

Sparks, Nevada www.Lmine.com

Operation Manual & Safety Instructions for Legend Crucible Mixer

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Legend Crucible Mixer

The Legend crucible mixer is designed to automate the mixing of fire assay crucibles. Because the operators are removed from the mixing operation, there are significant savings of time as well as substantial safety benefits due to reduction of 'carpel tunnel' repetitive motion reduction and removal of the operator from the potential contact with lead dust while mixing

Safety Considerations

Make sure all guards, panels, and interlocks are in place before operating. Do not defeat the door interlock. The rotating carriage lock intentionally props the door opened when engaged, thus keeping the door interlock from engaging.

Make sure all bolts remain tight, especially the motor mounting bolts.

Do not operate the mixer with the motor inspection cover opened.

Operation

Fill the wood crucible pallet with crucibles. The crucibles should already be charged with your sample, flux, and all other components. If you are adding a cover, this will be added after mixing.

Place a sheet of the clear poly film over the crucibles. Place the foam cover on top of the poly film. The poly film keeps the samples from contaminating the foam with sample, litharge, and other flux components. If you fail to use the poly film, your foam will become contaminated and will increase the risk of contaminating subsequent samples as well as risk additional lead exposure.

Slide the wood crucible pallet, poly film, and foam into the mixer. Make sure the lid is raised sufficiently to allow this to slide in easily.

Turn the hand wheel to lower the lid. You can make your own determination on the degree of compression you need on the foam, but typically the foam will compress $\frac{1}{2}$ " to $\frac{3}{4}$ " on top of the crucibles. Make sure and stop the hand wheel with the spinner handle either to the left or right, in line with the cross brace. If the







Crucible mixer with carriage lock in place. Door cannot fully close and cannot engage the door interlock.

Legend, Inc. 988 Packer Way, Sparks, NV 89431 phone: 775.786.3003 fax: 775.786-3003 www.Lmine.com spinner handle is left either to the forward of back, there is insufficient clearance and it will hit the mixer cabinet.

Grease all bearings after each 8 hours of operation. Also, check all bearing mounting bolts and other nuts and bolts to make sure they remain tight. Also, check bearing set screws and belt tension.

Typical wear and replacement parts are shown below. It is suggested that spares be kept to minimize down time.

| Cat. | |
|--------|---|
| Number | Description |
| 17820 | Extra crucible pallets- standard for 24-30 or 40 gram crucibles |
| 17830 | Foam cover, high density |
| 17840 | Poly film disposable cover |
| 17821 | Gas shock |
| 17822 | Axel with mounting plate |
| 17823 | Bearing for axle |
| 17825 | Threaded shaft with mounting plate |
| 17827 | Nut for threaded shaft with thrust washer |
| 17828 | Thrust washer |

Prices subject to change.



CORRECT! Handle in left position.



CORRECT! Handle in right position.



INCORRECT! Handle in back position.



INCORRECT! Handle in front position.

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