



CTM
EQUIPMENT LIMITED



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Advanced Polyurethane Metering Technologies

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Case Studies

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Case Study

Our customer required epoxy foam filling inside of a cabinet which contains electrical components. Normally epoxy is processed at a high temperature and when mixed can reach heights of over 200 degrees which was a problem for our customer. This was because there was a great risk of damage to the internal electrical components if they were exposed to excessive heat.

CTMs solution was to process the material as cold as possible so to reduce the exothermic reaction to a minimum. Unfortunately this would mean the material would be as thick as syrup and very hard to mix. An alternative mixing technique was suggested, a proposal made and contract won.

Due to the success of this project CTM are now considered global leaders in this field of epoxy high pressure mixing.



2

Case Study

Our customer was looking for a machine capable of producing a bend stiffener for use in the offshore oil and gas industry. Looking to process 2,000kg a minute, ten times the size of the largest machines available, CTM were contacted to build a bespoke unit. We faced many issues building a machine to this specification including the complication of moving large volumes of material at high velocity. We also managed to significantly reduce the amount of turbulence into the system which if present would create a fault in the mould.

This machine included the first CTM data-capture system enabling monitoring during the pouring and curing process.

As our customer needed to know exactly how the bend stiffener is made in order to provide quality assurance we designed analysis software specifically for their needs.

In late 2009 this machine made the world's largest bend stiffener at 5,300kg.



Breakdown Response

CTM is based at the heart of England in Barnsley, South Yorkshire. Our central location enables us to attend site within a three hour radius of most major towns and cities.

Our team of six experienced and dedicated site team engineers operate from our technical centre in South Yorkshire; they are on hand for you. Our workforce is trained to the highest level of engineering and electrical standards on all major brands of polyurethane equipment. We also have in-house PLC programming and software development team experienced in Siemens, Mitsubishi, Omron and Allen Bradley.



Our pledge

Here at CTM we fully understand your costs of being out of production due to equipment failure is very expensive. Timely and effective support is important; CTM will be there for you first.

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