

PAS - Plastic Assembly Systems

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Vibration Plastic Welding



Vibration plastic welding is used to join large plastic parts through frictional heat and pressure generated in a linear or orbital motion (vibration). The surface of one part is vibrated against the other, which is generally fixtured in a stationary position. Vibration welding lends itself to large or irregularly shaped parts and difficult to weld resins that do not work well with other methods. Vibration plastic welding produces high-pressure hermetic and very strong structural seals, and it is more forgiving (tolerance variations, wall thickness considerations) than most other methods. Closed Loop Process Controls.

PAS Vibration welder capabilities

- Automatic Frequency Control and Weight Compensation
 - Weld by Distance or Time
 - Multiple Program Memory Storage and Touch Screen Interface
 - Automatic Vibration Amplitude Control During Welding
 - Multistage Weld Sequencing
 - Printer Option for Weld History
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