

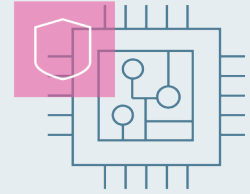
OVERMOULD™

Handheld & Bench-top Equipment

Overmould HB-500 & HB-510



Low pressure moulding can provide excellent, reliable, repeatable solutions

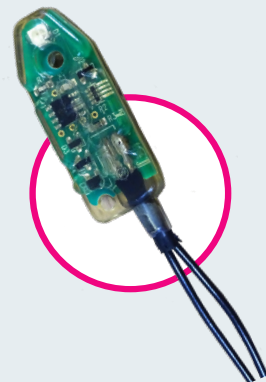


Examples of Overmoulded products

The Low-Pressure “Hot-Melt” process enables a wide range of industries to achieve safe, IP rated encapsulation of products, and overmoulding of sensitive parts efficiently and cost effectively.

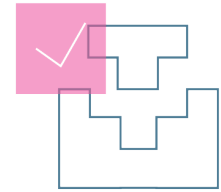
Unlike conventional injection moulding, the unique LPM process uses very low pressures meaning reduced costs for tooling & set up. The encapsulation of delicate electronics including Li-Lion and other batteries can be performed safely, repeatedly and without damage to delicate

components. In fact, Overmould Ltd, have pioneered the use of this LPM methodology in battery overmoulding and supply many global companies from our sub-contract overmoulding department. Where conventional injection moulding damages delicate parts, this isn't the case for Low pressure overmoulding. Overmould Ltd have supplied expertise and technology to many global companies and are acknowledged experts in safely overmoulding all battery technologies.



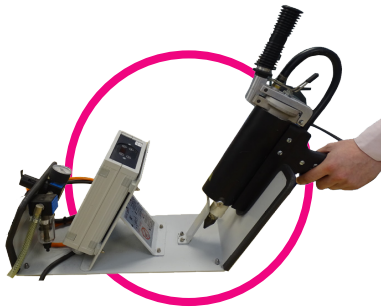
HB-500 / HB-510

Features & Benefits



The HB-500

The HB-500 handgun is manufactured for use especially to Overmoulds specifications in low pressure moulding applications. It is not a “Hot-Melt” glue gun, but in fact a highly versatile production tool that can stand alone in a low volume production environment or facilitate a highly cost effective “pre-moulding” stage. It can fit onto any bench surface and once the melt tank is filled to 200ml and switched on, it is ready to use in just 20 minutes.



The HB-510

The HB-510 low pressure moulding system is the big brother of the HB-500, also featuring a hand operated dispenser. However, on this system, the gun is connected to a separate melt unit using a heated hose. This means that two kilos of material can be melted at once, enabling higher production volumes. Other key differences are that the HB-510 features a precision gear pump for precise material delivery and a 2-litre

melt tank, which enables a more constant production process without the expense of a fully automated LPM machine.

The maximum temperature of 250°C for both the HB-500 and the HB-510 enables the processing of all Technomelt polyamides. This is not the case for many “cheaper” units that won’t go beyond 200°C.



The HB-series handguns each have their own distinctive qualities and are perfect for low volume dispensing like research and development projects, prototyping or short run manufacturing.

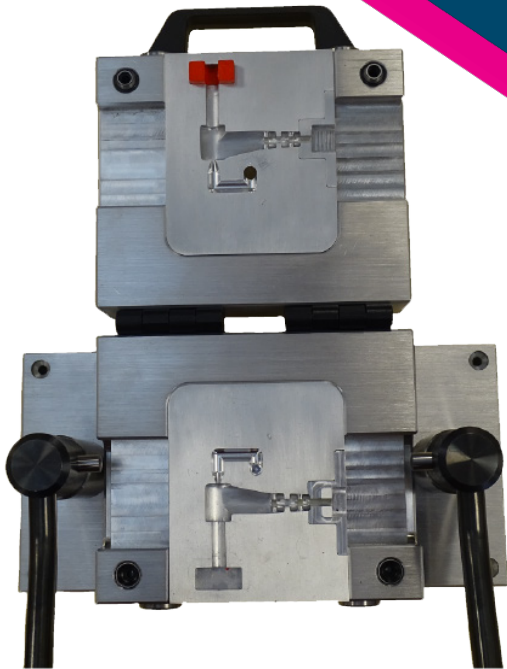
HB-500 / HB-510 Tooling

Overmould's unique mould tool bolster

The docking mould set complements the HB-series perfectly, enabling very cost-effective, small mould inserts to be swiftly added for rapid production part changes. This feature means that multiple tool inserts can be made without the need for each set to have its own clamping & alignment features, significantly reducing the cost and the set-up time, as well as the price for each mould tool set.

Water-cooled and super-sized options of the docking mould set are available for the projects that require it. We can design and manufacture the mould tool halves, specific to your application, in 10-15 days. This highly flexible method helps to keep the overall timeline short for rapid set up of new production jobs.

Contact us for more information on our HB-series docking mould set. We have experienced, specialist tool making design and manufacture in-house.



Technomelt Materials

The leading choice for hot melt adhesives



Comprising a unique polyamide formulation, Technomelt is available in a wide range of distinctive variants, each with different attributes. Some are specially designed for specific industries including: medical, solar, salt water, vehicle (under bonnet) and electronics.

Technomelt has exceptionally high electrical insulation properties, good physical strength and the advantage of excellent adhesion to a very wide range of materials and substrates; cable sheaths, metals, plastics, and many other materials.

Overmould is the technical partner and sole UK distributor for Henkel Technomelt. A large stock is maintained in house and can be with you within days.



Specialists in Low Pressure Moulding, Equipment, Material Supplies and Tooling



Overmould Ltd has a sub-contract manufacturing department, specialising in the sealing, encapsulation and protection of electronics using LPM technologies. We work with our customers to provide complete turnkey solutions and support, including design, prototyping, assembly, overmoulding and testing.

Centrally located in Bedfordshire, UK, we have been established for 20 years. Starting out in the manufacture of high voltage connectors for the electrical test industry, we used our accumulated knowledge and confidence in the technology from our early projects to starting a company

dedicated to Low Pressure Moulding. With globally leading equipment from Optimel, Moldman and Buehnen, combined with hot-melt materials designed by Henkel specifically for LPM applications, we can provide solutions specific to each of our customer's needs.

SPEAK TO A MEMBER OF OUR TEAM TODAY TO DISCUSS HOW YOU CAN IMPROVE THE ROBUSTNESS OF YOUR ELECTRONIC ASSEMBLIES.



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