



# RAUCH MAGNESIUM MDO



Magnesium dosing furnace MDO250E

## Magnesium holding- and dosing furnace MDO

RAUCH Magnesium dosing furnaces are the result of the close cooperation with our customers and the internal research as well as the consistent conversion of metallurgical realizations and practical concepts. They offer a state of the art installation, maximizing security, efficiency and reliability.

## Application

RAUCH Magnesium dosing furnaces make possible...

- the holding of Magnesium alloys in controlled and safe conditions,
- the full automatic dosing of Magnesium melt into the shot sleeve of a cold chamber diecasting machine.

## Design

The MDO is designed as a two-chamber model and all spare and wear parts are compatible to the previous generation.

The two-chamber-design makes it possible to hold a constant melt level in the pump chamber. Therefore the casting conditions remain stable.

Up to a size with a maximum melting rate of 1200 kg/h (2400 lb/h) the MDO are equipped with electric heatings or gas fired. The heatings and their control as well as the protective gas supply are separate for melt chamber and pump chamber.

Melt energy and holding loss has been reduced by the use of the most advanced insulation material.

- Cable guiding (protection against damages and pollution)
- Minimized biscuit length by latest pump technology



# RAUCH MAGNESIUM MDO

- Energy saving insulation
- Maintenance possibilities
- State of the art safety concept
- Latest control technology
- Spare- and wear parts compatibility to the last generation



MDO500E

## Design as melting-, holding and dosing furnace

If no liquid metal feeding is provided, the RAUCH Magnesium dosing furnaces are designed as melting furnaces. In this case...

- the melt chamber gets a higher connected load and
- a RAUCH ingot prewarming and feeding unit MVE is installed at the furnace.

## Transfer systems

The furnaces can be equipped with upward or downward dosing systems for shot weights from 0,2 kg (0,4 lb) up to 30 kg (60 lb) and more per dosing cycle. In combination with our LPS system with pump compensation a shot accuracy of +/- 0,75 % of the shot weight will be achieved (depending on the operating conditions).

MDO		70E	250E	500E	650E	750B	1000E
Melt capacity	[kg/h]	70	250	500	650	750	1000
Crucible content	[kg]	~ 180	~ 390	~ 1080	~ 2020	~ 1120	~ 2950
Crucible chambers		2	2	2	3	3	1
Net weight	[kg]	1500	2950	4700	10000	6000	11700
Connected load electrical	[kW]	60	125	245	362	12	490
Connected load combustible	[kW]					580	
Dimensions							
Length	[mm]	1700	2600	2770	3810	3275	4100
Width	[mm]	850	950	1175	2780	1365	2700
Height	[mm]	850	1285	1285	2835	1500	3100