

Gas Dose Station

*for gas purging of aluminium dosing furnaces
with the help of porous plugs*

Through continuously increasing demands on quality and precision it has been necessary for the producers of cast parts to adjust their production to ascended cutomers' requirements. Using porous plugs in closed dosing furnaces is one possible corrective. With this process of inert gas treatment of the molten material just before the outflow of the aluminium, a significant quality improvement of the molten aluminium has been achieved. The satisfactory results do not only depend on the choice of the adequate porous plug, but also on the election of the gas dose station being optimally adjusted to the process. Decisive is that this purging equipment not only provides each porous plug with the desired amount of gas, but also is capable of compensating the different back pressures within the dosing furnace.

The gas dose stations of fc-technik/GDS have been designed especially for these fields of work. Decisive for a good functioning are the gas dose modules of the company fc-technik/GDS, which are used here, too. With their help the desired flow rate can be adjusted at each dosing line individually. The closed loop control of the module ensures that changes of the back pressure (e.g. caused by different static pressures of the molten material) have no influence on the flow rate.

- Exact, reproducible gas dosing for each porous plug regardless of back pressure
- Most convenient operation with touch panels
- Possibility to store amounts and times of dosage
- Direct cleaning of the plugs with N₂/Ar by integrated bypass pipes
- Mechanical und electrical robustness and fail-safe functioning



Gas dose station for a dosing furnace with 2 porous plugs

