SINTAI 新台通商

壓鑄設備·製品·連鎖技術服務·網路客服系統 Die Casting Equipment·Chain Technical Service·Internet Customer Service









MDO - Magnesium melt- and dosing furnace

Melting rate from 70 up to 1000 kg/h, electrical or combustible heated, dosing volume from 300g up to 30 kg

This presentation contains the standard equipment with some different options which requires suchages



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MDO70E

Electrically heated for 70 Kg/h meltingrate



MDO750E

Electrically heated for 750 Kg/h meltingrate



MDO250E

Electrically heated for 250 Kg/h meltingrate



MDO1000B

Combustible heated for 1000Kg/h meltingrate



Electrically heated for 500 Kg/h meltingrate



MDO1000E



MDO750B

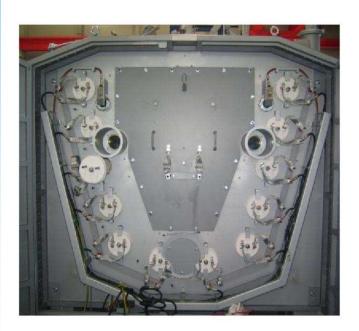
Combustible heated for 750 Kg/h meltingrate





Electrically heated

Special electrical resistance heating with Kanthal heating elements.



Combustible heated

4 high speed burner length to the crucible



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WE DO MAGNESIUM
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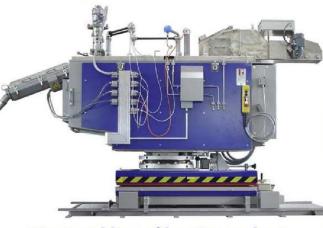
Heating

Electric crucible heatings

Pump chamber heating



Heating racks



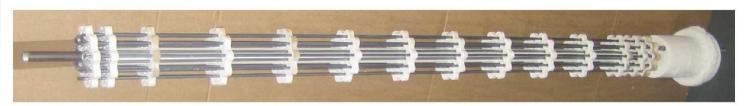
Disassembling of heating racks / heating elements without crucible dismounting



Melt chamber heating

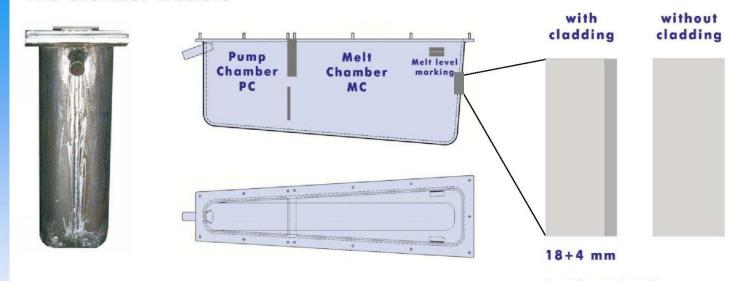


Heating elements





Two-chamber crucible



Inside nickel-free Outside heatproof cladding

For better temperature control, the furnace has got two different heating chambers(pump chamber, melt chamber). To facilitate the maintenance and cleaning during working operation in the combustible heated furnaces, the gas mixing area is separated in tree chambers.

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Centrifugal pump (impeller)

•Pushes instead of raising the melt

•At the pump shaft no level fluctuations

•No bearing in the melt

Benefits:

- •Easy cleaning without removing the pump
- •Better dosing accuracy because of clean pump shaft
- •Less maintenance time
- •Easy change from the old pump system

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Dosing pipe standard version Electrically heated Dosing nozzle, removable **Overall length** according to requirement Pipe cover with quick-release fasteners

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Lengthwise moving and lifting platform including turntable :

Range lengthwise movement: 1000mm

Range hight movement : 0-600mm

Range rotation : 40° in both directions

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Electrical switch cabinet

Remote Control for moving, lifting and rotation platform including emergency stop



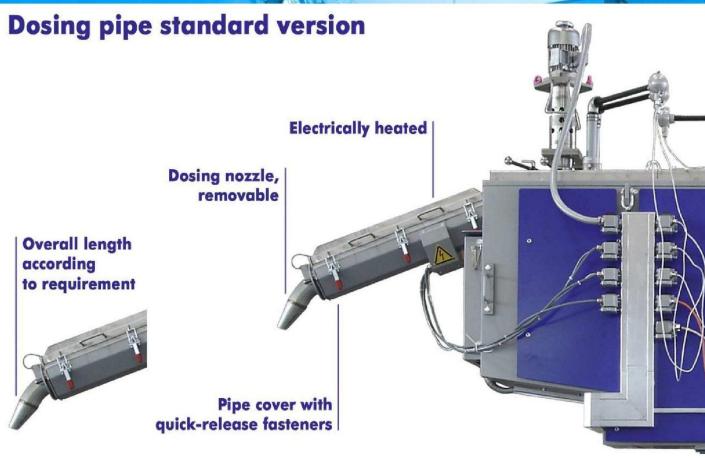
External operator panel

Siemens Touch panel





RAUCH FERTIGUNGSTECHNIK WE DO WAGNESIUM Engineering HighEnd Solutions



Engineering HighEndSolutions







Lengthwise moving and lifting platform including turntable :

Range lengthwise movement: 1000mm

Range hight movement : 0-600mm

Range rotation : 40° in both directions

RAUCH FERTIGUNGSTECHNIK WE DO MAGNESIUM Engineering HighEndSolutions



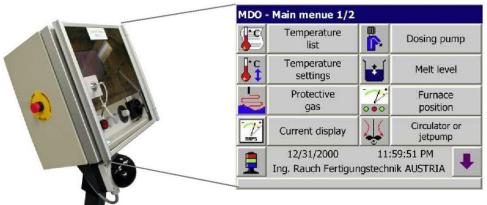
Remote Control for moving, lifting and rotation platform including emergency stop



External operator panel

Siemens Touch panel





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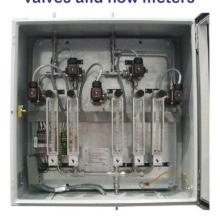
Gas Mixing Unit SF6/N2 - R134a/N2







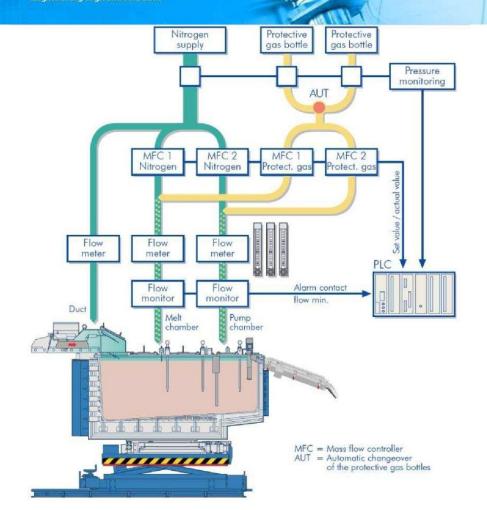
Gas Distribution Cabinet with magnetic valves and flow meters



Earl gas flow control



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Operation Schematic of the Rauch gas mixing System:

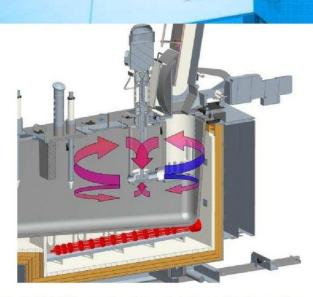
BLUE - Nitrogen

YELLOW- Pure Protective Gas (SO2,SF6,...)

GREEN/YELLOW- Protective Gas Mixture (e.g.: SO2/N2)

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Eco Jet is a system, specially designed to the range of RAUCH products, which optimizes the charging and melting in RAUCH furnaces.

The patent pending system consists of:

- •A tilting sluice to receive a standard magnesium ingot (this sluice can be charged per hand or by means of the RAUCH-Ingot preheating devices MVE)
- •A melt-shaft preventing the ingot to splash into the melt in an uncontrolled way
- •The patent pending jetpump, which transmits the melt to the melting charge as well as along the crucible-walls

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MVE150E

Prewarming station up to 150 kg/h



MVE500E - MVE1000E

Prewarming station up to 1000 kg/h



Magnesium advance dosing system

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MVE150E

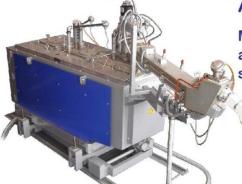
Prewarming station up to 150 kg/h



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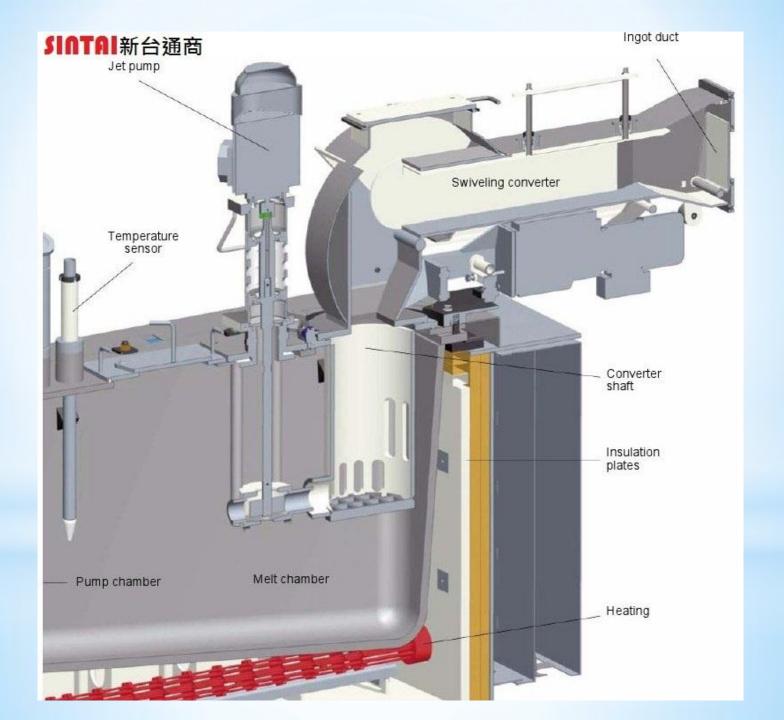
MVE500E - MVE1000E

Prewarming station up to 1000 kg/h



ADS

Magnesium advance dosing system





MAGNESIUM DOSING FURNACE MDO250

Pos. 1 TWO-CHAMBER-DOSING FURNACE, electrically heated, for Magnesium-alloys in ingot shape (HP-quality)

Technical data:

Melting capacity

max. 250 kg/h

This capacity is valid at a bath-temperature of 680 °C and at continuous feeding of the furnace with prewarmed ingots in portions of max. 8 kg.

max. Bath-Temperature:

680 °C

Contents of crucible total:

approx. 450 kg Mg

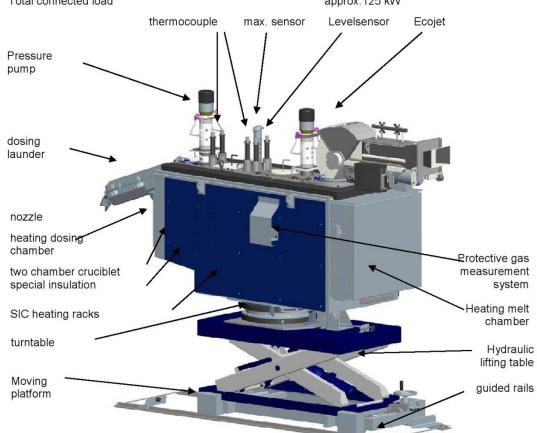
Standard-Voltage:

3 x 400 V - 50/60 Hz

(Different voltage on application by means of a transformer against extra charges)

Total connected load

approx.125 kW



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