

AccuPlace, A Global Leader in Accurate and Complex Automation in the Medical, Computer, Automotive and Mobile Industries

AccuPlace machines have aided the automotive, medical, computer and mobile industries for over 30 years with the ability to assemble devices requiring multiple configurations such as laboratory slide labels and inkjet cartridges and being able to detect clear film from clear tape at the speed of 5 and sometimes even 2 seconds.

As every industry knows, automation increases accuracy, efficiency, and consistency in the workplace. It also streamlines repetitive tasks while simultaneously reducing labor costs and shortages.

Here are several ways that AccuPlace machines have been able to aid the automotive, medical, computer and mobile industries that are notorious for facing high demands at unexpected times:

Medical Applications

With accuracy being crucial when it comes to assembling medical devices, AccuPlace offers several machine options. For example, defibrillator devices require a thin polyimide insulator, making it challenging to peel and place. AccuPlace Model 3065 peels the delicate insulator without causing any damage and smooths out trapped air bubbles that would interfere with the thinness of the polyimide and prevent it from sticking effectively. Model 3065 has also been useful in wrapping labels around a syringe and temperature strips on diagnostic cups. In addition to temperature strips, large labels may be added to the lids of diagnostic cups with a Model 4065.

Model 4065 is also suitable for labeling rapid blood tests and the “clean room” version of the model prevents any contamination from particulates that would interfere with the sensitive blood tests.

Laboratory Settings

In laboratory settings, automated adhesive assembly is paramount. Proper slide identification is a must to avoid misidentification. The PSLIM is the premier option for labs because any type of slide and laboratory information system can be accommodated. The PSLIM Slide Labeler is also chemically resistant. Functioning with a capacity of 150 slides and a speed of 12 slides per minute, the PSLIM

saves time and money. It also conveniently allows data to be collected by the barcode scanner, a keyboard or computer.

Computer Applications

AccuPlace is also a leader in supplying computer applications. For example, disk drive labels must be tamper-proof and AccuPlace Model 3065 can apply adhesives in two dimensions that are extremely difficult to peel. Identification labels can then be placed on the disk drive by Model 4065 bubble-free, and with easy changeover between labels.

Another example is in assembling inkjet cartridges. To assemble inkjet cartridges, a double-sided Rex circuit adhesive must attach to the ink cartridge that the Rex circuit can then adhere to. This multi-step process can be streamlined with Model 3065, which is able to rotate at a 90 degree angle after the first task and automatically complete the process. Model 1515 can then apply a barcode label to the inkjet cartridge before finishing with the sealing tape by Model 3065. The sealing tape is carefully placed by Model 3065 in a two-dimensional “U” shape over the delicate print head.

Mobile Applications

The detailed manner in which mobile phones are constructed can be difficult and time consuming to assemble. AccuPlace has several solutions to streamline assembly. For example, battery packs require foam cushioning that is thick and porous, making it hard to peel and place into the recessed holder. A clear insulator is also layered onto the battery compartment. The clear insulator is hard to distinguish from the clear liner. AccuPlace Model 1515 is an excellent option for this adhesive assembly because it consistently peels the foam cushion with precision and the machine’s sensor is able to easily distinguish between the clear insulator and the clear liner.

In addition, Model 1515 applies the mobile device’s popple-domed keypad onto the circuit board and can accommodate eight keypad patterns and two orientations. The APAC Industrial Robotic System can then use a vacuum to pick up and place the flexible and awkwardly shaped microphone mesh, earpiece speaker mesh, and the dust gaskets covering them.

Additionally, Model 3065 can also perform a wide variety of functions in the assembly of mobile phones. For example, Model 3065 can place a reflective foil over the LCD screen ensuring the

quality of the screen is not compromised by eliminating air bubbles. The bezel adhesive, the covering of the phone with cutouts for buttons, is difficult to assemble with an adhesive because of its complex shape. It requires an adhesive to be applied to the three-dimensional contours. Model 3065 can accurately and consistently apply the adhesive component, and add the manufacturer's nameplate within a recessed area after.

Automotive Applications

AccuPlace machines can also simplify manufacturing within the automotive industry. For example, the AccuPlace Model 3065 expertly applies decorative plates to shift-knobs with a double-sided adhesive. Multiple shapes and contours can be accommodated, making it the best option for shift-knobs that require to be assembled horizontally and rolled down the side. With a Model 3065, this is all accomplished in 5 seconds. Model 3065 can also be used to attach a protective film onto the plastic covering of a keyless entry device.

Additionally, automotive mirror turn indicators require foam pads to act as vibration dampeners and foam pads can be difficult to die-cut, peel and place due to the material's density and porosity; however, the Model 3065 can help ensure precision by placing the adhesive within ± 0.005 ".

AccuPlace models range in a variety of different sizes and are versatile in their abilities to peel, print and stick adhesive labels of all shapes and sizes. They can accommodate a variety of different industries and make sure that each adhesive is labeled precisely and accurately every time.

