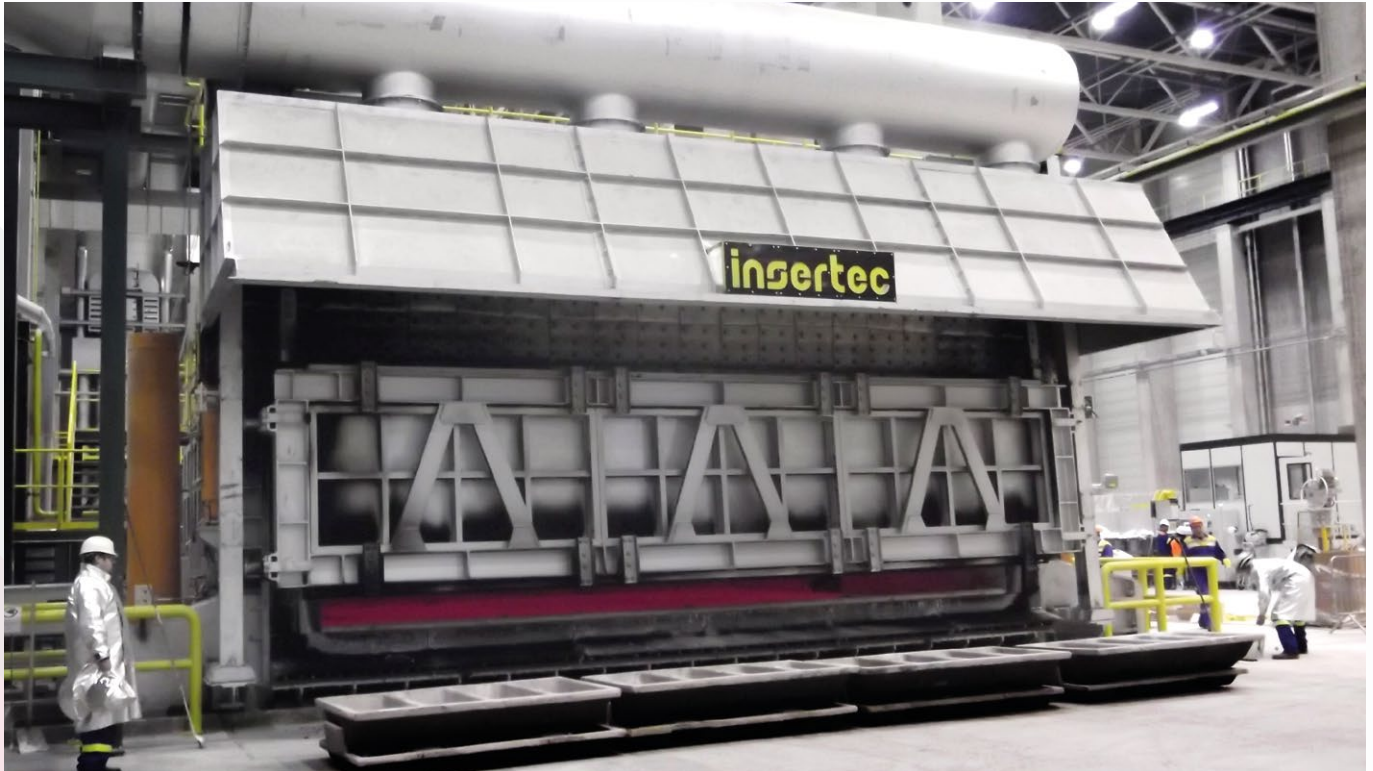


# Reverb furnace

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## Aluminium melting & holding



\ Chamber type furnaces, tilting or static, melting or holding

**Tilting Reverberatory Furnace**, type FRLB, for melting and holding of aluminium, with capacities from 15 to 150 Mton.

The furnace is designed to customers requirements

The furnace is in general a **rectangular** design and with one main large lifting door providing clear and unobstructed access to the main chamber for material charging alloying and drossing etc.

Metal extraction is done by **tilting hydraulic** or **stationary with tap out or transfer pump**.

Burners size is according to furnace purpose (melting, holding or alloying), and are controlled automatically according to bath and roof temperatures.

**Monolithic refractory hearth and wall** construction are lined with castables processing non wetting properties.

**Flat roof** fabricated from steel sections for added strength and the composite refractory lining is chosen for its thermal properties and durability .

Dry precast **door frame** material with the high mechanical strength resistance to temperature fluctuations and abrasion.

**Charging well and Pouring spout** axis can be lined with the tilting axis. This innovate design allows the charging well and pouring spout rotate about tilting axis, and so designed for simultaneous and continuous receiving and pouring of the molten metal on demand.



\ Tilting reverb 150 Mton



WHERE ENGINEERING BECOMES HEAT

**insertec**  
Furnaces & Refractories

# Reverb furnace

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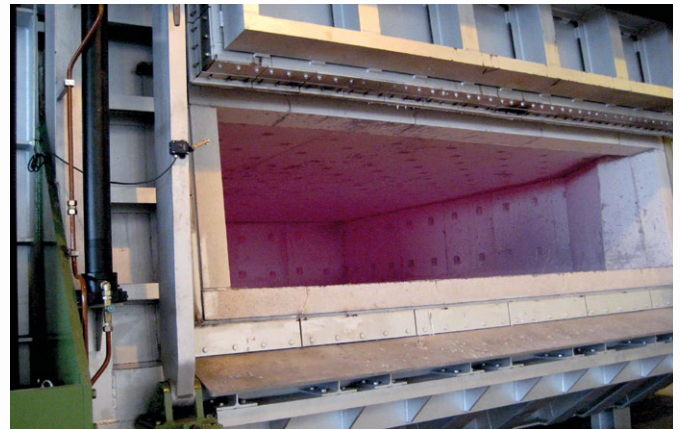
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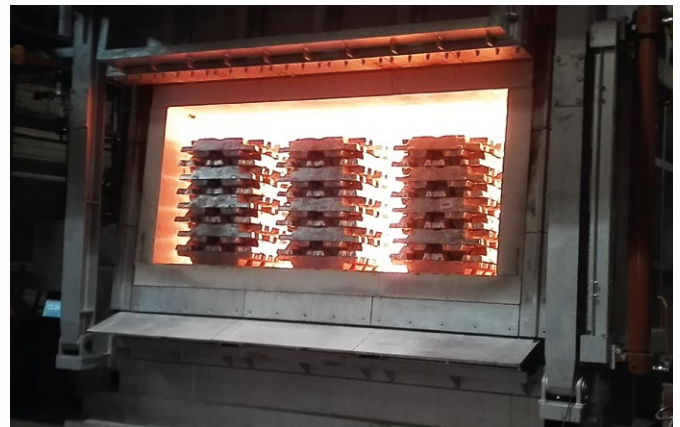
\ Regenerative burners on melting reverb

### Options:

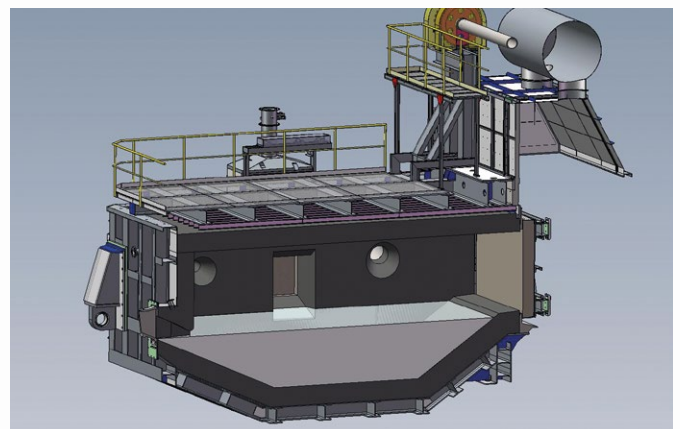
- . Tilting or stationary reverb furnaces are also available
- . Combustion System with high velocity nozzle-mix, regenerative or oxi-gas burners.
- . Furnaces pressure control system, through and actuated valve on fumes exhaust
- . Dry-hearth for melting big solid materials without molten bath contact
- . Spout aligned with tilting axle and launder, without cascade, available for casthouse process in DC Slabs or billets and continuous rolling mill
- . Electromagnetic stirring system of molten metal by a flat coil, for metal homogenization or alloy
- . Degassing system of molten metal by means of porous plugs or lances
- . Auxiliary wells or ports for charging molten metals, additives or maintenance doors
- . SCADA monitoring systems for control the furnace register and managing and production data



\ Frame door with precast shapes



\ Dry heart for ingots bundle



\ Reverb section for tilting furnace