

Hot Melt Moulding

Sealing Protection for Plugs and Components

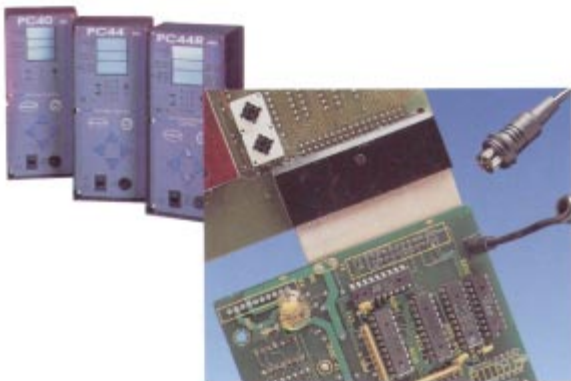


Innovative Hot Melt Moulding Technology

Many modern industries, such as the automotive, communications, home appliance and electronics industries, have seen great progress made especially in the areas of miniaturization and modularization of their components. These very sensitive elements are increasingly required to deliver the highest and most efficient performance while at the same time operate at the lowest possible cost. In order to function reliably even under extreme influences such as heat, humidity, or dust, electrical and electronic components, switches, sensors and relays must be specially protected. The solution is moulding these components with thermoplastic polyamids. Nordson has developed a moulding system which meets the highest requirements concerning functionality, economy, reliability and environmental friendliness.

Automobile Electronics

Drivers are demanding more dependability, economy and comfort from their automobiles, and this requires more and more electronics. The “nervous system” of many vehicles is becoming more extensive and more varied with each new automobile generation. The components and their cable connections must be of high quality and durability in order to meet these demands. Some examples of applications of moulding technology for automobile electronics are sealings for diesel injection sensors, anti-lock braking sensors, plug connectors, cable leads and runs as well as protection of electronic components against humidity and vibration.



Industrial Electronics

Nordson hot melt moulding systems can be easily and economically integrated into manufacturing processes in many areas of industrial electronics, for example in the production of control units and controlling electronics. Protective mouldings for sensors and circuit boards, ribbon cable connections, insulation for transformers and moulding of inductivities guarantee the continuing function of components.



Home Appliances

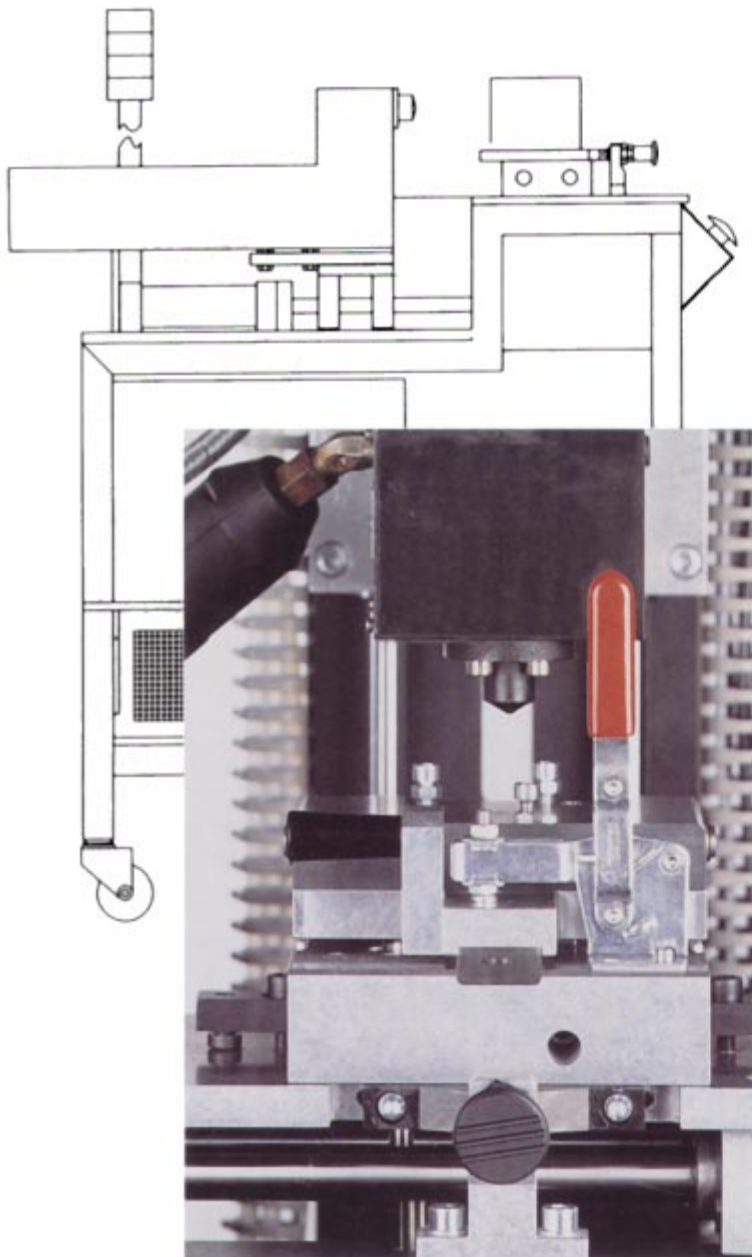
In washing machines, refrigerators, coffee makers, heating pads and other electrical appliances, it is very important that electric motors and gearboxes are watertight and temperature-resistant and that the cables, cable leads and cable harnesses are protected.

Communications Electronics

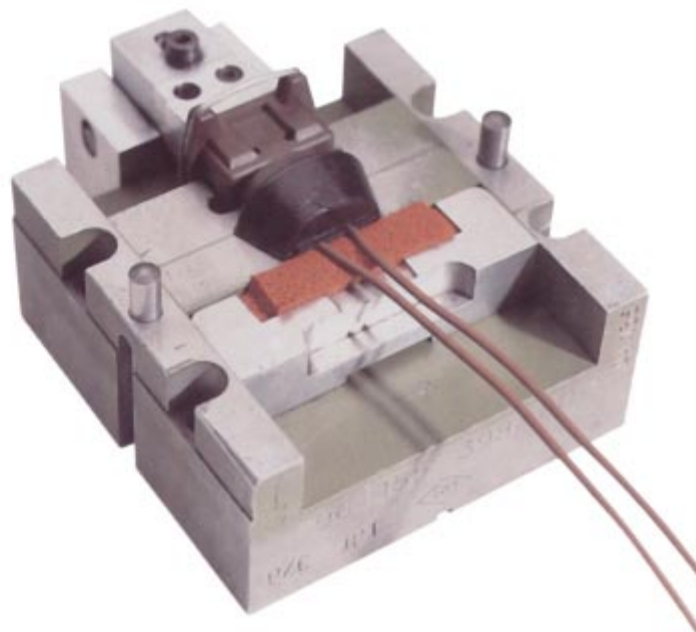
Moulding technology is applied in the production of handy telephones, car radios, portable entertainment systems, laptops and notebook computers to protect and insulate components, circuit boards, cables and antennas from negative outside influences.



The Nordson Moulding System



The Nordson moulding system uses thermoplastic polyamid materials without solvents for environmentally-friendly operation. Its modular design makes it easy to operate and allows it to be easily integrated into existing production lines. The moulding process is carried out through special application heads which allow volumetric or time-controlled dosage of the material. Depending on the requirements of the user, the application can be made with a special moulding tool or a „free“ mould. The system's low-pressure injection moulding technology makes possible a wide range of applications which are controlled by an automatic monitoring system. As with all its other systems, Nordson also offers individual solutions for any application according to customer-specific requirements.



The Advantages of Nordson's Moulding Technology

Because the moulding is a low-pressure process, damage to components through high pressure is avoided even for low-viscosity materials.

The use of different types of polyamid materials guarantees optimal adhesion to any other material such as PVC, PA 6.6 etc.

In comparison to high-pressure injection moulding processes, the Nordson moulding system uses aluminum moulds which reduce tooling costs.

The moulding materials become hardened in seconds.

Its compact, space-saving design makes the system easy to operate and maintain.

The moulding system can be quickly and easily integrated into existing production lines, allowing for shorter production cycles with fewer interruptions.

Nordson, Totally Committed to Your Needs



Dedication to customers keeps Nordson the leading supplier of equipment and systems which apply the adhesives, coatings and sealants that make today's products work better and last longer.

Innovative technologies, state-of-the art research, development and manufacturing facilities, custom-tailored systems and top quality products have made Nordson the leading manufacturer of application and finishing equipment. Located all over the world and in most European countries, all subsidiaries operate on the "local principle" – by local personnel who identify and pursue opportunities in response to local conditions. Over 3,000 employees with a strong international background are expanding Nordson's unique experience and proprietary knowledge. Working hand-in-hand with material suppliers and customers, they consistently provide more of the engineering and manufacturing support, and more of the customer service that carved Nordson's leadership niche. By developing comprehensive solutions, Nordson helps customers achieve the increased quality, productivity and efficiency that lead to a quick return on their investments.

All Nordson products are backed by Nordson's Package of Values™ to ensure the customers' satisfaction every step of the way. The package includes production testing, application engineering, installation assistance and operator training. Nordson's reputation is built on fast, dependable service and the ability to find solutions to changing market conditions.

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