



**MIXTEC**  
FOR MIXING TECHNOLOGY

## Laboratory Mixer

We have recently delivered a fully enclosed bench top mounted mixer for very viscous liquid silicone rubber.



### *The Challenge*

We were approached by a company which manufactures products out of liquid silicone by the injection moulding process. Liquid silicone needs to be mixed with a catalyst for it to cure, this is normally done in the production machinery via a static

The customer required us to produce a mixer which was self contained and fully enclosed for safety reasons. It had to mix batches of liquid silicone from 500 ml to 2,000 ml, the mixing pot had to be removable for transferring the

mixer just prior to injecting into the mould. For product development trialing of different blends this is not practical so the company sought a lab mixer to perform this function.

product to a lab injection moulding machine and the wet end of the mixer had to be easily removable for cleaning purposes between different batches.



Our engineering team studied the application and considered the customer requirements to design both an effective mixer and fully self contained safe solution. The mixer shaft and impeller is held in position and driven by a bayonet type shaft coupling allowing the quick removal of the shaft without the use of tools.

The mixing pot is clamped into position using an over center lever clamp, when closed a limit switch is made enabling one of the safety circuits.





The enclosure has an industrial safety door switch to prevent the mixer from operating with the door open. The complete mixer assembly raises and lowers by means of a motorized linear actuator operated from the control panel.



Contact us for all your Mixing and Agitation requirements 09 828 3706 or [info@westerneng.co.nz](mailto:info@westerneng.co.nz)



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