

# PDM

Subsea products and services



**The PDM Quickcure Moulding System**

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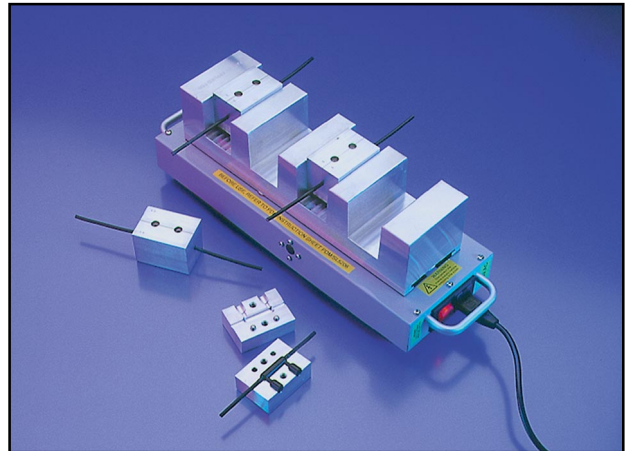
The PDM Quickcure Moulding System (QMS) was developed to enable the manufacture of high quality mouldings, remote from conventional process facilities. It was produced initially for the repair of geophysical cable installations. These very large arrays of sensor elements demanded a method of repair that did not necessitate the removal of the complete installation to replace an element or repair a cable. Since its inception the QMS has also found many and varied applications across the subsea market.

Ambient temperature curing elastomers cure best at temperatures of 20°C and above, but at many installations such temperatures cannot be guaranteed. Even if this temperature is achievable the cure time is usually several hours. Materials cured above ambient temperature inevitably lead to a better moulding with improved mechanical and electrical properties. In addition to improved properties, at higher temperatures, the time for the whole moulding process is dramatically reduced. Plant for this type of moulding is only normally available in industrial process facilities. Such facilities also include additional equipment, such as weighing, mixing and evacuation machinery, to achieve a high quality moulding.

The QMS comprises a Quickcure Moulding Heater (QMH), special moulds for the type of joint, sachet based twin pack elastomers, release agents & primers as required. The QMH is temperature controlled to ensure the correct cure temperature for the elastomer. PDM elastomers are packaged in such a way that no weighing or evacuation processes are required.



The 1-slot QMH



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The QMS is manufactured in a 4-slot and a 1-slot configuration. Both are available in 220Vac and 110Vac versions and are CE marked and IP40 coded. The units are also fully RoHS compliant and PDM are registered as a WEEE producer with an Environment Agency approved scheme. They require an earthed power supply, are rated at 1kW and include RCD protection.

A selection of standard mould designs is available and owners of the system can access more support information from the PDM web site. Custom moulds can be produced to client requirements. The design of these moulds is critical if a uniform heat distribution is to be achieved within the mould. Due to the special design of the QMS, no client tools are required to assemble or disassemble the QMS moulds.

The QMS offers huge benefits in terms of convenience and cost for applications where it is difficult or expensive to remove equipment for repair or maintenance.

Support for the product is available worldwide from PDM in Alton, where engineers familiar with the system will be happy to help you. For more information on the QMS and the PDM range of elastomers please contact PDM for the appropriate Data Sheets, Instruction Sheets and Product Brochure.

Product brochures are available on

Epoxy/Rubber Moulded Connectors  
Underwater Pluggable Connectors  
Connectors/Cable Assemblies  
Encapsulated Products  
High Density Connectors  
Wet Pluggable Connectors  
Polyurethane Elastomers  
Transition Zone Connectors  
Design & Development Projects

Titan Connectors  
Penetrators  
Bend Limiters  
Polyethylene Products  
Bend Restrictors  
IE55 Connectors  
Micro Connectors  
Fibre Optic Penetrators  
Polyethylene Moulding

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