

Consumer Electronics



The consumer electronics market manufactures cell phones, computers, and internet security encryption keys. Because many elements within these devices are sensitive and fragile, they need protection from vibration and environmental contaminants such as dirt or oil.

Graco equipment dispenses two-component reactive resins (epoxies, silicones, and urethanes) that are used for potting, encapsulating, sealing, vibration dampening, and overmolding of electronic printed circuit boards and connections. The materials help protect the components, which adds reliability and longer life to the electronic devices.

Graco equipment dispenses reactive resins used for sealing, vibration dampening, and potting of electronic connections. These resins protect sensitive electronics from sudden impacts and seals off contaminants from the environment.

The [Graco PD44](#) is used for shot sizes from 1 to 5 cc's with 1:1 to 25:1 ratio materials. The [Graco PR70](#) Meter Mix Dispense unit is for larger devices and can be configured with heat and vacuum degassing.

For hand-held devices like cell phones, bonding is generally achieved with a single component PUR hot melt. PUR is applied to the perimeter of a casing with a heated Graco [Dispensit 710](#) time pressure valve fed by a heated cartridge system.

For more accuracy and bead control on smaller output applications, a programmable heated [Dispensit 1053](#) or [1093](#) dispense valve might be used to assure repeatable volume on each part. In all cases, the dispense valve and feed system are integrated with a Cartesian robot.