

# Tilting Gas/ Oil Central Axis Furnace

## DESCRIPTION

The Central Axis Furnace can melt a wide range of metals and alloys up to iron temperatures, using TPX pour over the top crucibles. The steel furnace casing is lined with 60% alumina brick, backed by high grade insulation. The cover of the furnace has exhaust ports around the crucible which gives further heating to the top of the crucible providing some pre heat to the solid charge. The furnace is equipped with a drain hole assembly which will allow metal entering the furnace chamber to escape to a suitable catchment pit.

Central Axis Furnaces are available for operation with gas or fuel oil

- 1) For metal temperatures up to 1250°C using gas or oil.
- 2) For temperatures up to 1400°C using oil only.

## SIZE RANGE

CA furnaces are available in four standard sizes to give capacities from:

- 22kg – 95kg aluminium
- 70kg – 300kg bronze
- 55kg – 240kg iron



# Gas/ Oil Lift Out Furnace

## DESCRIPTION

The lift out furnace can melt a wide range of metals and alloys up to iron temperatures, using AX or CX type crucibles inserted and taken out with tongs.

The steel furnace casing is lined with 60% alumina brick backed by high grade insulation. The swing aside cover of the furnace has a central exhaust which deflects the exhaust gasses over the top of the crucible to pre-heat the solid charge. The furnace is equipped with a drain hole assembly which will allow metal entering the furnace chamber to escape to a suitable catchment pit.

Lift out furnaces are available for operation with gas or fuel oil and in three temperature versions.

- 1) For metal temperatures up to 1100°C using gas or oil.
- 2) HTG for metal temperatures up to 1250°C. using gas.
- 3) HTO for temperatures up to 1400°C using oil only.

## SIZE RANGE

Lift out furnaces are available in five standard sizes to give capacities from :

- 8kg – 60kg aluminium
- 25kg – 150kg bronze
- 20kg – 135kg iron



# Gas/ Oil Mini Furnace

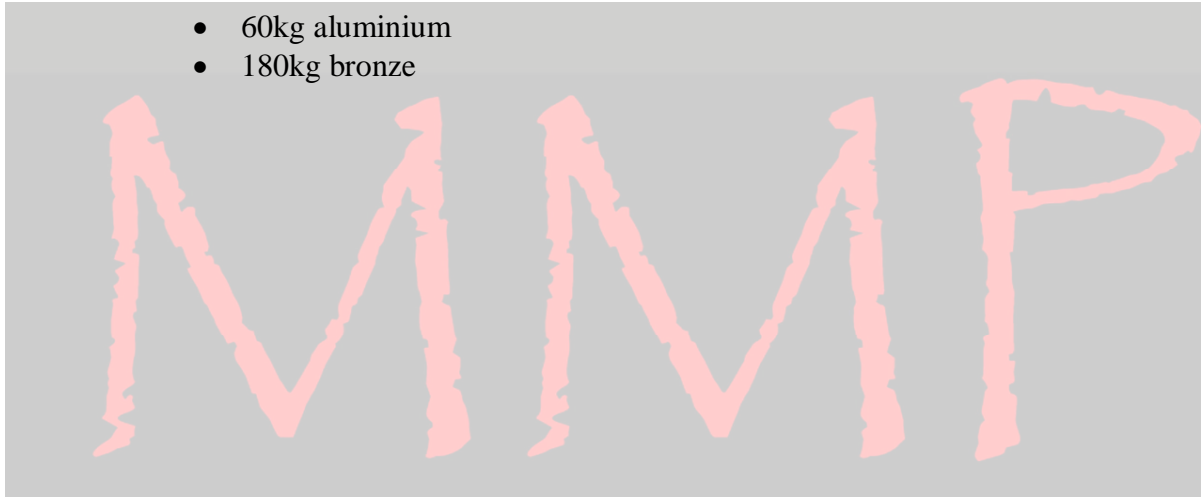
## DESCRIPTION

The Mini HLP gas/oil fired, hydraulic, lip axis pouring, tilting, furnace, provides an efficient and simple way, to melt a wide range of metals and alloys up to 1250°C. Molten metal is discharged from the crucible top edge when tilting enabling a pouring ladle to remain in one position. The furnace body is tilted by twin hydraulic cylinders, pressurised by the supplied motor driven power pack and filled with a non flammable fluid.

## SIZE RANGE

The Mini gas/oil fired, tilting furnace, using the TPX 904 crucible pattern, is available for :

- 60kg aluminium
- 180kg bronze



# Gas Miniature Lift Out Furnace

## DESCRIPTION

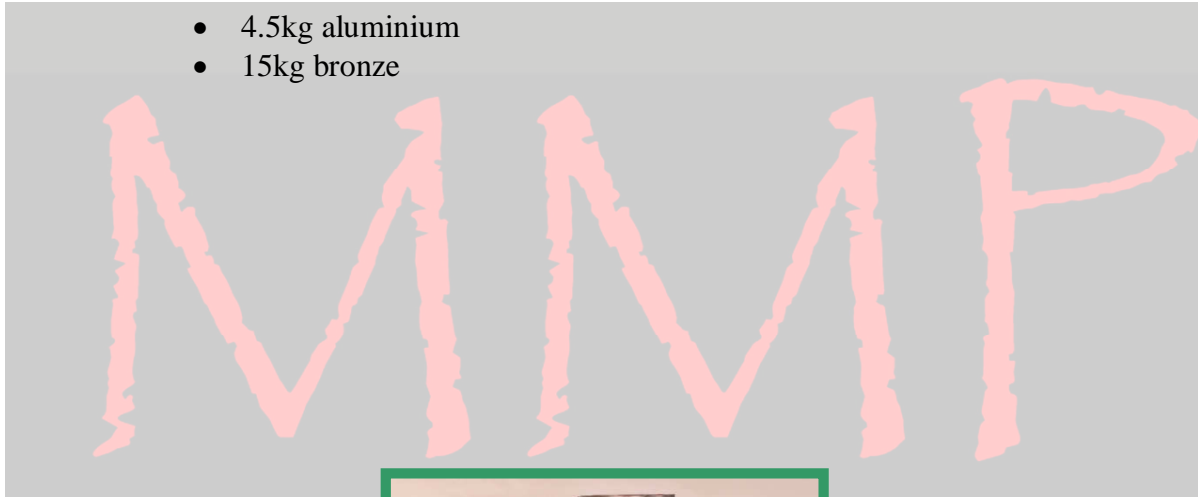
The Miniature Lift Out Furnace can melt a wide range of metals and alloys up to 1250°C using AX type crucibles inserted and taken out with tongs. The steel furnace casing is lined with LTM high alumina brick. The swing aside cover of the furnace seals the melting chamber and exhaust products leave by a side channel and through the exhaust extension.

One phase burner suitable for Colleges, Art workshops, Precious metals and foundry test melts

## SIZE RANGE

The Miniature gas lift out furnace, using the AX crucible pattern, is available for :

- 4.5kg aluminium
- 15kg bronze



# Dual Energy Bale Out Furnace

## DESCRIPTION

The Dual Energy Bale Out Furnace provides a high level of thermal efficiency and essentially exploits the advantages of gas melting with electric holding. The energy source is automatically selected with respect to temperature when 'auto' is selected. Melting takes place with gas up to near casting temperature and electric thereafter to maintain close temperature control.

Alternatively, gas or electric can be manually selected to load shed or optimise energy use.

Radiation losses from the metal are minimised by the use of a well-insulated swing aside cover that can cover the crucible when no baling is needed.

The superb insulation allows for excellent melting and holding performance from the compact packaged nozzle mix burner and electric heaters.

The advanced insulation materials used in the furnace lining also result in low casing temperatures, providing comfortable working conditions.

Suitable for metal temperatures up to 850°C.

## SIZE RANGE

The Dual Energy Bale Out is available in the size range 85kg – 1327kg aluminium.



# Dual Energy Tilting Furnace

## DESCRIPTION

The Dual Energy Lip Axis Pouring Basin Tilting Furnace provides economy in energy costs, over comparable brick lined furnaces, through the use of radiant panel technology for gas melting, electric resistance heating for holding supported by efficient low thermal mass materials in the lining. The selection of energy source is generally automatic with respect to temperature, but gas or electric only can also be selected if required. Energy losses by radiation and convection from the metal are minimised by the use of a well insulated swing aside cover arranged to cover the crucible when no charging is required, thus improving efficiency, particularly whilst holding.

The radiant gas and resistance heater panels and efficient lining give excellent melting and holding performance from the compact gas burner and electric panels. The gas burner is arranged to tilt with the furnace and therefore can continue firing during the pouring cycle, if required, in the gas only operation. In the Dual mode, PID electric heating is permitted during tilting, if required. The insulation material used in the furnace lining results in low casing temperatures, providing comfortable and safe working conditions. Suitable for metal temperatures up to 850°C.

## SIZE RANGE

The Dual Energy Basin Tilting Furnace is available in the size range 213kg – 1000kg aluminium.



# Electric Tilting Furnace

## DESCRIPTION

The ERBT Lip Axis Pouring Basin Tilting Furnace is an efficient, electric resistance crucible melting furnace, suitable for metal temperatures up to 850°C. Reliable, freely radiating semi embedded panel technology and efficient low thermal mass materials in the lining, optimises efficiency and crucible life.

The insulation materials used in the furnace lining also result in low casing temperatures, providing comfortable and safe working conditions.

The furnace is tilted at its lip axis by twin hydraulic cylinders and a purpose designed power pack with either lever or push button control.

## SIZE RANGE

The Electric Resistance Basin Tilting Furnace is available in the size range 213kg – 930kg aluminium.



# Gas Fired Bale Out Furnace

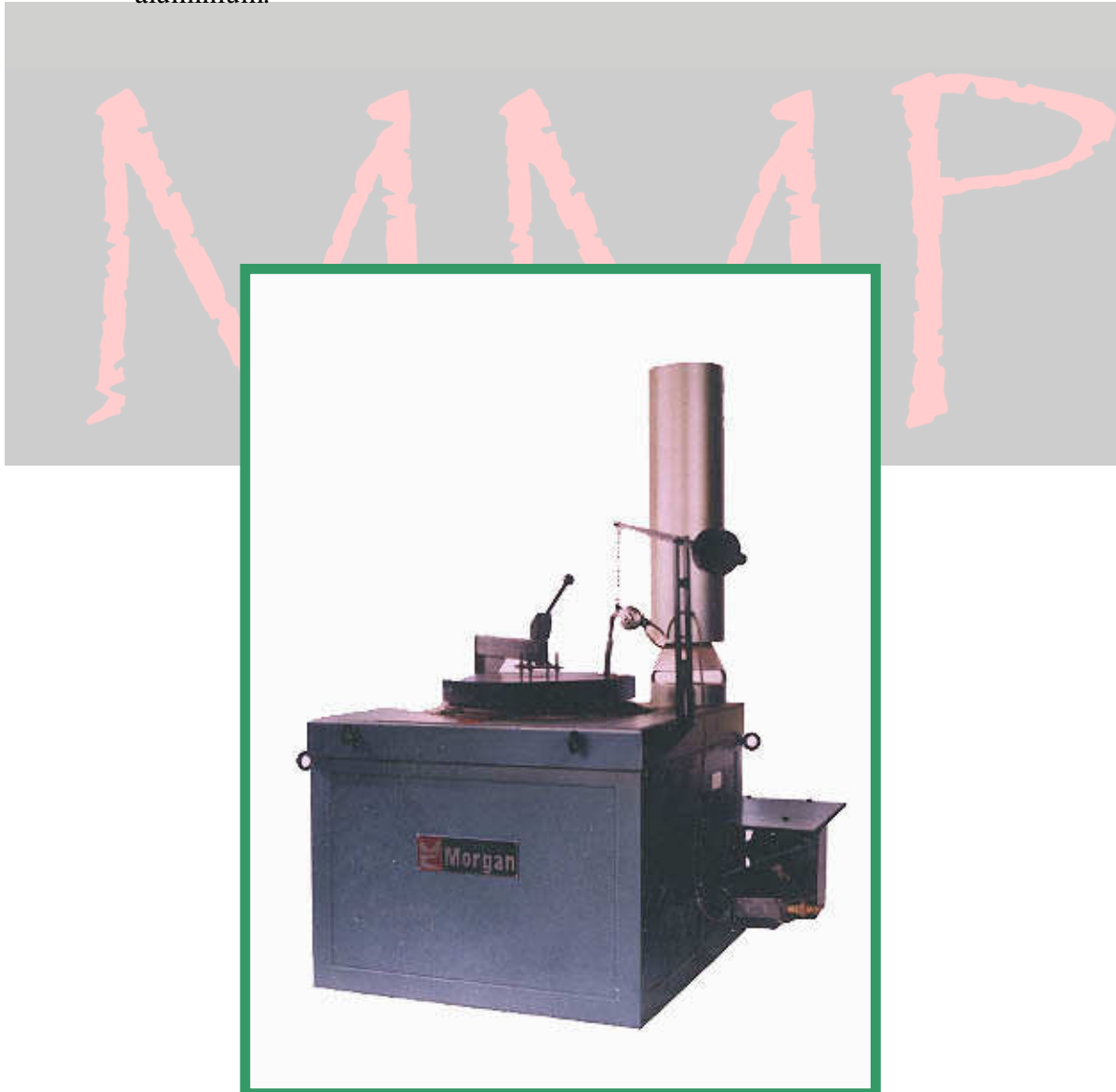
## DESCRIPTION

The MK V Gas Fired Bale Out Furnace provides a high level of thermal efficiency over conventional brick lined furnaces, to keep energy costs low. Radiation losses from the metal are minimised by the use of a well-insulated swing aside cover that can cover the crucible when no baling is needed. The superb insulation allows for excellent melting performance from the compact packaged nozzle mix burner.

The advanced insulation materials used in the furnace lining also result in low casing temperatures, providing comfortable working conditions.

## SIZE RANGE

The Gas Fired Bale Out is available in the size range 85kg – 1327kg aluminium.





# Tilting Gas/ Oil Furnace

## DESCRIPTION

The Gas/Oil Fired Lip Axis Pouring Basin Tilting Furnace provides economy in energy costs, over comparable brick lined furnaces through the use of radiant panel technology and efficient low thermal mass materials in the lining.

The exhaust over the crucible options (SP) are available which further enhances the melting efficiency through charge recuperation, however crucible covers cannot be used and operation efficiencies are reduced.

The conventional side exhaust model limits radiation losses from the metal by the use of a well insulated swing aside cover that can cover the crucible when no charging is required, thus improving efficiency, particularly whilst holding.

The radiant panels and lining give excellent melting performance from the compact gas or oil burner. The gas burner is arranged to tilt with the furnace and therefore can continue firing during the pouring cycle if required. Oil burners however remain static when the furnace is pouring.

The insulation materials used in the furnace lining result in low casing temperatures and provide comfortable and safe working conditions.

## SIZE RANGE

The Gas/Oil Fired Tilting Furnace is available in the size range 213kg – 1500kg aluminium



# Electric Resistance Bale Out Furnace

## DESCRIPTION

The Electric Resistance Bale Out Furnace suitable for metal temperatures up to 850°C, has been designed to have a high level of thermal efficiency, hence keeping energy costs low. Radiation losses from the metal are minimised through the use of a well insulated, swing aside cover that can cover the crucible when no baling is needed. The superb insulation provides excellent melting performance from the semi-embedded heater panels. The advanced insulation materials used in the furnace lining also result in low casing temperatures, providing comfortable working conditions.

## SIZE RANGE

The MK V Electric Resistance Bale Out is available in the size range 85kg – 1327kg aluminium..

Also available: Zinc applications. H.T. versions up to size 3, for brass, to 1000°C.



# ELECTRICAL HEATED TRANSPORT LADLE

## DESCRIPTION

The Electrically Heated Transport Ladles are designed to safely maintain and transport aluminium alloys at working temperature.

The selected versions can be moved and dispensed by either a crane or a fork lift truck with a rotating fixture.

The ladles have been designed to have a high level of thermal efficiency, hence keeping energy costs low.

Radiation losses from the metal surface are minimised through the use of a well insulated, swing aside cover that can cover the ladle liner when no charging or metal treatment is occurring.

The advanced insulation materials used in the furnace lining also result in low casing temperatures, providing comfortable working conditions.

## SIZE RANGE

Electrically Heated Transport Ladles are available in seven sizes, ranging from 150kg to 700kg of aluminium. Connected power ranges from 21kW through to 36kW. However, higher powered units with 12 heaters are also available, where a melting capability is required.

