Jasper. Industrial furnace engineering. Independent. Worldwide.

EcoMelter[©] Type HSO



High-performance hearth and bath melting furnace

- Future-orientated design ensures a safe investment
- Energy saving through the use of regenerative burner systems
- High melting capacity
- Clean (minimised burn-off losses)







High-performance hearth and bath melting furnace

The EcoMelter® Type HSO is a hearth and bath melting furnace that is available as a tilting or fixed design. The entire bath area serves as the melting zone and is provided with a high furnace roof. A dry hearth is integrated for the preheating of ingot material or as a melting bridge to separate aluminium and iron. A special feature is that the dense flue gas layer over the molten material ensures complete combustion and excellent heat transfer. The furnace is available with the EcoReg® or PulsReg® regenerator burners. Gas, oil or pulverised fuels can be used.



- > Safe investment
 - through innovative design with heat recovery
- > Direct connection to filter system
 - without leaking air and additional exhaust gas cooling
- > Lower overall energy consumption
 - through regenerative burner systems
- > Optimum handling on/in the furnace
 - through proven furnace geometry
- > Minimised burn-off losses
- > up to 200 t net melting capacity per day and 60 t bath content
- > Can be equipped with the bath treatment system for aluminium Alu-Treat[®], and a metal pump or electromagnetic stirrer

Charging

Due to its low charging height the EcoMelter® Type HSO can be charged with a forklift or wheel loader. For loose scrap a charging machine of Type SC is beneficial. This can charge the furnace with 10 t in only a few minutes. The surface cleaning of the bath should be performed with a dross machine.

Alu-Treat® system

The EcoMelter® Type HSO is available with an Alu-Treat® system for the treatment of aluminium in the bath. Argon is mainly used as a fuel gas. However, nitrogen may also be used as a cleaning gas if nitride formation (e.g. with magnesium) is not anticipated. The result is aluminium of a particularly high quality.

Programmable control

The system is controlled by a Siemens S7, in which the entire system and all necessary data are visualised.





- 1 EcoMelter® HSO tilted
- 2 EcoMelter[©] with rotary bed regenerator EcoReg[®]
- 3 EcoMelter[©] with PulsReg[®]-Medusa system

An overview of our industrial furnace products:

- \rightarrow MultiMelter©
- \rightarrow EcoMelter[©] HSO / MSO / WSO
- → Casting furnace GO
- \rightarrow Rotary drum furnace DKO
- → Charging
- \rightarrow Alu-Treat $^{\odot}$

More information at: www.jasper-gmbh.de





Robert-Bosch-Str.20-24 D- 25451 Quickborn Tel.: +49 (0)4106 / 8043-0 Fax: +49 (0)4106 / 8043-60

