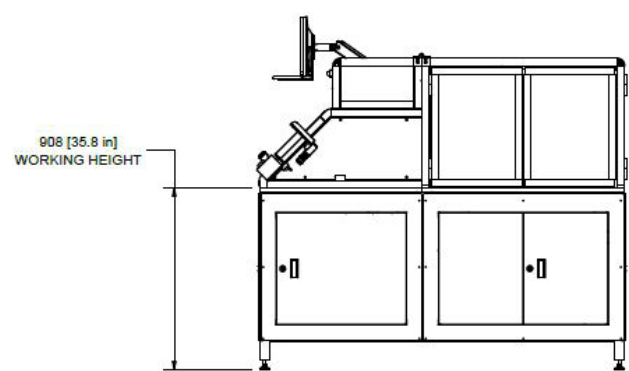
- RAMP RATE
- WELD HOLD TIME
- COOLING

## TOP VIEW

ELECTRICAL & PNEUMATIC CONNECTION POINT



## SIDE VIEW



## Machine Requirements

### Air Requirements

- 85 psi (6 bar) 15 SCFM (425 lpm)
- Air Hose: Minimum 3/8" (10mm) inside diameter

### Power Requirements

- 205-240VAC 11A 3 Phase 50/60Hz
- Power Cord: 4 conductor 3.3 mm, 2 gauge wire, machine grade

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