

Crucible hot-cleaning machine



Description

The hot-cleaning machine is used for fast cleaning of empty and hot transport crucibles for liquid aluminium between the charging cycles. A pneumatically operated chisel is used to remove deposits from the refractory lining thus reducing transport costs. The transport crucible is ready to be used again immediately after cleaning and re-heating.

Technical data

- Dimensions l x w x h: 10 m x 5.5 m x 3.8 mm
- Electric connection load: 10 kW
- Rotation motor: bevel gear motor 5.5 kW
- Frequency converter: Danfoss/SEW
- Hydraulic unit: pmax: 120 bar, 30 l/min, 5.5 kW, control voltage 24 V
- Hydraulic cylinder: \varnothing 140 mm x 1400 mm stroke, double-acting
- Compressed air: min. 6 bar
- Pneumatic cylinder: \varnothing 80 mm x 1300 mm stroke, double-acting
 \varnothing 80 mm x 1700 mm stroke, double-acting
- Control system: Siemens S7-300
- Cleaning temperature: up to 450 °C

Characteristics

- Very short cleaning times
- Crucible swings in working position by means of hydraulic system
- Operation of the chisel by means of a pneumatic cylinder
- Adjustment of contact pressure by means of proportional valves and joystick
- Continuous adjustment of rotation speed
- Crucible is hydraulically tilted and emptied after treatment

