



## CTT TYPE 8 OXIDE MILL

### MACHINE REFERENCE NUMBER KA002-0000

#### 1.0 PROCESS.

The manufacture of Lead Oxide to a specification suitable for use in lead acid accumulators.

#### 2.0 PLANT DESCRIPTION.

The Type 8 Oxide Mill has been designed to give a normal output of 40 tonnes per 168 hour week at 60% PbO. The plant is semi-automatic in operation and is most suitable for continuous running. When running steadily the installation requires little attention apart from the loading of lead ingots onto the feed conveyor, hourly checks of PbO content and lubrication of plant items. When the mill is run for shorter time periods, on re-start there is no scrap produced.

Equipment is provided to cut the lead ingots into a suitable size (approx. 12.5 kg) prior to being fed into the mill. A double filter air exhaust system is used to ensure absolutely safe working conditions. This system consists of a main bag filter unit which is backed up by an absolute filter, maximum emission to atmosphere is less than 5 grammes per 40 tonnes of oxide produced. For noise protection the mill drum is fitted with an acoustic enclosure.

All the electrical controls, with the exception of the lead ingot chopping unit, are centralised in one panel which is located adjacent to the mill.

#### 3.0 PRODUCT SPECIFICATION.

##### Particle Size.

At least 80% of the product will have a particle size of less than 53 microns and at least 98% of the product will have a particle size of less than 150 microns

##### Lead Oxide Content

The PbO content may be varied within the range of 55 to 65% with an accuracy of + or -3%

#### 4.0 OUTPUT

40 tonnes per working week of 168 hours at 60% PbO.



## 5.0 SERVICES REQUIRED.

### Electrical.

Total connected load 40 kW.

### Water.

A flow of 200 liters per hour of clean water is required.

### Compressed Air.

Up to 650 liters per minute of clean, dry, free air compressed to 5.5 kg/sq.cm is required.

## 6.0 SPACE REQUIREMENTS.

The Type 8 Oxide Mill occupies a floor area of 10.6m x 4.9m and a height of 5.1m